

Handling technology 1

Grippers
Rotary grippers
Swivel and rotary modules
Linear modules
Cutting tongs
Separators
Ball joints
Sensors and holders
Valves, fittings, accessories

THE KNOW-HOW FACTORY





















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ZIMMER
group



















HANDLING TECHNOLOGY 1

OVERVIEW OF SERIES

1	GRIPPERS	10 - 529
2-JAW PARALLEL GRIPPERS		
PNEUMATIC		
	Series GPP1000	14
	Series MGP800	24
	Series GP	42
	Series GP400	56
	Series GP200	76
	Series GPP5000	86
ELECTRICAL		
	Series GEP9000	132
	Series GEP1400	138
	Series GEP5000	144
2-JAW PARALLEL GRIPPERS WITH LONG STROKE		
PNEUMATIC		
	Series MGH8000	160
	Series GH6000	180
	Series GH7000	222
ELECTRICAL		
	Series GEH6000IL	230
	Series GEH8000	240
3-JAW CONCENTRIC GRIPPERS		
PNEUMATIC		
	Series MGD800	248
	Series GD	266
	Series GD300	274
	Series GPD5000	294
ELECTRICAL		
	Series GED1300	336
	Series GED5000	342
3-JAW CONCENTRIC GRIPPERS WITH LONG STROKE		
PNEUMATIC		
	Series GD500	358

2-JAW ANGULAR GRIPPERS		
PNEUMATIC		
	Series GZ1000	368
	Series MGW800	376
	Series GG1000	394
	Series GPW5000	404
2-JAW RADIAL GRIPPER		
PNEUMATIC		
	Series GK	420
	Series GG4000	434
GRIPPERS FOR SPECIFIC TASKS		
PNEUMATIC		
	Series LGS	450
	Series LG1000	458
	Series LGG	468
	Series RG	474
	Series ST	480
	Series SCH	486
	Series GS	492
	Series GSI	500
	Series HM1000	504
ELECTRICAL		
	Series GEN9100	516
	Series HEM1000	520
2	ROTARY GRIPPERS	530 - 539
ROTARY GRIPPERS		
PNEUMATIC		
	Series DGK	532
	Series DGP400	536

3	SWIVEL AND ROTARY MODULES	540 - 715
	ROTARY CYLINDERS	
	PNEUMATIC	
	 Series PRN	544
	 Series SH	566
	FLAT SWIVEL UNITS	
	PNEUMATIC	
	 Series MSF	574
	 Series SF-C	582
	ELECTRICAL	
	 Series DES	656
	ANGLE PIVOT UNITS	
	PNEUMATIC	
	 Series SWM1000	670
	 Series SW	680
	SWIVEL JAWS	
	PNEUMATIC	
	 Series SB	696
	 Series SBZ	704
4	LINEAR MODULES	716 - 783
	LINEAR CYLINDERS	
	PNEUMATIC	
	 Series SHX	718
	 Series LI	724
	LINEAR RAIL SLIDES	
	PNEUMATIC	
	 Series LS	750
	 Series LSF	760
	 Series LSX	766
	LIFTING CYLINDERS	
	PNEUMATIC	
	 Series HZ	780

5	CUTTING TONGS	784 - 803
	PNEUMATIC	
	 Series ZK1000	786
	 Series ZK	798
6	SEPARATORS	804 - 835
	PNEUMATIC	
	 Series VEG	806
	 Series VE	818
	ELECTRICAL	
	 Series VEE9200	832
7	BALL JOINTS	836 - 837
	 Series KG	836
8	ADJUSTMENT JAWS	838 - 851
	 Series EB5000	838
9	SENSORS AND HOLDERS	852 - 861
	 Magnetic Field Sensors	854
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	 Sensor Cables	858
	 Stop Stroke Adjustment Screws	860
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10	ACCESSORIES	862 - 875
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	 Valves	866
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	 Rotary Distributors	874
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Handling technology 2

Robot accessories












- + Manual tool changers
- + Pneumatic tool changers
- + Rotary distributors
- + Axis compensation modules
- + Crash protection

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1	TOOL CHANGERS MANUAL	8
	Series HWR2000	10
	Series HWR	20
2	TOOL CHANGERS PNEUMATIC	28
	Series WWR	30
	Series WWR1000	54
3	ROTARY DISTRIBUTORS	64
	Series DVR	66
	Series DVR1000	82
4	AXIS COMPENSATION MODULES	86
	Series FGR	88
	Series XYR	94
	Series ARP	106
5	CRASH PROTECTION	122
	Series CSR	124
6	ANGLE FLANGE	138
	Series WFR	138

OUR APPLICATION PROFILES ADAPTED TO YOUR REQUIREMENTS

FIND THE BEST SELECTION QUICKLY: ZIMMER APPLICATION PROFILES

HOW DO I FIND THE RIGHT GRIPPER FOR MY NEEDS?

All gripper users ask themselves this question at some point. Surely, at some point you too have looked for a suitable gripper, but were perplexed by the sheer number of options.

FIND THE GRIPPER THAT IS AN EXACT FIT.

With the introduction of Application Profiles, the Zimmer Group now makes it fast and easy to find the gripper that is an exact fit from our extensive product portfolio. We have grouped the Application Profiles (AP for short) into multiple categories according to application-specific features. This easy-to-use system enables the user to efficiently find exactly the product needed for his or her tasks.

ADVANTAGES FOR OUR CUSTOMERS.

In addition to the faster search, the greatest benefit for the customer is in the fact that only those components are used that are actually needed to fulfill the task. This saves money, increases value creation in production and makes machines and systems more competitive.

YOU CAN'T GO WRONG HERE: AP CLASS 5

Many users find it valuable for the gripper components installed to be universally usable. They are looking for a gripper that can not only master all handling tasks, but also reduces stockkeeping costs, parts list depth and restocking effort to a minimum. For these users, in our Application Profiles of Class 5 (AP5), we have created a platform that includes all of our genuine all-around talents. These include universally usable grippers that are equally well suited to all tasks and can be used even under harsh environmental conditions – premium grippers with a wide range of outstanding features, excellent performance data and a universal range of applications. The new 5000 series of premium grippers demonstrate what today's technology can deliver. Our V-ways made of stainless steel, an extremely hard coating, the double seal of the guides, high precision and complete interchangeability of the pneumatic and electric versions mean that these grippers offer a level of performance previously unavailable on the market.

The grippers have an IP67 protection class and boast a full 30 million maintenance-free cycles. This maintenance-free performance is made possible by a grease reservoir in the gripper jaw. A similar reservoir has proven its value for decades in the AP class 3, but in Class 5, it has been improved by the combination of DLC coating and a double lip seal. This is virtually equivalent to a lifetime lubrication that enables an extremely high number of cycles.

However, the premium AP5 class offers you other advantages that makes them future-proof and indispensable. For example, with its platform strategy and the ability to change between pneumatic and electric drives, it reduces the system costs and design effort of tomorrow. Only the AP5 offers pneumatic and electrical grippers with nearly identical performance data. The electric grippers, equipped with a brushless motor, offer significantly more performance compared to the pneumatic version. In addition to the integrated control system, the likewise integrated sensors for 3-position sensing and the single-cable solution, these grippers will, in the future, also offer an IO-Link interface that makes configuring and implementing the gripper amazingly easy. Therefore, if you need outstanding performance and future-proof quality, Class AP5 is the best choice. It is the best tool to equip users for the path towards the single-energy machine 4.0, even if they are currently still using pneumatics and don't plan to switch over to electric components until sometime in the future.













A CLEARLY STRUCTURED PRODUCT PORTFOLIO – ZIMMER GROUP



GRIPPERS

OVERVIEW OF SERIES

Products	Gripping force [N]	Stroke per jaw [mm]	Number of installation sizes
2-jaw parallel grippers pneumatic Page 12			
Series GPP1000	100	4-16	●
Series MGP800	6 400	1-12	●●●●●●●●
Series GP	4 5250	3-13	●●●●●●
Series GP400	85 19275	3 30	●●●●●●●●
Series GP200	160 4500	6 40	●●●●
Series GPP5000	140 26950	2,5-45	●●●●●●●●●●
2-jaw parallel grippers electric Page 130			
Series GEP9000	11-50	2-4	●●
Series GEP1400	140-350	2-6	●●
Series GEP5000	540 1900	6-10	●●●
2-Jaw Parallel Grippers with Long Stroke pneumatic Page 158			
Series MGH8000	60 910	10 100	●●●●
Series GH6000	120 3400	20 200	●●●●●
Series GH7000	8500	65-100	●●
2-Jaw Parallel Grippers with Long Stroke electric Page 228			
Series GEH6000IL	60 2400	0 80	●●
Series GEH8000	~200 3200	0 60	●
3-jaw concentric grippers pneumatic Page 246			
Series MGD800	30 1420	1-12	●●●●●●●●
Series GD	24 530	11-33	●●●
Series GD300	200 34700	3 30	●●●●●●●●●●
Series GPD5000	310 72500	2,5-45	●●●●●●●●●●
3-jaw concentric grippers electric Page 334			
Series GED1300	140-350	2-6	●●
Series GED5000	540 1900	6-10	●●●
3-Jaw Concentric Grippers with Long Stroke pneumatic Page 356			
Series GD500	1300-2480	30-60	●●●
	Gripping force [N]	Stroke per jaw [°]	Number of installation sizes
2-Jaw Angular Grippers pneumatic Page 366			
Series GZ1000	62-315	8-10	●●●
Series MGW800	5-325	37,5	●●●●●●●●
Series GG1000	2910 29110	20	●●●●
Series GPW5000	1330 14500	15	●●●
2-jaw radial gripper pneumatic Page 418			
Series GK	70 4250	0 90	●●●●●●
Series GG4000	430 4000	0 90	●●●●●●





	Position sensing			Options					Safety characteristics			Maintenance
AP class												
	Magnetic field sensor	Inductive sensor	Integrated sensing	Temperature-resistant	High-strength S	Corrosion resistance	Purged air	IP class	Spring closing C	Spring opening O	Self locking mechanism	Maintenance-free cycles (max.)
1	•							30				2 million
2	•							40	•			10 million
2		•						30	•			10 million
3	•	•			•		•	40	•	•		10 million
3	•	•			•		•	40	•			10 million
5	•	•		•	•	•	•	64/67*	•	•		30 million
2			•				•	40	•	•		30 million
3								52				5 million
5			•			•	•	64			•	30 million
2	•	•						64				10 million
3	•	•						40				10 million
3		•						64				10 million
3			•					40/54			•	5 million
3			•					54			•	10 million
2	•							40	•			10 million
2		•						40				10 million
3	•	•			•		•	40	•	•		10 million
5	•	•		•	•	•	•	64/67*	•	•		30 million
3								40				5 million
5			•			•	•	64			•	30 million
3		•						40				10 million
1		•						30				10 million
2	•							30	•			10 million
3	•	•					•	40	•			10 million
5	•	•		•		•	•	64	•			30 million
2	•	•						20	•			10 million
3	•	•			•		•	64	•			10 million

2-JAW PARALLEL GRIPPERS

OVERVIEW OF SERIES



▶ PNEUMATIC

	Series GPP1000	14
	Series MGP800	24
	Series GP	42
	Series GP400	56
	Series GP200	76
	Series GPP5000	86

2-JAW PARALLEL GRIPPERS

SERIES GPP1000

▶ PRODUCT ADVANTAGES



“Cost-effective”

- ▶ Parallel gripper with an unbeatable price/performance ratio
- ▶ Gripper jaw set and fixation material included
- ▶ Can be configured for spring opening or spring closing
- ▶ One installation size, three strokes: 4, 8 and 16 mm per gripper jaw
- ▶ Gripping force of 100 N
- ▶ Service life of up to 2 million cycles

▶ THE BEST PRODUCT FOR YOUR APPLICATION



▶ **Our products love the challenge!**

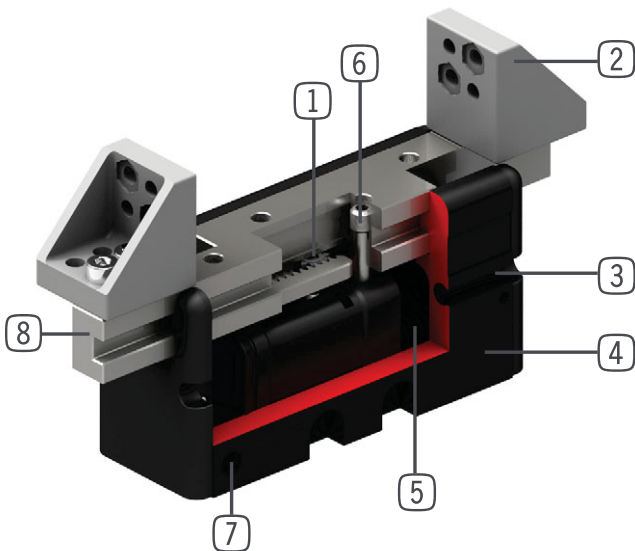
Extreme conditions, all over the world—our tried and tested components and systems give you limitless possibilities:

Find the best product for your specific use:

www.zimmer-group.com



BENEFITS IN DETAIL



- ① **Synchronization**
- via rack and pinion
- ② **Intermediate jaws**
- incl. mounting material
- included in scope of delivery
- ③ **Sensing**
- mounting and positioning of magnetic field sensors
- ④ **Lightweight housing**
- Hard-coated aluminum alloy
- ⑤ **Single-acting pneumatic cylinder**
- Spring return
- ⑥ **Jaw slave screw**
- for changing the gripper's direction of force
- ⑦ **Energy supply**
- possible from several sides
- ⑧ **Gripper jaw**
- for connecting the intermediate jaw or an individual gripper finger via centering sleeves

SERIES CHARACTERISTICS



Number of installation sizes	1
Stroke per jaw	4 mm - 16 mm
Gripping force	100 N
Weight	0,16 kg - 0,20 kg
AP class	1



Magnetic field sensor



IP30



2 million maintenance-free cycles (max.)

2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GPP1104

1

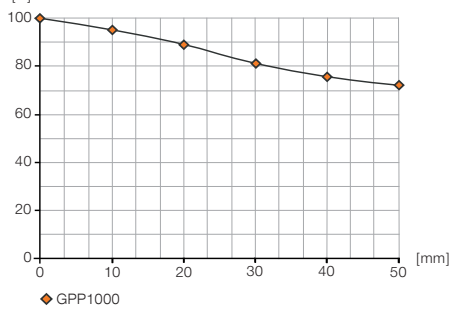
Installation size GPP1104 / 2-Jaw Parallel Grippers / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS



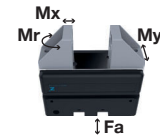
▶ Gripping force diagram

Shows the arithmetic total of the individual forces that occur on the gripper fingers, depending on the gripper finger length



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Steel top jaws Plastic top jaws

Mr [Nm]	4	1
Mx [Nm]	4	2
My [Nm]	2	1
Fa [N]	400	100

▶ INCLUDED IN DELIVERY



Plastic top jaws and assembly material

ZUB1100

▶ RECOMMENDED ACCESSORIES



PNP Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS1000SKHR



NPN Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS1000SKHR-NPN



Straight Fittings - Quick Connect Style

GVM5



Angled Fittings - Quick Connect Style

WVM5



MCS Adapter plate

AP1100

▶ RECOMMENDED ACCESSORY MCS ADAPTER PLATE



Straight Fittings - Quick Connect Style

GV1-4X6

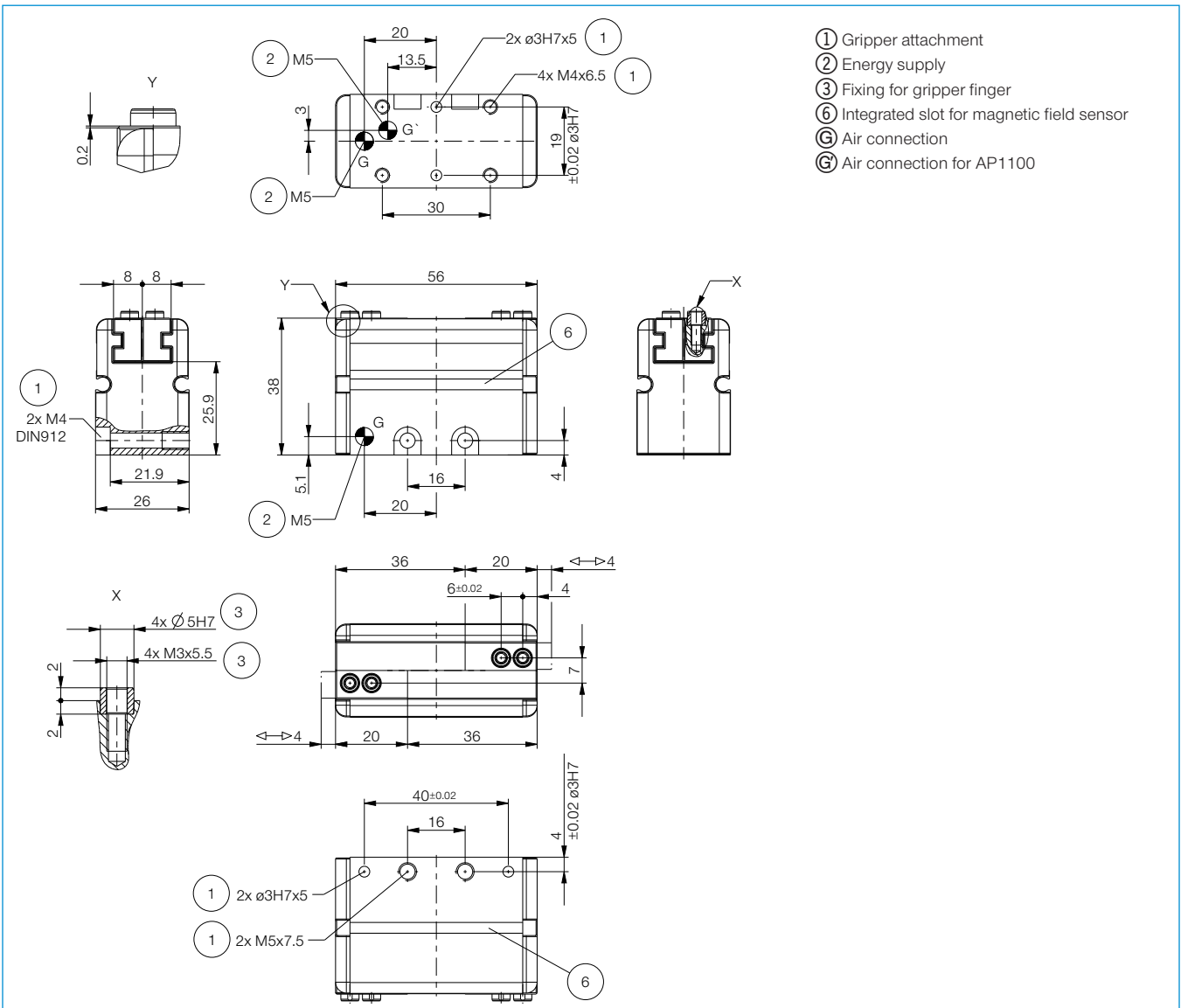


Angled Fittings - Quick Connect Style

WV1-4X6

Order no.	Technical Data*
Stroke per jaw [mm]	4
Grip force in grip direction min. [N]	100
Travel time in gripping direction [ms]	20
Reset time using spring [ms]	30
Permissible weight per jaw max [kg]	0.10
Repetition accuracy +/- [mm]	0.05
Operating pressure [bar]	2 ... 6
Operating temperature [°C]	5 ... +60
Air volume per cycle [cm³]	1.4
Protection to IEC 60529	IP30
Weight [kg]	0.16

*All data measured at 6 bar



2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GPP1108

1

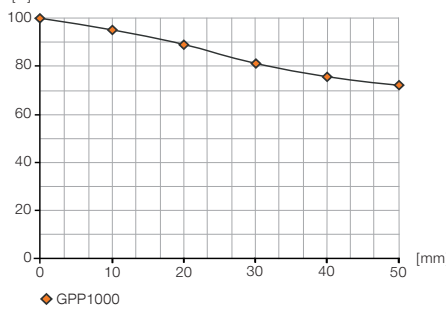
Installation size GPP1108 / 2-Jaw Parallel Grippers / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS



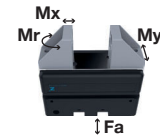
▶ Gripping force diagram

Shows the arithmetic total of the individual forces that occur on the gripper fingers, depending on the gripper finger length



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Steel top jaws Plastic top jaws

Mr [Nm]	4	1
Mx [Nm]	4	2
My [Nm]	2	1
Fa [N]	400	100

▶ INCLUDED IN DELIVERY



Plastic top jaws and assembly material

ZUB1100

▶ RECOMMENDED ACCESSORIES



PNP Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS1000SKHR



NPN Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS1000SKHR-NPN



Straight Fittings - Quick Connect Style

GVM5



Angled Fittings - Quick Connect Style

WVM5



MCS Adapter plate

AP1100

▶ RECOMMENDED ACCESSORY MCS ADAPTER PLATE



Straight Fittings - Quick Connect Style

GV1-4X6

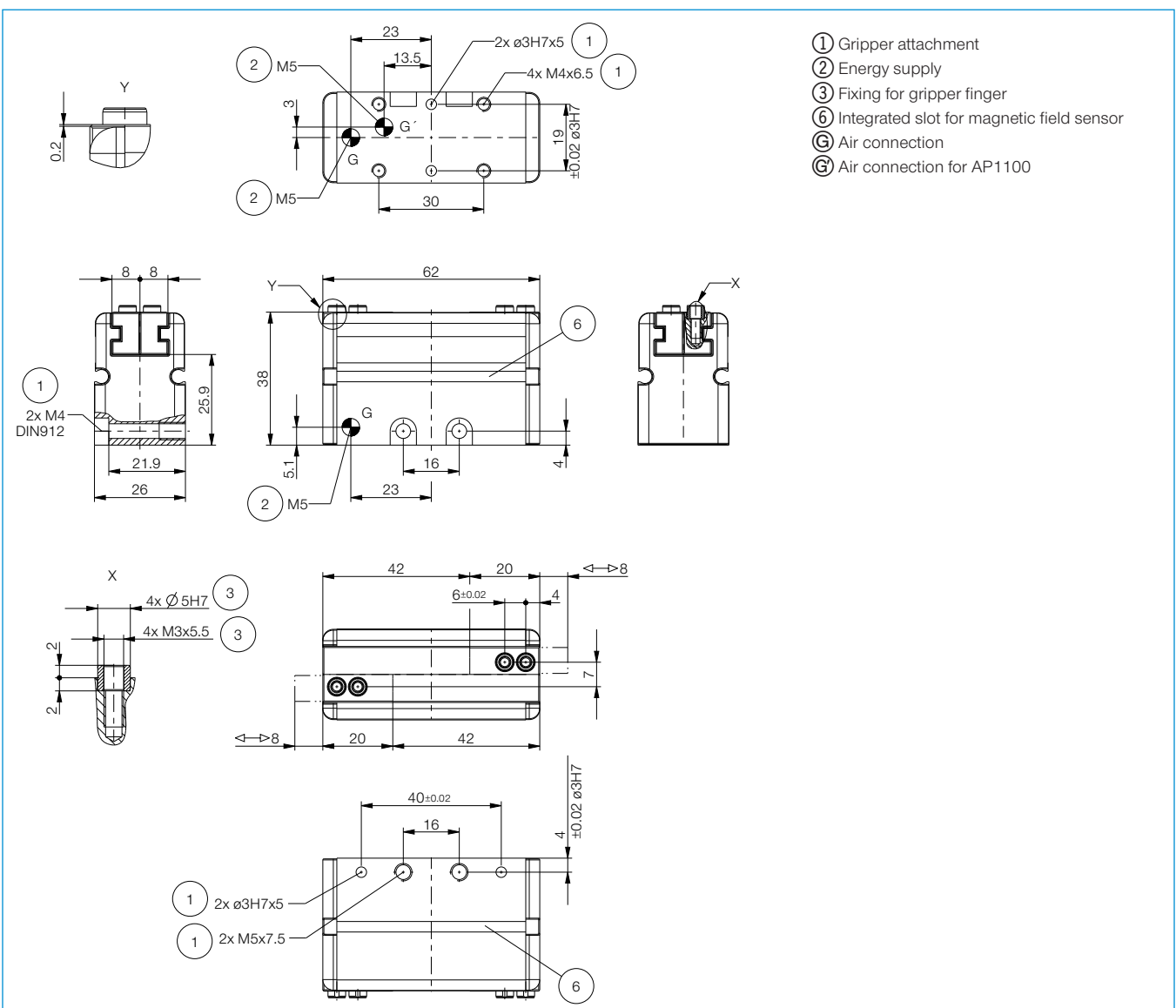


Angled Fittings - Quick Connect Style

WV1-4X6

Order no.	Technical Data*
Stroke per jaw [mm]	8
Grip force in grip direction min. [N]	100
Travel time in gripping direction [ms]	25
Reset time using spring [ms]	40
Permissible weight per jaw max [kg]	0.10
Repetition accuracy +/- [mm]	0.05
Operating pressure [bar]	2 ... 6
Operating temperature [°C]	5 ... +60
Air volume per cycle [cm³]	2.7
Protection to IEC 60529	IP30
Weight [kg]	0.17

*All data measured at 6 bar



2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GPP1116

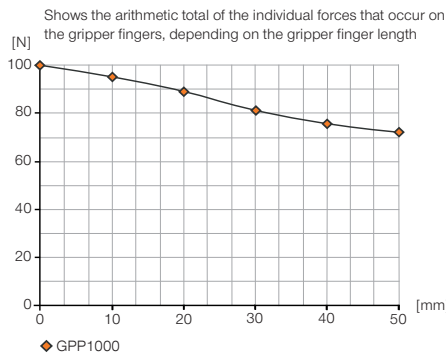
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Installation size GPP1116 / 2-Jaw Parallel Grippers / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS

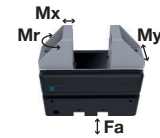


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Steel top jaws Plastic top jaws

Mr [Nm]	4	1
Mx [Nm]	4	2
My [Nm]	2	1
Fa [N]	400	100

▶ INCLUDED IN DELIVERY



Plastic top jaws and assembly material
ZUB1100

▶ RECOMMENDED ACCESSORIES



PNP Magnetic field sensor Straight
Cable 0,3 m - Connector M8
MFS1000SKHR



NPN Magnetic field sensor Straight
Cable 0,3 m - Connector M8
MFS1000SKHR-NPN



Straight Fittings - Quick
Connect Style
GVM5



Angled Fittings - Quick
Connect Style
WVM5



MCS Adapter plate
AP1100

▶ RECOMMENDED ACCESSORY MCS ADAPTER PLATE



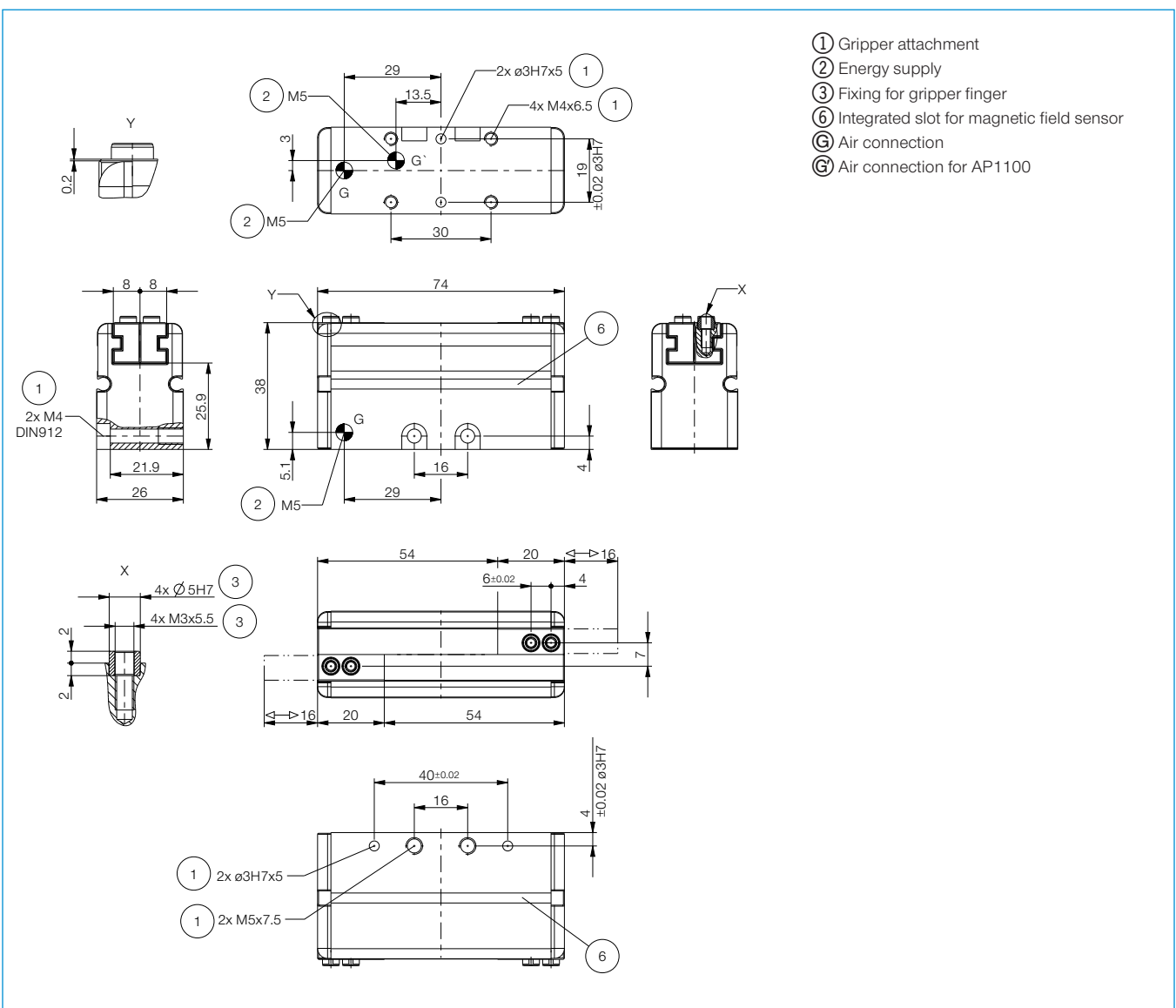
Straight Fittings - Quick
Connect Style
GV1-4X6



Angled Fittings - Quick
Connect Style
WV1-4X6

Order no.	Technical Data*
Stroke per jaw [mm]	16
Grip force in grip direction min. [N]	100
Travel time in gripping direction [ms]	30
Reset time using spring [ms]	100
Permissible weight per jaw max [kg]	0.10
Repetition accuracy +/- [mm]	0.05
Operating pressure [bar]	2 ... 6
Operating temperature [°C]	5 ... +60
Air volume per cycle [cm³]	5.6
Protection to IEC 60529	IP30
Weight [kg]	0.20

*All data measured at 6 bar

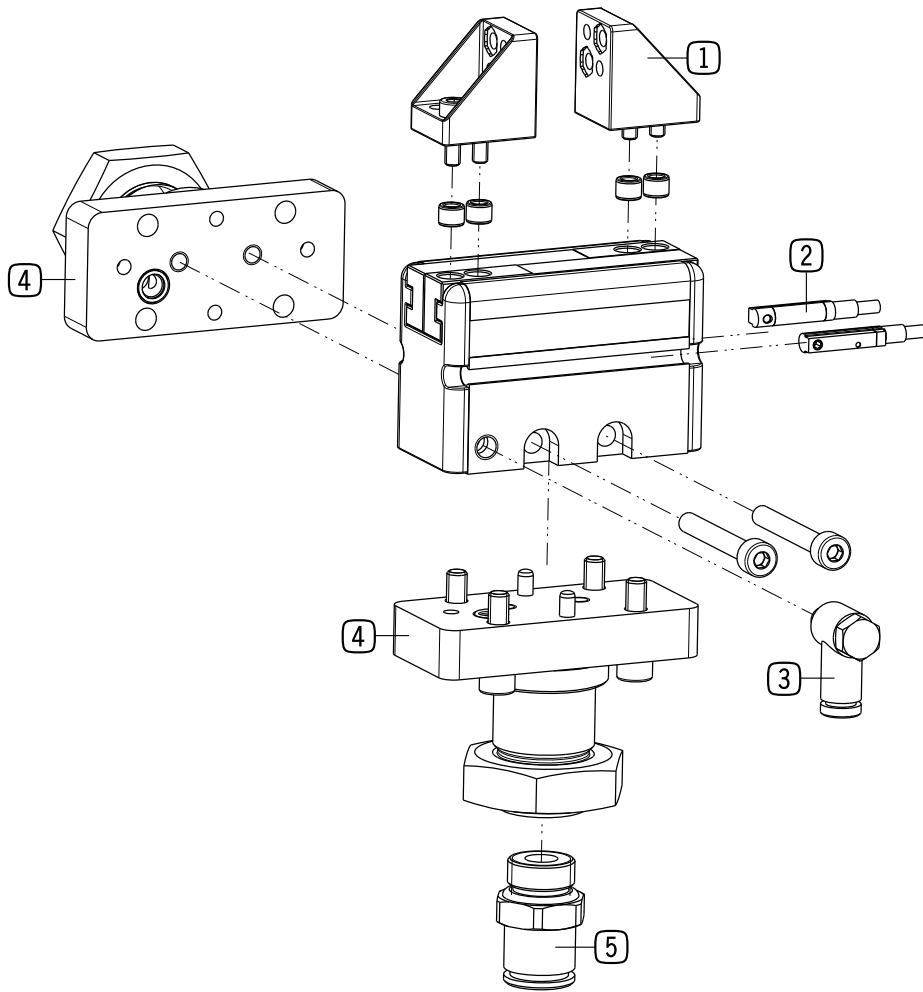


2-JAW PARALLEL GRIPPERS

SERIES GPP1000

1

Series GPP1000 / 2-Jaw Parallel Grippers / pneumatic / Grippers



► INCLUDED IN DELIVERY



Plastic top jaws and assembly material
ZUB1100

▶ RECOMMENDED ACCESSORIES



PNP Magnetic field sensor Straight
Cable 0,3 m - Connector M8
MFS1000SKHR



NPN Magnetic field sensor Straight
Cable 0,3 m - Connector M8
MFS1000SKHR-NPN



Straight Fittings - Quick
Connect Style
GVM5



Angled Fittings - Quick
Connect Style
WVM5



MCS Adapter plate
AP1100

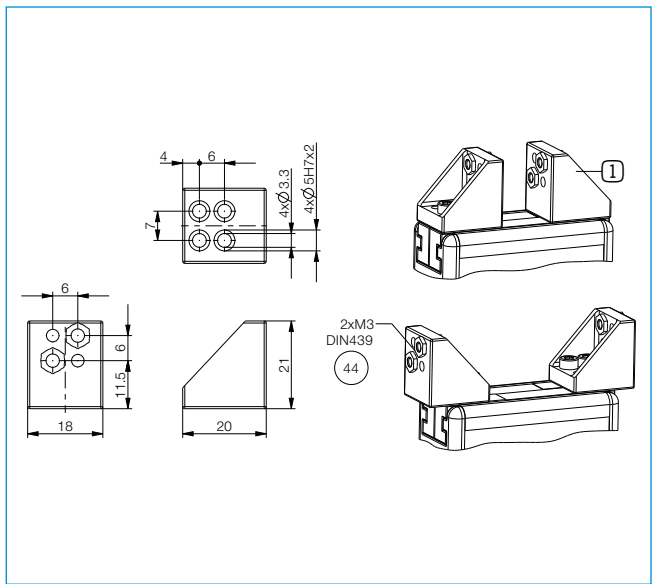
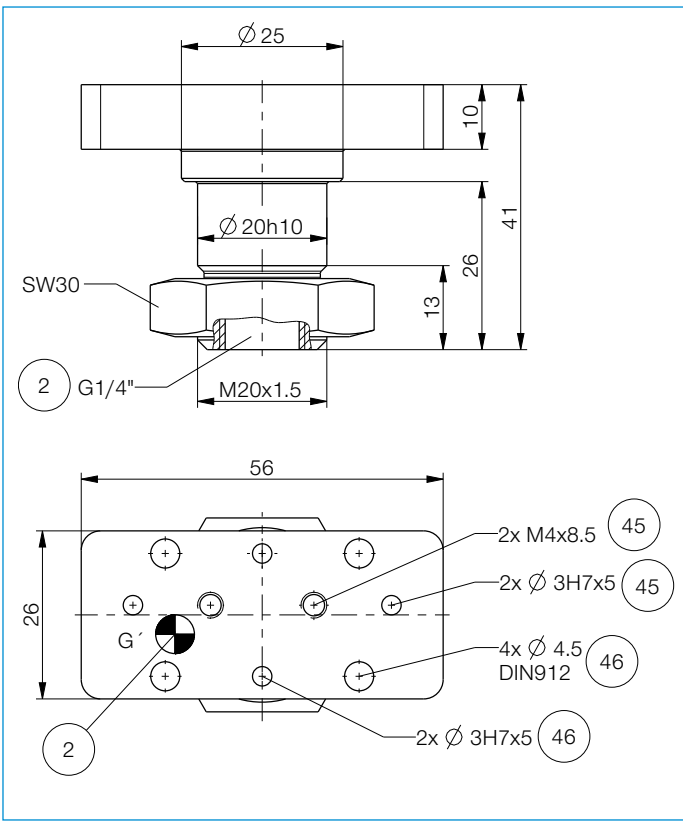


Straight Fittings - Quick
Connect Style
GV1-4X6



Angled Fittings - Quick
Connect Style
WV1-4X6

▶ TECHNICAL DRAWINGS ACCESSORIES



- ② Energy supply
- ④④ Fixing for gripper finger
- ④⑤ Horizontal mounting
- ④⑥ Vertical mounting
- ⓐ Gripper air connection

2-JAW PARALLEL GRIPPERS

SERIES MGP800

1

Series MGP800 / 2-Jaw Parallel Grippers / pneumatic / Grippers

▶ PRODUCT ADVANTAGES



“The powerful”

- ▶ **Over 40% more powerful than the benchmark**
Optimisation of weight and force reduces your application costs since all components can have a smaller scale
- ▶ **Gripper jaws up to 50% longer than the benchmark**
The highest force and torque measurement enables flexible use for maximum dynamics
- ▶ **Failure-free continuous operation**
Our uncompromising “Made in Germany” quality guarantees up to 10 million maintenance-free gripping cycles

▶ THE BEST PRODUCT FOR YOUR APPLICATION



- ▶ **Our products love the challenge!**
Extreme conditions, all over the world—our tried and tested components and systems give you limitless possibilities:
Find the best product for your specific use:
www.zimmer-group.com

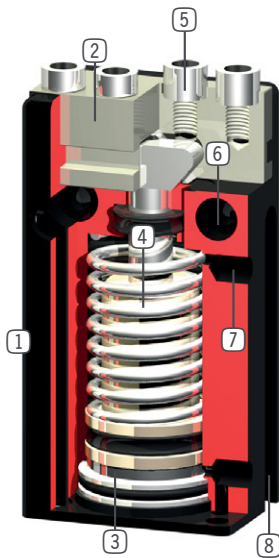
HOW TO ORDER CORRECTLY

- ▶ The product order numbers are arranged according to this diagram:

Order no.	MGP803N	<input type="checkbox"/>		
For external gripping, self-locking, spring closing		C		



BENEFITS IN DETAIL



- ① **Robust, lightweight housing**
- Hard-coated aluminum alloy
- ② **Gripper jaw**
- individual gripper finger mounting
- ③ **Position sensing**
- permanent magnet for direct monitoring of piston movement
- ④ **Integrated gripping force safety device**
- spring integrated into cylinder as energy storage (from size 803 upwards)
- ⑤ **Removable centering sleeves**
- quick and economical positioning of the gripper fingers
- ⑥ **Mounting and positioning**
- mounting possible from several sides for versatile positioning
- ⑦ **Energy supply**
- possible from several sides
- ⑧ **Sensing slot**
- mounting and positioning of magnetic field sensors

SERIES CHARACTERISTICS



Number of installation sizes	8
Stroke per jaw	1 mm - 12 mm
Gripping force	6 N - 400 N
Weight	0,008 kg - 0,46 kg
AP class	2



10 million maintenance-free cycles (max.)



Spring closing C



IP40



Magnetic field sensor

2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE MGP801

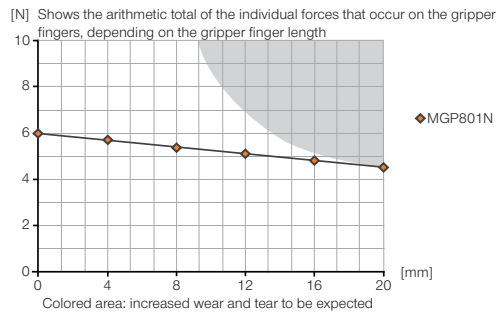
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Installation size MGP801 / 2-Jaw Parallel Grippers / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS

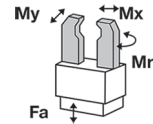


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	1
Mx [Nm]	2
My [Nm]	1
Fa [N]	54

▶ INCLUDED IN DELIVERY



Centering Disc

DST80100

▶ RECOMMENDED ACCESSORIES



Straight Fittings - Barb Style Connection

GVM3



Angled Fittings - Barb Style Connection

WVM3

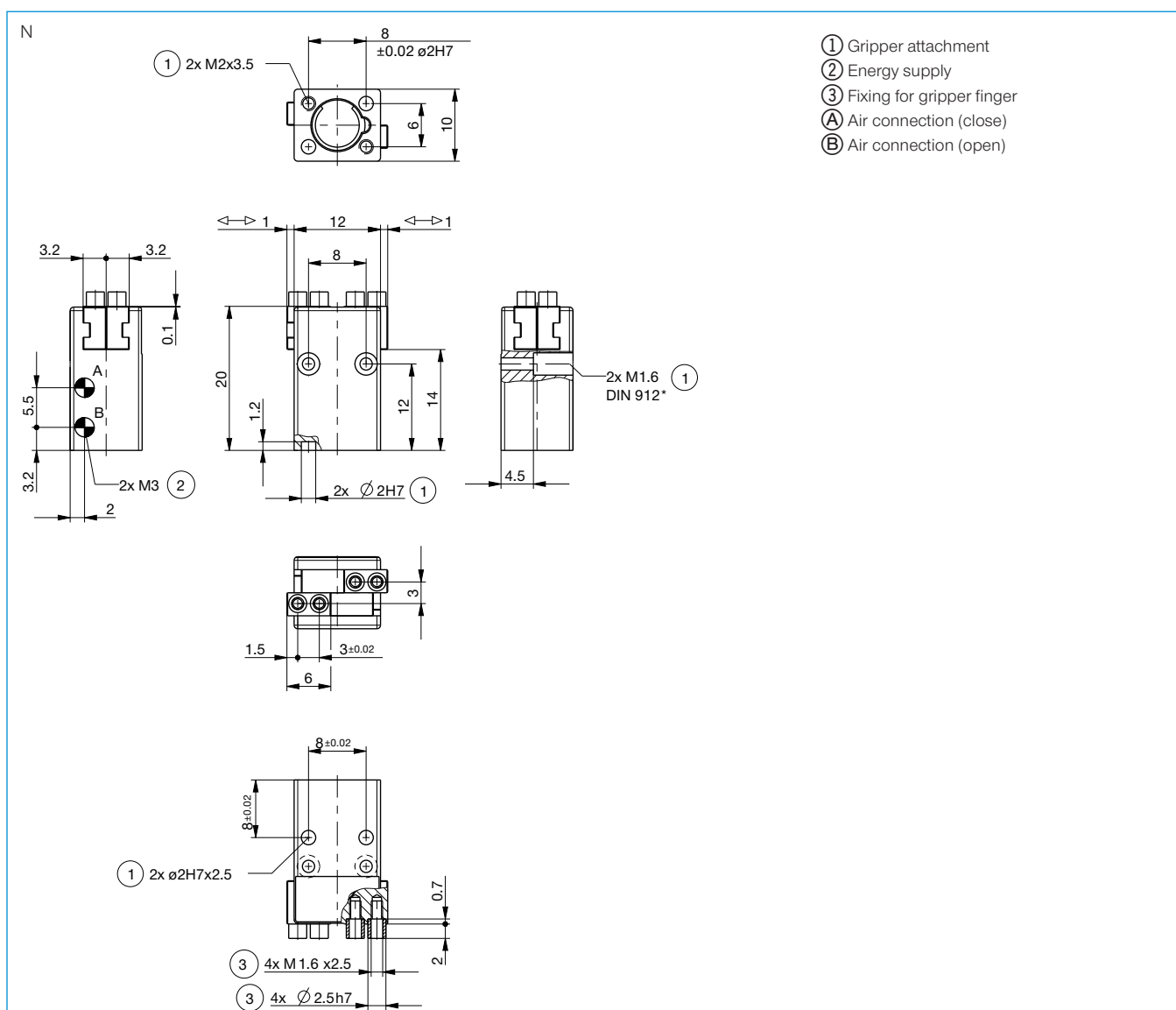


Quick Exhaust Valve

DEV04

Order no.	Technical Data*
Stroke per jaw [mm]	1
Gripping force in closing [N]	6
Gripping force in opening [N]	8
Gripping force secured by spring min. [N]	
Closing time [s]	0.01
Opening time [s]	0.01
Repetition accuracy +/- [mm]	0.025
Operating pressure min. [bar]	3
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm ³]	0.09
Weight [kg]	0.008

*All data measured at 6 bar



2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE MGP802

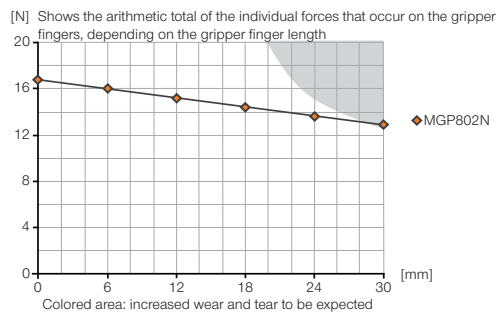
1

Installation size MGP802 / 2-Jaw Parallel Grippers / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS

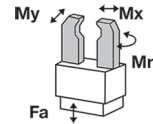


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	1
Mx [Nm]	3
My [Nm]	2
Fa [N]	90

▶ INCLUDED IN DELIVERY



Centering Disc

DST80200

▶ RECOMMENDED ACCESSORIES



Straight Fittings - Barb Style Connection

GVM3



Angled Fittings - Barb Style Connection

WVM3

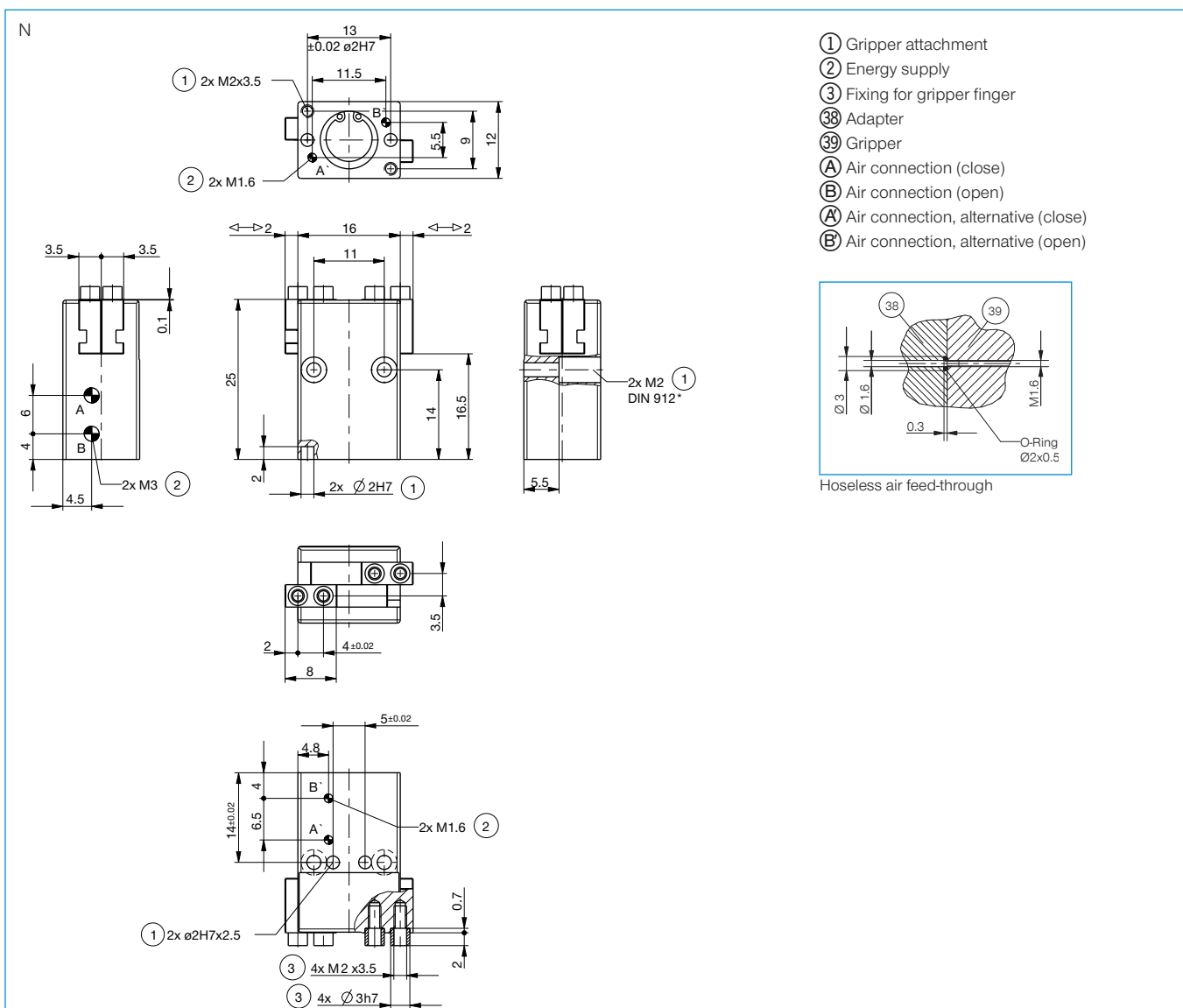


Quick Exhaust Valve

DEV04

Order no.	MGP802N
Stroke per jaw [mm]	2
Gripping force in closing [N]	16
Gripping force in opening [N]	19
Gripping force secured by spring min. [N]	
Closing time [s]	0.01
Opening time [s]	0.01
Repetition accuracy +/- [mm]	0.025
Operating pressure min. [bar]	3
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm ³]	0.26
Weight [kg]	0.016

*All data measured at 6 bar



2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE MGP803

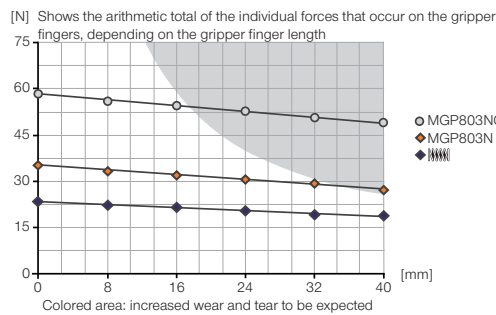
1

Installation size MGP803 / 2-Jaw Parallel Grippers / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS

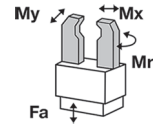


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	2
Mx [Nm]	5
My [Nm]	2
Fa [N]	140

▶ INCLUDED IN DELIVERY



Centering Disc

DST80320

▶ RECOMMENDED ACCESSORIES



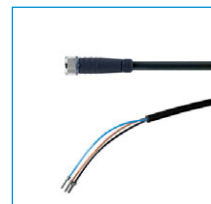
Magnetic field sensor
Angled Cable 0,3 m -
Connector M8
MFS103SKHC



Magnetic field sensor
Straight Cable 0,3 m -
Connector M8
MFS204SKHC



2-Position-Sensor Cable
0,3 m - Connector M8
MFSP2SKHC-02



Plug-in connector Straight
Cable 5m - Socket M8
(female)
KAG500



Straight Fittings - Barb
Style Connection
GVM3



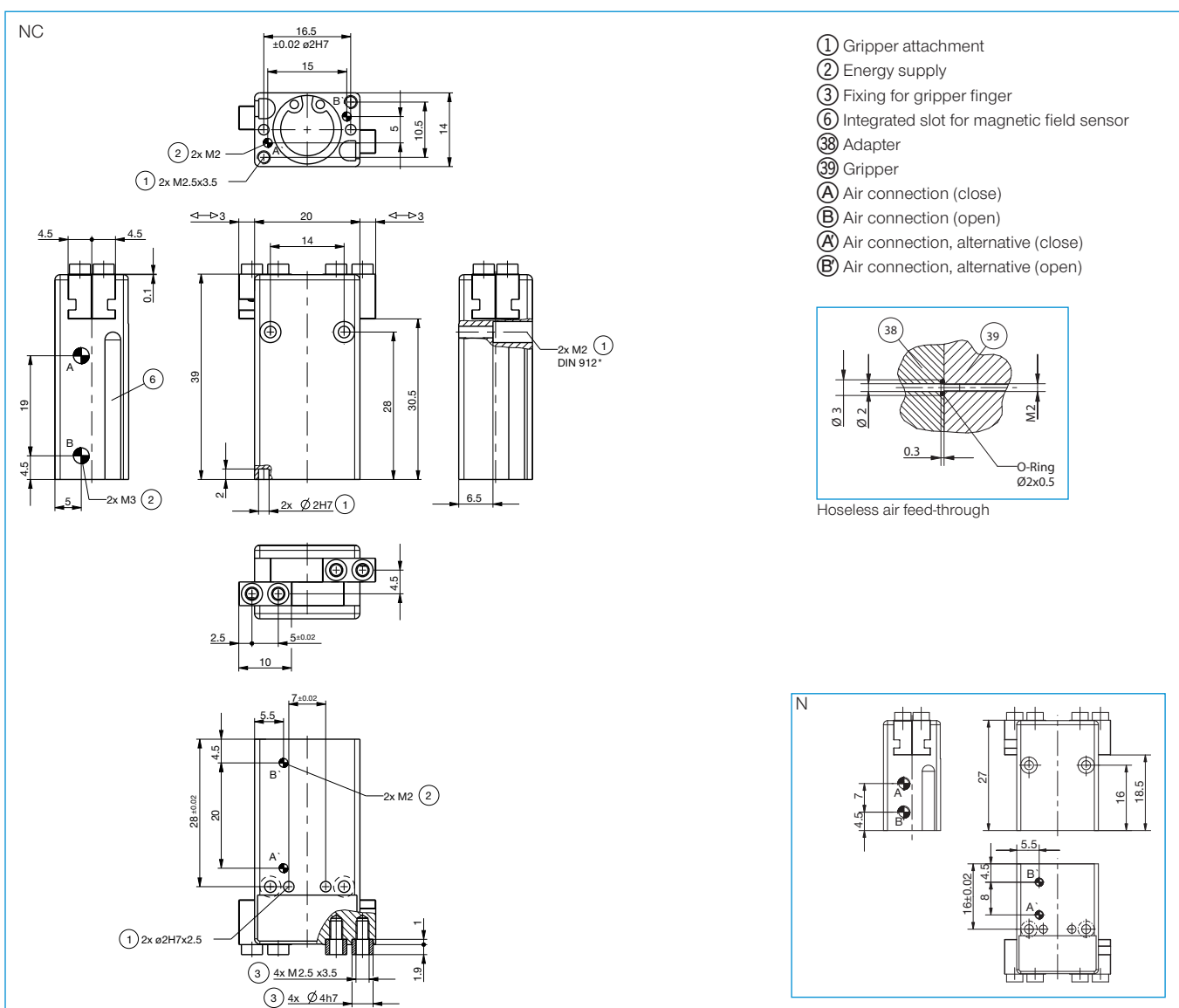
Angled Fittings - Barb
Style Connection
WVM3



Quick Exhaust Valve
DEV04

Order no.	► Technical Data*	
	MGP803N	MGP803NC
Stroke per jaw [mm]	3	3
Gripping force in closing [N]	35	55
Gripping force in opening [N]	40	
Gripping force secured by spring min. [N]		20
Closing time [s]	0.01	0.01
Opening time [s]	0.01	0.03
Repetition accuracy +/- [mm]	0.025	0.025
Operating pressure min. [bar]	3	4
Operating pressure max. [bar]	8	8
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm ³]	0.8	1.1
Weight [kg]	0.025	0.035

*All data measured at 6 bar



2-JAW PARALLEL GRIPPERS

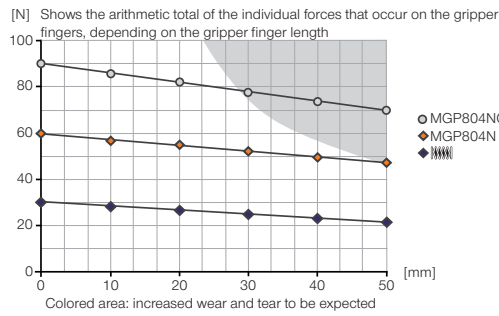
INSTALLATION SIZE MGP804

1

▶ PRODUCT SPECIFICATIONS

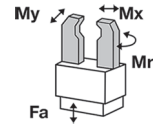


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	3
Mx [Nm]	7
My [Nm]	3
Fa [N]	230

▶ INCLUDED IN DELIVERY



Centering Disc

DST40400

▶ RECOMMENDED ACCESSORIES



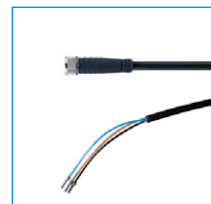
Magnetic field sensor
Angled Cable 0,3 m -
Connector M8
MFS103SKHC



Magnetic field sensor
Straight Cable 0,3 m -
Connector M8
MFS204SKHC



2-Position-Sensor Cable
0,3 m - Connector M8
MFSP2SKHC-02



Plug-in connector Straight
Cable 5m - Socket M8
(female)
KAG500



Straight Fittings - Barb
Style Connection
GVM3



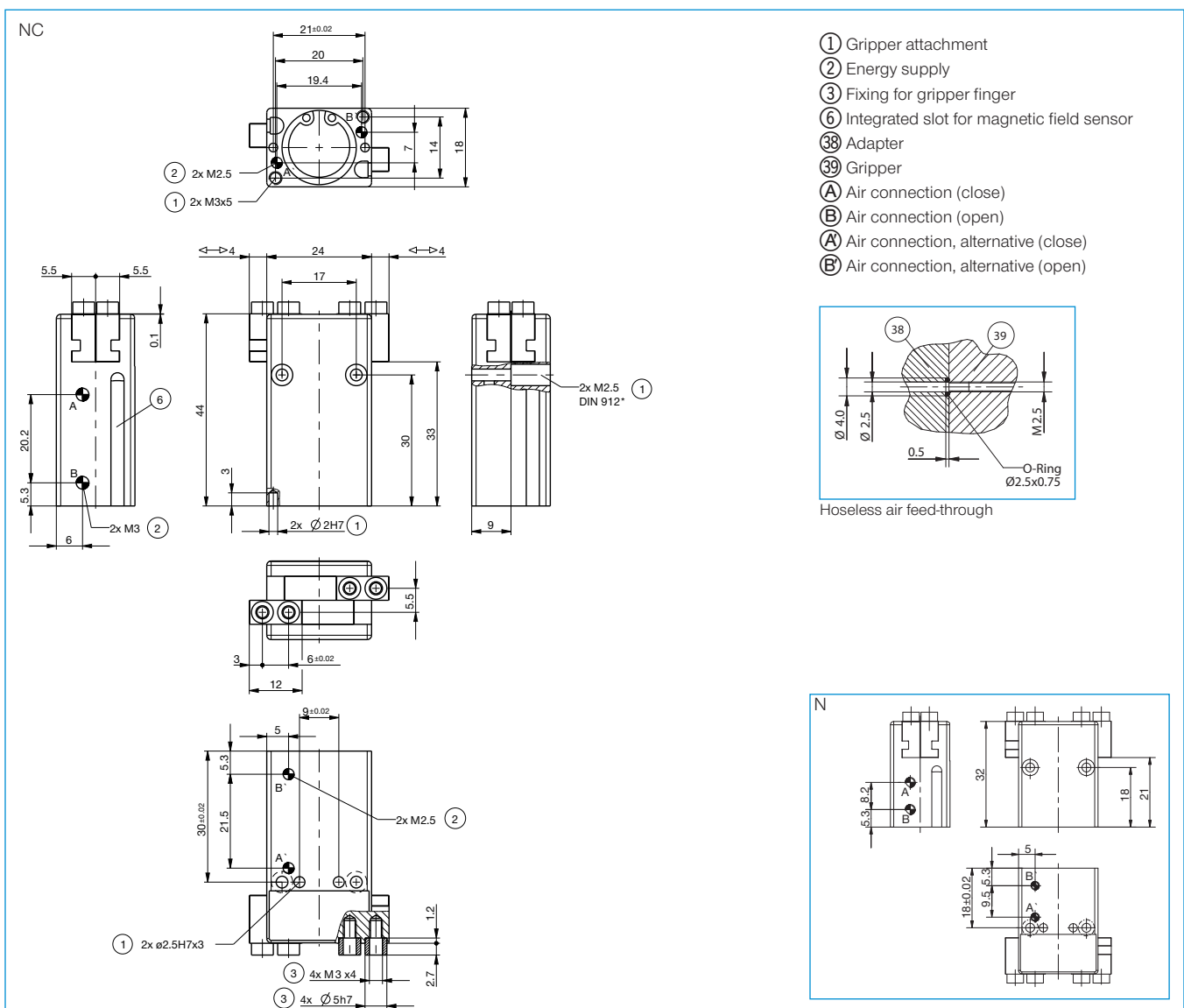
Angled Fittings - Barb
Style Connection
WVM3



Quick Exhaust Valve
DEV04

Order no.	► Technical Data*	
	MGP804N	MGP804NC
Stroke per jaw [mm]	4	4
Gripping force in closing [N]	60	90
Gripping force in opening [N]	65	
Gripping force secured by spring min. [N]		30
Closing time [s]	0.02	0.02
Opening time [s]	0.02	0.04
Repetition accuracy +/- [mm]	0.025	0.025
Operating pressure min. [bar]	3	4
Operating pressure max. [bar]	8	8
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm ³]	1.9	2.5
Weight [kg]	0.05	0.07

*All data measured at 6 bar



2-JAW PARALLEL GRIPPERS

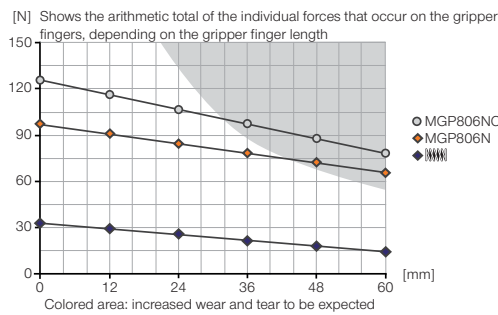
INSTALLATION SIZE MGP806

1

▶ PRODUCT SPECIFICATIONS

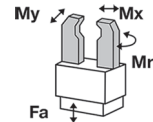


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	4
Mx [Nm]	14
My [Nm]	5
Fa [N]	330

▶ INCLUDED IN DELIVERY



Centering Disc

DST40400

▶ RECOMMENDED ACCESSORIES



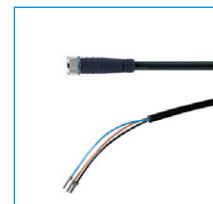
Magnetic field sensor
Angled Cable 0,3 m -
Connector M8
MFS103SKHC



Magnetic field sensor
Straight Cable 0,3 m -
Connector M8
MFS204SKHC



2-Position-Sensor Cable
0,3 m - Connector M8
MFSP2SKHC-02



Plug-in connector Straight
Cable 5m - Socket M8
(female)
KAG500



Straight Fittings - Barb
Style Connection
GVM3



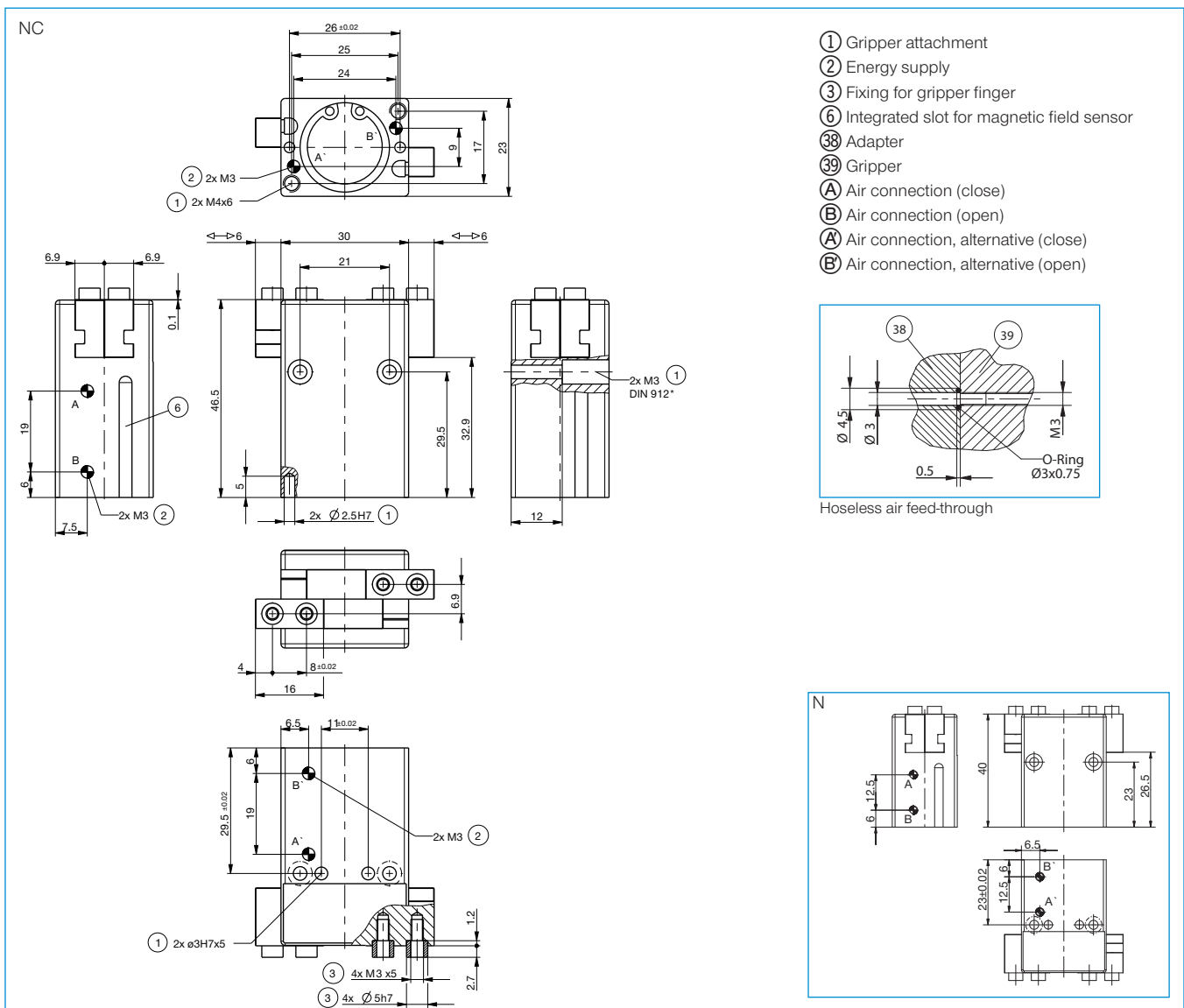
Angled Fittings - Barb
Style Connection
WVM3



Quick Exhaust Valve
DEV04

Order no.	Technical Data*	
	MGP806N	MGP806NC
Stroke per jaw [mm]	6	6
Gripping force in closing [N]	100	140
Gripping force in opening [N]	120	
Gripping force secured by spring min. [N]		40
Closing time [s]	0.02	0.02
Opening time [s]	0.02	0.04
Repetition accuracy +/- [mm]	0.025	0.025
Operating pressure min. [bar]	3	4
Operating pressure max. [bar]	8	8
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm ³]	4.2	5.4
Weight [kg]	0.1	0.11

*All data measured at 6 bar



2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE MGP808

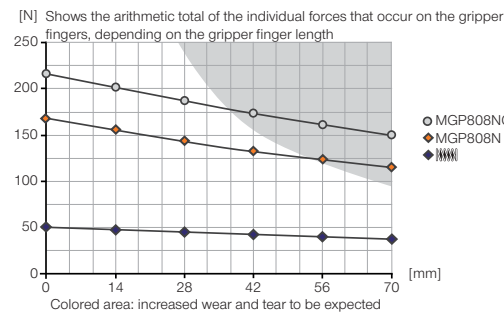
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Installation size MGP808 / 2-Jaw Parallel Grippers / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS

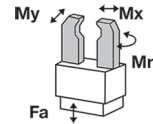


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	6
Mx [Nm]	21
My [Nm]	7
Fa [N]	450

▶ INCLUDED IN DELIVERY



Centering Disc

DST40600

▶ RECOMMENDED ACCESSORIES



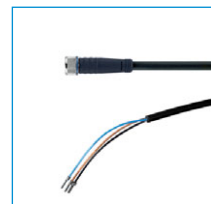
Magnetic field sensor
Angled Cable 0,3 m -
Connector M8
MFS103SKHC



Magnetic field sensor
Straight Cable 0,3 m -
Connector M8
MFS204SKHC



2-Position-Sensor Cable
0,3 m - Connector M8
MFSP2SKHC-02



Plug-in connector Straight
Cable 5m - Socket M8
(female)
KAG500



Straight Fittings - Quick
Connect Style
GVM5



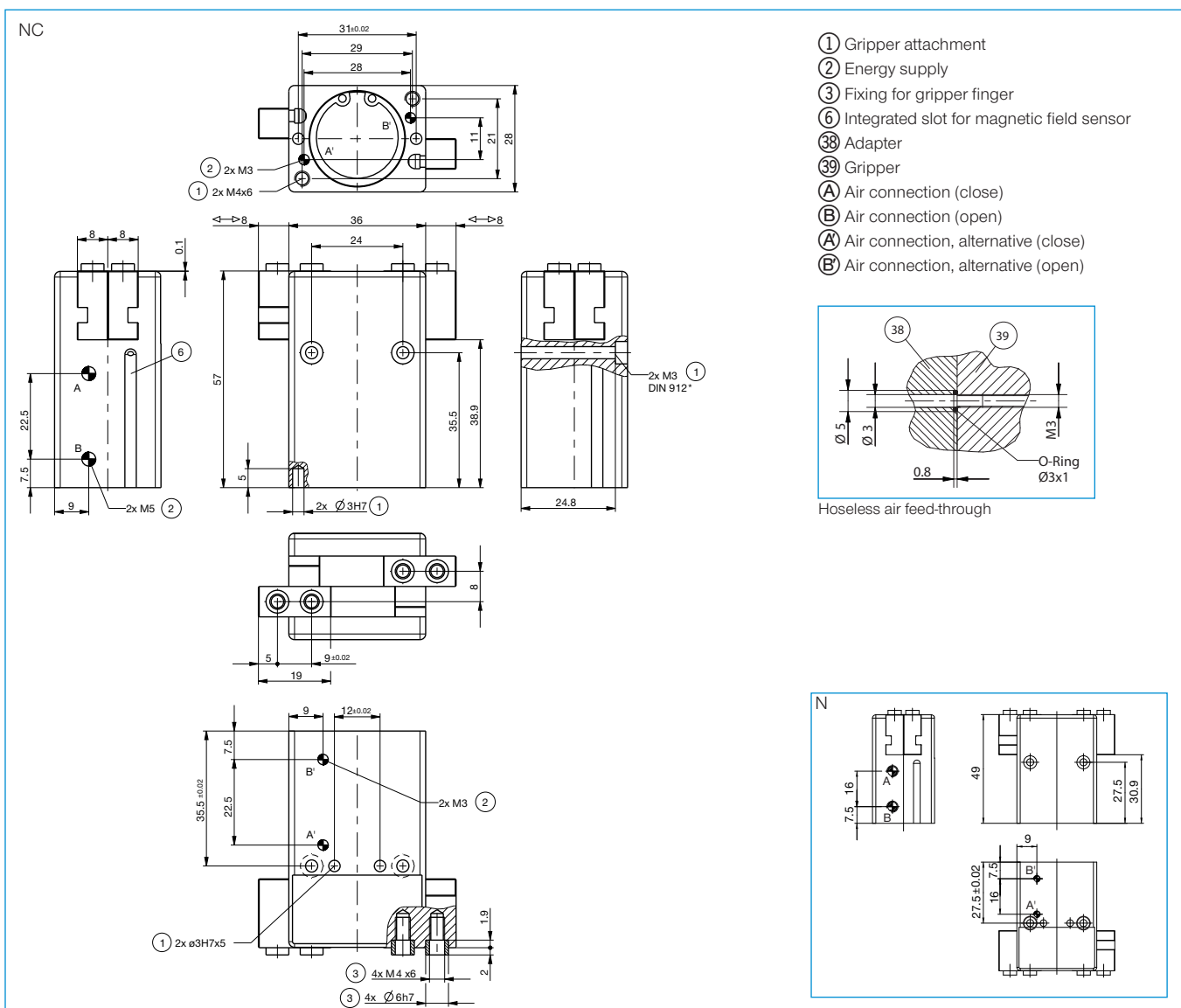
Angled Fittings - Quick
Connect Style
WVM5



Quick Exhaust Valve
DEV04

Order no.	► Technical Data*	
	MGP808N	MGP808NC
Stroke per jaw [mm]	8	8
Gripping force in closing [N]	170	220
Gripping force in opening [N]	190	
Gripping force secured by spring min. [N]		50
Closing time [s]	0.04	0.04
Opening time [s]	0.04	0.06
Repetition accuracy +/- [mm]	0.02	0.02
Operating pressure min. [bar]	3	4
Operating pressure max. [bar]	8	8
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm ³]	8.4	11.3
Weight [kg]	0.16	0.18

*All data measured at 6 bar



2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE MGP810

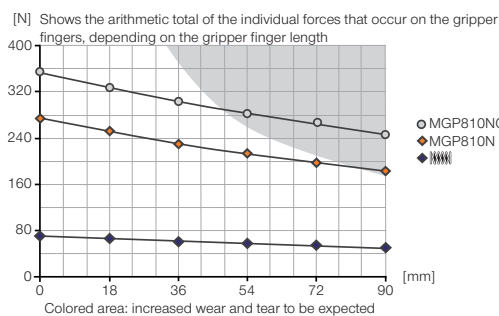
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Installation size MGP810 / 2-Jaw Parallel Grippers / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS

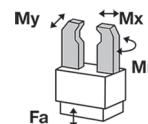


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	9
Mx [Nm]	32
My [Nm]	12
Fa [N]	590

▶ INCLUDED IN DELIVERY



Centering Disc

DST07540

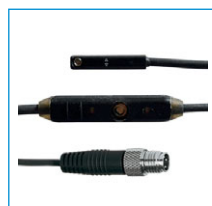
▶ RECOMMENDED ACCESSORIES



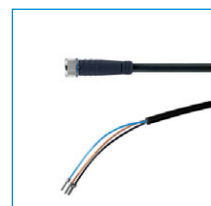
Magnetic field sensor
Angled Cable 0,3 m -
Connector M8
MFS103SKHC



Magnetic field sensor
Straight Cable 0,3 m -
Connector M8
MFS204SKHC



2-Position-Sensor Cable
0,3 m - Connector M8
MFSP2SKHC-02



Plug-in connector Straight
Cable 5m - Socket M8
(female)
KAG500



Straight Fittings - Quick
Connect Style
GVM5



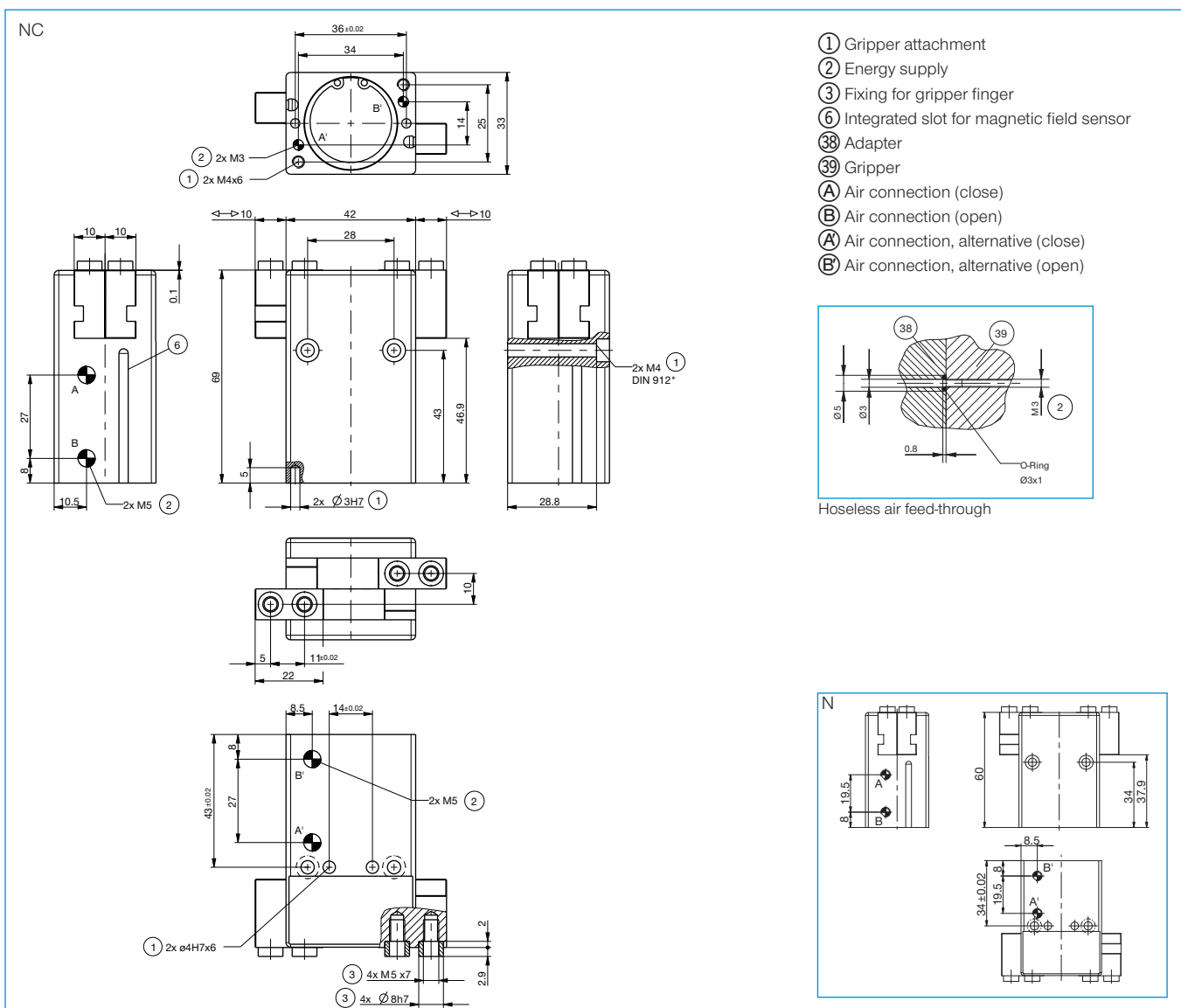
Angled Fittings - Quick
Connect Style
WVM5



Quick Exhaust Valve
DEV04

Order no.	► Technical Data*	
	MGP810N	MGP810NC
Stroke per jaw [mm]	10	10
Gripping force in closing [N]	270	350
Gripping force in opening [N]	310	
Gripping force secured by spring min. [N]		80
Closing time [s]	0.04	0.04
Opening time [s]	0.04	0.06
Repetition accuracy +/- [mm]	0.02	0.02
Operating pressure min. [bar]	3	4
Operating pressure max. [bar]	8	8
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm ³]	15.2	20.5
Weight [kg]	0.28	0.32

*All data measured at 6 bar



2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE MGP812

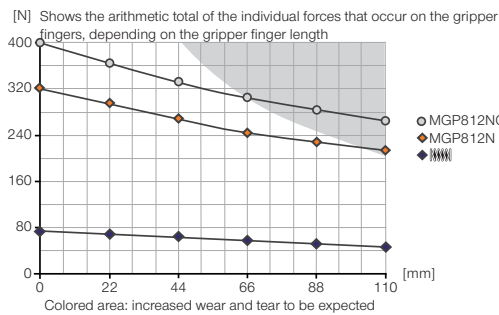
1

Installation size MGP812 / 2-Jaw Parallel Grippers / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS

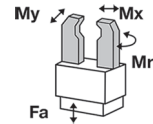


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	11
Mx [Nm]	42
My [Nm]	16
Fa [N]	790

▶ INCLUDED IN DELIVERY



Centering Disc

DST07540

▶ RECOMMENDED ACCESSORIES



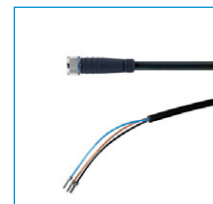
Magnetic field sensor
Angled Cable 0,3 m -
Connector M8
MFS103SKHC



Magnetic field sensor
Straight Cable 0,3 m -
Connector M8
MFS204SKHC



2-Position-Sensor Cable
0,3 m - Connector M8
MFSP2SKHC-02



Plug-in connector Straight
Cable 5m - Socket M8
(female)
KAG500



Straight Fittings - Quick
Connect Style
GVM5



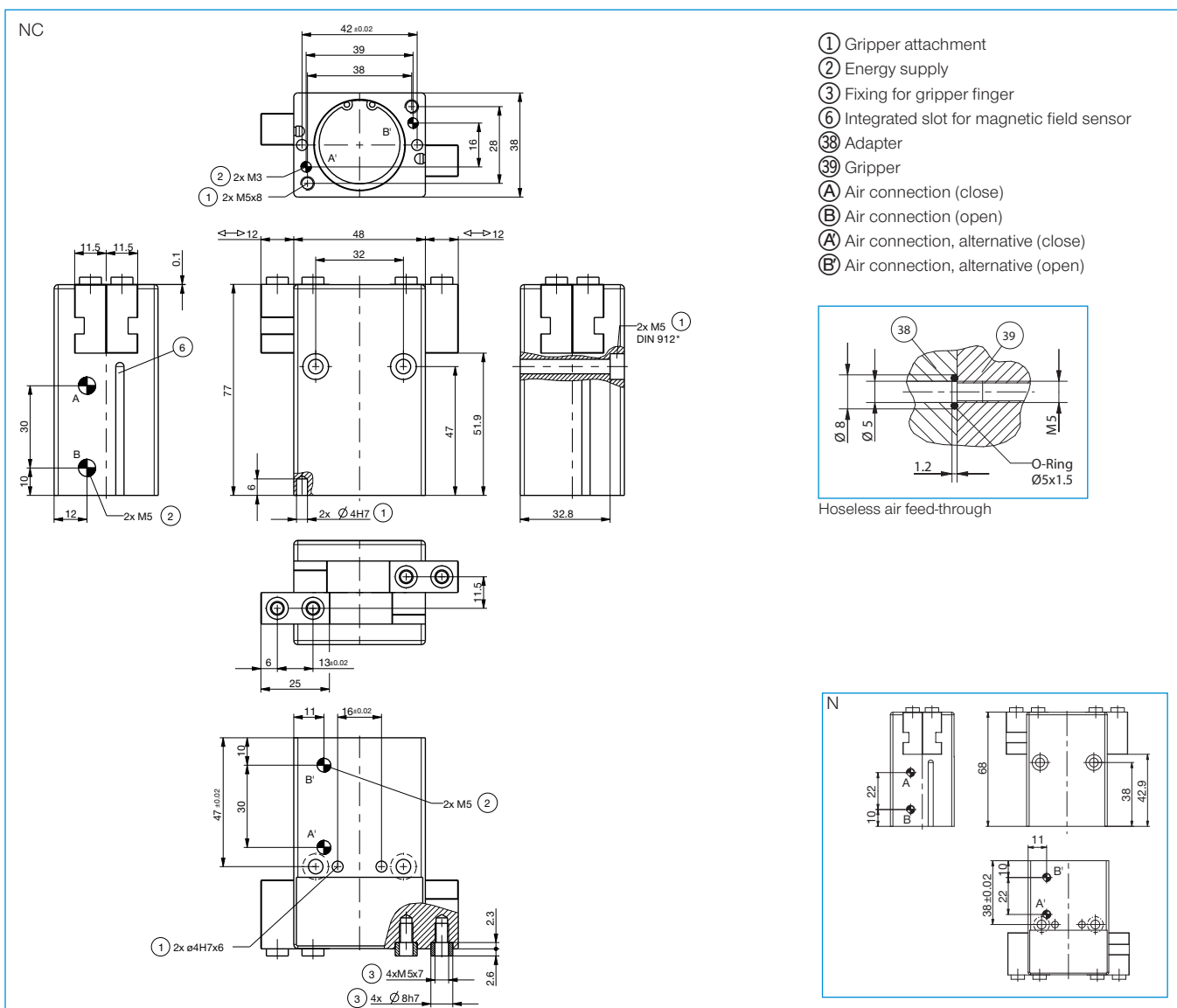
Angled Fittings - Quick
Connect Style
WVM5



Quick Exhaust Valve
DEV04

Order no.	► Technical Data*	
	MGP812N	MGP812NC
Stroke per jaw [mm]	12	12
Gripping force in closing [N]	320	400
Gripping force in opening [N]	350	
Gripping force secured by spring min. [N]		80
Closing time [s]	0.06	0.06
Opening time [s]	0.06	0.08
Repetition accuracy +/- [mm]	0.02	0.02
Operating pressure min. [bar]	3	4
Operating pressure max. [bar]	8	8
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm ³]	22.3	28.1
Weight [kg]	0.41	0.46

*All data measured at 6 bar



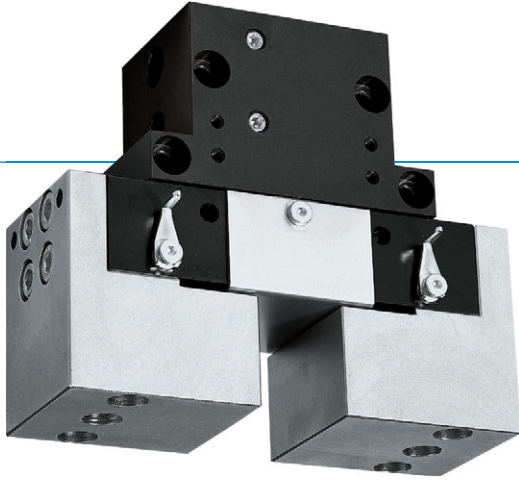
2-JAW PARALLEL GRIPPERS

SERIES GP

1

Series GP / 2-Jaw Parallel Grippers / pneumatic / Grippers

▶ PRODUCT ADVANTAGES



“The enduring”

▶ Proven technology

We have more than 20 years of proven reliability, which ensures uninterrupted production for you

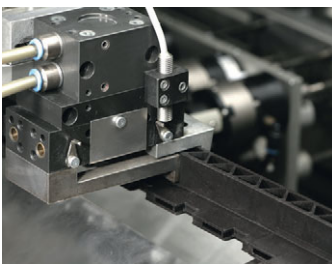
▶ Very short cycle times

Low-friction circular guides enable very short cycle times and, therefore, high component output for your machine

▶ Failure-free continuous operation

Our uncompromising “Made in Germany” quality guarantees up to 10 million maintenance-free gripping cycles

▶ THE BEST PRODUCT FOR YOUR APPLICATION



▶ Our products love the challenge!

Extreme conditions, all over the world—our tried and tested components and systems give you limitless possibilities:

Find the best product for your specific use:

www.zimmer-group.com

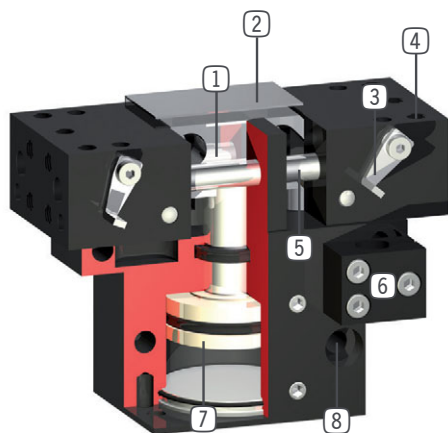
HOW TO ORDER CORRECTLY

- ▶ The product order numbers are arranged according to this diagram:

Order no.	GP45	<input type="checkbox"/>	-B	
For external gripping, self-locking, spring closing		S		
Without intergrated spring				-99



► BENEFITS IN DETAIL



- ① **Wedge hook mechanism**
 - synchronized the movement of the gripper jaws
 - high force transfer
- ② **Cover plate**
 - to protect the guide and mechanics (from GP45)
- ③ **Adjustable switch cam**
 - for position sensing
- ④ **Gripper jaw**
 - individual gripper finger mounting
- ⑤ **Roller slide**
 - for low wear movement sequence
- ⑥ **Mounting block**
 - mounting for inductive proximity switch
- ⑦ **Drive**
 - double-acting pneumatic cylinder
- ⑧ **Mounting and positioning**
 - mounting possible from several sides for versatile positioning

► SERIES CHARACTERISTICS



Number of installation sizes	6
Stroke per jaw	3 mm - 13 mm
Gripping force	4 N - 5250 N
Weight	0,033 kg - 1,4 kg
AP class	2



10 million maintenance-free cycles (max.)



Spring closing C



Inductive sensor

IP 30

IP30

2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GP12

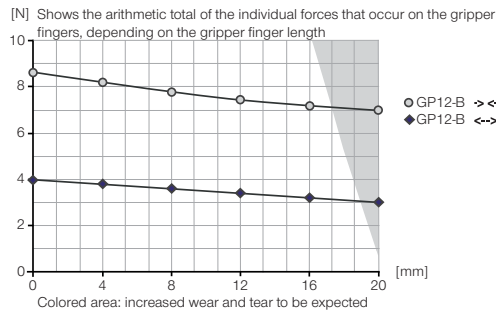
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Installation size GP12 / 2-Jaw Parallel Grippers / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS

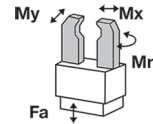


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



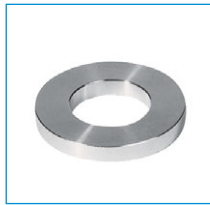
Mr [Nm]	0.15
Mx [Nm]	0.15
My [Nm]	0.15
Fa [N]	15

▶ RECOMMENDED ACCESSORIES



Universal Jaw Aluminium

UB12



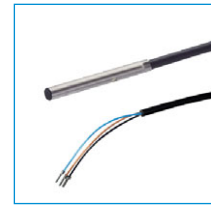
Centering Disc

ZE10H7X6



Mounting block

KB3M



Inductive proximity switch
- Cable 5 m

NJ3-E2



Inductive Proximity
Switch Cable 0,3 m -
Connector M8
NJ3-E2SK



Plug-in connector Straight Ca-
ble 5m - Socket M8 (female)

KAG500



Straight Fittings - Barb
Style Connection

GVM3



Angled Fittings - Barb
Style Connection

WVM3

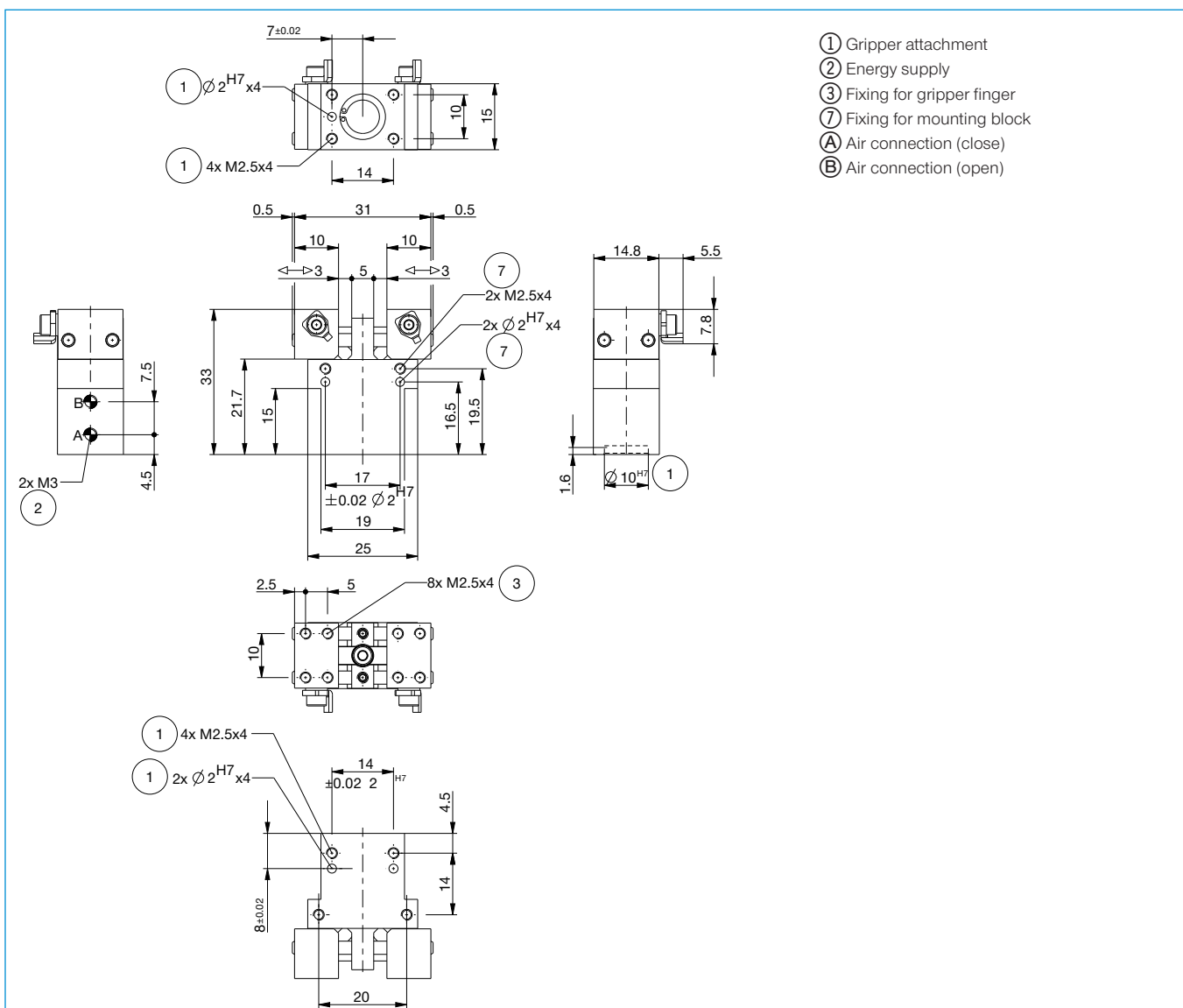


Quick Exhaust Valve

DEV04

Order no.	GP12-B
Stroke per jaw [mm]	3
Gripping force in closing [N]	8.4
Gripping force in opening [N]	4
Gripping force secured by spring min. [N]	
Closing time [s]	0.02
Opening time [s]	0.02
Repetition accuracy +/- [mm]	0.05
Operating pressure min. [bar]	3
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm ³]	0.4
Weight [kg]	0.033

*All data measured at 6 bar



2-JAW PARALLEL GRIPPERS

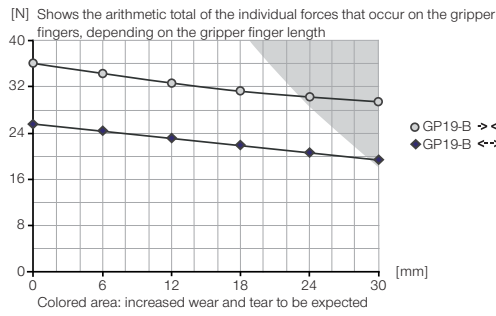
INSTALLATION SIZE GP19

1

▶ PRODUCT SPECIFICATIONS

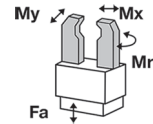


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



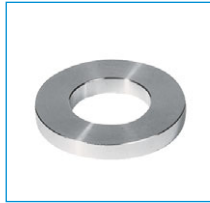
Mr [Nm]	0.8
Mx [Nm]	0.8
My [Nm]	0.8
Fa [N]	40

▶ RECOMMENDED ACCESSORIES



Universal Jaw Aluminium

UB19



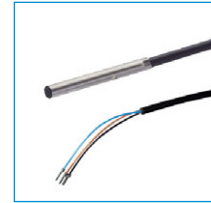
Centering Disc

ZE12H7X4



Mounting block

KB3



Inductive proximity switch
- Cable 5 m

NJ3-E2



Inductive Proximity
Switch Cable 0,3 m -
Connector M8
NJ3-E2SK



Plug-in connector Straight Ca-
ble 5m - Socket M8 (female)

KAG500



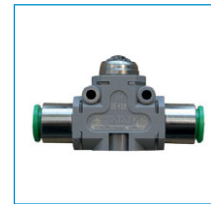
Straight Fittings - Quick
Connect Style

GVM5



Angled Fittings - Quick
Connect Style

WVM5

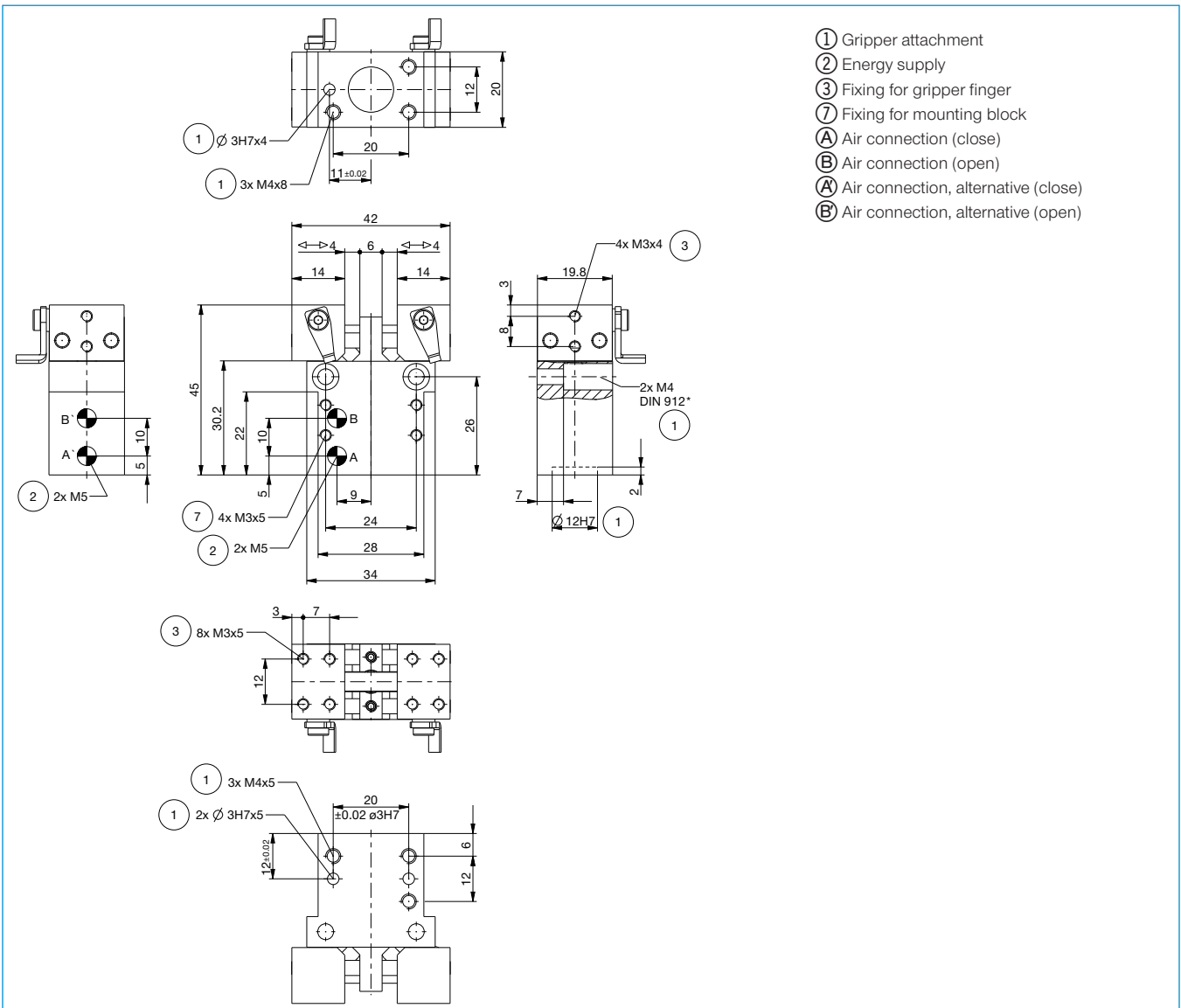


Quick Exhaust Valve

DEV04

Order no.	▶ Technical Data*
Stroke per jaw [mm]	4
Gripping force in closing [N]	36
Gripping force in opening [N]	26
Gripping force secured by spring min. [N]	
Closing time [s]	0.02
Opening time [s]	0.02
Repetition accuracy +/- [mm]	0.05
Operating pressure min. [bar]	3
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm ³]	1
Weight [kg]	0.081

*All data measured at 6 bar



2-JAW PARALLEL GRIPPERS

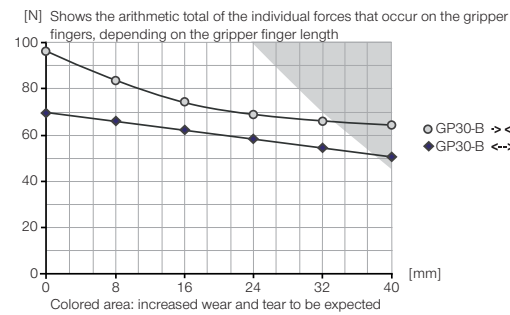
INSTALLATION SIZE GP30

1

▶ PRODUCT SPECIFICATIONS

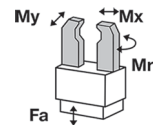


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	2
Mx [Nm]	2
My [Nm]	2
Fa [N]	80

▶ RECOMMENDED ACCESSORIES



Universal Jaw Aluminium

UB30



Centering Disc

ZE15H7X4



Mounting block

KB5



Inductive proximity switch
- Cable 5 m

NJ5-E2



Inductive Proximity
Switch Cable 0,3 m -
Connector M8
NJ5-E2SK



Plug-in connector Straight Ca-
ble 5m - Socket M8 (female)

KAG500



Straight Fittings - Quick
Connect Style

GVM5



Angled Fittings - Quick
Connect Style

WVM5

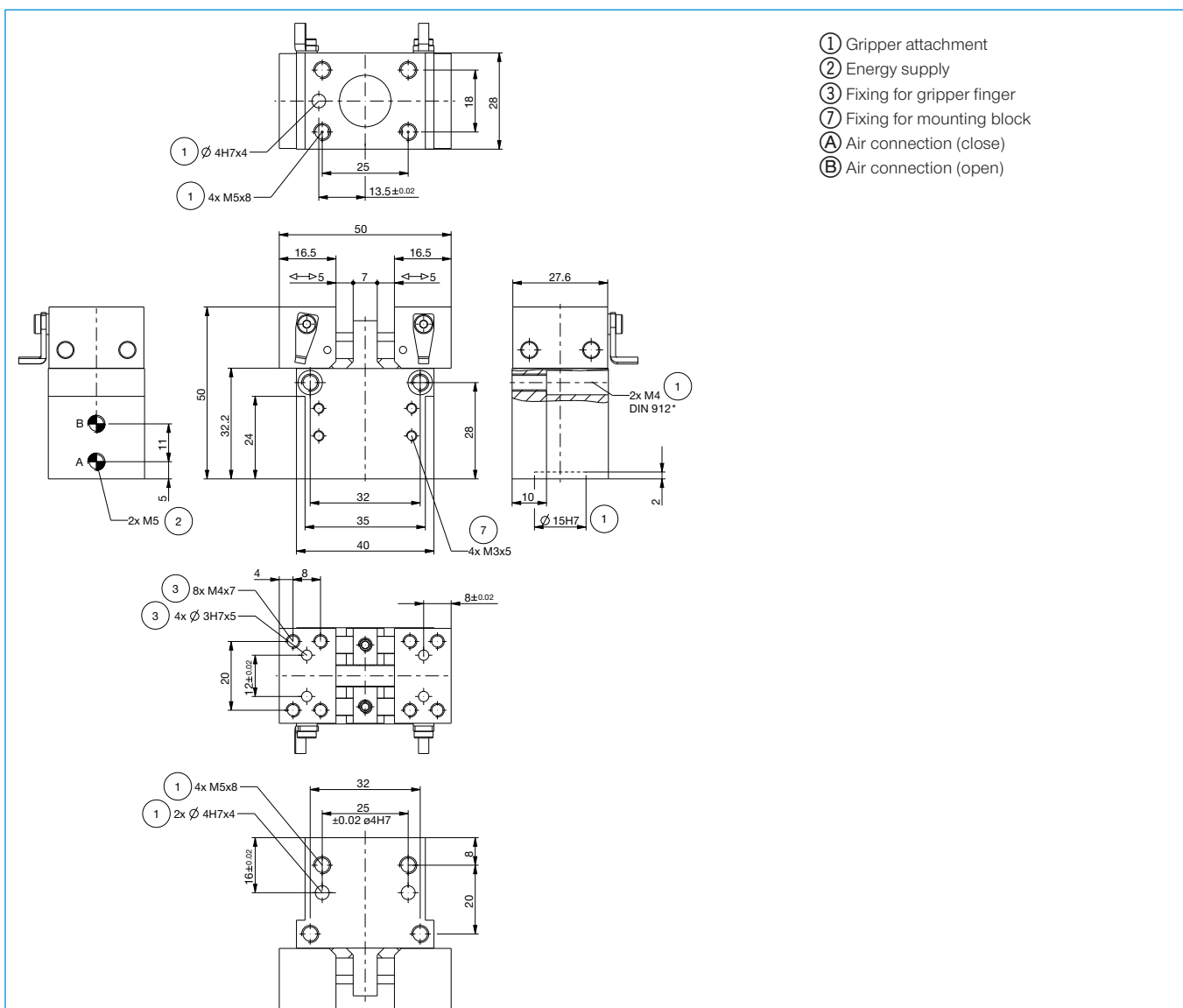


Quick Exhaust Valve

DEV04

Order no.	GP30-B
Stroke per jaw [mm]	5
Gripping force in closing [N]	94
Gripping force in opening [N]	76
Gripping force secured by spring min. [N]	
Closing time [s]	0.02
Opening time [s]	0.02
Repetition accuracy +/- [mm]	0.05
Operating pressure min. [bar]	3
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm ³]	3
Weight [kg]	0.15

*All data measured at 6 bar



2-JAW PARALLEL GRIPPERS

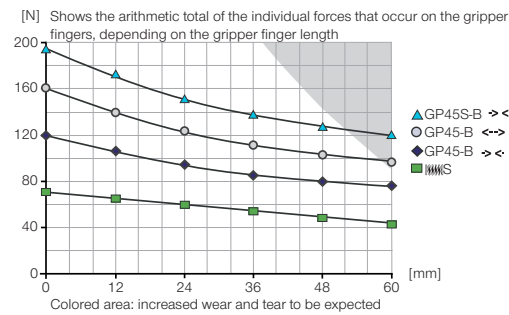
INSTALLATION SIZE GP45

1

▶ PRODUCT SPECIFICATIONS

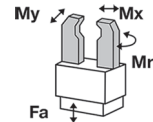


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	4
Mx [Nm]	4
My [Nm]	4
Fa [N]	160

▶ RECOMMENDED ACCESSORIES



Universal Jaw Aluminium

UB45



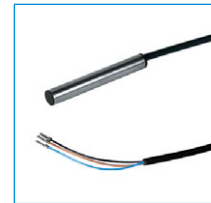
Centering Disc

ZE20H7X4



Mounting block

KB6.5



Inductive proximity switch
- Cable 5 m

NJ6.5-E2-01



Inductive proximity switch
- Connector M8

NJ6.5-E2S



Plug-in connector Straight Cable 5m - Socket M8 (female)

KAG500



Straight Fittings - Quick Connect Style

GVM5



Angled Fittings - Quick Connect Style

WVM5

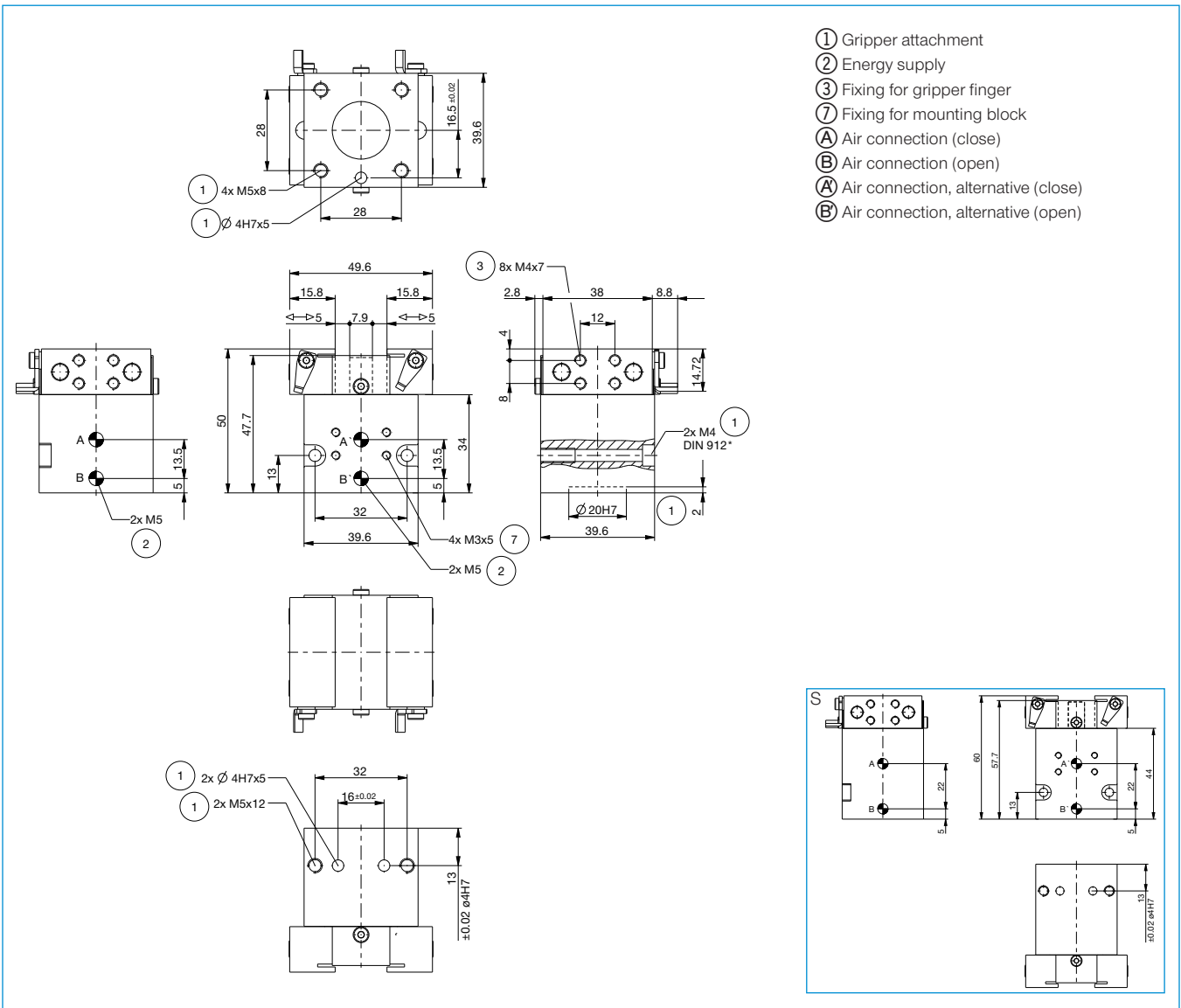


Quick Exhaust Valve

DEV04

Order no.	▶ Technical Data*	
	GP45-B	GP45S-B
Stroke per jaw [mm]	5	5
Gripping force in closing [N]	118	190
Gripping force in opening [N]	155	
Gripping force secured by spring min. [N]		75
Closing time [s]	0.03	0.04
Opening time [s]	0.03	0.04
Repetition accuracy +/- [mm]	0.05	0.05
Operating pressure min. [bar]	3	5
Operating pressure max. [bar]	8	8
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm ³]	4	8
Weight [kg]	0.255	0.3

*All data measured at 6 bar



2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GP75

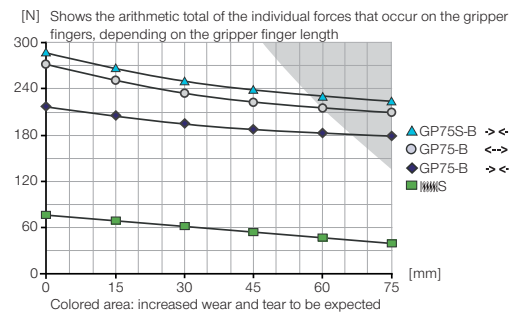
1

Installation size GP75 / 2-Jaw Parallel Grippers / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS

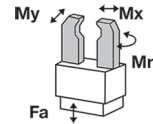


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	5
Mx [Nm]	5
My [Nm]	5
Fa [N]	180

▶ INCLUDED IN DELIVERY



Mounting block

KB8K

▶ RECOMMENDED ACCESSORIES



Universal Jaw Aluminium

UB75



Centering Disc

ZE20H7X4



Inductive proximity switch
- Cable 5m

NJ8-E2



Inductive proximity switch
- Connector M8

NJ8-E2S



Plug-in connector
Straight Cable 5m - Socket
M8 (female)
KAG500



Straight Fittings - Quick
Connect Style

GV1-8X6



Angled Fittings - Quick
Connect Style

WV1-8X6

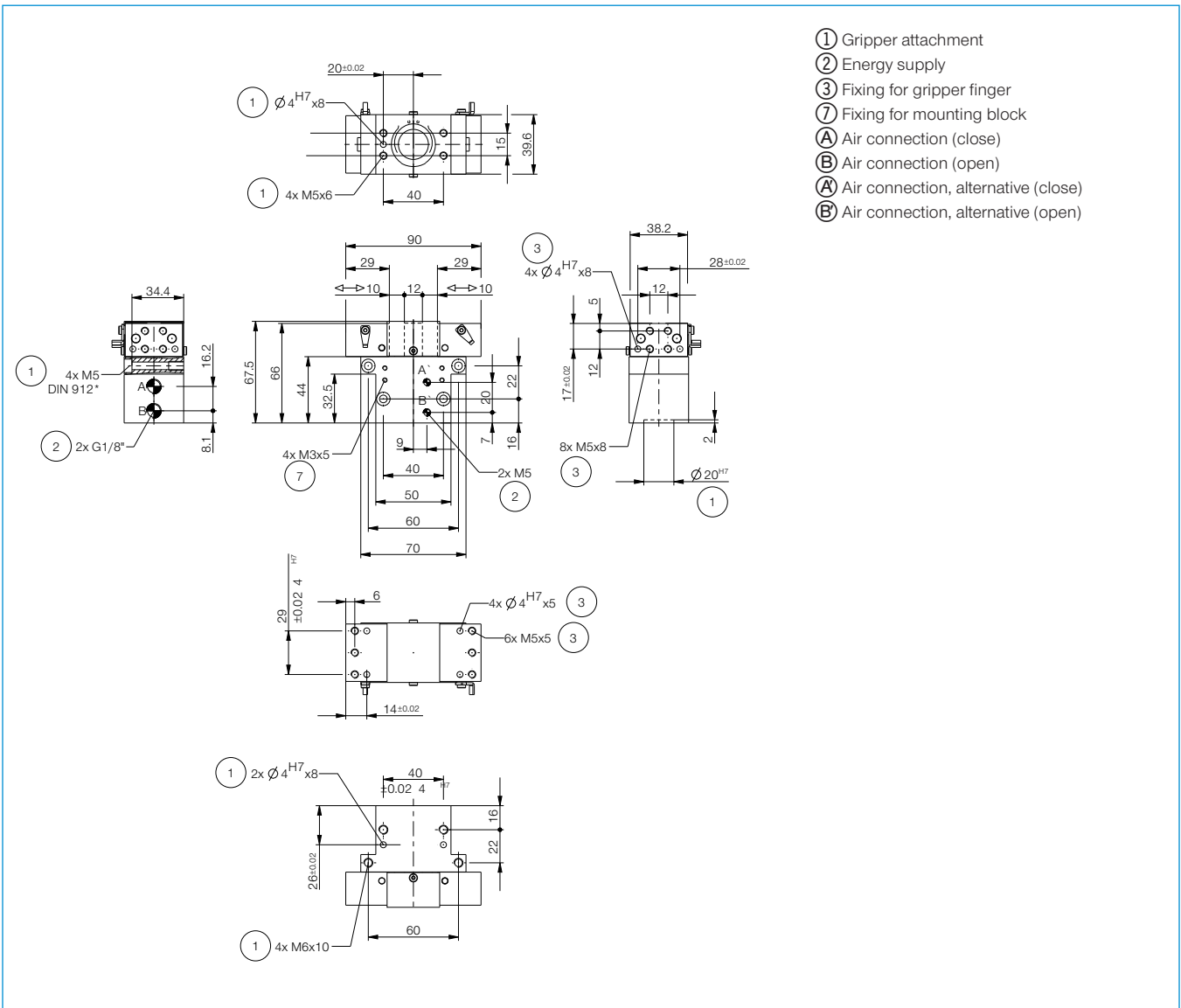


Quick Exhaust Valve

DEV06

Order no.	▶ Technical Data*	
	GP75-B	GP75S-B
Stroke per jaw [mm]	10	10
Gripping force in closing [N]	220	275
Gripping force in opening [N]	260	
Gripping force secured by spring min. [N]		63
Closing time [s]	0.03	0.04
Opening time [s]	0.03	0.04
Repetition accuracy +/- [mm]	0.05	0.05
Operating pressure min. [bar]	3	5
Operating pressure max. [bar]	8	8
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm ³]	13	19
Weight [kg]	0.45	0.5

*All data measured at 6 bar



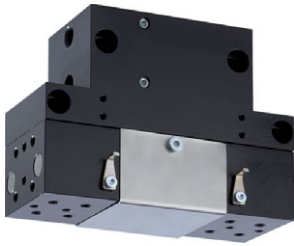
2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GP100

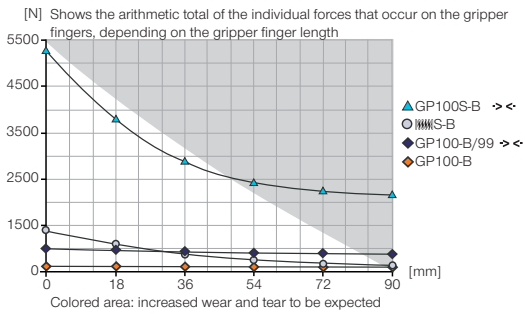
1

Installation size GP100 / 2-Jaw Parallel Grippers / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS

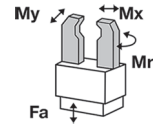


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	10
Mx [Nm]	10
My [Nm]	10
Fa [N]	400

▶ INCLUDED IN DELIVERY



Mounting block

KB8K

▶ RECOMMENDED ACCESSORIES



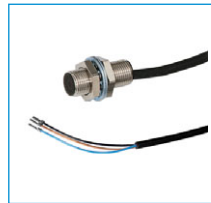
Universal Jaw Aluminium

UB100



Centering Disc

ZE30H7X4



Inductive proximity switch
- Cable 5 m

NJ8-E2



Inductive proximity switch
- Connector M8

NJ8-E2S



Plug-in connector
Straight Cable 5m - Socket
M8 (female)
KAG500



Straight Fittings - Quick
Connect Style

GV1-8X6



Angled Fittings - Quick
Connect Style

WV1-8X6

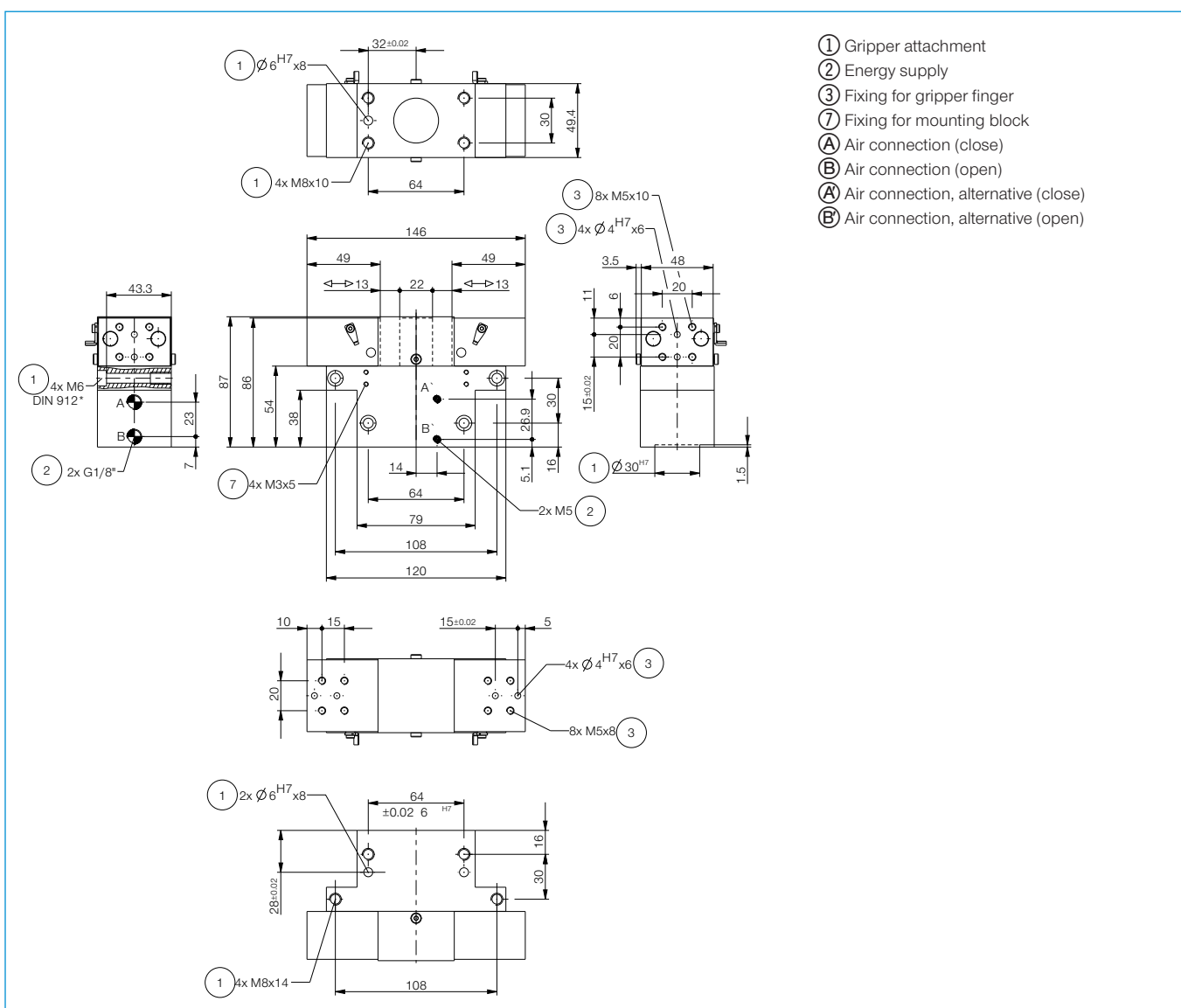


Quick Exhaust Valve

DEV06

Order no.	▶ Technical Data*		
	GP100-B	GP100-B-99	GP100S-B
Stroke per jaw [mm]	13	13	8
Gripping force in closing [N]	450	450	5250
Gripping force in opening [N]		450	
Gripping force secured by spring min. [N]	70		250
Closing time [s]	0.05	0.04	0.05
Opening time [s]	0.05	0.04	0.05
Repetition accuracy +/- [mm]	0.05	0.05	0.05
Operating pressure min. [bar]	5	4	5
Operating pressure max. [bar]	8	8	8
Operating temperature min. [°C]	5	5	5
Operating temperature max. [°C]	+80	+80	+80
Air volume per cycle [cm³]	30	30	30
Weight [kg]	1.4	1.4	1.4

*All data measured at 6 bar



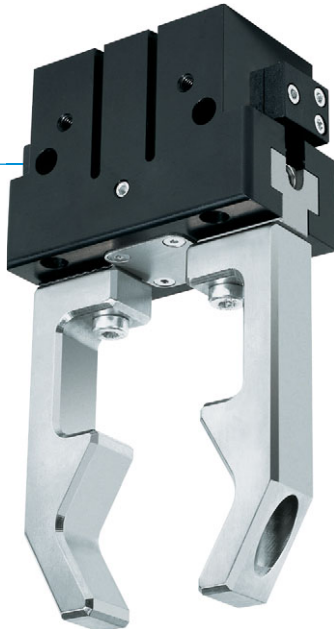
2-JAW PARALLEL GRIPPERS

SERIES GP400

1

Series GP400 / 2-Jaw Parallel Grippers / pneumatic / Grippers

▶ PRODUCT ADVANTAGES



“The economical”

▶ Concentration on the essentials

The most economic type of gripping: This is how you reduce your production costs

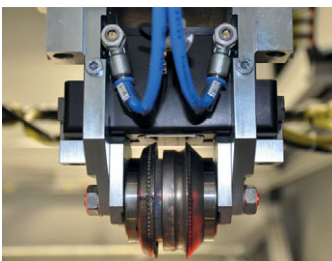
▶ Proven T slot guide

This established and proven guiding technology stands for the highest process reliability like no other

▶ Compact structure

Reduces the interference contours for your application

▶ THE BEST PRODUCT FOR YOUR APPLICATION



▶ Our products love the challenge!

Extreme conditions, all over the world—our tried and tested components and systems give you limitless possibilities:

Find the best product for your specific use:

www.zimmer-group.com

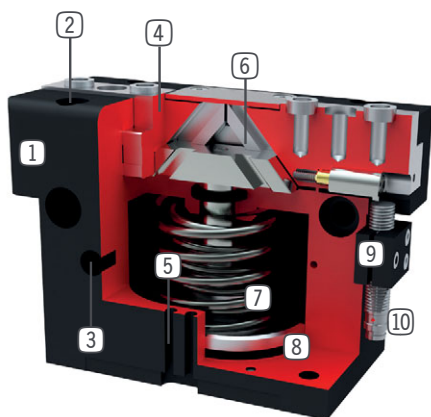
HOW TO ORDER CORRECTLY

▶ The product order numbers are arranged according to this diagram:

Order no.	GP410	<input type="checkbox"/>	<input type="checkbox"/>	-C
Long stroke		N		
High force		S		
For external gripping, self-locking, spring closing			C	
For internal gripping, self-locking, spring opening			O	



► BENEFITS IN DETAIL



- ① **Robust, lightweight housing**
- Hard-coated aluminum alloy
- ② **Mounting and positioning**
- mounting possible from several sides for versatile positioning
- ③ **Energy supply**
- possible from several sides
- ④ **Gripper jaw**
- individual gripper finger mounting
- ⑤ **Sensing slot**
- mounting and positioning of magnetic field sensors
- ⑥ **Wedge hook mechanism**
- synchronized the movement of the gripper jaws
- ⑦ **Integrated gripping force safety device**
- spring integrated into cylinder as energy storage
- ⑧ **Position sensing**
- permanent magnet for direct monitoring of piston movement
- ⑨ **Mounting block**
- mounting for inductive proximity switch (10)

► SERIES CHARACTERISTICS



Number of installation sizes	9
Stroke per jaw	3 mm - 30 mm
Gripping force	85 N - 19275 N
Weight	0,08 kg - 18,9 kg
AP class	3



10 million maintenance-free cycles (max.)



High-strength S



Magnetic field sensor



Spring closing C



Inductive sensor



Purged air



Spring opening O

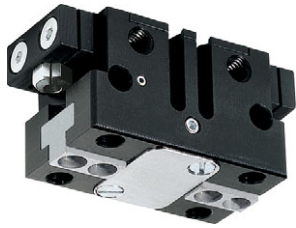


IP40

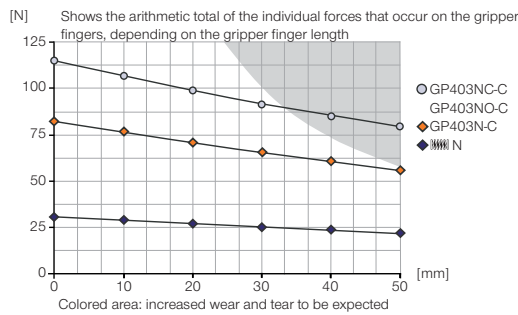
2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GP403

▶ PRODUCT SPECIFICATIONS

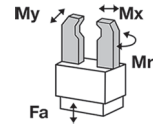


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	6
Mx [Nm]	9
My [Nm]	12
Fa [N]	500

▶ INCLUDED IN DELIVERY



Mounting block

KB3-03



Centering Disc

DST40400

▶ RECOMMENDED ACCESSORIES



Universal Jaw Aluminium

UB403



Universal Jaw Steel

UB403ST



Inductive Proximity Switch
Cable 0,3 m - Connector
M8

NJ3-E2SK



Magnetic field sensor
Angled Cable 0,3 m -
Connector M8

MFS103SKHC



2-Position-Sensor Cable
0,3 m - Connector M8

MFSP2SKHC-02



Plug-in connector Straight
Cable 5m - Socket M8 (female)

KAG500



Straight Fittings - Quick
Connect Style

GVM5



Angled Fittings - Quick
Connect Style

WVM5



Quick Exhaust Valve

DEV04



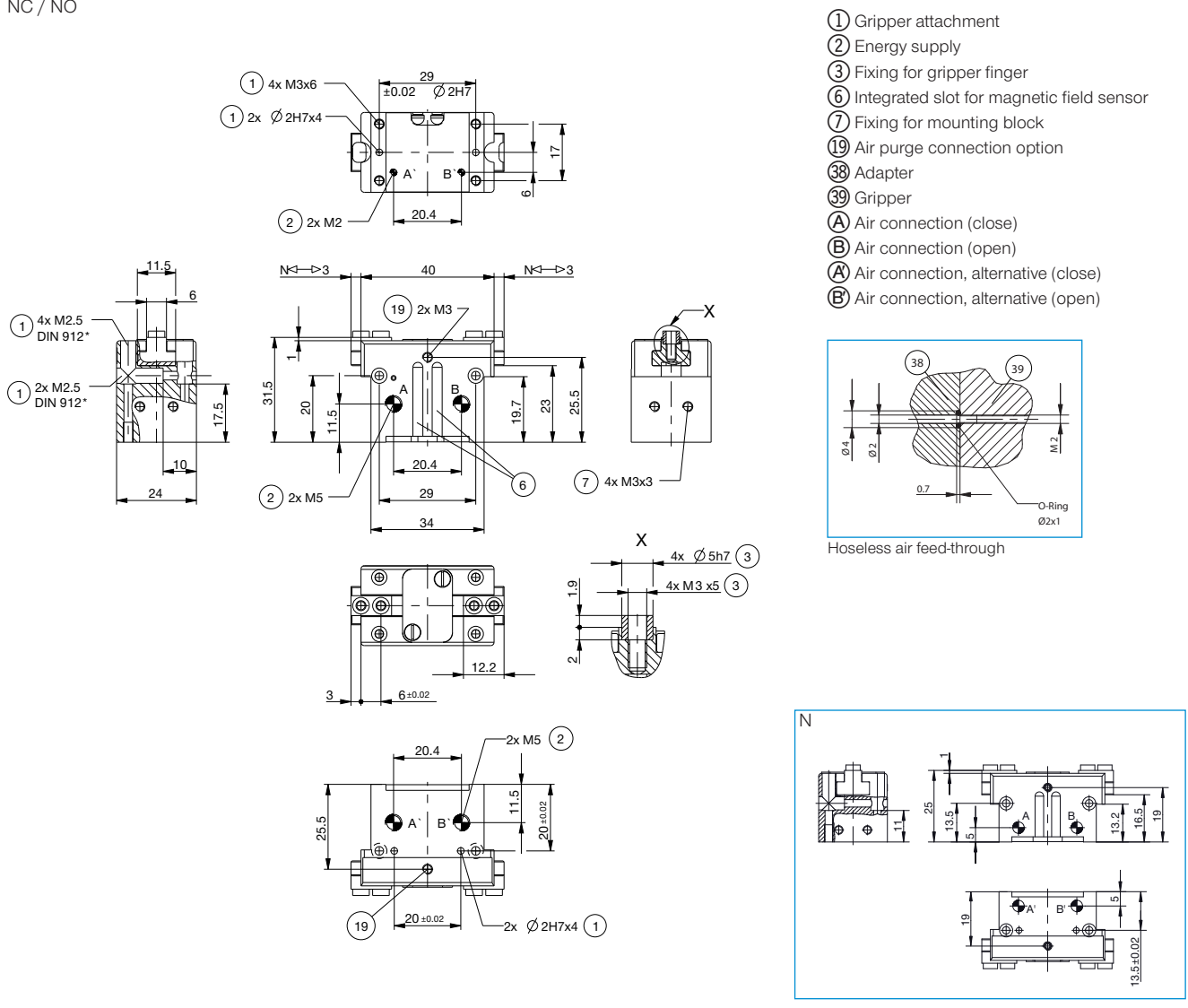
Pressure Safety Valve

DSV1-8

Order no.	▶ Technical Data*		
	GP403N-C	GP403NC-C	GP403NO-C
Stroke per jaw [mm]	3	3	3
Gripping force in closing [N]	85	115	
Gripping force in opening [N]	100		115
Gripping force secured by spring min. [N]		32	32
Closing time [s]	0.015	0.01	0.02
Opening time [s]	0.015	0.02	0.01
Repetition accuracy +/- [mm]	0.01	0.01	0.01
Operating pressure min. [bar]	3	4	4
Operating pressure max. [bar]	8	8	8
Max. operating pressure for sealing air [bar]	0.5	0.5	0.5
Operating temperature min. [°C]	5	5	5
Operating temperature max. [°C]	+80	+80	+80
Air volume per cycle [cm³]	1.8	3.3	3.3
Weight [kg]	0.08	0.1	0.1

*All data measured at 6 bar

NC / NO



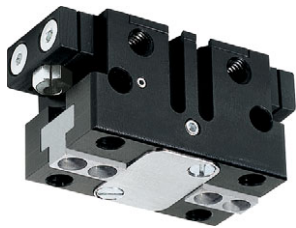
2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GP404

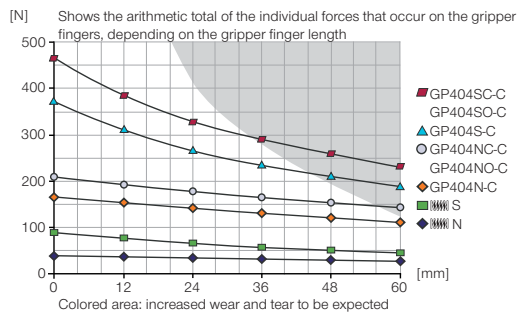
1

Installation size GP404 / 2-Jaw Parallel Grippers / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS

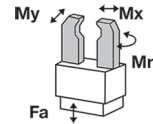


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	8
Mx [Nm]	15
My [Nm]	15
Fa [N]	700

▶ INCLUDED IN DELIVERY



Mounting block

KB3-08



Centering Disc

DST40400

▶ RECOMMENDED ACCESSORIES



Universal Jaw Aluminium

UB404



Universal Jaw Steel

UB404ST



Inductive Proximity Switch
Cable 0,3 m - Connector
M8
NJ3-E2SK



Magnetic field sensor
Angled Cable 0,3 m -
Connector M8
MFS103SKHC



2-Position-Sensor Cable
0,3 m - Connector M8

MFSP2SKHC-02



Plug-in connector Straight Ca-
ble 5m - Socket M8 (female)

KAG500



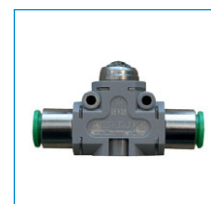
Straight Fittings - Quick
Connect Style

GVM5



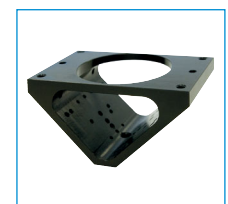
Angled Fittings - Quick
Connect Style

WVM5



Quick Exhaust Valve

DEV04



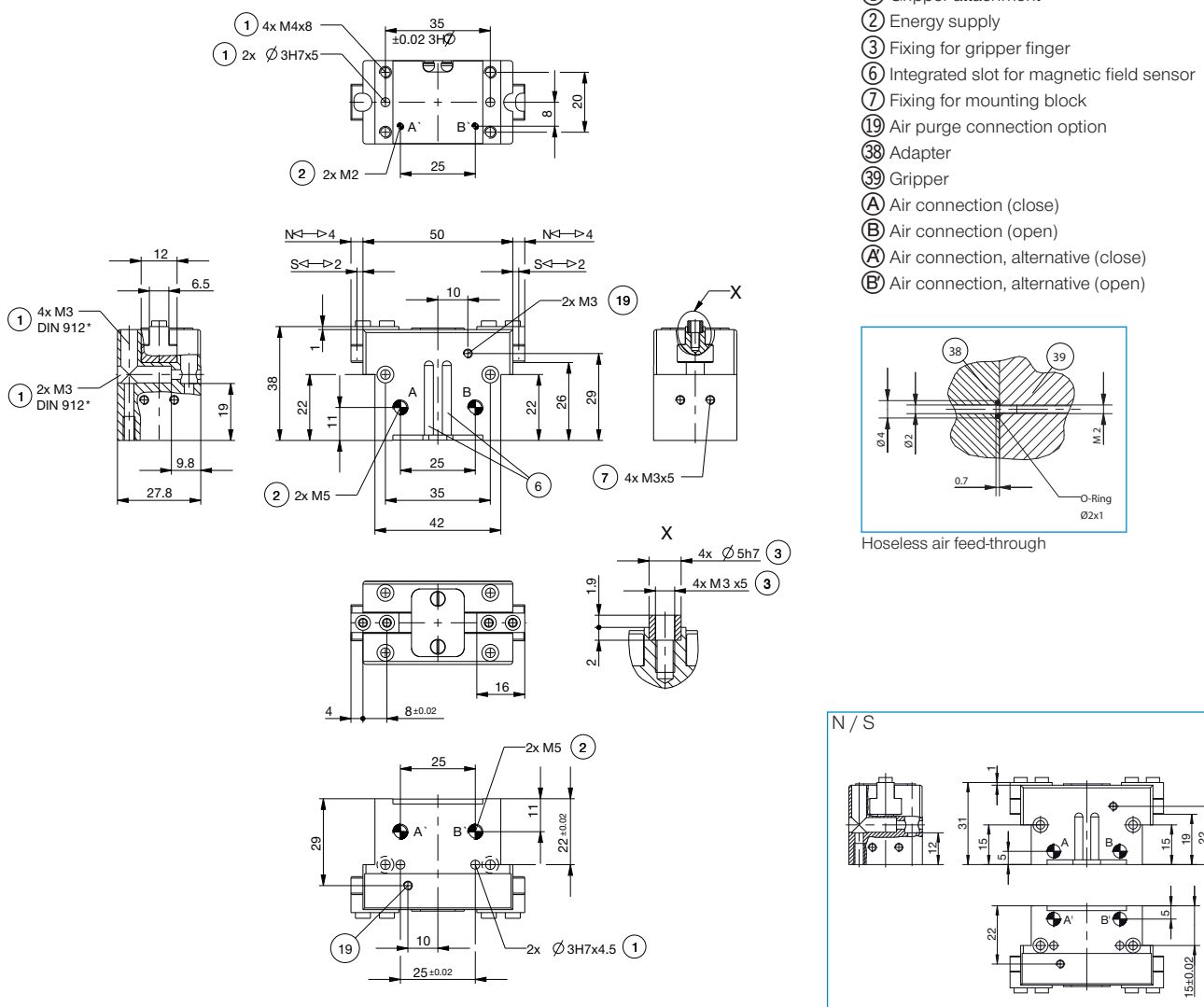
Angle flange

WFR01

Order no.	▶ Technical Data*					
	GP404N-C	GP404NC-C	GP404NO-C	GP404S-C	GP404SC-C	GP404SO-C
Stroke per jaw [mm]	4	4	4	2	2	2
Gripping force in closing [N]	170	210		375	465	
Gripping force in opening [N]	185		225	410		500
Gripping force secured by spring min. [N]		40	40		90	90
Closing time [s]	0.02	0.015	0.025	0.02	0.015	0.025
Opening time [s]	0.02	0.025	0.015	0.02	0.025	0.015
Repetition accuracy +/- [mm]	0.01	0.01	0.01	0.01	0.01	0.01
Operating pressure min. [bar]	3	4	4	3	4	4
Operating pressure max. [bar]	8	8	8	8	8	8
Max. operating pressure for sealing air [bar]	0.5	0.5	0.5	0.5	0.5	0.5
Operating temperature min. [°C]	5	5	5	5	5	5
Operating temperature max. [°C]	+80	+80	+80	+80	+80	+80
Air volume per cycle [cm ³]	4.1	6.9	6.9	4.1	6.9	6.9
Weight [kg]	0.14	0.16	0.16	0.14	0.16	0.16

*All data measured at 6 bar

NC / NO / SC / SO

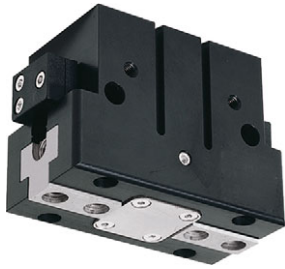


2-JAW PARALLEL GRIPPERS

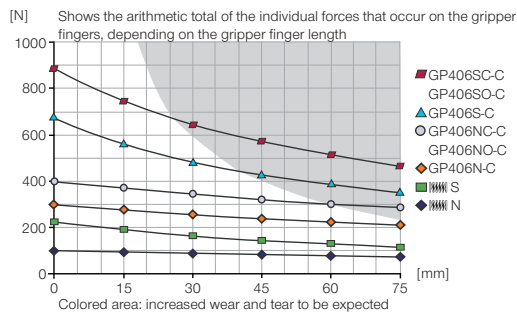
INSTALLATION SIZE GP406

1

▶ PRODUCT SPECIFICATIONS

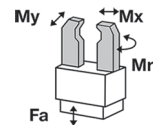


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	35
Mx [Nm]	50
My [Nm]	45
Fa [N]	1200

▶ INCLUDED IN DELIVERY



Mounting block

KB8K



Centering Disc

DST40600

▶ RECOMMENDED ACCESSORIES



Universal Jaw Aluminium

UB406



Universal Jaw Steel

UB406ST



Inductive proximity switch
- Connector M8

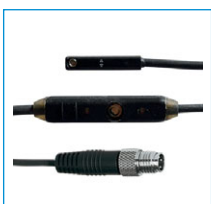
NJ8-E2S



Magnetic field sensor
Angled Cable 0,3 m -
Connector M8
MFS103SKHC



Magnetic field sensor
Straight Cable 0,3 m -
Connector M8
MFS204SKHC



2-Position-Sensor Cable
0,3 m - Connector M8

MFSP2SKHC-02



Plug-in connector Straight Ca-
ble 5m - Socket M8 (female)

KAG500



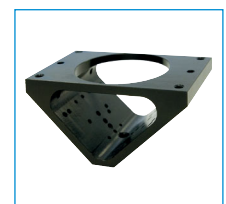
Straight Fittings - Quick
Connect Style

GVM5



Angled Fittings - Quick
Connect Style

WVM5



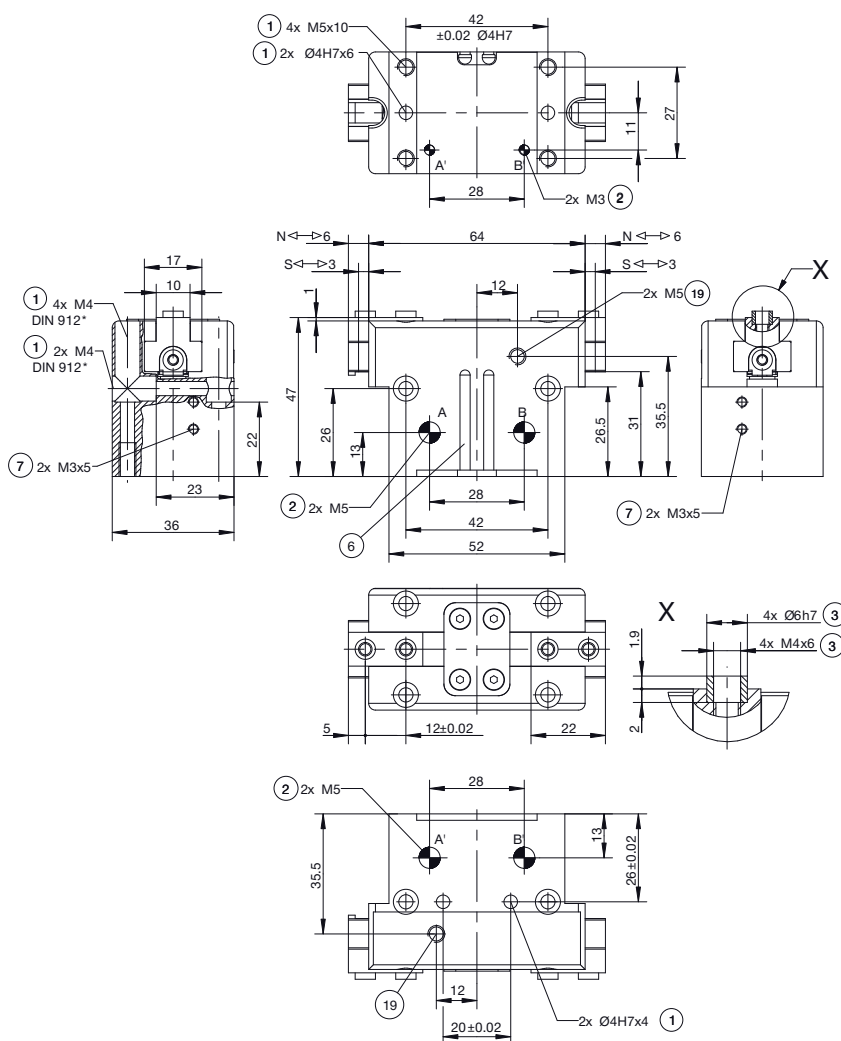
Angle flange

WFR01

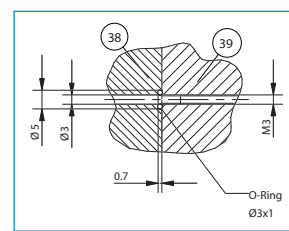
Order no.	▶ Technical Data*					
	GP406N-C	GP406NC-C	GP406NO-C	GP406S-C	GP406SC-C	GP406SO-C
Stroke per jaw [mm]	6	6	6	3	3	3
Gripping force in closing [N]	300	400		670	900	
Gripping force in opening [N]	325		425	725		950
Gripping force secured by spring min. [N]		100	100		230	230
Closing time [s]	0.03	0.025	0.04	0.03	0.025	0.04
Opening time [s]	0.03	0.04	0.025	0.03	0.04	0.025
Repetition accuracy +/- [mm]	0.01	0.01	0.01	0.01	0.01	0.01
Operating pressure min. [bar]	3	4	4	3	4	4
Operating pressure max. [bar]	8	8	8	8	8	8
Max. operating pressure for sealing air [bar]	0.5	0.5	0.5	0.5	0.5	0.5
Operating temperature min. [°C]	5	5	5	5	5	5
Operating temperature max. [°C]	+80	+80	+80	+80	+80	+80
Air volume per cycle [cm³]	10.1	15.5	15.5	10.1	15.5	15.5
Weight [kg]	0.27	0.32	0.32	0.27	0.32	0.32

*All data measured at 6 bar

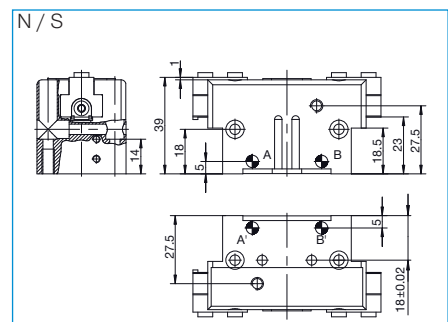
NC / NO / SC / SO



- ① Gripper attachment
- ② Energy supply
- ③ Fixing for gripper finger
- ⑥ Integrated slot for magnetic field sensor
- ⑦ Fixing for mounting block
- ⑰ Air purge connection option
- ⑳ Adapter
- ㉑ Gripper
- Ⓐ Air connection (close)
- Ⓑ Air connection (open)
- Ⓐ Air connection, alternative (close)
- Ⓑ Air connection, alternative (open)



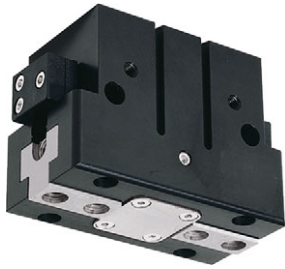
Hoseless air feed-through



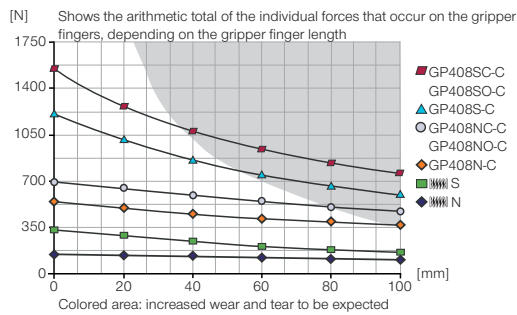
2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GP408

▶ PRODUCT SPECIFICATIONS

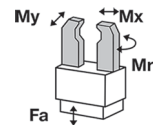


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	50
Mx [Nm]	80
My [Nm]	60
Fa [N]	1800

▶ INCLUDED IN DELIVERY



Mounting block

KB8K



Centering Disc

DST40800

▶ RECOMMENDED ACCESSORIES



Universal Jaw Aluminium

UB408



Universal Jaw Steel

UB408ST



Inductive proximity switch
- Connector M8

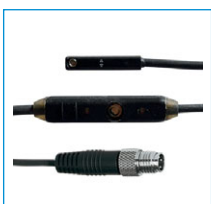
NJ8-E2S



Magnetic field sensor
Angled Cable 0,3 m -
Connector M8
MFS103SKHC



Magnetic field sensor
Straight Cable 0,3 m -
Connector M8
MFS204SKHC



2-Position-Sensor Cable
0,3 m - Connector M8

MFSP2SKHC-02



Plug-in connector Straight Ca-
ble 5m - Socket M8 (female)

KAG500



Straight Fittings - Quick
Connect Style

GVM5



Angled Fittings - Quick
Connect Style

WVM5

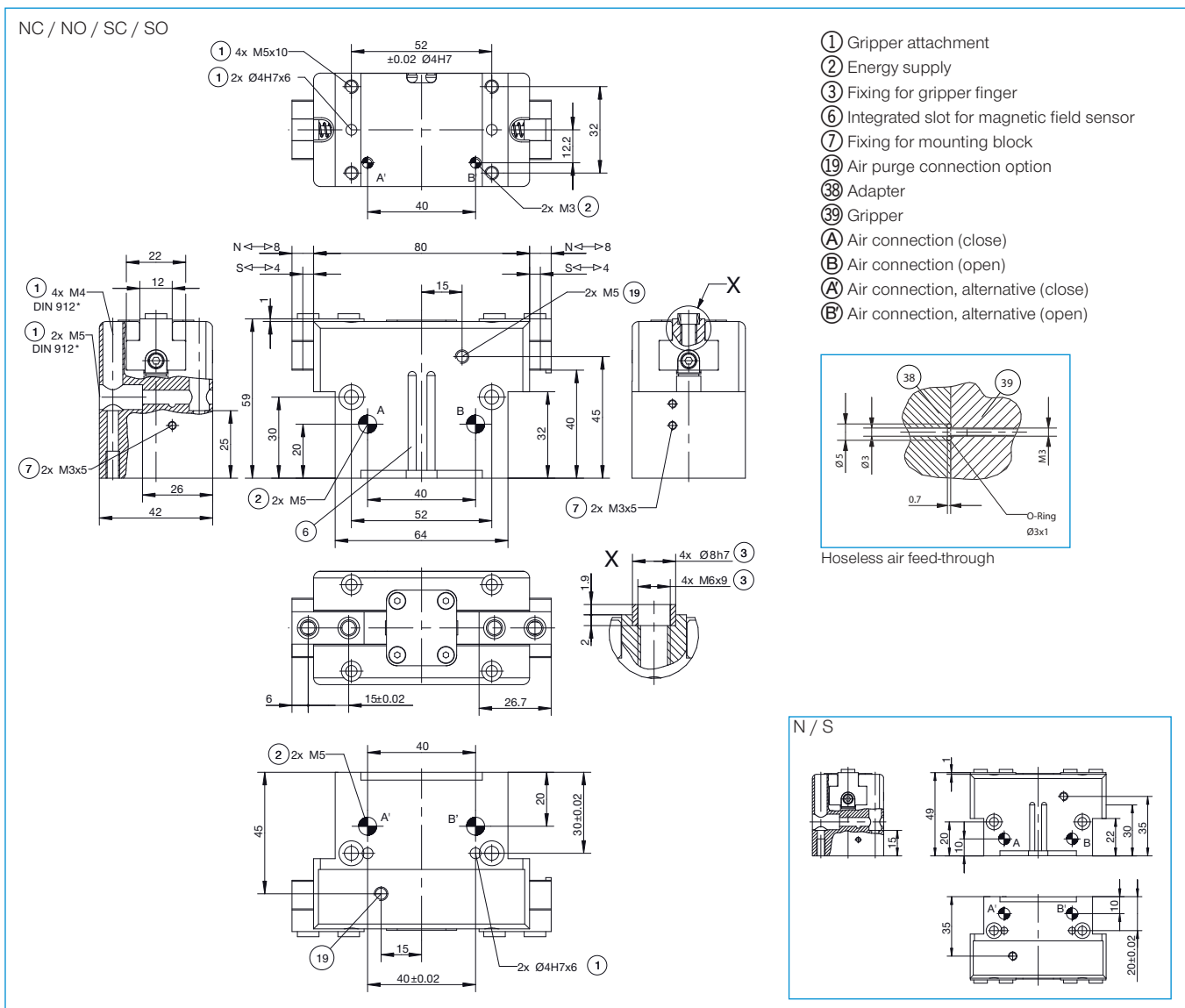


Angle flange

WFR02

Order no.	▶ Technical Data*					
	GP408N-C	GP408NC-C	GP408NO-C	GP408S-C	GP408SC-C	GP408SO-C
Stroke per jaw [mm]	8	8	8	4	4	4
Gripping force in closing [N]	550	700		1230	1570	
Gripping force in opening [N]	590		740	1320		1660
Gripping force secured by spring min. [N]		150	150		340	340
Closing time [s]	0.04	0.03	0.05	0.04	0.03	0.05
Opening time [s]	0.04	0.05	0.03	0.04	0.05	0.03
Repetition accuracy +/- [mm]	0.01	0.01	0.01	0.01	0.01	0.01
Operating pressure min. [bar]	3	4	4	3	4	4
Operating pressure max. [bar]	8	8	8	8	8	8
Max. operating pressure for sealing air [bar]	0.5	0.5	0.5	0.5	0.5	0.5
Operating temperature min. [°C]	5	5	5	5	5	5
Operating temperature max. [°C]	+80	+80	+80	+80	+80	+80
Air volume per cycle [cm³]	23.6	35.5	35.5	23.6	35.5	35.5
Weight [kg]	0.5	0.57	0.57	0.5	0.57	0.57

*All data measured at 6 bar



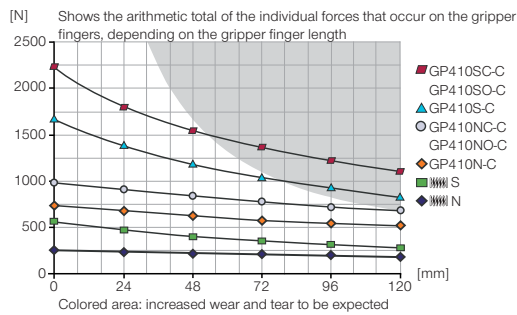
2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GP410

▶ PRODUCT SPECIFICATIONS

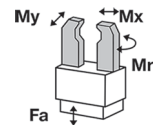


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	75
Mx [Nm]	100
My [Nm]	90
Fa [N]	2500

▶ INCLUDED IN DELIVERY



Mounting block

KB8K



Centering Disc

DST41000

▶ RECOMMENDED ACCESSORIES



Universal Jaw Aluminium

UB410



Universal Jaw Steel

UB410ST



Alternate proximity bracket

KHA410-B-8



Inductive proximity switch - Connector M8

NJ8-E2S



Magnetic field sensor Angled Cable 0,3 m - Connector M8

MFS103SKHC



Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



2-Position-Sensor Cable 0,3 m - Connector M8

MFSP2SKHC-02



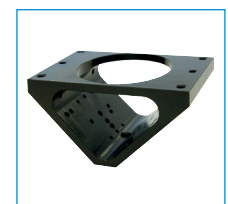
Plug-in connector Straight Cable 5m - Socket M8 (female)

KAG500



Straight Fittings - Quick Connect Style

GV1-8X6



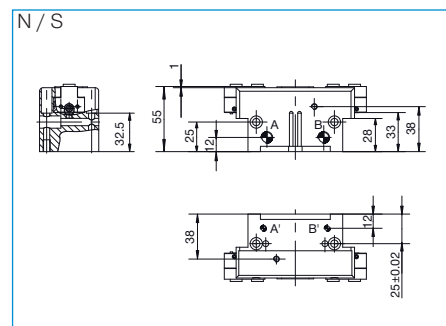
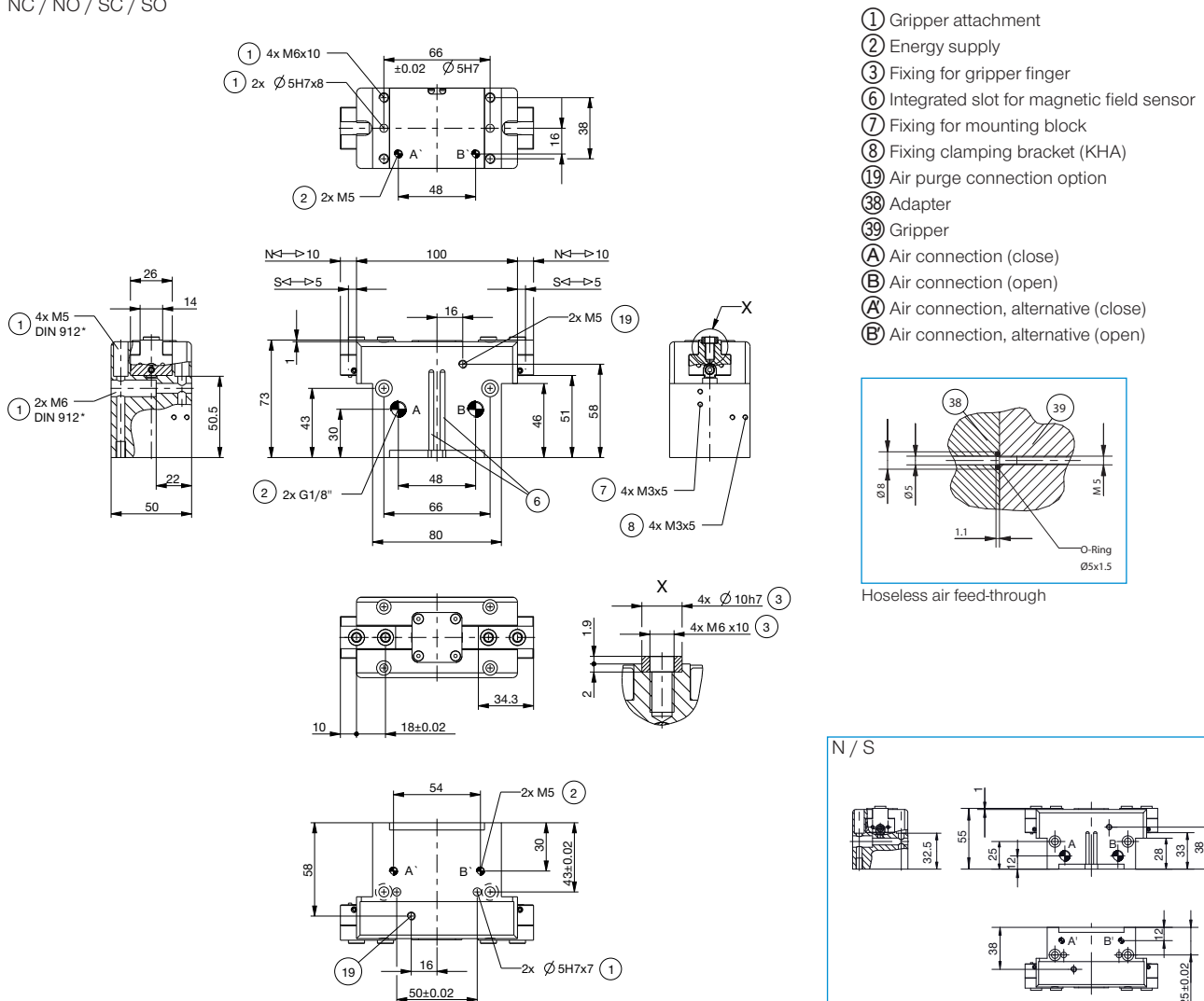
Angle flange

WFR02

Order no.	▶ Technical Data*					
	GP410N-C	GP410NC-C	GP410NO-C	GP410S-C	GP410SC-C	GP410SO-C
Stroke per jaw [mm]	10	10	10	5	5	5
Gripping force in closing [N]	740	990		1650	2215	
Gripping force in opening [N]	795		1050	1770		2340
Gripping force secured by spring min. [N]		250	250		570	570
Closing time [s]	0.07	0.06	0.09	0.07	0.06	0.09
Opening time [s]	0.07	0.09	0.06	0.07	0.09	0.06
Repetition accuracy +/- [mm]	0.01	0.01	0.01	0.01	0.01	0.01
Operating pressure min. [bar]	3	4	4	3	4	4
Operating pressure max. [bar]	8	8	8	8	8	8
Max. operating pressure for sealing air [bar]	0.5	0.5	0.5	0.5	0.5	0.5
Operating temperature min. [°C]	5	5	5	5	5	5
Operating temperature max. [°C]	+80	+80	+80	+80	+80	+80
Air volume per cycle [cm ³]	39.3	66.7	66.7	39.3	66.7	66.7
Weight [kg]	0.85	1	1	0.85	1	1

*All data measured at 6 bar

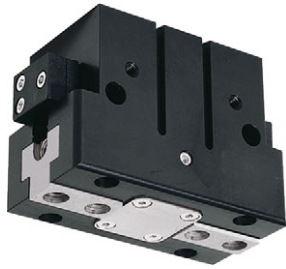
NC / NO / SC / SO



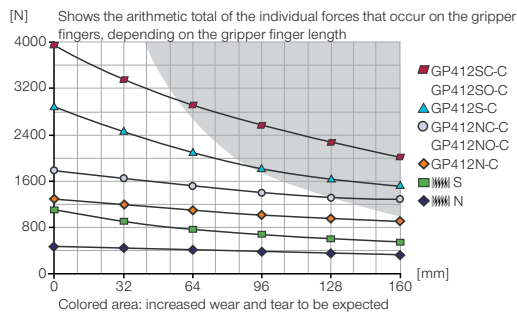
2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GP412

▶ PRODUCT SPECIFICATIONS

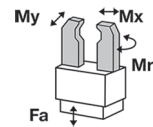


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	100
Mx [Nm]	120
My [Nm]	120
Fa [N]	3200

▶ INCLUDED IN DELIVERY



Mounting block

KB8K



Centering Disc

DST41000

▶ RECOMMENDED ACCESSORIES



Universal Jaw Aluminium

UB412



Universal Jaw Steel

UB412ST



Alternate proximity bracket

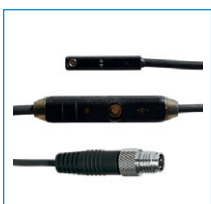
KHA412-B-8



Magnetic field sensor
Angled Cable 0,3 m -
Connector M8
MFS103SKHC



Magnetic field sensor
Straight Cable 0,3 m -
Connector M8
MFS204SKHC



2-Position-Sensor Cable
0,3 m - Connector M8
MFSP2SKHC-02



Plug-in connector Straight Cable
5m - Socket M8 (female)
KAG500



Straight Fittings - Quick
Connect Style
GV1-8X6



Angled Fittings - Quick
Connect Style
WV1-8X6

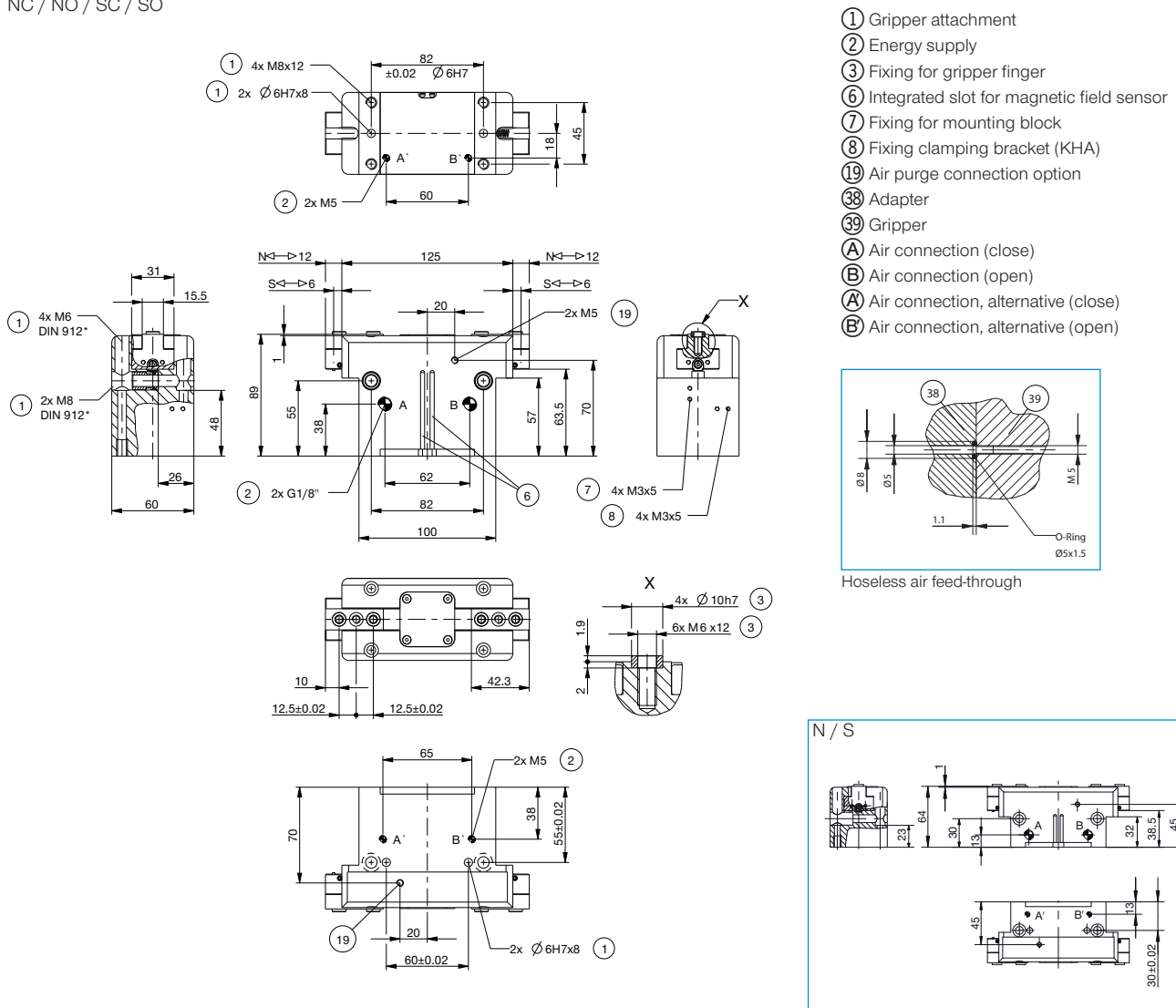


Pressure Safety Valve
DSV1-8

Order no.	▶ Technical Data*					
	GP412N-C	GP412NC-C	GP412NO-C	GP412S-C	GP412SC-C	GP412SO-C
Stroke per jaw [mm]	12	12	12	6	6	6
Gripping force in closing [N]	1290	1780		2890	3960	
Gripping force in opening [N]	1370		1850	3050		4130
Gripping force secured by spring min. [N]		490	490		1080	1080
Closing time [s]	0.1	0.08	0.12	0.1	0.08	0.12
Opening time [s]	0.1	0.12	0.08	0.1	0.12	0.08
Repetition accuracy +/- [mm]	0.01	0.01	0.01	0.01	0.01	0.01
Operating pressure min. [bar]	3	4	4	3	4	4
Operating pressure max. [bar]	8	8	8	8	8	8
Max. operating pressure for sealing air [bar]	0.5	0.5	0.5	0.5	0.5	0.5
Operating temperature min. [°C]	5	5	5	5	5	5
Operating temperature max. [°C]	+80	+80	+80	+80	+80	+80
Air volume per cycle [cm ³]	80	148	148	80	148	148
Weight [kg]	1.5	1.78	1.78	1.5	1.78	1.78

*All data measured at 6 bar

NC / NO / SC / SO



2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GP416

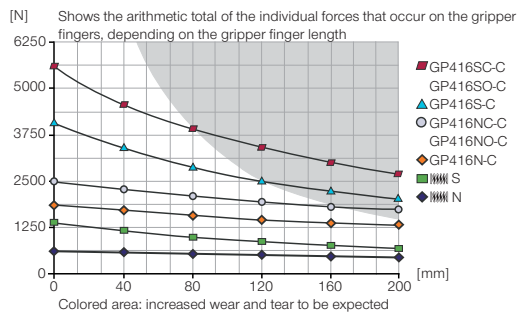
1

Installation size GP416 / 2-Jaw Parallel Grippers / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS

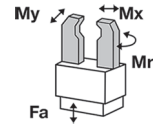


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	140
Mx [Nm]	160
My [Nm]	180
Fa [N]	5000

▶ INCLUDED IN DELIVERY



Mounting block

KB8K



Centering Disc

DST41600

▶ RECOMMENDED ACCESSORIES



Universal Jaw Aluminium

UB416



Universal Jaw Steel

UB416ST



Alternate proximity bracket

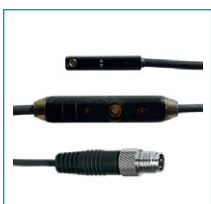
KHA416-B-8



Magnetic field sensor
Angled Cable 0,3 m -
Connector M8
MFS103SKHC



Magnetic field sensor
Straight Cable 0,3 m -
Connector M8
MFS204SKHC



2-Position-Sensor Cable
0,3 m - Connector M8
MFSP2SKHC-02



Plug-in connector Straight Ca-
ble 5m - Socket M8 (female)
KAG500



Straight Fittings - Quick
Connect Style
GV1-8X6



Angled Fittings - Quick
Connect Style
WV1-8X6

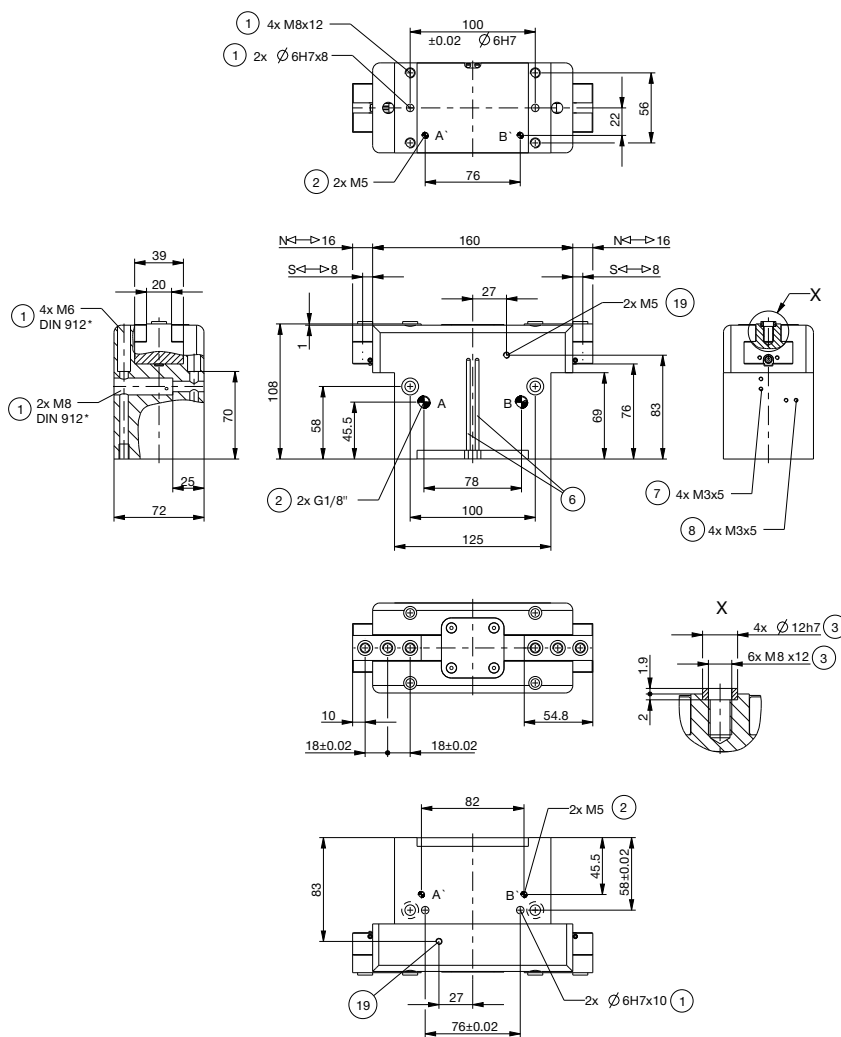


Pressure Safety Valve
DSV1-8

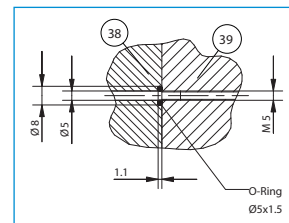
Order no.	▶ Technical Data*					
	GP416N-C	GP416NC-C	GP416NO-C	GP416S-C	GP416SC-C	GP416SO-C
Stroke per jaw [mm]	16	16	16	8	8	8
Gripping force in closing [N]	1860	2490		4160	5560	
Gripping force in opening [N]	1960		2590	4390		5780
Gripping force secured by spring min. [N]		630	630		1400	1400
Closing time [s]	0.2	0.15	0.25	0.2	0.15	0.25
Opening time [s]	0.2	0.25	0.15	0.2	0.25	0.15
Repetition accuracy +/- [mm]	0.01	0.01	0.01	0.01	0.01	0.01
Operating pressure min. [bar]	3	4	4	3	4	4
Operating pressure max. [bar]	8	8	8	8	8	8
Max. operating pressure for sealing air [bar]	0.5	0.5	0.5	0.5	0.5	0.5
Operating temperature min. [°C]	5	5	5	5	5	5
Operating temperature max. [°C]	+80	+80	+80	+80	+80	+80
Air volume per cycle [cm ³]	268	477	477	268	477	477
Weight [kg]	2.9	3.4	3.4	2.9	3.4	3.4

*All data measured at 6 bar

NC / NO / SC / SO

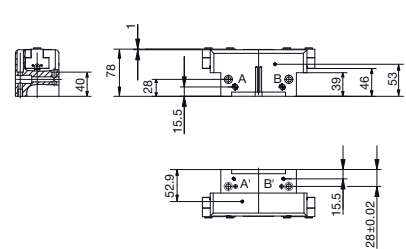


- ① Gripper attachment
- ② Energy supply
- ③ Fixing for gripper finger
- ⑥ Integrated slot for magnetic field sensor
- ⑦ Fixing for mounting block
- ⑧ Fixing clamping bracket (KHA)
- ⑰ Air purge connection option
- ⑳ Adapter
- ㉑ Gripper
- A Air connection (close)
- B Air connection (open)
- A' Air connection, alternative (close)
- B' Air connection, alternative (open)



Hoseless air feed-through

N / S



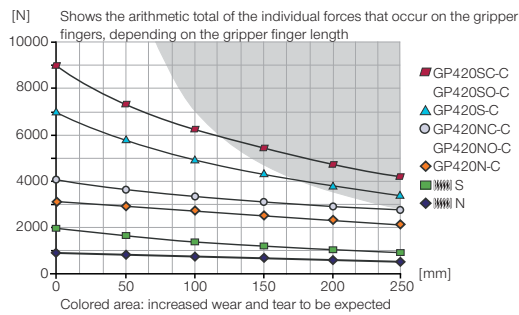
2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GP420

▶ PRODUCT SPECIFICATIONS

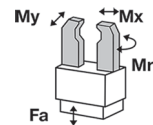


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	170
Mx [Nm]	180
My [Nm]	220
Fa [N]	7000

▶ INCLUDED IN DELIVERY



Mounting block

KB8K



Centering Disc

DST42000

▶ RECOMMENDED ACCESSORIES



Universal Jaw Aluminium

UB420



Universal Jaw Steel

UB420ST



Alternate proximity bracket

KHA420-B-8



Inductive proximity switch - Connector M8

NJ8-E2S



Magnetic field sensor Angled Cable 0,3 m - Connector M8

MFS103SKHC



Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



2-Position-Sensor Cable 0,3 m - Connector M8

MFSP2SKHC-02



Plug-in connector Straight Cable 5m - Socket M8 (female)

KAG500



Straight Fittings - Quick Connect Style

GV1-4X8



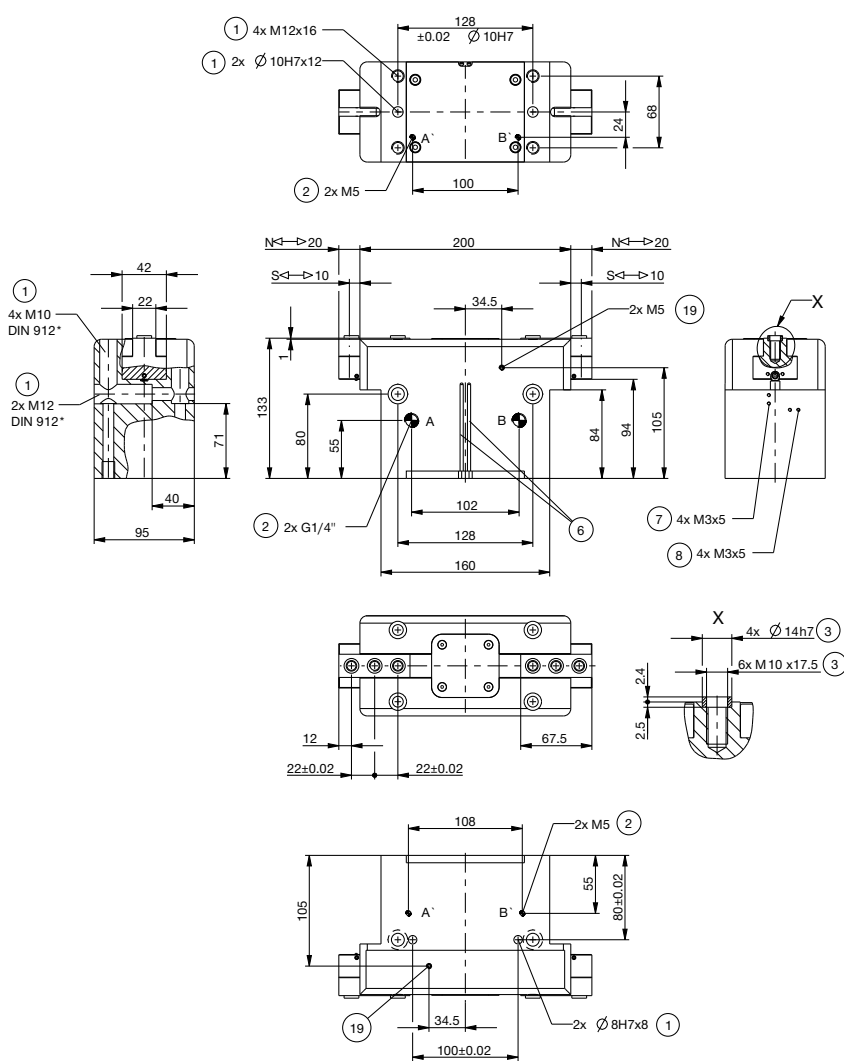
Pressure Safety Valve

DSV1-8

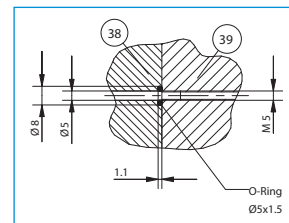
Order no.	▶ Technical Data*					
	GP420N-C	GP420NC-C	GP420NO-C	GP420S-C	GP420SC-C	GP420SO-C
Stroke per jaw [mm]	20	20	20	10	10	10
Gripping force in closing [N]	3175	4060		7080	9060	
Gripping force in opening [N]	3330		4215	7430		9400
Gripping force secured by spring min. [N]		900	900		1975	1975
Closing time [s]	0.35	0.3	0.4	0.35	0.3	0.4
Opening time [s]	0.35	0.4	0.3	0.35	0.4	0.3
Repetition accuracy +/- [mm]	0.02	0.02	0.02	0.02	0.02	0.02
Operating pressure min. [bar]	3	4	4	3	4	4
Operating pressure max. [bar]	8	8	8	8	8	8
Max. operating pressure for sealing air [bar]	0.5	0.5	0.5	0.5	0.5	0.5
Operating temperature min. [°C]	5	5	5	5	5	5
Operating temperature max. [°C]	+80	+80	+80	+80	+80	+80
Air volume per cycle [cm ³]	320	590	590	320	590	590
Weight [kg]	5.5	6.7	6.7	5.5	6.7	6.7

*All data measured at 6 bar

NC / NO / SC / SO

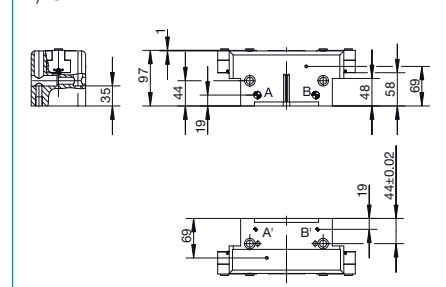


- ① Gripper attachment
- ② Energy supply
- ③ Fixing for gripper finger
- ⑥ Integrated slot for magnetic field sensor
- ⑦ Fixing for mounting block
- ⑧ Fixing clamping bracket (KHA)
- ⑱ Air purge connection option
- ⑳ Adapter
- ㉑ Gripper
- Ⓐ Air connection (close)
- Ⓑ Air connection (open)
- Ⓐ Air connection, alternative (close)
- Ⓑ Air connection, alternative (open)



Hoseless air feed-through

N / S



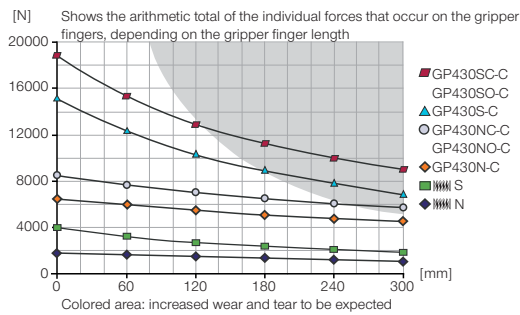
2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GP430

▶ PRODUCT SPECIFICATIONS

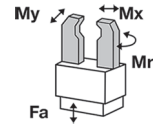


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	200
Mx [Nm]	275
My [Nm]	300
Fa [N]	9000

▶ INCLUDED IN DELIVERY



Mounting block

KB8K



Centering Disc

DST43000

▶ RECOMMENDED ACCESSORIES



Universal Jaw Aluminium

UB430



Universal Jaw Steel

UB430ST



Alternate proximity bracket

KHA430-B-8



Inductive proximity switch - Connector M8

NJ8-E2S



Magnetic field sensor Angled Cable 0,3 m - Connector M8

MFS103SKHC



Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



2-Position-Sensor Cable 0,3 m - Connector M8

MFSP2SKHC-02



Plug-in connector Straight Cable 5m - Socket M8 (female)

KAG500



Straight Fittings - Quick Connect Style

GV1-4X8

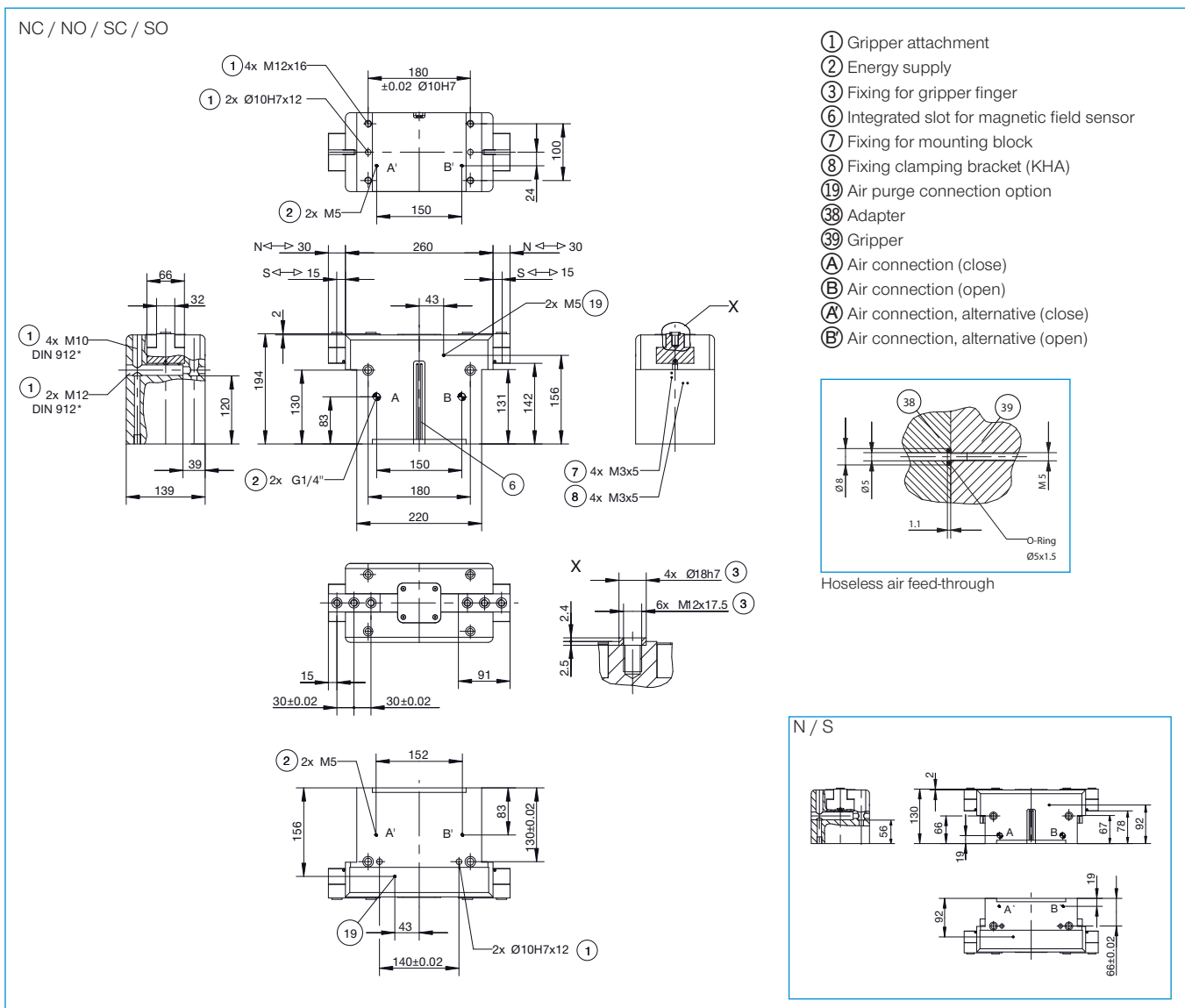


Pressure Safety Valve

DSV1-8

Order no.	▶ Technical Data*					
	GP430N-C	GP430NC-C	GP430NO-C	GP430S-C	GP430SC-C	GP430SO-C
Stroke per jaw [mm]	30	30	30	15	15	15
Gripping force in closing [N]	6675	8480		14900	18930	
Gripping force in opening [N]	6830		8640	15250		19275
Gripping force secured by spring min. [N]		1800	1800		4030	4030
Closing time [s]	0.4	0.4	0.8	0.4	0.4	0.8
Opening time [s]	0.4	0.8	0.4	0.4	0.8	0.4
Repetition accuracy +/- [mm]	0.04	0.04	0.04	0.04	0.04	0.04
Operating pressure min. [bar]	3	4	4	3	4	4
Operating pressure max. [bar]	8	8	8	8	8	8
Max. operating pressure for sealing air [bar]	0.5	0.5	0.5	0.5	0.5	0.5
Operating temperature min. [°C]	5	5	5	5	5	5
Operating temperature max. [°C]	+80	+80	+80	+80	+80	+80
Air volume per cycle [cm ³]	980	1850	1850	980	1850	1850
Weight [kg]	14	18.9	18.9	14	18.9	18.9

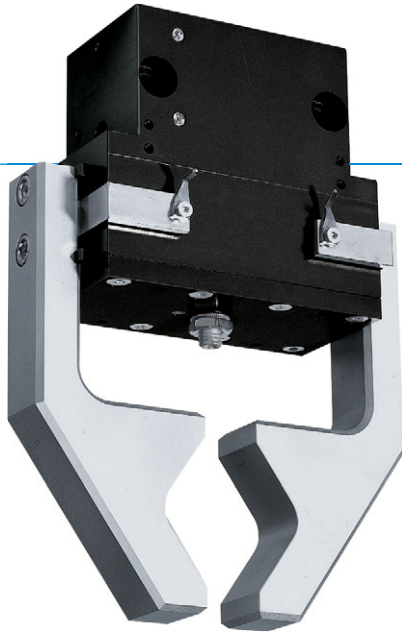
*All data measured at 6 bar



2-JAW PARALLEL GRIPPERS

SERIES GP200

▶ PRODUCT ADVANTAGES



“The variable”

▶ Smooth stroke configuration

An adjusting screw allows you to adjust the stroke to your specific application

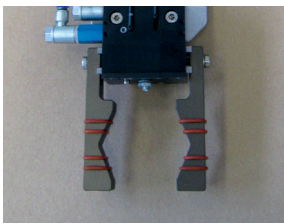
▶ Proven technology

We have more than 20 years of proven reliability, which ensures uninterrupted production for you

▶ Dirt protection

Using the scrapers on the guides, you can reliably use the gripper even under the harshest conditions

▶ THE BEST PRODUCT FOR YOUR APPLICATION



▶ Our products love the challenge!

Extreme conditions, all over the world—our tried and tested components and systems give you limitless possibilities:

Find the best product for your specific use:

www.zimmer-group.com

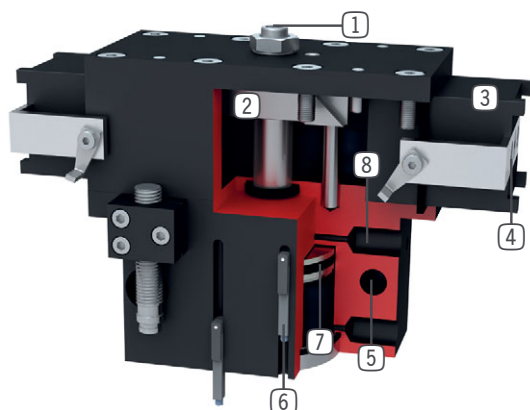
HOW TO ORDER CORRECTLY

- ▶ The product order numbers are arranged according to this diagram:

Order no.	GP280	<input type="checkbox"/>	<input type="checkbox"/>	
High force		S		
Without intergrated spring			-99	



BENEFITS IN DETAIL



- 1 Stroke adjustment**
 - infinitely adjustable in „open“ movement
 - adjusting screw in delivery
- 2 Wedge hook mechanism**
 - synchronized the movement of the gripper jaws
 - high force transfer
- 3 Square guide**
 - high forces and moments capacity
- 4 Gripper jaw**
 - individual gripper finger mounting
- 5 Mounting and positioning**
 - mounting possible from several sides for versatile positioning
- 6 Sensing slot**
 - mounting and positioning of magnetic field sensors
- 7 Drive**
 - double-acting pneumatic cylinder
- 8 Energy supply**
 - possible from several sides

SERIES CHARACTERISTICS



Number of installation sizes	4
Stroke per jaw	6 mm - 40 mm
Gripping force	160 N - 4500 N
Weight	0,33 kg - 8,3 kg
AP class	3



10 million maintenance-free cycles (max.)



Spring closing C



High-strength S



Inductive sensor



IP40



Magnetic field sensor



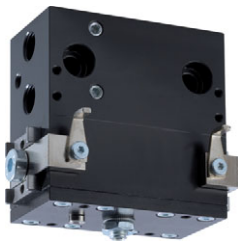
Purged air

2-JAW PARALLEL GRIPPERS

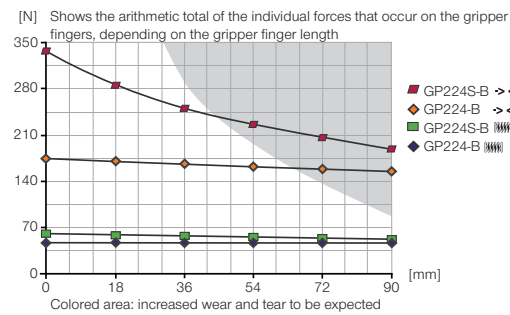
INSTALLATION SIZE GP224

1

▶ PRODUCT SPECIFICATIONS

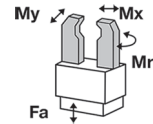


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	8
Mx [Nm]	15
My [Nm]	8
Fa [N]	250

▶ INCLUDED IN DELIVERY



Mounting block

KB8K

▶ RECOMMENDED ACCESSORIES



Centering Disc

ZE15H7X4



Inductive proximity switch
- Connector M8

NJ8-E2S



Magnetic field sensor
Angled Cable 0,3 m -
Connector M8

MFS103SKHC



Magnetic field sensor
Straight Cable 0,3 m -
Connector M8

MFS204SKHC



2-Position-Sensor Cable
0,3 m - Connector M8

MFSP2SKHC-02



Plug-in connector Straight Ca-
ble 5m - Socket M8 (female)

KAG500



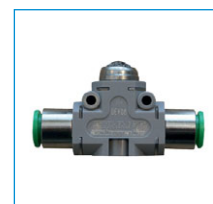
Straight Fittings - Quick
Connect Style

GVM5



Angled Fittings - Quick
Connect Style

WVM5



Quick Exhaust Valve

DEV04

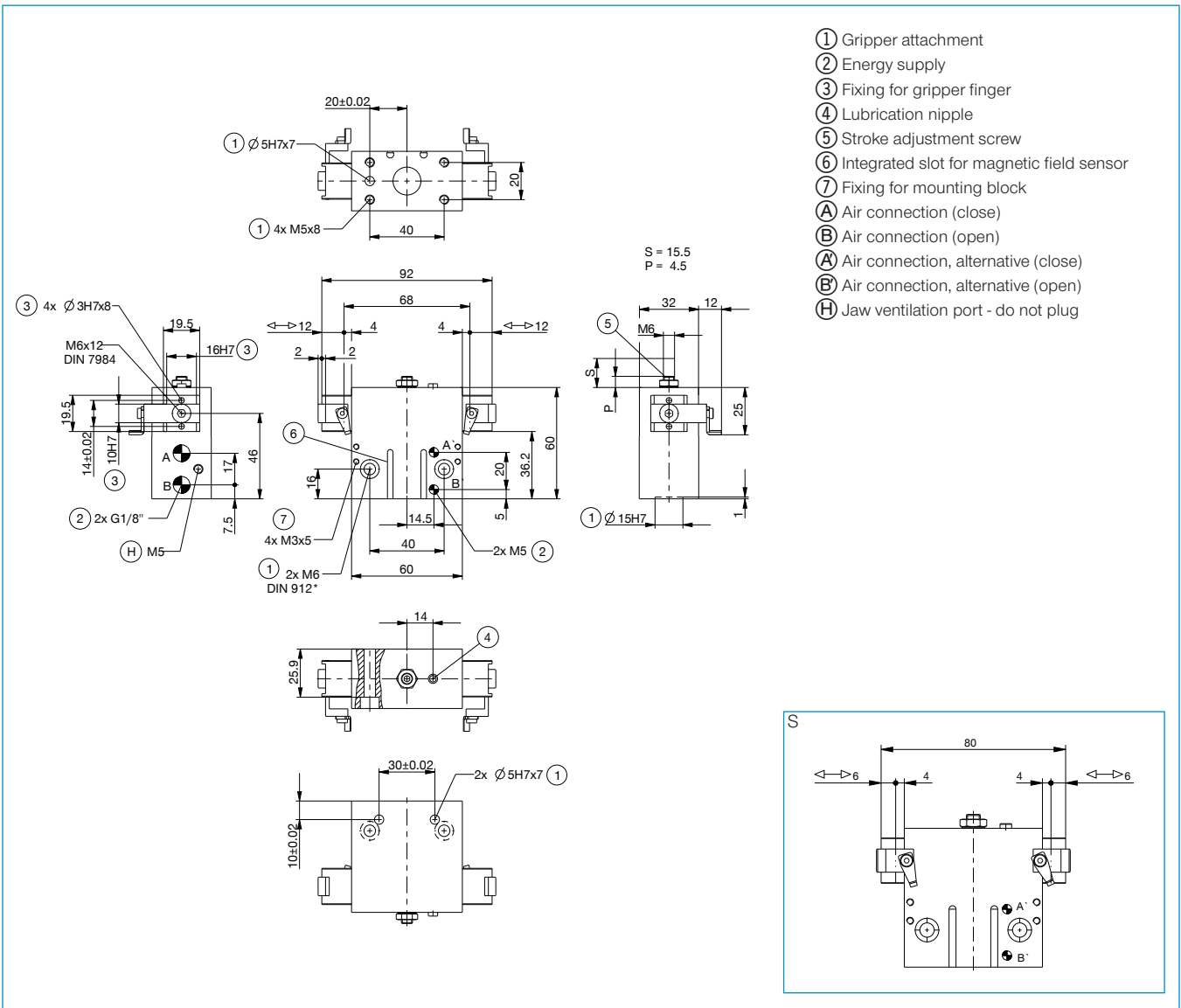


Pressure Safety Valve

DSV1-8

Order no.	▶ Technical Data*			
	GP224-B	GP224-B-99	GP224S-B	GP224S-B-99
Stroke per jaw [mm]	12	12	6	6
Gripping force in closing [N]	170	160	335	335
Gripping force in opening [N]		160		335
Gripping force secured by spring min. [N]	10		35	
Closing time [s]	0.06	0.04	0.06	0.04
Opening time [s]	0.06	0.04	0.06	0.04
Repetition accuracy +/- [mm]	0.05	0.05	0.05	0.05
Operating pressure min. [bar]	5	3	5	3
Operating pressure max. [bar]	8	8	8	8
Operating temperature min. [°C]	5	5	5	5
Operating temperature max. [°C]	+80	+80	+80	+80
Air volume per cycle [cm³]	12	12	12	12
Weight [kg]	0.33	0.33	0.33	0.33

*All data measured at 6 bar



2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GP240

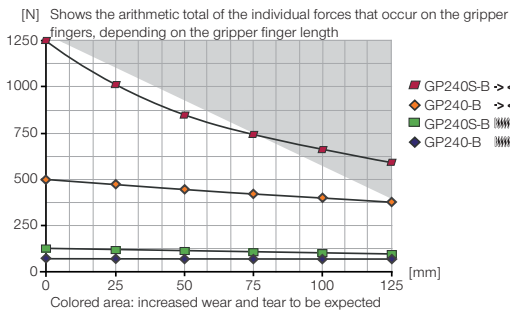
1

Installation size GP240 / 2-Jaw Parallel Grippers / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS

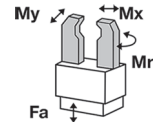


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	15
Mx [Nm]	30
My [Nm]	15
Fa [N]	400

▶ INCLUDED IN DELIVERY



Mounting block

KB8K

▶ RECOMMENDED ACCESSORIES



Centering Disc

ZE30H7X4



Inductive proximity switch
- Connector M8

NJ8-E2S



Magnetic field sensor
Angled Cable 0,3 m -
Connector M8

MFS103SKHC



Magnetic field sensor
Straight Cable 0,3 m -
Connector M8

MFS204SKHC



2-Position-Sensor Cable
0,3 m - Connector M8

MFSP2SKHC-02



Plug-in connector Straight Cable 5m - Socket M8 (female)

KAG500



Straight Fittings - Quick Connect Style

GVM5



Angled Fittings - Quick Connect Style

WVM5



Quick Exhaust Valve

DEV04

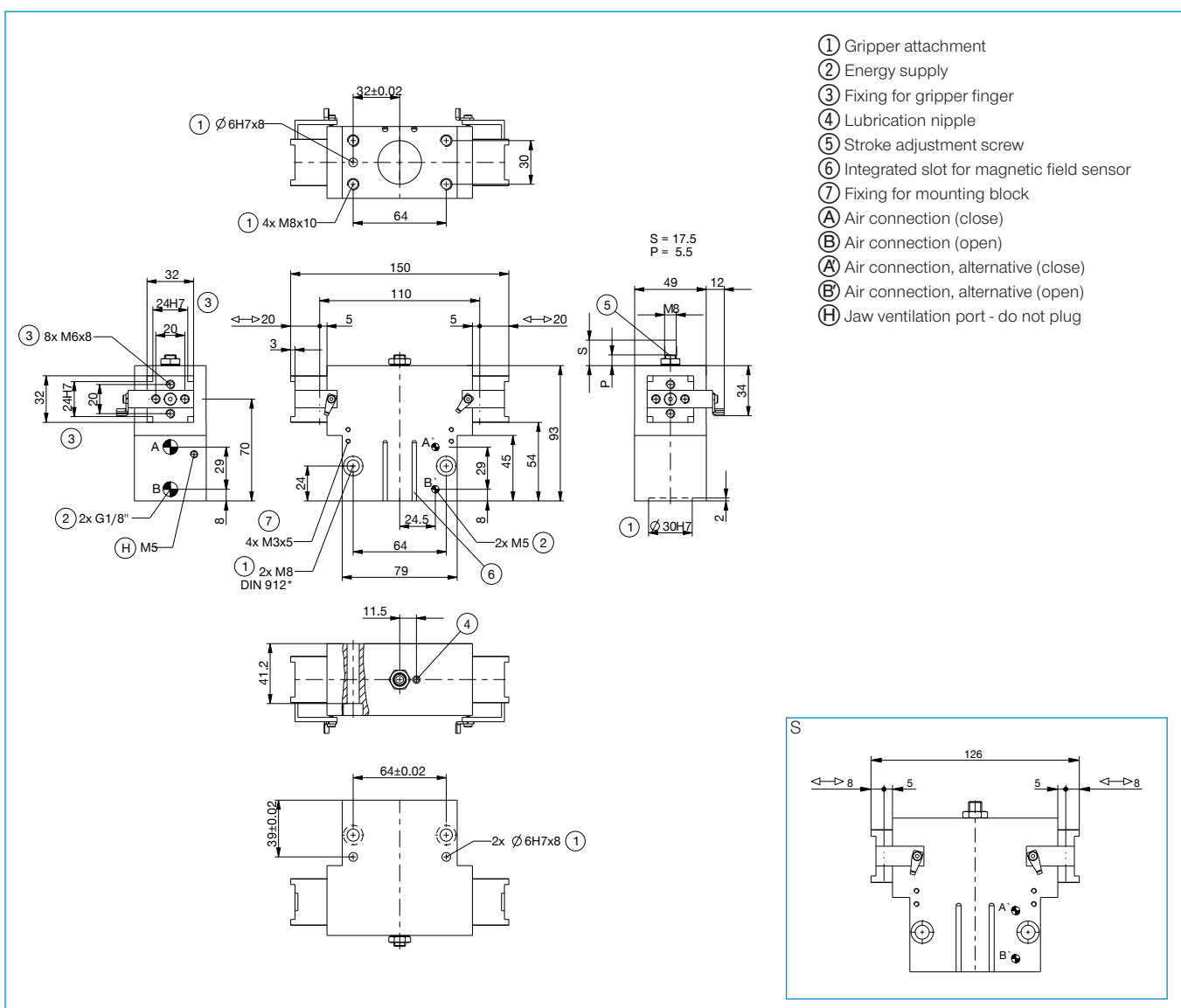


Pressure Safety Valve

DSV1-8

Order no.	▶ Technical Data*			
	GP240-B	GP240-B-99	GP240S-B	GP240S-B-99
Stroke per jaw [mm]	20	20	8	8
Gripping force in closing [N]	510	435	1290	1105
Gripping force in opening [N]		435		1105
Gripping force secured by spring min. [N]	75		185	
Closing time [s]	0.1	0.08	0.1	0.08
Opening time [s]	0.1	0.08	0.1	0.08
Repetition accuracy +/- [mm]	0.05	0.05	0.05	0.05
Operating pressure min. [bar]	5	3	5	3
Operating pressure max. [bar]	8	8	8	8
Operating temperature min. [°C]	5	5	5	5
Operating temperature max. [°C]	+80	+80	+80	+80
Air volume per cycle [cm³]	49	49	49	49
Weight [kg]	1.2	1.2	1.2	1.2

*All data measured at 6 bar



- 1) Gripper attachment
- 2) Energy supply
- 3) Fixing for gripper finger
- 4) Lubrication nipple
- 5) Stroke adjustment screw
- 6) Integrated slot for magnetic field sensor
- 7) Fixing for mounting block
- A) Air connection (close)
- B) Air connection (open)
- A') Air connection, alternative (close)
- B') Air connection, alternative (open)
- H) Jaw ventilation port - do not plug

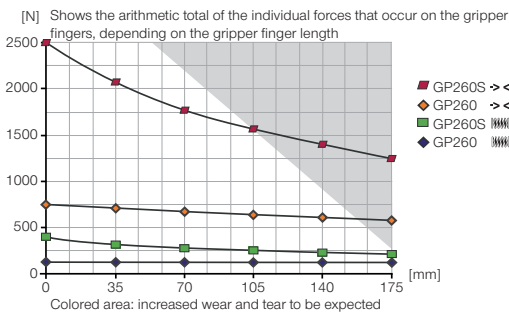
2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GP260

▶ PRODUCT SPECIFICATIONS

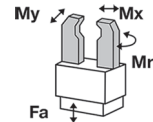


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	25
Mx [Nm]	45
My [Nm]	25
Fa [N]	600

▶ INCLUDED IN DELIVERY



Mounting block

KB8K

▶ RECOMMENDED ACCESSORIES



Centering Disc

ZE40H7X6



Inductive proximity switch - Connector M8

NJ8-E2S



Magnetic field sensor Angled Cable 0,3 m - Connector M8

MFS103SKHC



Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



2-Position-Sensor Cable 0,3 m - Connector M8

MFSP2SKHC-02



Plug-in connector Straight Cable 5m - Socket M8 (female)

KAG500



Straight Fittings - Quick Connect Style

GV1-8X8



Angled Fittings - Quick Connect Style

WV1-8X8



Quick Exhaust Valve

DEV08

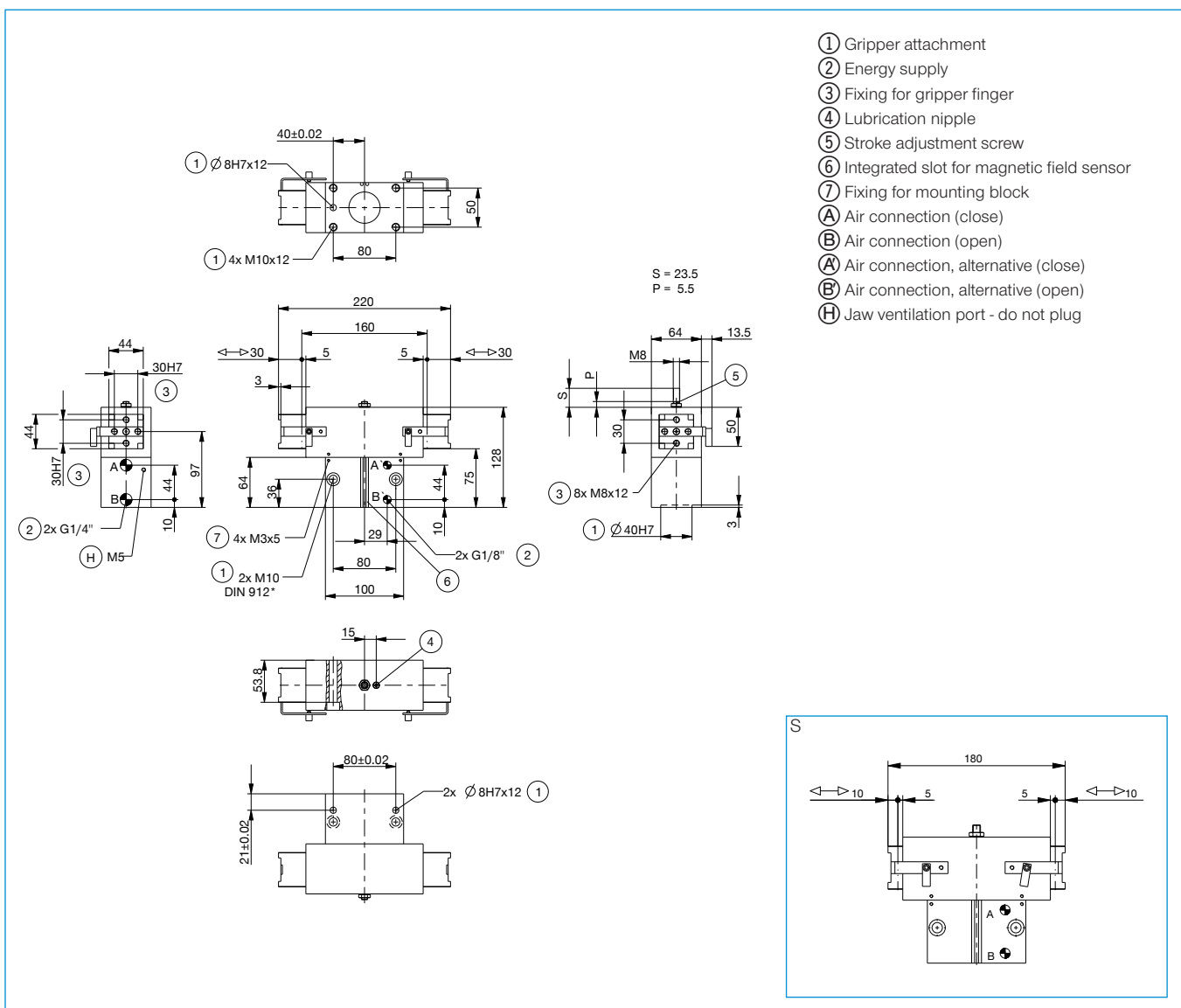


Pressure Safety Valve

DSV1-8

Order no.	▶ Technical Data*			
	GP260	GP260-99	GP260S	GP260S-99
Stroke per jaw [mm]	30	30	10	10
Gripping force in closing [N]	800	665	2480	2120
Gripping force in opening [N]		665		2120
Gripping force secured by spring min. [N]	135		360	
Closing time [s]	0.15	0.1	0.15	0.1
Opening time [s]	0.15	0.1	0.15	0.1
Repetition accuracy +/- [mm]	0.05	0.05	0.05	0.05
Operating pressure min. [bar]	5	3	5	3
Operating pressure max. [bar]	8	8	8	8
Operating temperature min. [°C]	5	5	5	5
Operating temperature max. [°C]	+80	+80	+80	+80
Air volume per cycle [cm³]	115	115	115	115
Weight [kg]	2.9	2.9	2.9	2.9

*All data measured at 6 bar



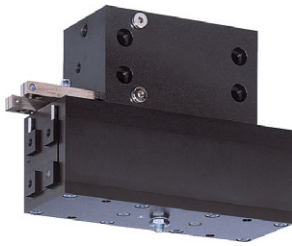
2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GP280

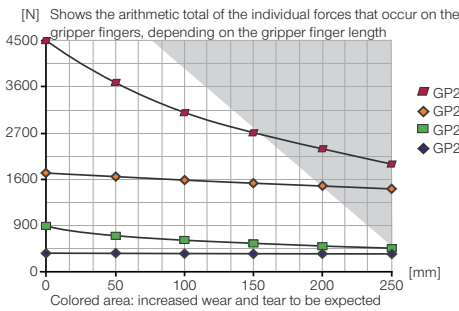
1

Installation size GP280 / 2-Jaw Parallel Grippers / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS

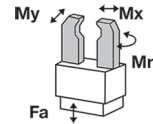


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	40
Mx [Nm]	75
My [Nm]	40
Fa [N]	1000

▶ INCLUDED IN DELIVERY



Mounting block

KB8-23

▶ RECOMMENDED ACCESSORIES



Centering Disc

ZE45H7X6



Inductive proximity switch
- Connector M8

NJ8-E2S



Magnetic field sensor
Angled Cable 0,3 m -
Connector M8

MFS103SKHC



Magnetic field sensor
Straight Cable 0,3 m -
Connector M8

MFS204SKHC



2-Position-Sensor Cable
0,3 m - Connector M8

MFSP2SKHC-02



Plug-in connector Straight Ca-
ble 5m - Socket M8 (female)

KAG500



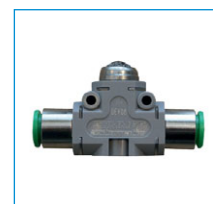
Straight Fittings - Quick
Connect Style

GV1-8X8



Angled Fittings - Quick
Connect Style

WV1-8X8



Quick Exhaust Valve

DEV08

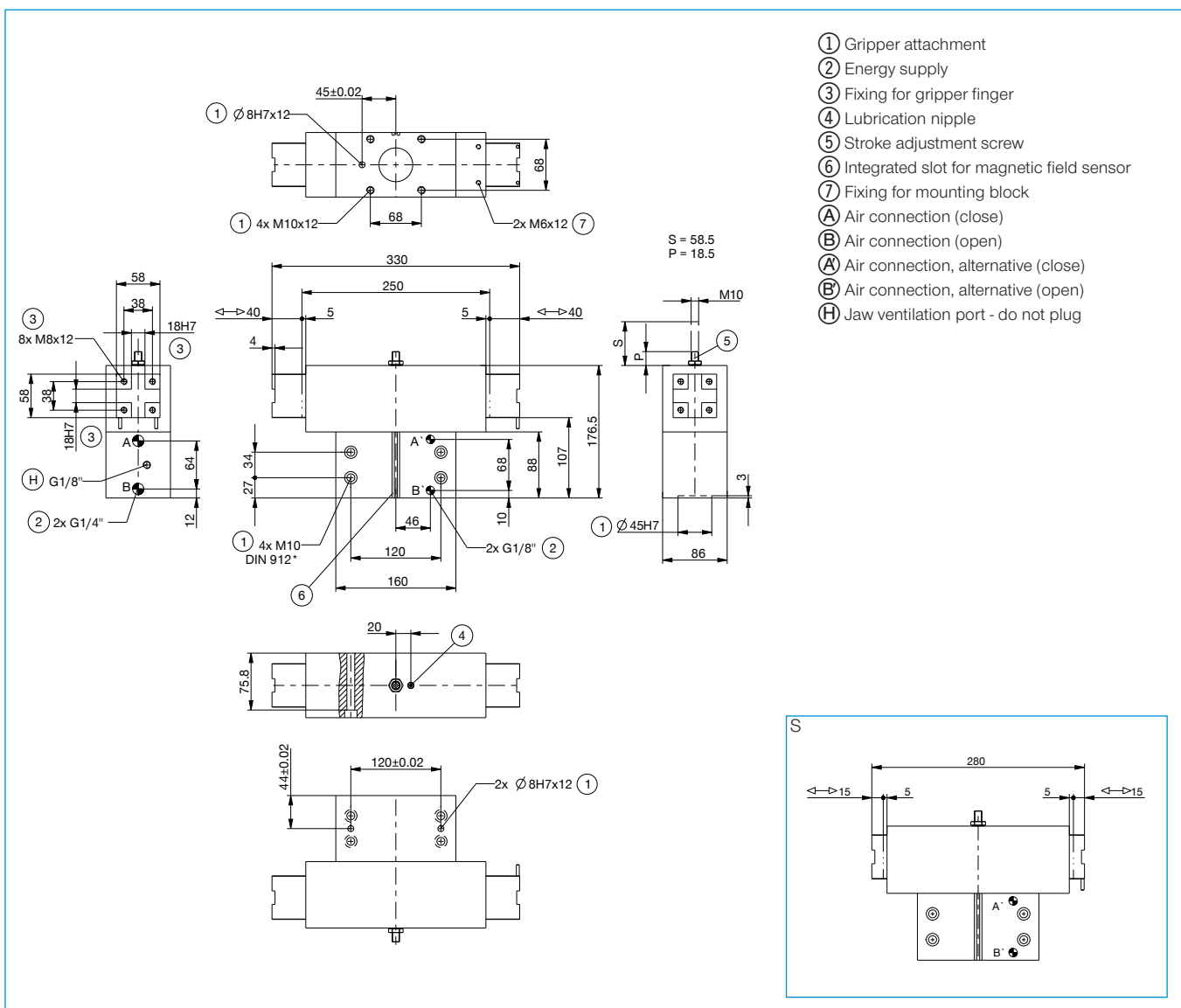


Pressure Safety Valve

DSV1-8

Order no.	Technical Data*			
	GP280	GP280-99	GP280S	GP280S-99
Stroke per jaw [mm]	40	40	15	15
Gripping force in closing [N]	1690	1390	4500	3690
Gripping force in opening [N]		1390		3690
Gripping force secured by spring min. [N]	300		810	
Closing time [s]	0.25	0.2	0.25	0.2
Opening time [s]	0.25	0.2	0.25	0.2
Repetition accuracy +/- [mm]	0.05	0.05	0.05	0.05
Operating pressure min. [bar]	5	5	5	5
Operating pressure max. [bar]	10	10	10	10
Operating temperature min. [°C]	5	5	5	5
Operating temperature max. [°C]	+80	+80	+80	+80
Air volume per cycle [cm³]	300	300	300	300
Weight [kg]	8.3	8.3	8.3	8.3

*All data measured at 6 bar



2-JAW PARALLEL GRIPPERS

SERIES GPP5000

1

Series GPP5000 / 2-Jaw Parallel Grippers / pneumatic / Grippers

▶ PRODUCT ADVANTAGES



“The Universal One”

- ▶ Up to 30% more gripping force than the benchmark
- ▶ 10% more static forces and moments than the benchmark
- ▶ Gripper fingers up to 10% longer than the benchmark
- ▶ Gripper fingers weight up to 15% higher than the benchmark
- ▶ Sealed guide IP64 / Protector version IP67 (with purged air)
- ▶ Protected against corrosion
- ▶ Up to 30 million cycles without maintenance

▶ THE BEST PRODUCT FOR YOUR APPLICATION



▶ Our products love the challenge!

Extreme conditions, all over the world—our tried and tested components and systems give you limitless possibilities:

Find the best product for your specific use:

www.zimmer-group.com

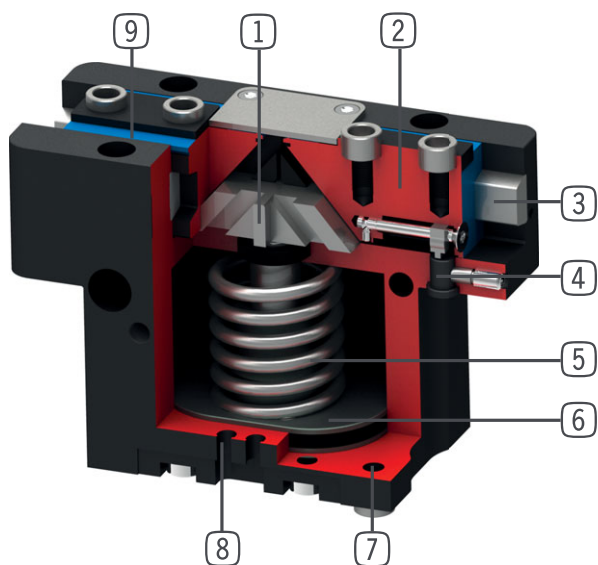
HOW TO ORDER CORRECTLY

- ▶ The product order numbers are arranged according to this diagram:

Order no.	GPP5010	<input type="checkbox"/>	<input type="checkbox"/>	- <input type="checkbox"/>	-A
Basis version	N				
High force	S				
For external gripping, self-locking, spring closing			C		
For internal gripping, self-locking, spring opening			O		
temperature-resistant version to 130 °C					20
Protector version IP67 for use in adverse environments (with purged air)					21
temperature-resistant protector version IP67 for use in adverse environments (with purged air) to 130 °C					24



► BENEFITS IN DETAIL



- ① **Wedge hook mechanism**
 - Supports to absorb high forces and moments
 - Synchronized gripper jaw movement
- ② **Gripper jaw**
 - Gripper fingers mounted using removable centring sleeves
 - Lubricated for life via incorporated lubrication slots
- ③ **Steel Linear Guide**
 - Steel in steel guide
 - Enables use of extremely long gripper fingers
- ④ **Mounting block**
 - mounting for inductive proximity switch
- ⑤ **Integrated gripping force safety device**
 - Spring built into cylinder chamber as an energy store
- ⑥ **Drive**
 - Double-acting pneumatic rotor cylinder
- ⑦ **Mounting and positioning**
 - Alternatively, on several sides for customized mounting
 - Pneumatic and electrical versions identical apart from height
- ⑧ **Sensing slot**
 - mounting and positioning of magnetic field sensors
- ⑨ **Dual lip seal**
 - IP64 and up to IP67 (with purged air) for Protector version
 - Prevents grease from being squeezed out, increasing service life

► SERIES CHARACTERISTICS



Number of installation sizes	11
Stroke per jaw	2,5 mm - 45 mm
Gripping force	140 N - 26950 N
Weight	0,08 kg - 41,5 kg
AP class	5



30 million maintenance-free cycles (max.)



High-strength S



IP67



Temperature-resistant



Spring closing C



Inductive sensor



Corrosion resistance



Purged air



Spring opening O



IP64

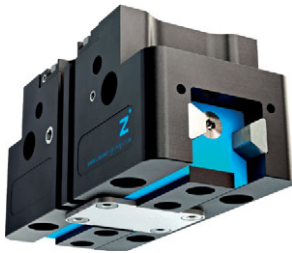


Magnetic field sensor

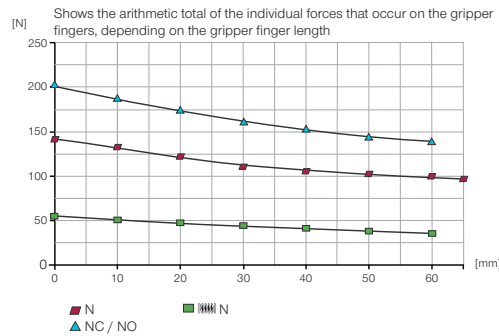
2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GPP5003

▶ PRODUCT SPECIFICATIONS

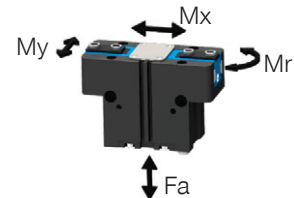


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	7
Mx [Nm]	14
My [Nm]	13
Fa [N]	550

▶ TECHNICAL DATA

▶ Technical Data*

Order no.	GPP5003N-00-A	GPP5003NC-00-A	GPP5003NO-00-A
Stroke per jaw [mm]	2.5	2.5	2.5
Gripping force in closing [N]	140	195	
Gripping force in opening [N]	150	150	205
Gripping force secured by spring min. [N]		55	55
Closing time [s]	0.01	0.01	0.025
Opening time [s]	0.01	0.025	0.01
Permissible weight per jaw max [kg]	0.12	0.12	0.12
Length of the gripper fingers max. [mm]	65	60	60
Repetition accuracy +/- [mm]	0.01	0.01	0.01
Operating pressure min. [bar]	3	4	4
Operating pressure max. [bar]	8	7	7
Operating temperature [°C]	-10 ... +90	-10 ... +90	-10 ... +90
Air volume per cycle [cm³]	2.1	4.8	4.8
Protection to IEC 60529	IP64	IP64	IP64
Weight [kg]	0.08	0.1	0.1

▶ Technical Data - Protector Version

Order no.	GPP5003N-21-A	GPP5003NC-21-A	GPP5003NO-21-A
Protection to IEC 60529	IP67**	IP67**	IP67**
Weight [kg]	0.1	0.12	0.12

▶ Technical Data - High Temperature Version

Order no.	GPP5003N-20-A	GPP5003NC-20-A	GPP5003NO-20-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130

▶ Technical Data - High Temperature Protector Version

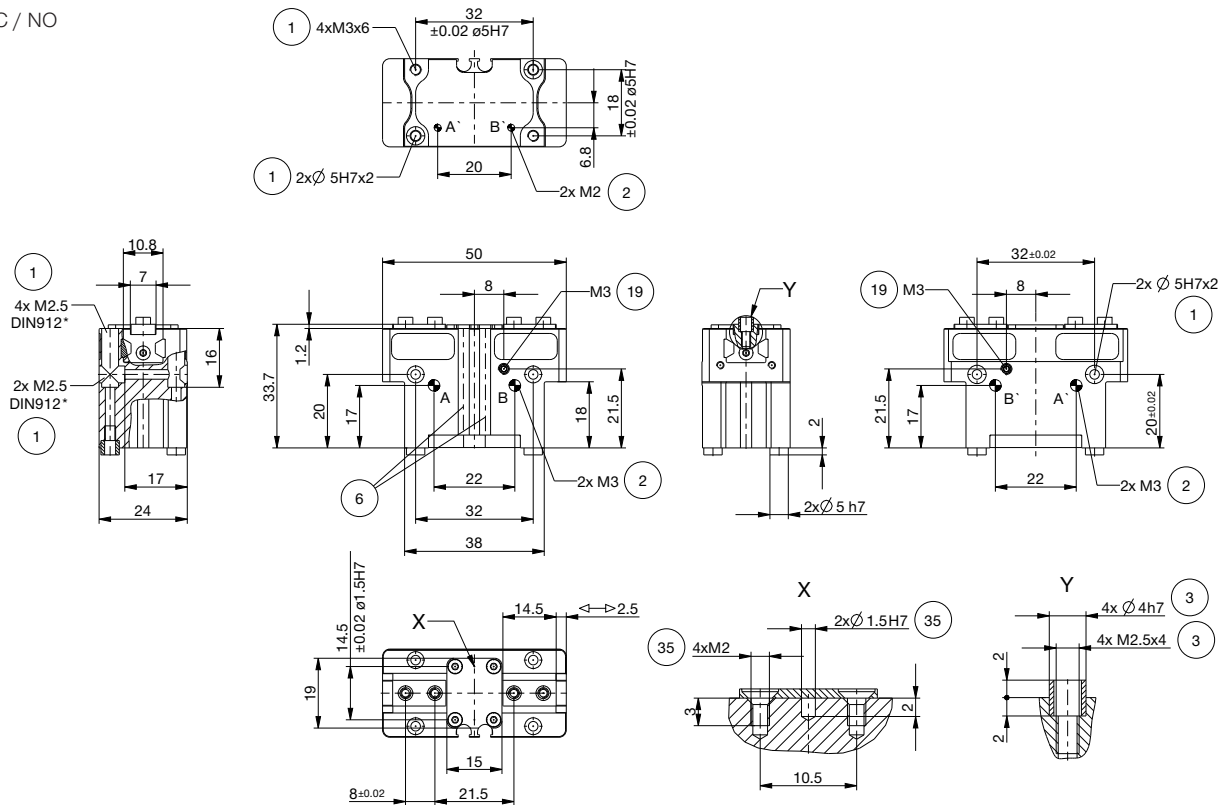
Order no.	GPP5003N-24-A	GPP5003NC-24-A	GPP5003NO-24-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130
Protection to IEC 60529	IP67**	IP67**	IP67**
Weight [kg]	0.1	0.12	0.12

*All data measured at 6 bar

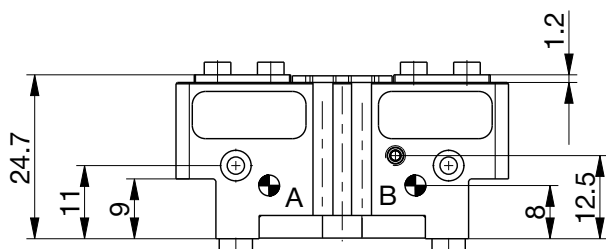
** with purged air (max. 0,5 bar)

▶ TECHNICAL DRAWINGS

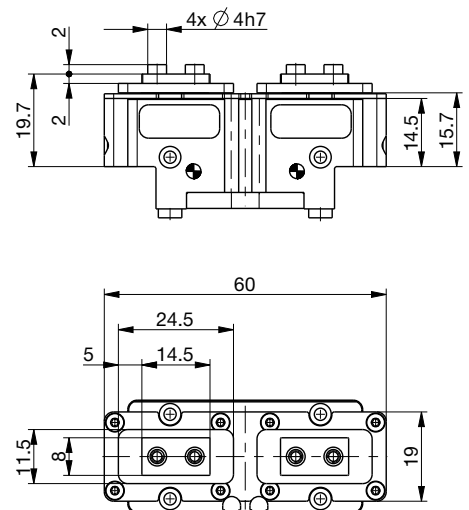
NC / NO



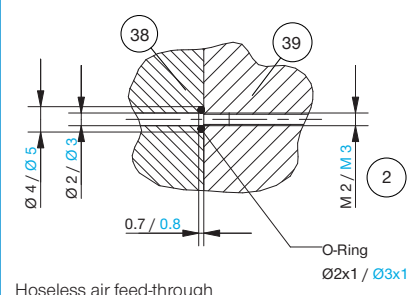
N



Protector version



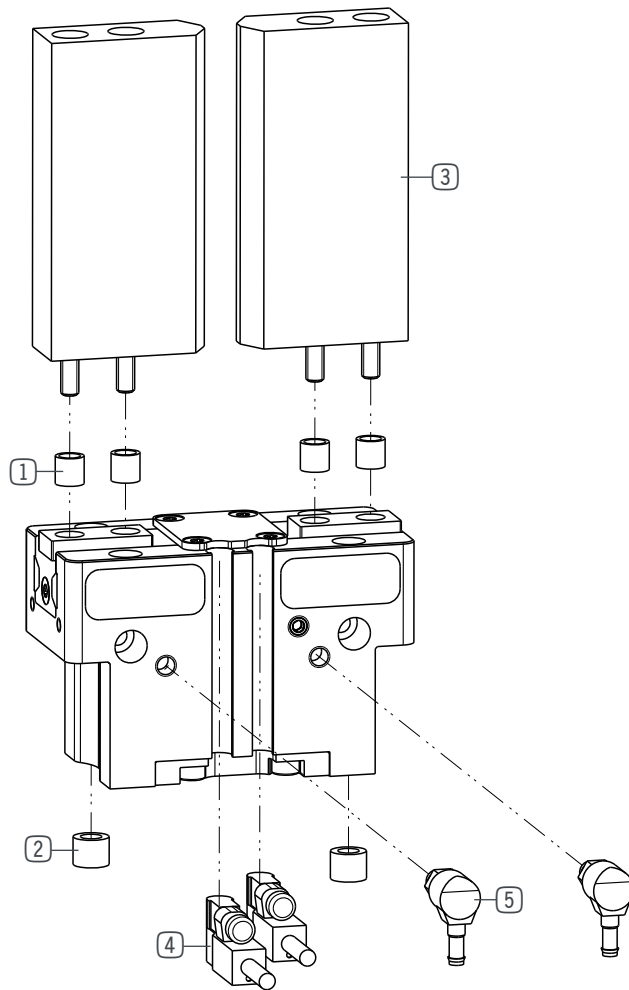
- ① Gripper attachment
- ② Energy supply
- ③ Fixing for gripper finger
- ⑥ Integrated slot for magnetic field sensor
- ⑱ Air purge connection option
- ⑳ Attachment option for customer-specific fittings
- ⑳ Adapter
- ㉑ Gripper
- Ⓐ Air connection (close)
- Ⓑ Air connection (open)
- Ⓐ Air connection, alternative (close)
- Ⓑ Air connection, alternative (open)



Hoseless air feed-through

2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GPP5003



▶ INCLUDED IN DELIVERY



Centering Disc

DST06510



Centering Disc

015761

▶ RECOMMENDED ACCESSORIES



Universal jaw aluminium

UB5003AL



Universal jaw steel

UB5003ST



Rubber Coated Tape
Knobbed

KF50N



Aluminum adjustment jaw

EB5003AL



Steel adjustment jaw

EB5003ST



Magnetic field sensor Angled
Cable 0,3 m - Connector M8

MFS103SKHC



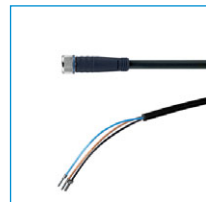
Magnetic field sensor Straight
Cable 0,3 m - Connector M8

MFS204SKHC



2-Position-Sensor Cable
0,3 m - Connector M8

MFSP2SKHC-02



Plug-in connector Straight Ca-
ble 5m - Socket M8 (female)

KAG500



Plug-in connector customiz-
able Straight - Connector M8

S8-G-3



Plug-in connector customiz-
able Straight - Connector M12

S12-G-3



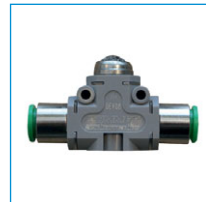
Straight Fittings - Barb
Style Connection

GVM3



Angled Fittings - Barb
Style Connection

WVM3



Quick Exhaust Valve

DEV04

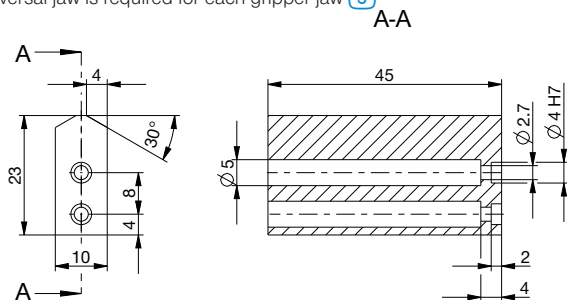


Pressure Safety Valve

DSV1-8

▶ TECHNICAL DRAWINGS ACCESSORIES

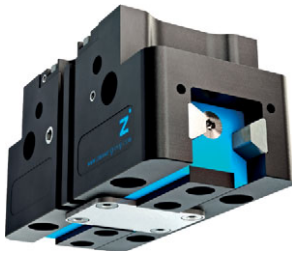
One universal jaw is required for each gripper jaw **3**



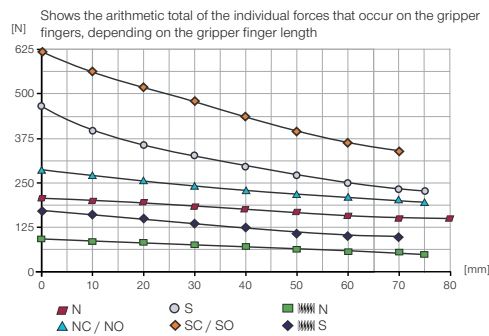
2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GPP5004

▶ PRODUCT SPECIFICATIONS

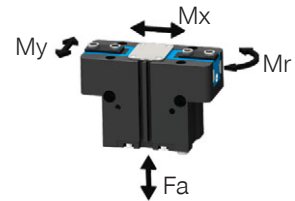


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	14
Mx [Nm]	29
My [Nm]	23
Fa [N]	750

▶ TECHNICAL DATA

▶ Technical Data*

Order no.	GPP5004N-00-A	GPP5004NC-00-A	GPP5004NO-00-A	GPP5004S-00-A	GPP5004SC-00-A	GPP5004SO-00-A
Stroke per jaw [mm]	4	4	4	2	2	2
Gripping force in closing [N]	200	280		440	600	
Gripping force in opening [N]	215		295	470		630
Gripping force secured by spring min. [N]		80	80		160	160
Closing time [s]	0.015	0.015	0.025	0.015	0.015	0.025
Opening time [s]	0.015	0.025	0.015	0.015	0.025	0.015
Permissible weight per jaw max [kg]	0.2	0.2	0.2	0.2	0.2	0.2
Length of the gripper fingers max. [mm]	80	75	75	75	70	70
Repetition accuracy +/- [mm]	0.01	0.01	0.01	0.01	0.01	0.01
Operating pressure min. [bar]	3	4	4	3	4	4
Operating pressure max. [bar]	8	7	7	8	7	7
Operating temperature [°C]	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90
Air volume per cycle [cm³]	5	12	12	5	12	12
Protection to IEC 60529	IP64	IP64	IP64	IP64	IP64	IP64
Weight [kg]	0.16	0.21	0.21	0.16	0.21	0.21

▶ Technical Data - Protector Version

Order no.	GPP5004N-21-A	GPP5004NC-21-A	GPP5004NO-21-A	GPP5004S-21-A	GPP5004SC-21-A	GPP5004SO-21-A
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	0.25	0.3	0.3	0.25	0.3	0.3

▶ Technical Data - High Temperature Version

Order no.	GPP5004N-20-A	GPP5004NC-20-A	GPP5004NO-20-A	GPP5004S-20-A	GPP5004SC-20-A	GPP5004SO-20-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130

▶ Technical Data - High Temperature Protector Version

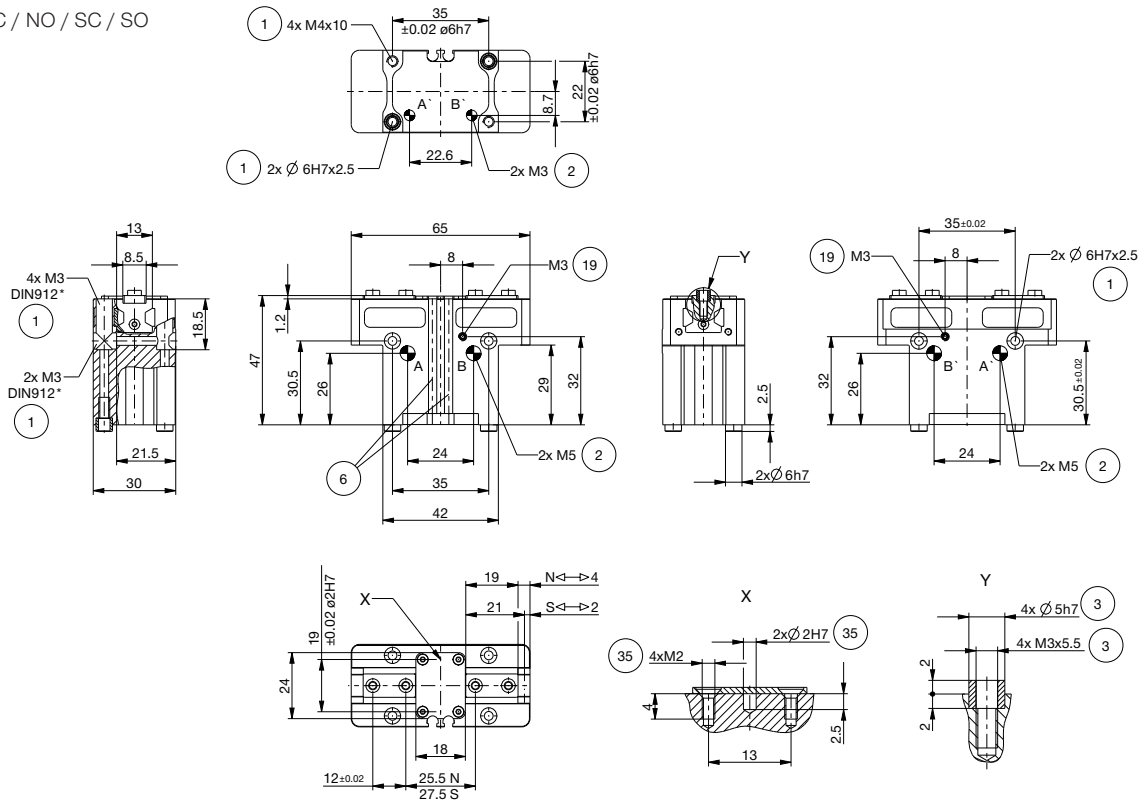
Order no.	GPP5004N-24-A	GPP5004NC-24-A	GPP5004NO-24-A	GPP5004S-24-A	GPP5004SC-24-A	GPP5004SO-24-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	0.25	0.3	0.3	0.25	0.3	0.3

*All data measured at 6 bar

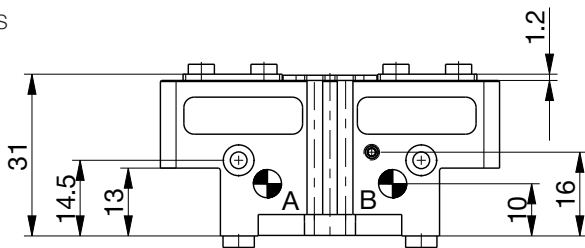
** with purged air (max. 0,5 bar)

TECHNICAL DRAWINGS

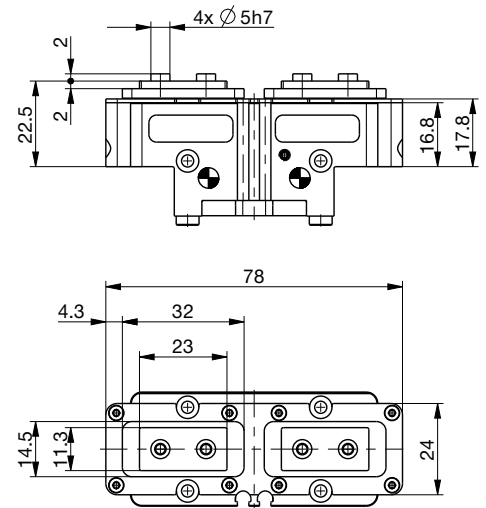
NC / NO / SC / SO



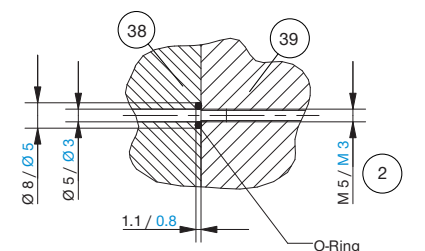
N / S



Protector version



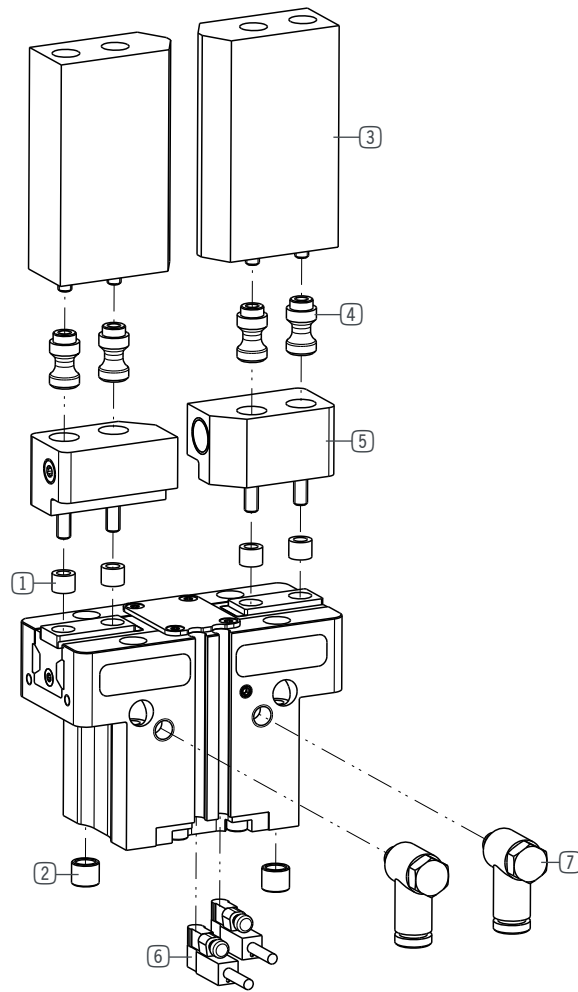
- ① Gripper attachment
- ② Energy supply
- ③ Fixing for gripper finger
- ⑥ Integrated slot for magnetic field sensor
- ⑱ Air purge connection option
- ⑳ Attachment option for customer-specific fittings
- ㉘ Adapter
- ㉙ Gripper
- Ⓐ Air connection (close)
- Ⓑ Air connection (open)
- Ⓐ Air connection, alternative (close)
- Ⓑ Air connection, alternative (open)



Hoseless air feed-through

2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GPP5004



▶ INCLUDED IN DELIVERY



Centering Disc

015761



Centering Disc

024230

▶ RECOMMENDED ACCESSORIES



Universal jaw aluminium

UB5004AL



Universal jaw steel

UB5004ST



Aluminum adjustment jaw

EB5004AL



Steel adjustment jaw

EB5004ST



Changeable jaw, loose-part-set

WB5004L



Changeable jaw, fix-part

WB5004F



Magnetic field sensor Angled Cable 0,3 m - Connector M8

MFS103SKHC



Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



2-Position-Sensor Cable 0,3 m - Connector M8

MFSP2SKHC-02



Plug-in connector Straight Cable 5m - Socket M8 (female)

KAG500



Plug-in connector customizable Straight - Connector M8

S8-G-3



Straight Fittings - Quick Connect Style

GVM5



Angled Fittings - Quick Connect Style

WVM5



Quick Exhaust Valve

DEV04

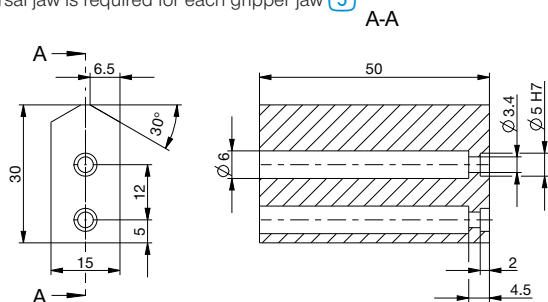


Pressure Safety Valve

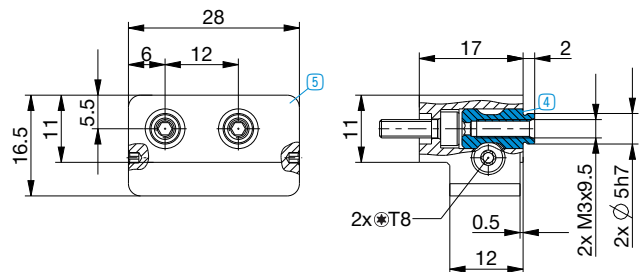
DSV1-8

▶ TECHNICAL DRAWINGS ACCESSORIES

One universal jaw is required for each gripper jaw **3**



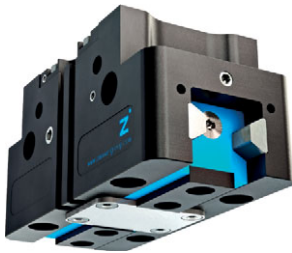
For each gripper jaw, one interchangeable jaw loose part set **4** and one interchangeable jaw fixed part **5** are needed



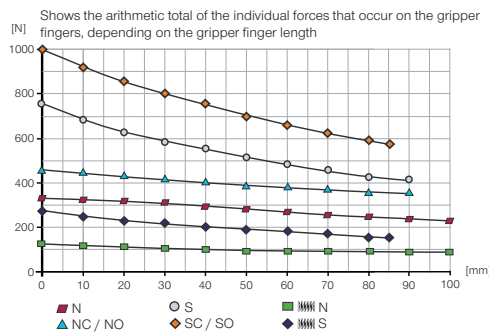
2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GPP5006

▶ PRODUCT SPECIFICATIONS

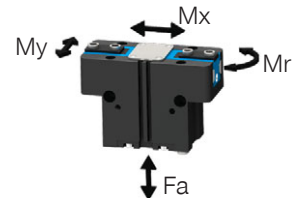


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	43
Mx [Nm]	70
My [Nm]	46
Fa [N]	1250

▶ TECHNICAL DATA

▶ Technical Data*

Order no.	GPP5006N-00-A	GPP5006NC-00-A	GPP5006NO-00-A	GPP5006S-00-A	GPP5006SC-00-A	GPP5006SO-00-A
Stroke per jaw [mm]	6	6	6	3	3	3
Gripping force in closing [N]	330	455		740	1020	
Gripping force in opening [N]	360		485	800		1080
Gripping force secured by spring min. [N]		125	125		280	280
Closing time [s]	0.025	0.015	0.035	0.025	0.015	0.035
Opening time [s]	0.025	0.035	0.015	0.025	0.035	0.015
Permissible weight per jaw max [kg]	0.4	0.4	0.4	0.4	0.4	0.4
Length of the gripper fingers max. [mm]	100	90	90	90	85	85
Repetition accuracy +/- [mm]	0.01	0.01	0.01	0.01	0.01	0.01
Operating pressure min. [bar]	3	4	4	3	4	4
Operating pressure max. [bar]	8	7	7	8	7	7
Operating temperature [°C]	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90
Air volume per cycle [cm³]	11	24	24	11	24	24
Protection to IEC 60529	IP64	IP64	IP64	IP64	IP64	IP64
Weight [kg]	0.28	0.35	0.35	0.28	0.35	0.35

▶ Technical Data - Protector Version

Order no.	GPP5006N-21-A	GPP5006NC-21-A	GPP5006NO-21-A	GPP5006S-21-A	GPP5006SC-21-A	GPP5006SO-21-A
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	0.37	0.44	0.44	0.37	0.44	0.44

▶ Technical Data - High Temperature Version

Order no.	GPP5006N-20-A	GPP5006NC-20-A	GPP5006NO-20-A	GPP5006S-20-A	GPP5006SC-20-A	GPP5006SO-20-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130

▶ Technical Data - High Temperature Protector Version

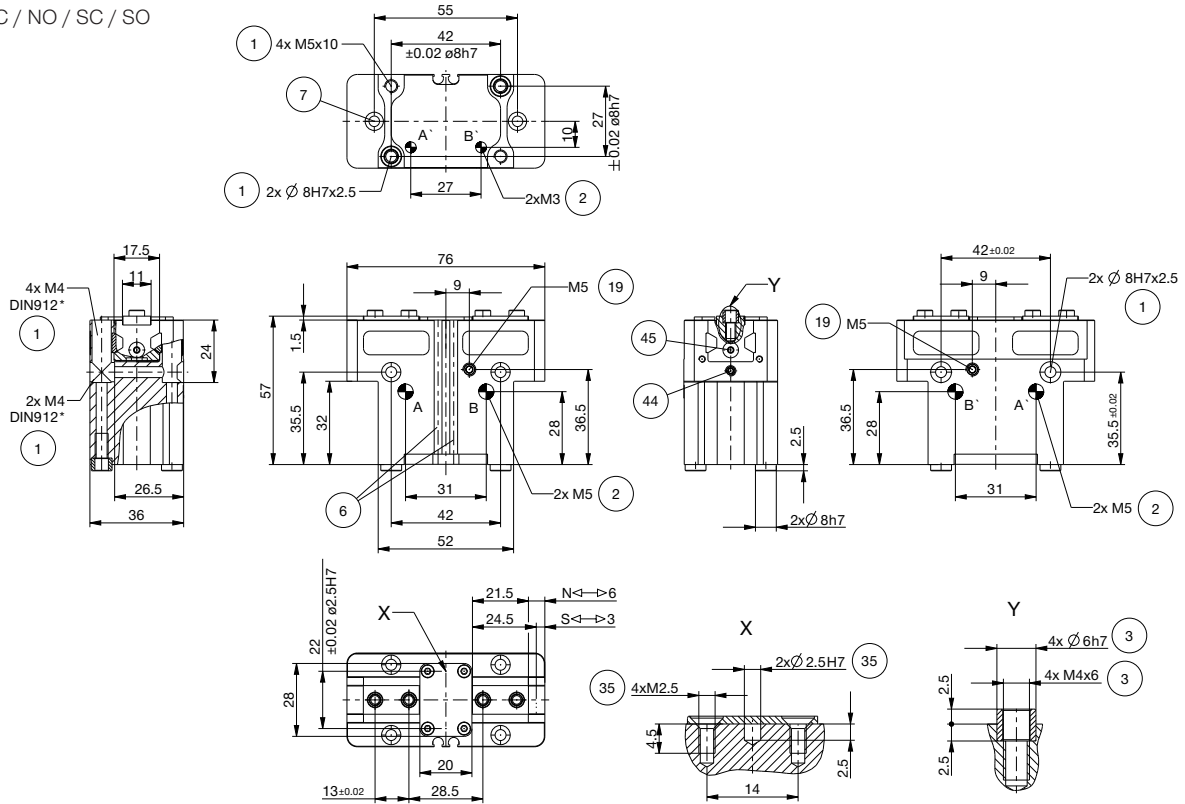
Order no.	GPP5006N-24-A	GPP5006NC-24-A	GPP5006NO-24-A	GPP5006S-24-A	GPP5006SC-24-A	GPP5006SO-24-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	0.37	0.44	0.44	0.37	0.44	0.44

*All data measured at 6 bar

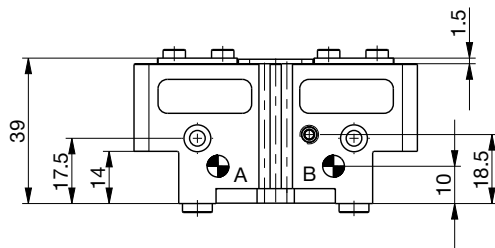
** with purged air (max. 0,5 bar)

TECHNICAL DRAWINGS

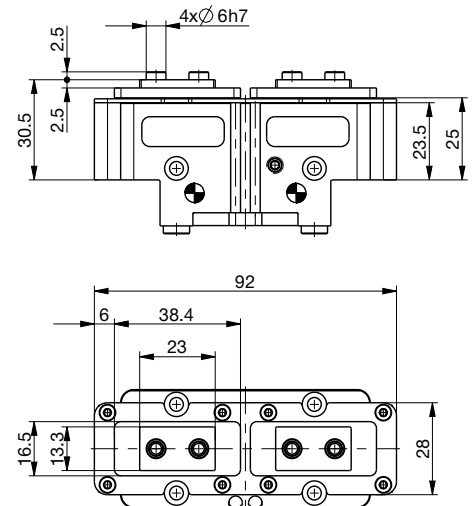
NC / NO / SC / SO



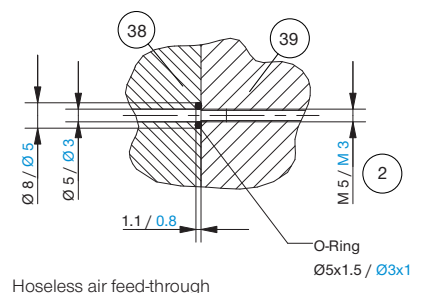
N / S



Protector version



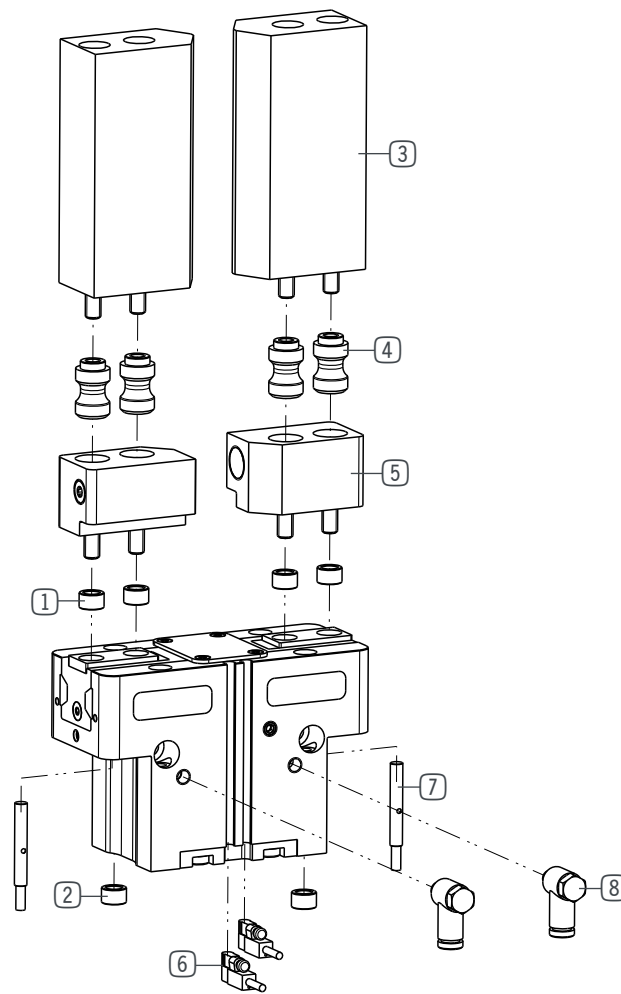
- ① Gripper attachment
- ② Energy supply
- ③ Fixing for gripper finger
- ⑥ Integrated slot for magnetic field sensor
- ⑦ Mounting block
- ⑱ Air purge connection option
- ⑳ Attachment option for customer-specific fittings
- ㉔ Adapter
- ㉙ Gripper
- ㉚ Clamp for sensor
- ㉛ Switch cam adjustment
- Ⓐ Air connection (close)
- Ⓑ Air connection (open)
- Ⓐ Air connection, alternative (close)
- Ⓑ Air connection, alternative (open)



Hoseless air feed-through

2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GPP5006



▶ INCLUDED IN DELIVERY



Centering Disc

024230



Centering Disc

024231

▶ RECOMMENDED ACCESSORIES



Universal jaw aluminium

UB5006AL



Universal jaw steel

UB5006ST



Aluminum adjustment jaw

EB5006AL



Steel adjustment jaw

EB5006ST



Changeable jaw, loose-part-set

WB5006L



Changeable jaw, fix-part

WB5006F



Inductive Proximity Switch Cable 0,3 m - Connector M8

NJ4-E2SK-01



Magnetic field sensor Angled Cable 0,3 m - Connector M8

MFS103SKHC



Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



2-Position-Sensor Cable 0,3 m - Connector M8

MFSP2SKHC-02



Plug-in connector Straight Cable 5m - Socket M8 (female)

KAG500



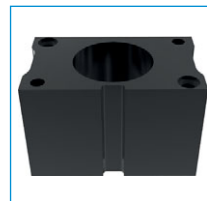
Angled Fittings - Quick Connect Style

WVM5



Pressure Safety Valve

DSV1-8



Compensation module N / S

ZUB5006PNS

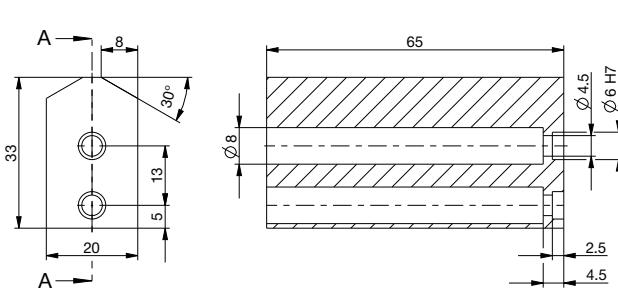


Compensation module NC / NO / SC / SO

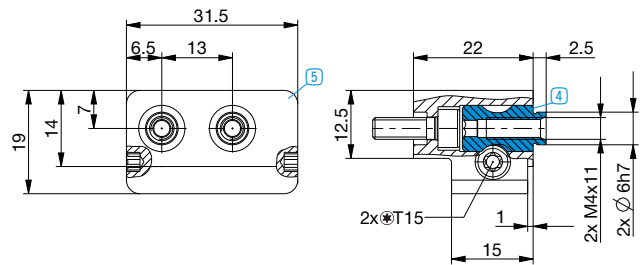
ZUB5006PCO

▶ TECHNICAL DRAWINGS ACCESSORIES

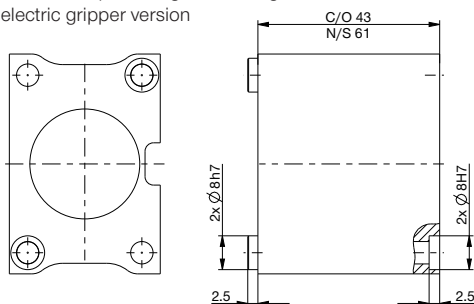
One universal jaw is required for each gripper jaw **(3)**



For each gripper jaw, one interchangeable jaw loose part set **(4)** and one interchangeable jaw fixed part **(5)** are needed



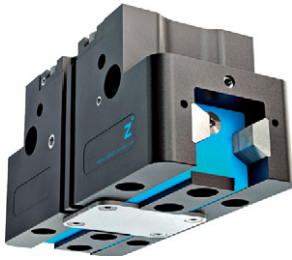
Compensation module for compensating for the height differences between the pneumatic and electric gripper version



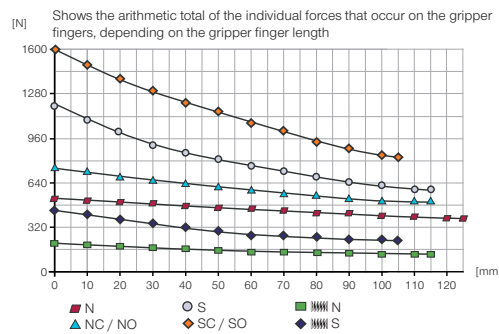
2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GPP5008

▶ PRODUCT SPECIFICATIONS

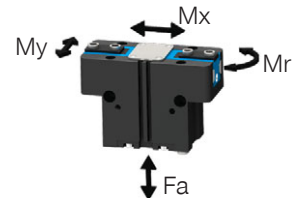


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	60
Mx [Nm]	105
My [Nm]	65
Fa [N]	1900

▶ TECHNICAL DATA

▶ Technical Data*

Order no.	GPP5008N-00-A	GPP5008NC-00-A	GPP5008NO-00-A	GPP5008S-00-A	GPP5008SC-00-A	GPP5008SO-00-A
Stroke per jaw [mm]	8	8	8	4	4	4
Gripping force in closing [N]	520	710		1150	1580	
Gripping force in opening [N]	560		750	1240		1670
Gripping force secured by spring min. [N]		190	190		430	430
Closing time [s]	0.035	0.025	0.045	0.035	0.025	0.045
Opening time [s]	0.035	0.045	0.025	0.035	0.045	0.025
Permissible weight per jaw max [kg]	0.7	0.7	0.7	0.7	0.7	0.7
Length of the gripper fingers max. [mm]	125	115	115	115	105	105
Repetition accuracy +/- [mm]	0.01	0.01	0.01	0.01	0.01	0.01
Operating pressure min. [bar]	3	4	4	3	4	4
Operating pressure max. [bar]	8	7	7	8	7	7
Operating temperature [°C]	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90
Air volume per cycle [cm³]	22	43	43	22	43	43
Protection to IEC 60529	IP64	IP64	IP64	IP64	IP64	IP64
Weight [kg]	0.53	0.63	0.63	0.53	0.63	0.63

▶ Technical Data - Protector Version

Order no.	GPP5008N-21-A	GPP5008NC-21-A	GPP5008NO-21-A	GPP5008S-21-A	GPP5008SC-21-A	GPP5008SO-21-A
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	0.66	0.76	0.76	0.66	0.76	0.76

▶ Technical Data - High Temperature Version

Order no.	GPP5008N-20-A	GPP5008NC-20-A	GPP5008NO-20-A	GPP5008S-20-A	GPP5008SC-20-A	GPP5008SO-20-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130

▶ Technical Data - High Temperature Protector Version

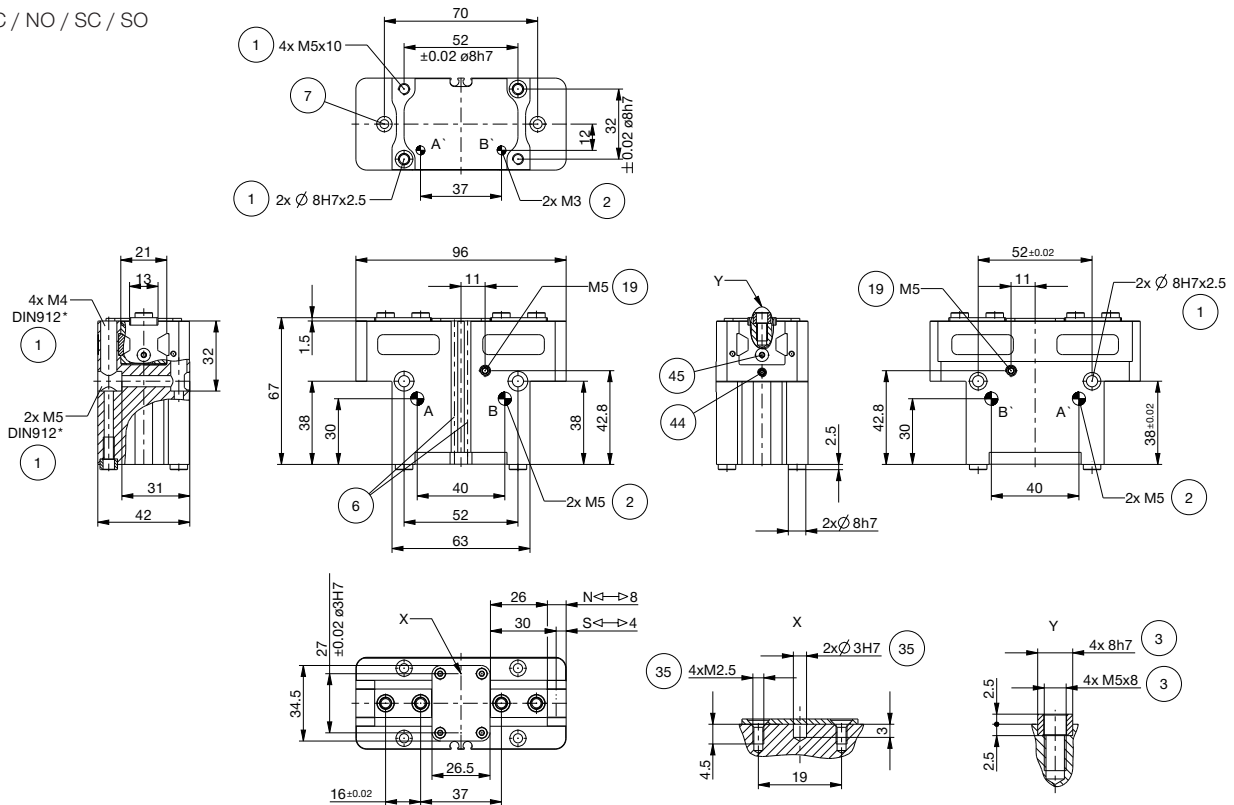
Order no.	GPP5008N-24-A	GPP5008NC-24-A	GPP5008NO-24-A	GPP5008S-24-A	GPP5008SC-24-A	GPP5008SO-24-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	0.66	0.76	0.76	0.66	0.76	0.76

*All data measured at 6 bar

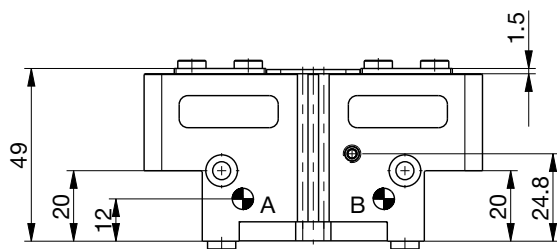
** with purged air (max. 0,5 bar)

TECHNICAL DRAWINGS

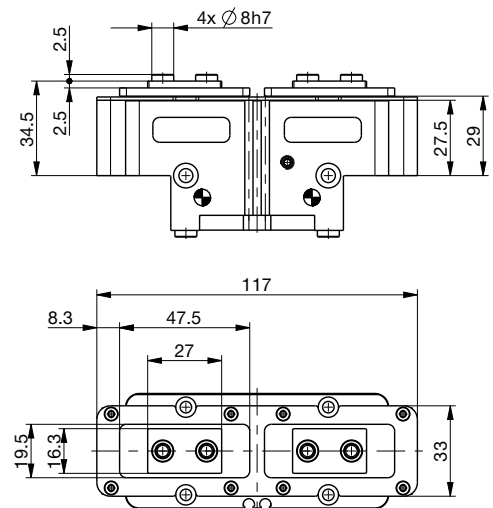
NC / NO / SC / SO



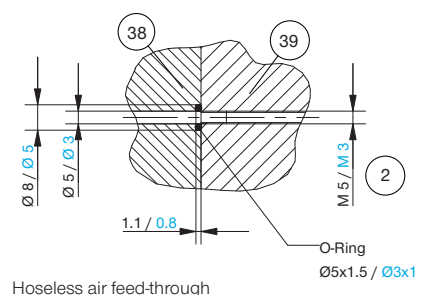
N / S



Protector version

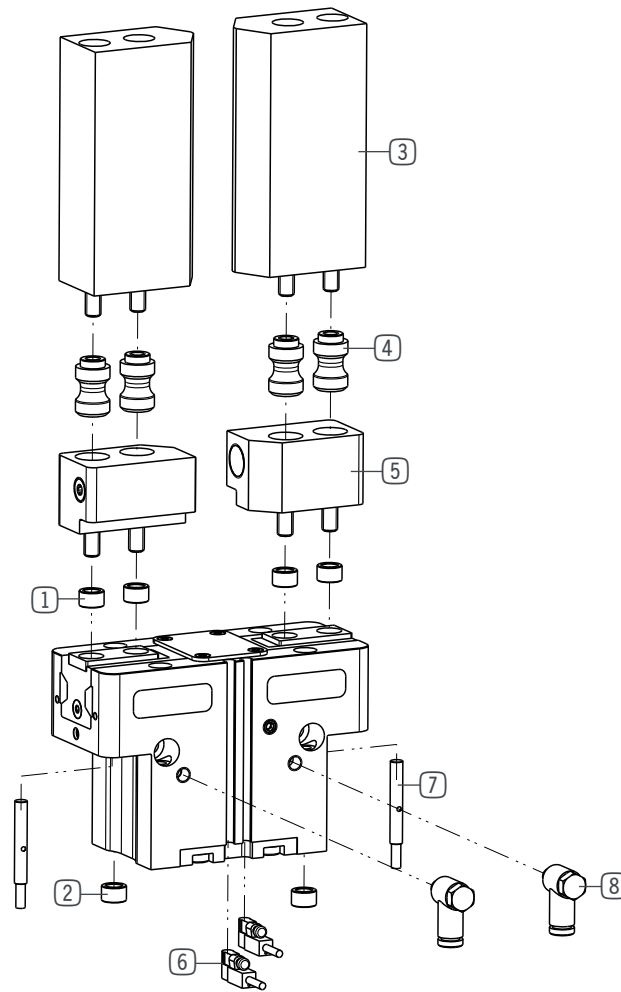


- ① Gripper attachment
- ② Energy supply
- ③ Fixing for gripper finger
- ⑥ Integrated slot for magnetic field sensor
- ⑦ Mounting block
- ⑱ Air purge connection option
- ⑳ Attachment option for customer-specific fittings
- ㉔ Adapter
- ㉙ Gripper
- ㉚ Clamp for sensor
- ㉛ Switch cam adjustment
- Ⓐ Air connection (close)
- Ⓑ Air connection (open)
- Ⓐ Air connection, alternative (close)
- Ⓑ Air connection, alternative (open)



2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GPP5008



▶ INCLUDED IN DELIVERY



Centering Disc

024231

▶ RECOMMENDED ACCESSORIES



Universal jaw aluminium

UB5008AL



Universal jaw steel

UB5008ST



Aluminum adjustment jaw

EB5008AL



Steel adjustment jaw

EB5008ST



Changeable jaw, loose-part-set

WB5008L



Changeable jaw, fix-part

WB5008F



Inductive Proximity Switch Cable 0,3 m - Connector M8

NJ4-E2SK-01



Magnetic field sensor Angled Cable 0,3 m - Connector M8

MFS103SKHC



Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



2-Position-Sensor Cable 0,3 m - Connector M8

MFSP2SKHC-02



Plug-in connector Straight Cable 5m - Socket M8 (female)

KAG500



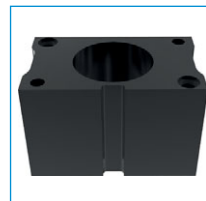
Angled Fittings - Quick Connect Style

WVM5



Pressure Safety Valve

DSV1-8



Compensation module N/S

ZUB5008PNS

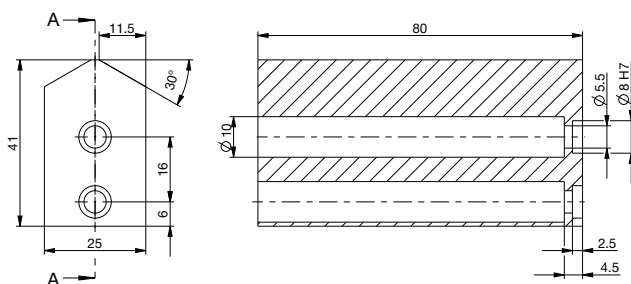


Compensation module NC/NO/SC/SO

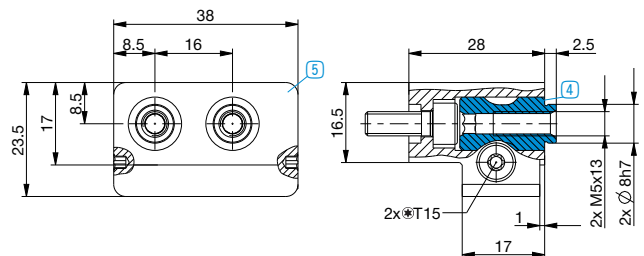
ZUB5008PCO

▶ TECHNICAL DRAWINGS ACCESSORIES

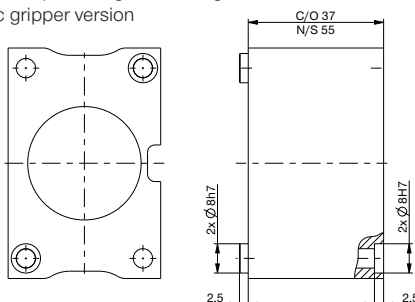
One universal jaw is required for each gripper jaw **3**



For each gripper jaw, one interchangeable jaw loose part set **4** and one interchangeable jaw fixed part **5** are needed



Compensation module for compensating for the height differences between the pneumatic and electric gripper version



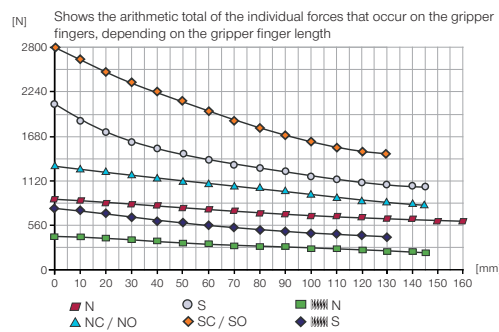
2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GPP5010

▶ PRODUCT SPECIFICATIONS

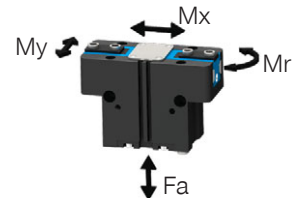


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	75
Mx [Nm]	125
My [Nm]	95
Fa [N]	2700

▶ TECHNICAL DATA

▶ Technical Data*

Order no.	GPP5010N-00-A	GPP5010NC-00-A	GPP5010NO-00-A	GPP5010S-00-A	GPP5010SC-00-A	GPP5010SO-00-A
Stroke per jaw [mm]	10	10	10	5	5	5
Gripping force in closing [N]	885	1260		1940	2750	
Gripping force in opening [N]	945		1320	2080		2890
Gripping force secured by spring min. [N]		375	375		810	810
Closing time [s]	0.06	0.05	0.08	0.06	0.05	0.08
Opening time [s]	0.06	0.08	0.05	0.06	0.08	0.05
Permissible weight per jaw max [kg]	1.3	1.3	1.3	1.3	1.3	1.3
Length of the gripper fingers max. [mm]	160	145	145	145	130	130
Repetition accuracy +/- [mm]	0.01	0.01	0.01	0.01	0.01	0.01
Operating pressure min. [bar]	3	4	4	3	4	4
Operating pressure max. [bar]	8	7	7	8	7	7
Operating temperature [°C]	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90
Air volume per cycle [cm³]	44	92	92	44	92	92
Protection to IEC 60529	IP64	IP64	IP64	IP64	IP64	IP64
Weight [kg]	0.87	1.09	1.09	0.87	1.09	1.09

▶ Technical Data - Protector Version

Order no.	GPP5010N-21-A	GPP5010NC-21-A	GPP5010NO-21-A	GPP5010S-21-A	GPP5010SC-21-A	GPP5010SO-21-A
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	0.99	1.31	1.31	0.99	1.31	1.31

▶ Technical Data - High Temperature Version

Order no.	GPP5010N-20-A	GPP5010NC-20-A	GPP5010NO-20-A	GPP5010S-20-A	GPP5010SC-20-A	GPP5010SO-20-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130

▶ Technical Data - High Temperature Protector Version

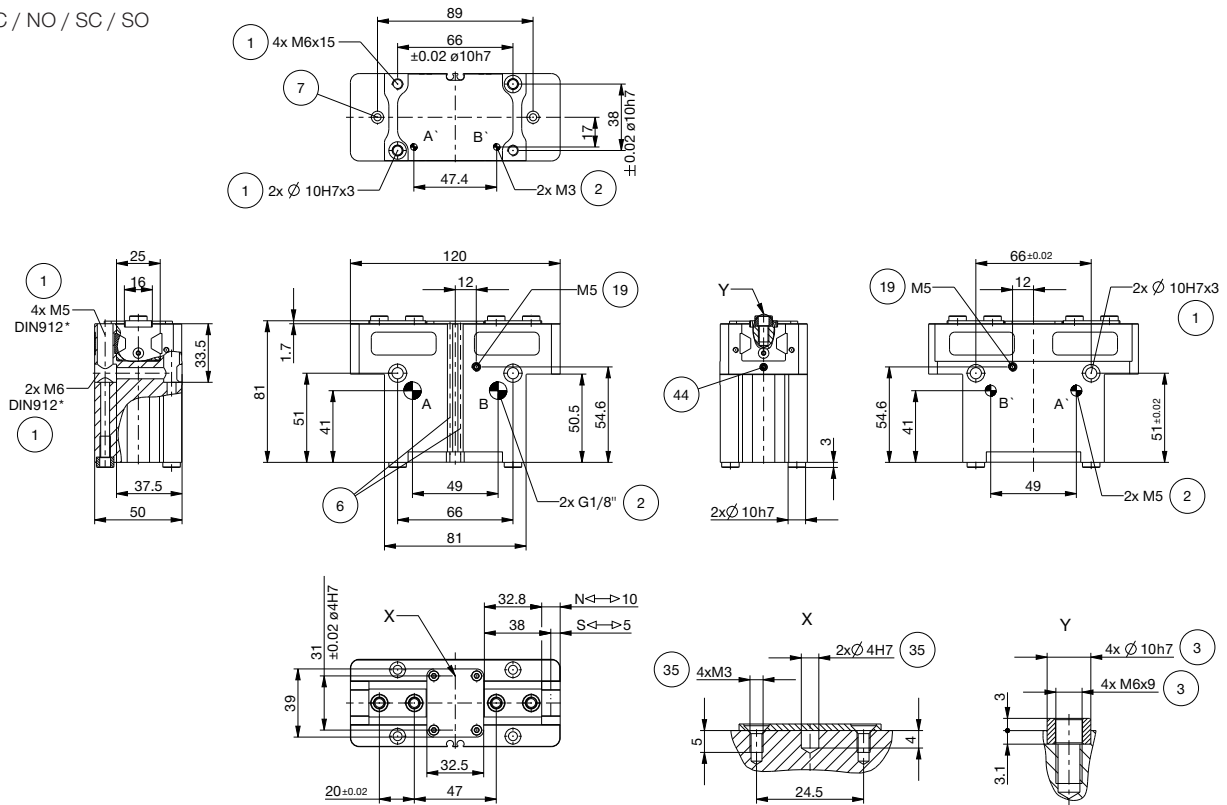
Order no.	GPP5010N-24-A	GPP5010NC-24-A	GPP5010NO-24-A	GPP5010S-24-A	GPP5010SC-24-A	GPP5010SO-24-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	0.99	1.31	1.31	0.99	1.31	1.31

*All data measured at 6 bar

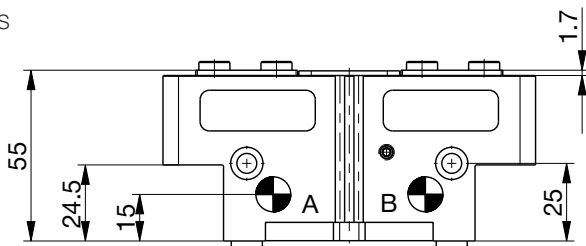
** with purged air (max. 0,5 bar)

TECHNICAL DRAWINGS

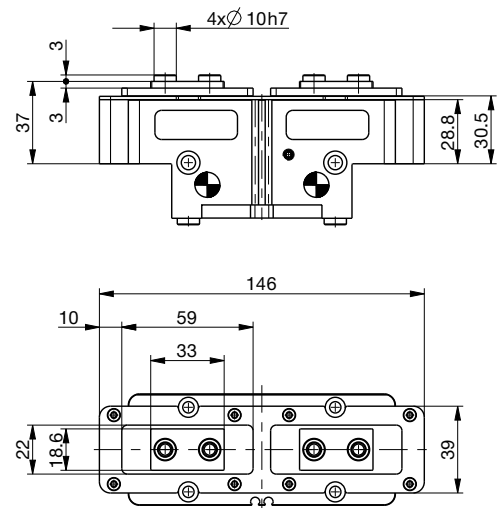
NC / NO / SC / SO



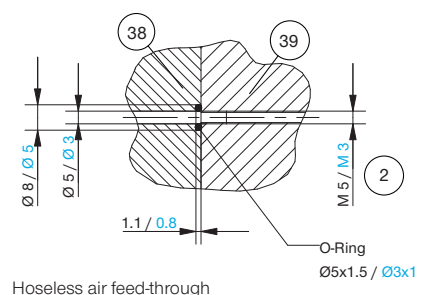
N / S



Protector version



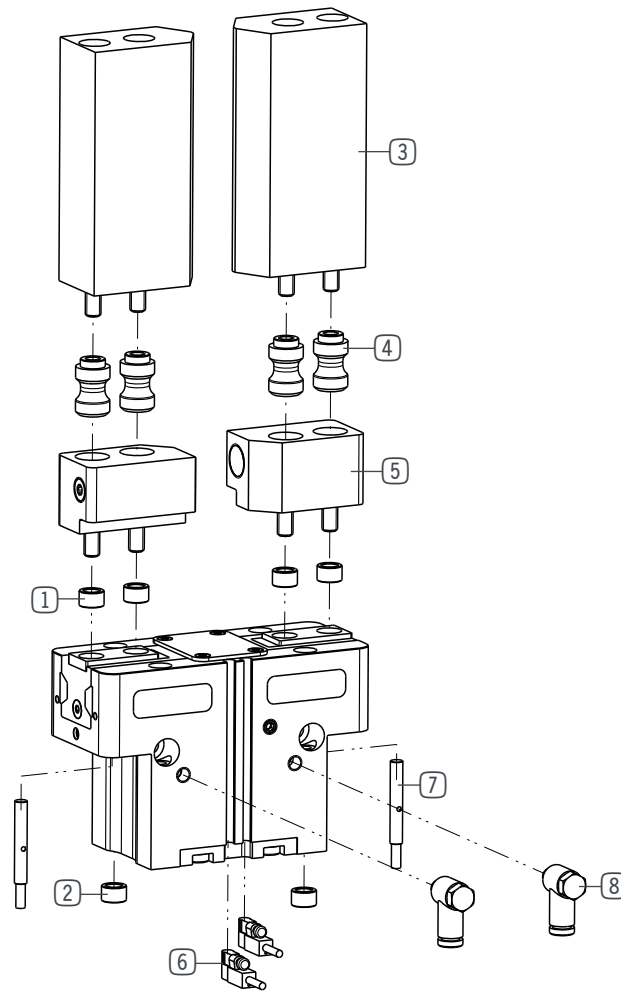
- ① Gripper attachment
- ② Energy supply
- ③ Fixing for gripper finger
- ⑥ Integrated slot for magnetic field sensor
- ⑦ Mounting block
- ⑱ Air purge connection option
- ⑳ Attachment option for customer-specific fittings
- ㉔ Adapter
- ㉙ Gripper
- ㉚ Clamp for sensor
- ㉛ Switch cam adjustment
- Ⓐ Air connection (close)
- Ⓑ Air connection (open)
- Ⓐ Air connection, alternative (close)
- Ⓑ Air connection, alternative (open)



Hoseless air feed-through

2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GPP5010



▶ INCLUDED IN DELIVERY



Centering Disc

018187

▶ RECOMMENDED ACCESSORIES



Universal jaw aluminium

UB5010AL



Universal jaw steel

UB5010ST



Aluminum adjustment jaw

EB5010AL



Steel adjustment jaw

EB5010ST



Changeable jaw, loose-part-set

WB5010L



Changeable jaw, fix-part

WB5010F



Inductive Proximity Switch Cable 0,3 m - Connector M8

NJ4-E2SK-01



Magnetic field sensor Angled Cable 0,3 m - Connector M8

MFS103SKHC



Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



2-Position-Sensor Cable 0,3 m - Connector M8

MFSP2SKHC-02



Plug-in connector Straight Cable 5m - Socket M8 (female)

KAG500



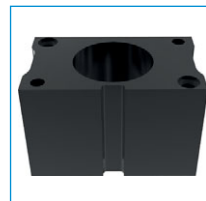
Angled Fittings - Quick Connect Style

WV1-8X6



Pressure Safety Valve

DSV1-8



Compensation module N / S

ZUB5010PNS

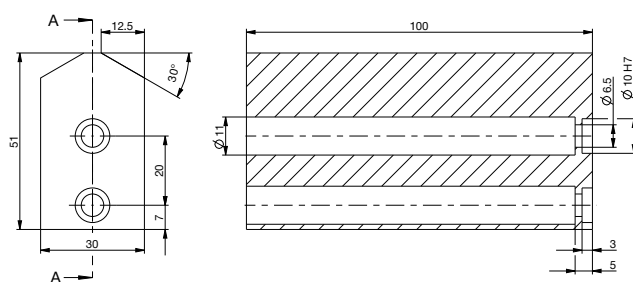


Compensation module NC / NO / SC / SO

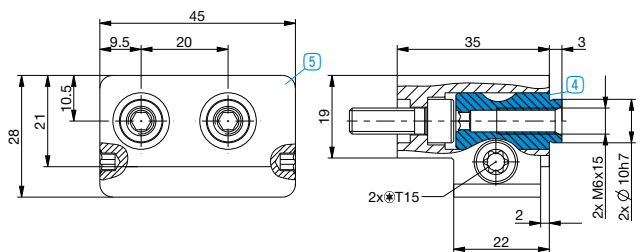
ZUB5010PCO

▶ TECHNICAL DRAWINGS ACCESSORIES

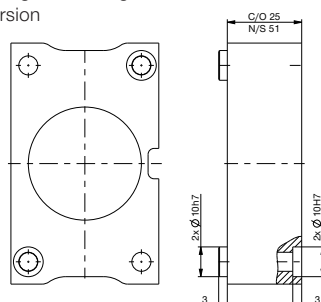
One universal jaw is required for each gripper jaw **3**



For each gripper jaw, one interchangeable jaw loose part set **4** and one interchangeable jaw fixed part **5** are needed



Compensation module for compensating for the height differences between the pneumatic and electric gripper version



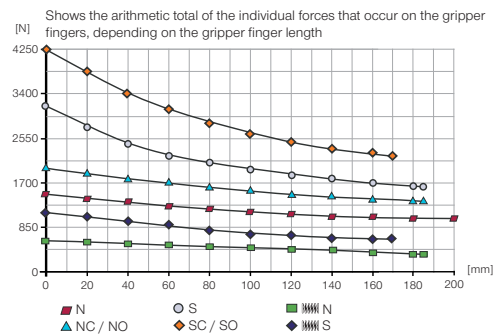
2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GPP5013

▶ PRODUCT SPECIFICATIONS

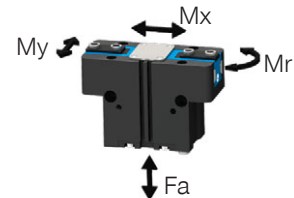


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	110
Mx [Nm]	150
My [Nm]	130
Fa [N]	3300

▶ TECHNICAL DATA

▶ Technical Data*

Order no.	GPP5013N-00-A	GPP5013NC-00-A	GPP5013NO-00-A	GPP5013S-00-A	GPP5013SC-00-A	GPP5013SO-00-A
Stroke per jaw [mm]	13	13	13	6	6	6
Gripping force in closing [N]	1410	1920		3100	4220	
Gripping force in opening [N]	1490		1860	3280		4400
Gripping force secured by spring min. [N]		510	510		1120	1120
Closing time [s]	0.09	0.07	0.11	0.09	0.07	0.11
Opening time [s]	0.09	0.11	0.08	0.09	0.11	0.08
Permissible weight per jaw max [kg]	2.4	2.4	2.4	2.4	2.4	2.4
Length of the gripper fingers max. [mm]	200	185	185	185	170	170
Repetition accuracy +/- [mm]	0.01	0.01	0.01	0.01	0.01	0.01
Operating pressure min. [bar]	3	4	4	3	4	4
Operating pressure max. [bar]	8	7	7	8	7	7
Operating temperature [°C]	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90
Air volume per cycle [cm³]	88	171	171	88	171	171
Protection to IEC 60529	IP64	IP64	IP64	IP64	IP64	IP64
Weight [kg]	1.5	1.9	1.9	1.5	1.9	1.9

▶ Technical Data - Protector Version

Order no.	GPP5013N-21-A	GPP5013NC-21-A	GPP5013NO-21-A	GPP5013S-21-A	GPP5013SC-21-A	GPP5013SO-21-A
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	1.86	2.26	2.26	1.86	2.26	2.26

▶ Technical Data - High Temperature Version

Order no.	GPP5013N-20-A	GPP5013NC-20-A	GPP5013NO-20-A	GPP5013S-20-A	GPP5013SC-20-A	GPP5013SO-20-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130

▶ Technical Data - High Temperature Protector Version

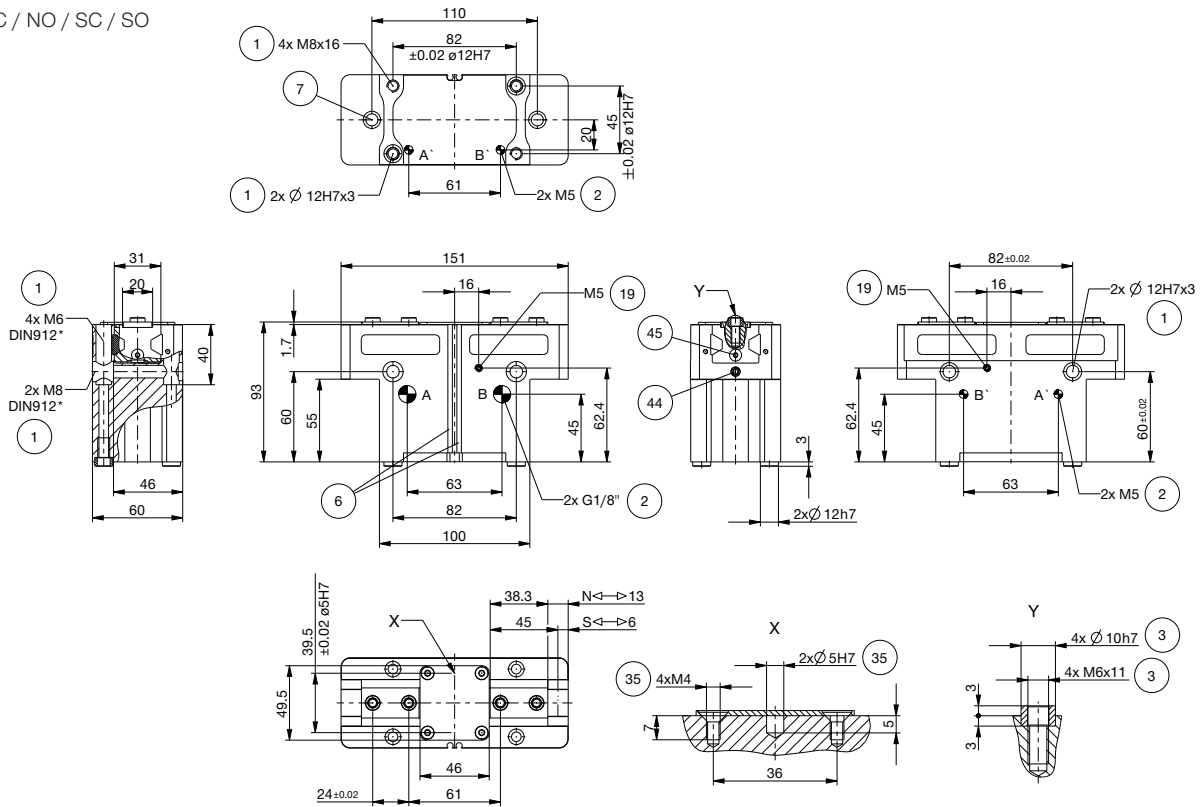
Order no.	GPP5013N-24-A	GPP5013NC-24-A	GPP5013NO-24-A	GPP5013S-24-A	GPP5013SC-24-A	GPP5013SO-24-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	1.86	2.26	2.26	1.86	2.26	2.26

*All data measured at 6 bar

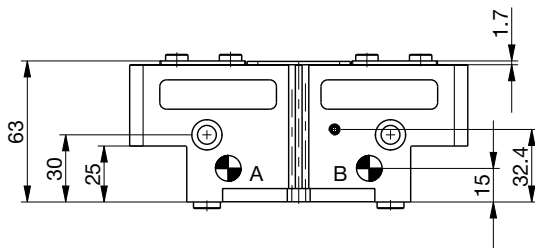
** with purged air (max. 0,5 bar)

TECHNICAL DRAWINGS

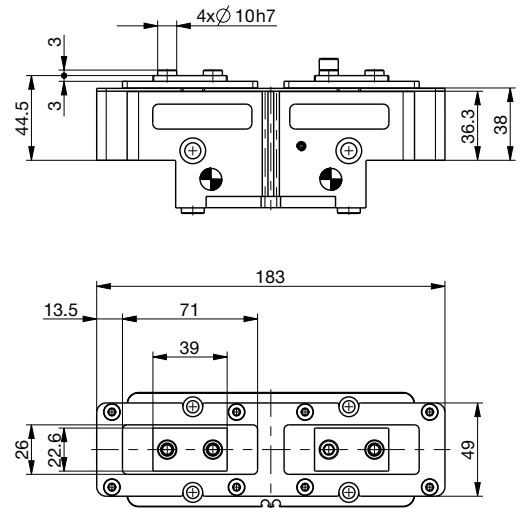
NC / NO / SC / SO



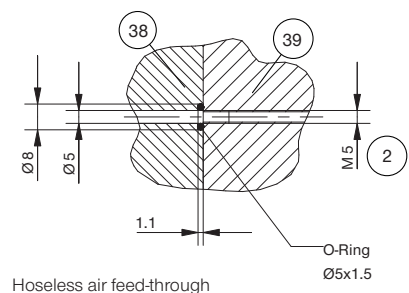
N / S



Protector version

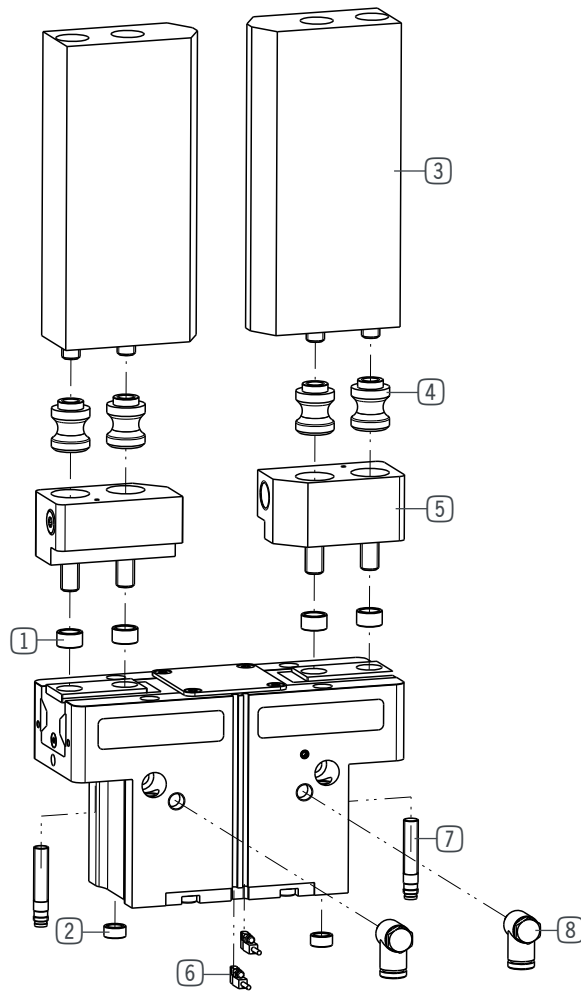


- | | |
|----------------------------------------------------|---------------------------------------|
| ① Gripper attachment | ③⑨ Gripper |
| ② Energy supply | ④④ Clamp for sensor |
| ③ Fixing for gripper finger | ④⑤ Switch cam adjustment |
| ⑥ Integrated slot for magnetic field sensor | Ⓐ Air connection (close) |
| ⑦ Mounting block | Ⓑ Air connection (open) |
| ⑱ Air purge connection option | Ⓐ Air connection, alternative (close) |
| ⑳ Attachment option for customer-specific fittings | Ⓑ Air connection, alternative (open) |
| ㉑ Adapter | |



2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GPP5013



▶ INCLUDED IN DELIVERY



Centering Disc

018187



Centering Disc

019280

▶ RECOMMENDED ACCESSORIES



Universal jaw aluminium

UB5013AL



Universal jaw steel

UB5013ST



Aluminum adjustment jaw

EB5013AL



Steel adjustment jaw

EB5013ST



Changeable jaw, loose-part-set

WB5013L



Changeable jaw, fix-part

WB5013F



Inductive proximity switch - Connector M8

NJ8-E2S



Magnetic field sensor Angled Cable 0,3 m - Connector M8

MFS103SKHC



Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



2-Position-Sensor Cable 0,3 m - Connector M8

MFSP2SKHC-02



Plug-in connector Straight Cable 5m - Socket M8 (female)

KAG500



Plug-in connector customizable Straight - Connector M8

S8-G-3



Angled Fittings - Quick Connect Style

WV1-8X6



Quick Exhaust Valve

DEV06

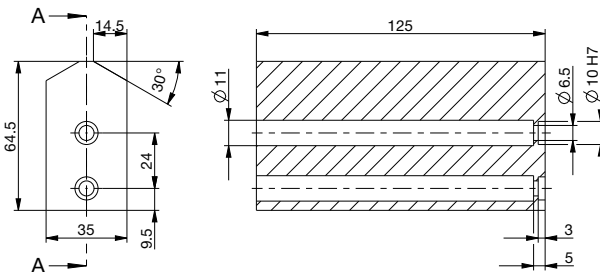


Pressure Safety Valve

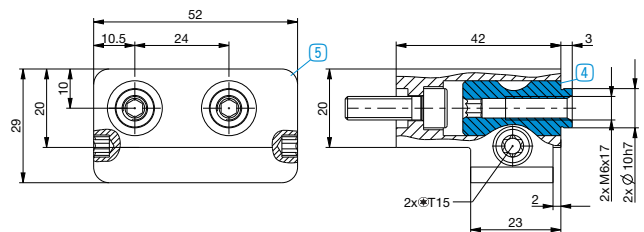
DSV1-8

▶ TECHNICAL DRAWINGS ACCESSORIES

One universal jaw is required for each gripper jaw **3** A-A



For each gripper jaw, one interchangeable jaw loose part set **4** and one interchangeable jaw fixed part **5** are needed



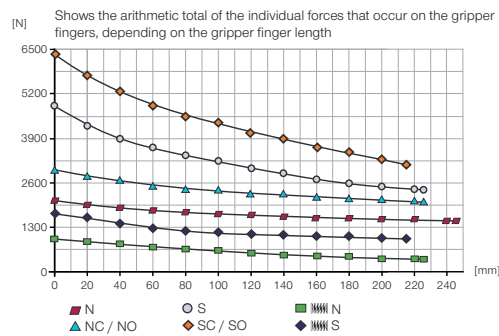
2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GPP5016

▶ PRODUCT SPECIFICATIONS

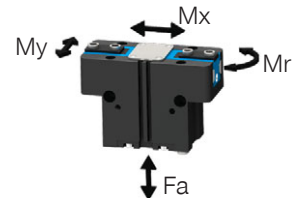


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	145
Mx [Nm]	195
My [Nm]	185
Fa [N]	5200

▶ TECHNICAL DATA

▶ Technical Data*

Order no.	GPP5016N-00-A	GPP5016NC-00-A	GPP5016NO-00-A	GPP5016S-00-A	GPP5016SC-00-A	GPP5016SO-00-A
Stroke per jaw [mm]	16	16	16	8	8	8
Gripping force in closing [N]	2090	2860		4610	6310	
Gripping force in opening [N]	2220		2990	4900		6600
Gripping force secured by spring min. [N]		770	770		1700	1700
Closing time [s]	0.13	0.11	0.24	0.13	0.11	0.24
Opening time [s]	0.13	0.24	0.11	0.13	0.24	0.11
Permissible weight per jaw max [kg]	3.8	3.8	3.8	3.8	3.8	3.8
Length of the gripper fingers max. [mm]	245	225	225	225	215	215
Repetition accuracy +/- [mm]	0.01	0.01	0.01	0.01	0.01	0.01
Operating pressure min. [bar]	3	4	4	3	4	4
Operating pressure max. [bar]	8	7	7	8	7	7
Operating temperature [°C]	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90
Air volume per cycle [cm³]	166	332	332	166	332	332
Protection to IEC 60529	IP64	IP64	IP64	IP64	IP64	IP64
Weight [kg]	2.9	3.7	3.7	2.9	3.7	3.7

▶ Technical Data - Protector Version

Order no.	GPP5016N-21-A	GPP5016NC-21-A	GPP5016NO-21-A	GPP5016S-21-A	GPP5016SC-21-A	GPP5016SO-21-A
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	3.6	4.4	4.4	3.6	4.4	4.4

▶ Technical Data - High Temperature Version

Order no.	GPP5016N-20-A	GPP5016NC-20-A	GPP5016NO-20-A	GPP5016S-20-A	GPP5016SC-20-A	GPP5016SO-20-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130

▶ Technical Data - High Temperature Protector Version

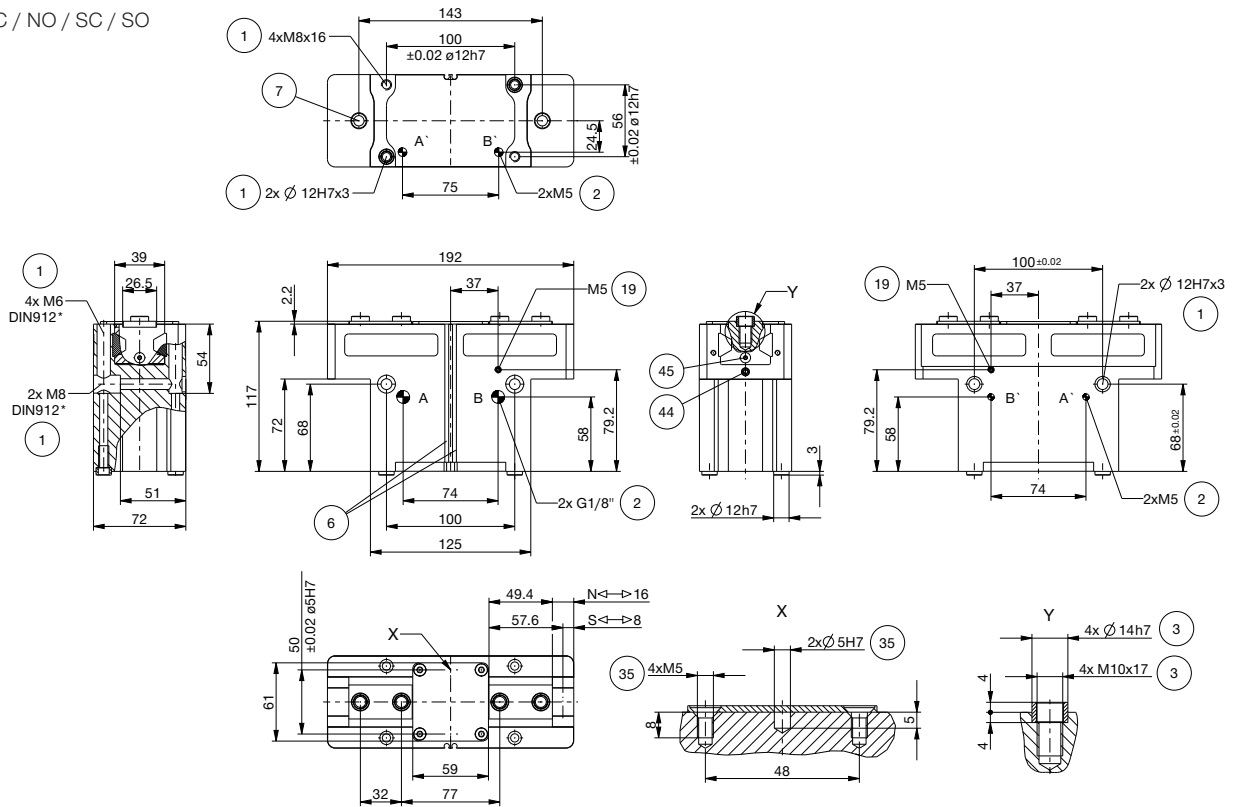
Order no.	GPP5016N-24-A	GPP5016NC-24-A	GPP5016NO-24-A	GPP5016S-24-A	GPP5016SC-24-A	GPP5016SO-24-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	3.6	4.4	4.4	3.6	4.4	4.4

*All data measured at 6 bar

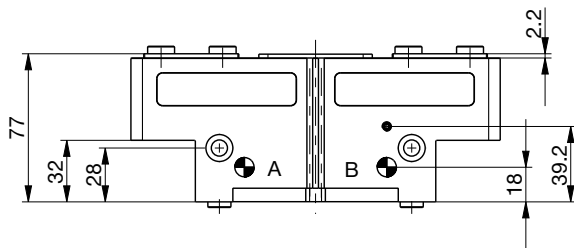
** with purged air (max. 0,5 bar)

TECHNICAL DRAWINGS

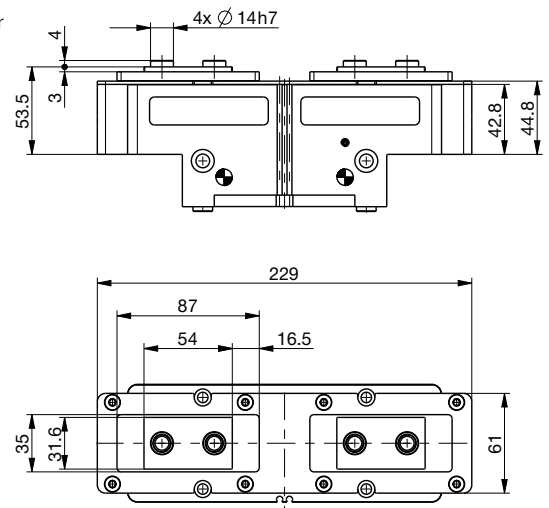
NC / NO / SC / SO



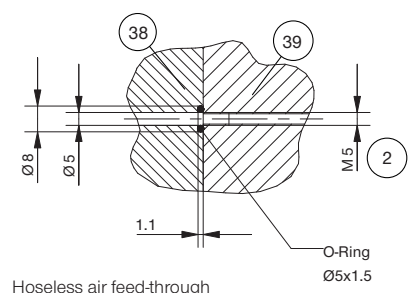
N / S



Protector version



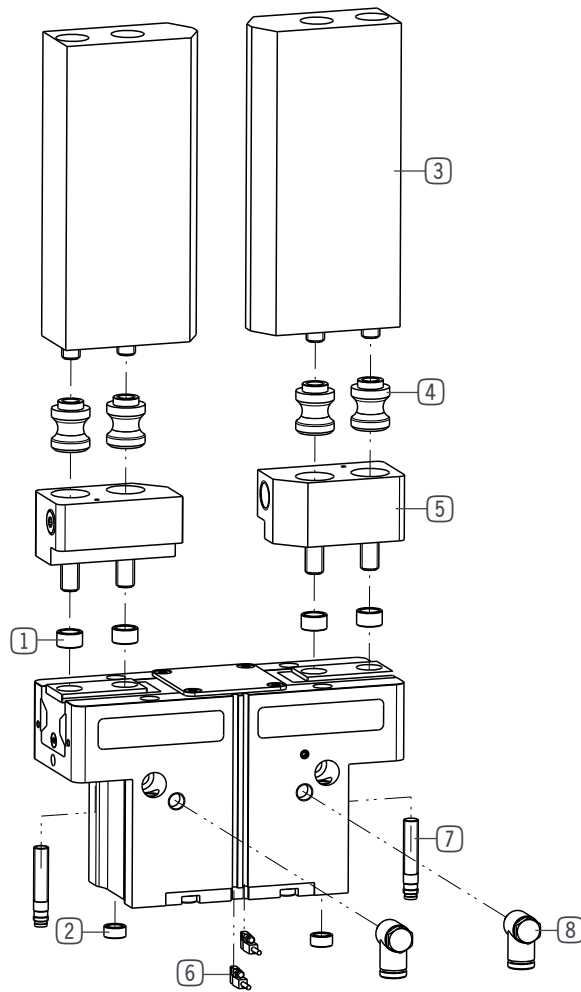
- ① Gripper attachment
- ② Energy supply
- ③ Fixing for gripper finger
- ⑥ Integrated slot for magnetic field sensor
- ⑦ Mounting block
- ⑱ Air purge connection option
- ⑳ Attachment option for customer-specific fittings
- ㉔ Adapter
- ㉙ Gripper
- ㉚ Clamp for sensor
- ㉛ Switch cam adjustment
- Ⓐ Air connection (close)
- Ⓑ Air connection (open)
- Ⓐ Air connection, alternative (close)
- Ⓑ Air connection, alternative (open)



Hoseless air feed-through

2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GPP5016



▶ INCLUDED IN DELIVERY



Centering Disc

019387



Centering Disc

019280

▶ RECOMMENDED ACCESSORIES



Universal jaw aluminium

UB5016AL



Universal jaw steel

UB5016ST



Aluminum adjustment jaw

EB5016AL



Steel adjustment jaw

EB5016ST



Changeable jaw, loose part set

WB5016L



Changeable jaw, fix-part

WB5016F



Inductive proximity switch - Connector M8

NJ8-E2S



Magnetic field sensor Angled Cable 0,3 m - Connector M8

MFS103SKHC



Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



2-Position-Sensor Cable 0,3 m - Connector M8

MFSP2SKHC-02



Plug-in connector Straight Cable 5m - Socket M8 (female)

KAG500



Plug-in connector customizable Straight - Connector M8

S8-G-3



Angled Fittings - Quick Connect Style

WV1-8X8



Quick Exhaust Valve

DEV08

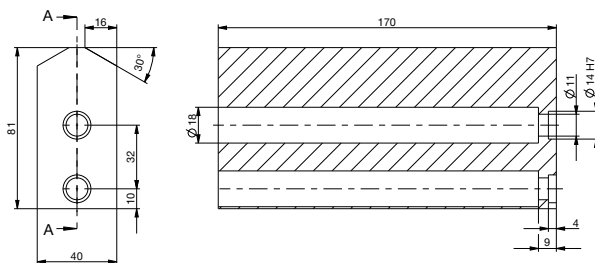


Pressure Safety Valve

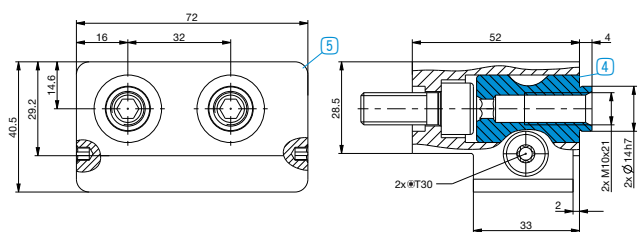
DSV1-8

▶ TECHNICAL DRAWINGS ACCESSORIES

One universal jaw is required for each gripper jaw **3**



For each gripper jaw, one interchangeable jaw loose part set **4** and one interchangeable jaw fixed part **5** are needed



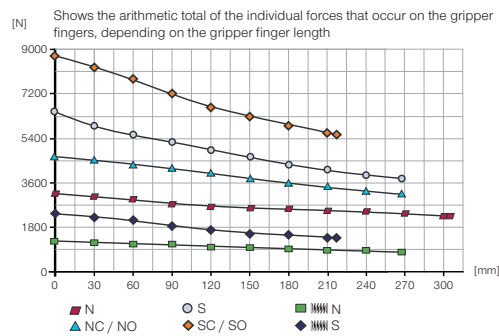
2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GPP5025

▶ PRODUCT SPECIFICATIONS

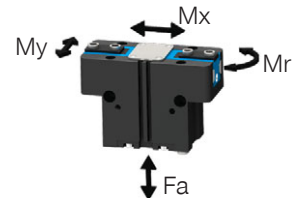


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	180
Mx [Nm]	205
My [Nm]	225
Fa [N]	7500

▶ TECHNICAL DATA

▶ Technical Data*

Order no.	GPP5025N-00-A	GPP5025NC-00-A	GPP5025NO-00-A	GPP5025S-00-A	GPP5025SC-00-A	GPP5025SO-00-A
Stroke per jaw [mm]	25	25	25	14	14	14
Gripping force in closing [N]	3280	4510		6360	8730	
Gripping force in opening [N]	3490		4710	6760		9130
Gripping force secured by spring min. [N]		1220	1220		2370	2370
Closing time [s]	0.33	0.28	0.57	0.33	0.28	0.57
Opening time [s]	0.33	0.57	0.28	0.33	0.57	0.28
Permissible weight per jaw max [kg]	7	7	7	7	7	7
Length of the gripper fingers max. [mm]	310	265	265	265	220	220
Repetition accuracy +/- [mm]	0.02	0.02	0.02	0.02	0.02	0.02
Operating pressure min. [bar]	3	4	4	3	4	4
Operating pressure max. [bar]	8	7	7	8	7	7
Operating temperature [°C]	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90
Air volume per cycle [cm³]	420	830	830	420	830	830
Protection to IEC 60529	IP64	IP64	IP64	IP64	IP64	IP64
Weight [kg]	6.1	7.65	7.65	6.1	7.65	7.65

▶ Technical Data - Protector Version

Order no.	GPP5025N-21-A	GPP5025NC-21-A	GPP5025NO-21-A	GPP5025S-21-A	GPP5025SC-21-A	GPP5025SO-21-A
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	7.20	8.75	8.75	7.2	8.75	8.75

▶ Technical Data - High Temperature Version

Order no.	GPP5025N-20-A	GPP5025NC-20-A	GPP5025NO-20-A	GPP5025S-20-A	GPP5025SC-20-A	GPP5025SO-20-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130

▶ Technical Data - High Temperature Protector Version

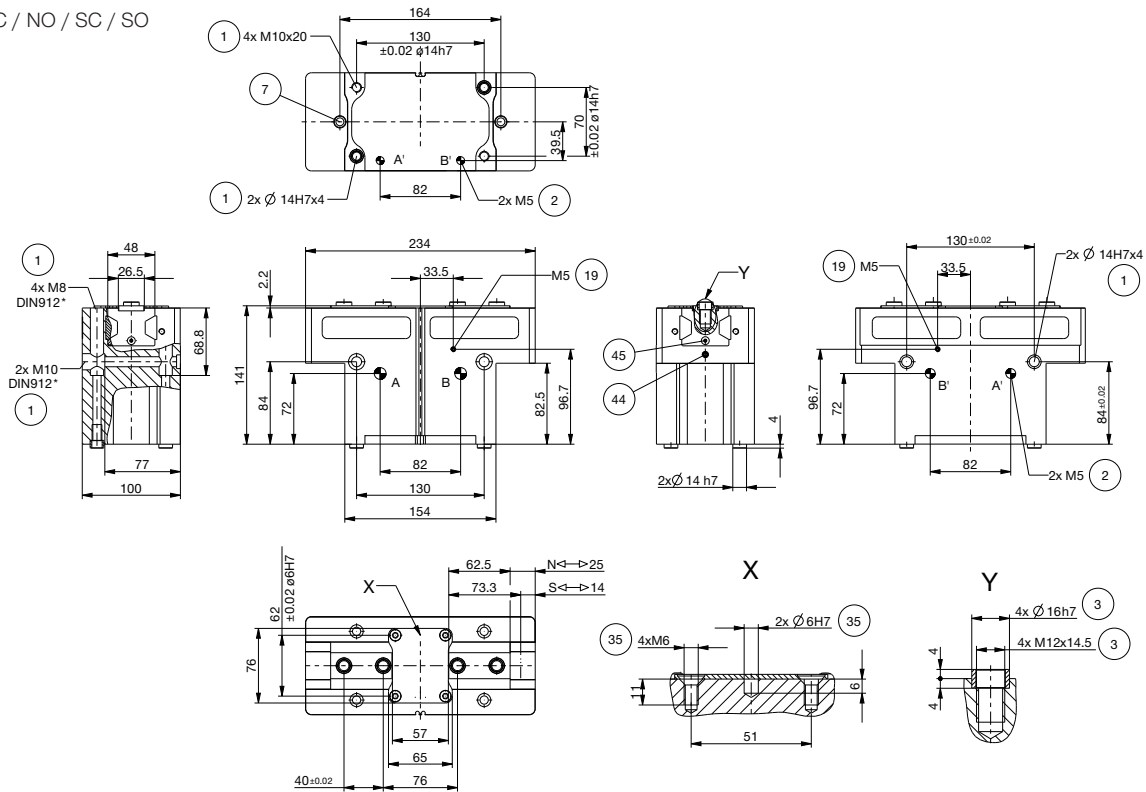
Order no.	GPP5025N-24-A	GPP5025NC-24-A	GPP5025NO-24-A	GPP5025S-24-A	GPP5025SC-24-A	GPP5025SO-24-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	7.20	8.75	8.75	7.2	8.75	8.75

*All data measured at 6 bar

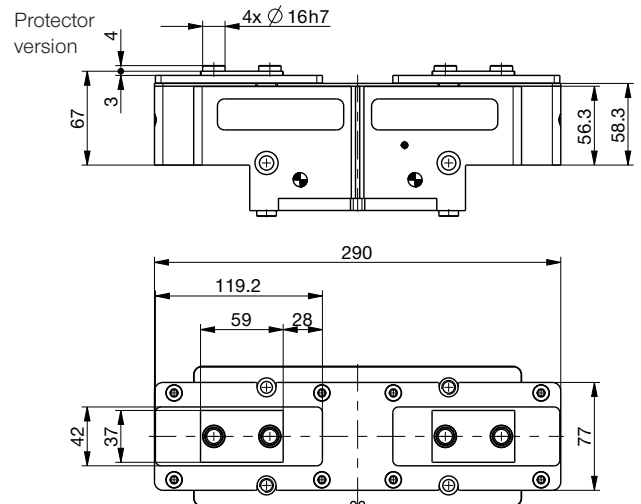
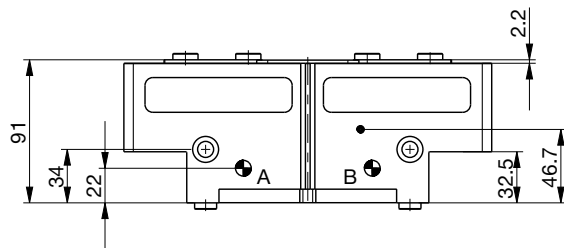
** with purged air (max. 0,5 bar)

TECHNICAL DRAWINGS

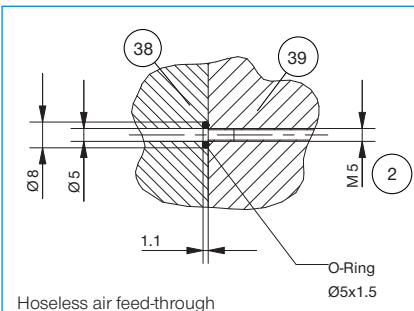
NC / NO / SC / SO



N / S



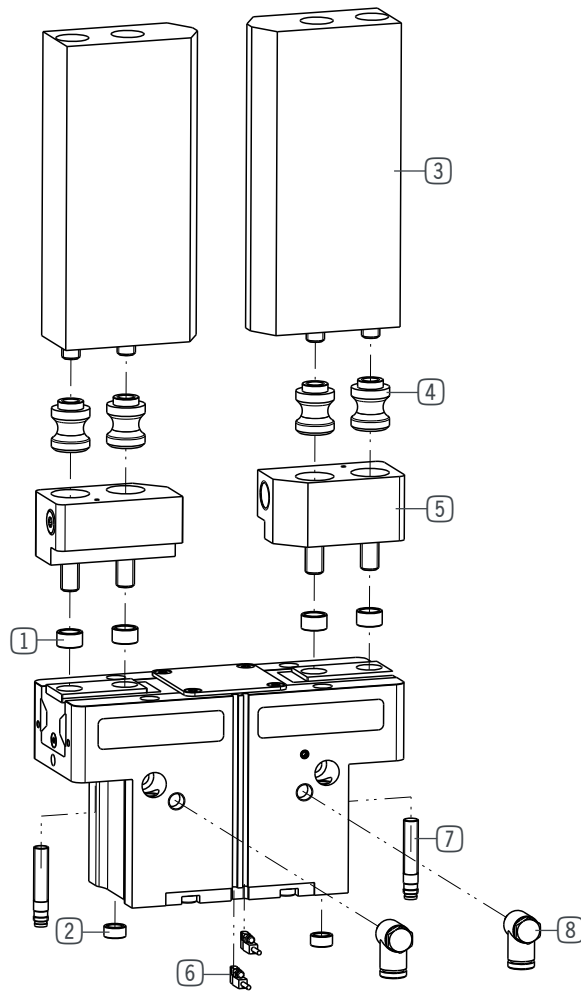
- ① Gripper attachment
- ② Energy supply
- ③ Fixing for gripper finger
- ⑥ Integrated slot for magnetic field sensor
- ⑦ Mounting block
- ⑱ Air purge connection option
- ⑳ Attachment option for customer-specific fittings
- ㉔ Adapter
- ㉙ Gripper
- ㉚ Clamp for sensor
- ㉛ Switch cam adjustment
- Ⓐ Air connection (close)
- Ⓑ Air connection (open)
- Ⓐ Air connection, alternative (close)
- Ⓑ Air connection, alternative (open)



Hoseless air feed-through

2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GPP5025



▶ INCLUDED IN DELIVERY



Centering Disc

030529



Centering Disc

019387

▶ RECOMMENDED ACCESSORIES



Universal jaw aluminium

UB5025AL



Universal jaw steel

UB5025ST



Aluminum adjustment jaw

EB5025AL



Steel adjustment jaw

EB5025ST



Changeable jaw, loose-part-set

WB5025L



Changeable jaw, fix-part

WB5025F



Inductive proximity switch - Connector M8

NJ8-E2S



Magnetic field sensor Angled Cable 0,3 m - Connector M8

MFS103SKHC



Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



2-Position-Sensor Cable 0,3 m - Connector M8

MFSP2SKHC-02



Plug-in connector Straight Cable 5m - Socket M8 (female)

KAG500



Plug-in connector customizable Straight - Connector M8

S8-G-3



Angled Fittings - Quick Connect Style

WV1-8X8



Quick Exhaust Valve

DEV08



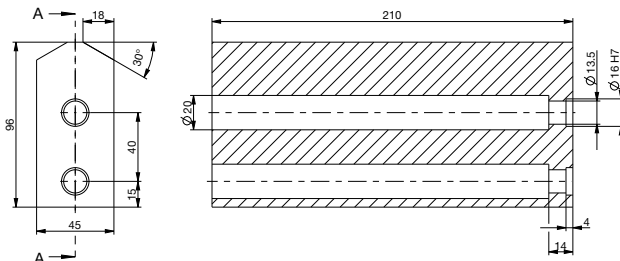
Pressure Safety Valve

DSV1-8

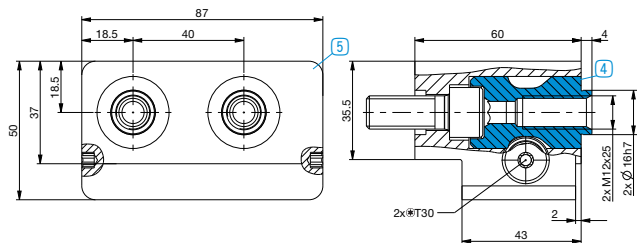
▶ TECHNICAL DRAWINGS ACCESSORIES

One universal jaw is required for each gripper jaw **3**

A-A



For each gripper jaw, one interchangeable jaw loose part set **4** and one interchangeable jaw fixed part **5** are needed



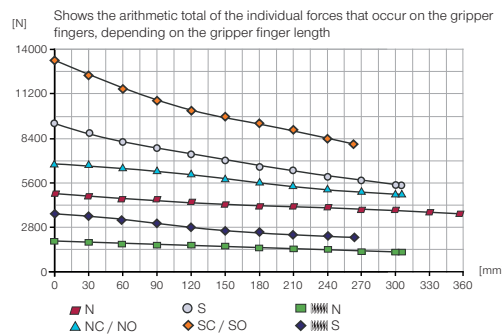
2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GPP5030

▶ PRODUCT SPECIFICATIONS

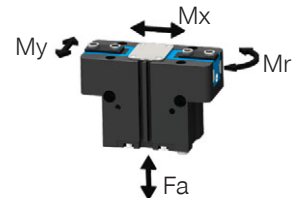


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	210
Mx [Nm]	290
My [Nm]	310
Fa [N]	9500

▶ TECHNICAL DATA

▶ Technical Data*

Order no.	GPP5030N-00-A	GPP5030NC-00-A	GPP5030NO-00-A	GPP5030S-00-A	GPP5030SC-00-A	GPP5030SO-00-A
Stroke per jaw [mm]	30	30	30	17	17	17
Gripping force in closing [N]	5000	6850		9600	13160	
Gripping force in opening [N]	5210		7060	9990		13550
Gripping force secured by spring min. [N]		1850	1850		3560	3560
Closing time [s]	0.4	0.35	0.65	0.4	0.35	0.65
Opening time [s]	0.4	0.65	0.35	0.4	0.65	0.35
Permissible weight per jaw max [kg]	9.5	9.5	9.5	9.5	9.5	9.5
Length of the gripper fingers max. [mm]	355	305	305	305	260	260
Repetition accuracy +/- [mm]	0.04	0.04	0.04	0.04	0.04	0.04
Operating pressure min. [bar]	3	4	4	3	4	4
Operating pressure max. [bar]	8	7	7	8	7	7
Operating temperature [°C]	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90
Air volume per cycle [cm³]	745	1430	1430	745	1430	1430
Protection to IEC 60529	IP64	IP64	IP64	IP64	IP64	IP64
Weight [kg]	9.2	12	12	9.2	12	12

▶ Technical Data - Protector Version

Order no.	GPP5030N-21-A	GPP5030NC-21-A	GPP5030NO-21-A	GPP5030S-21-A	GPP5030SC-21-A	GPP5030SO-21-A
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	10.9	13.7	13.7	10.9	13.7	13.7

▶ Technical Data - High Temperature Version

Order no.	GPP5030N-20-A	GPP5030NC-20-A	GPP5030NO-20-A	GPP5030S-20-A	GPP5030SC-20-A	GPP5030SO-20-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130

▶ Technical Data - High Temperature Protector Version

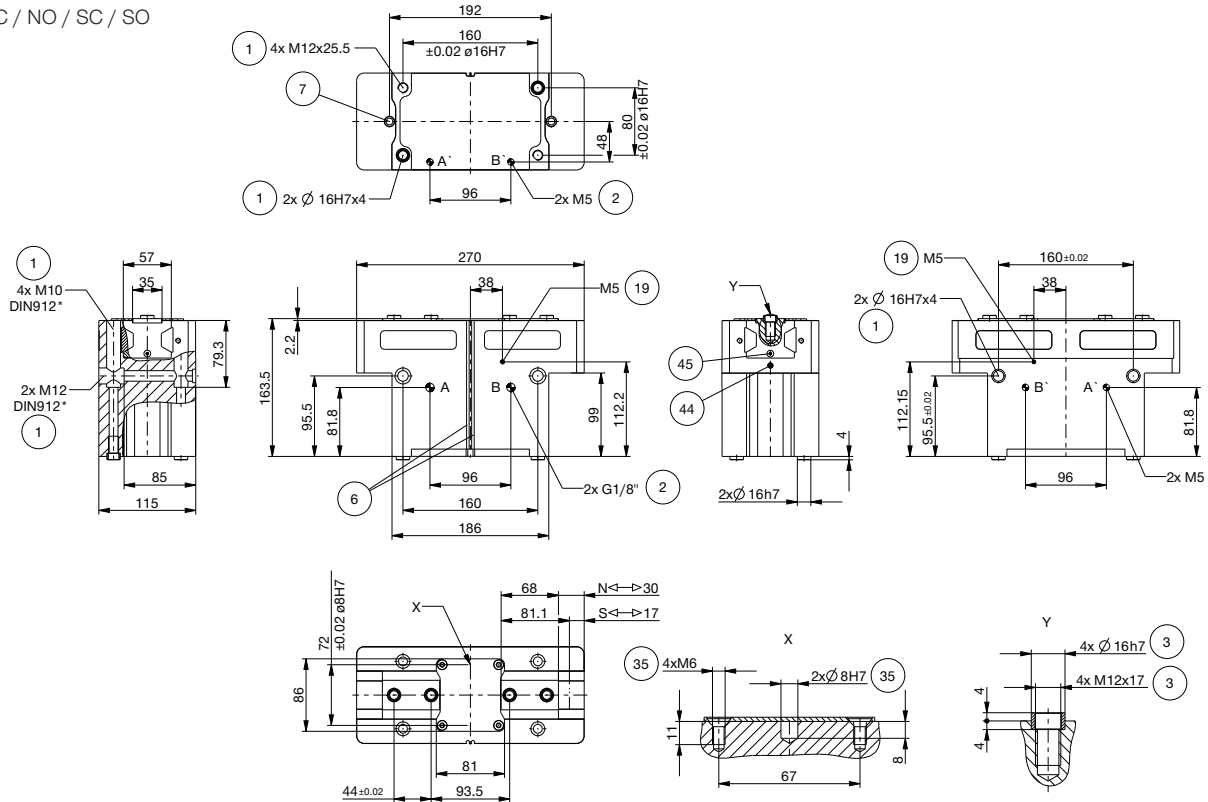
Order no.	GPP5030N-24-A	GPP5030NC-24-A	GPP5030NO-24-A	GPP5030S-24-A	GPP5030SC-24-A	GPP5030SO-24-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	10.9	13.7	13.7	10.9	13.7	13.7

*All data measured at 6 bar

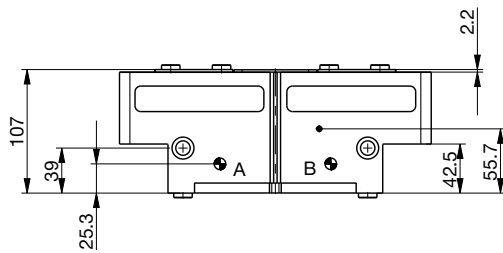
** with purged air (max. 0,5 bar)

TECHNICAL DRAWINGS

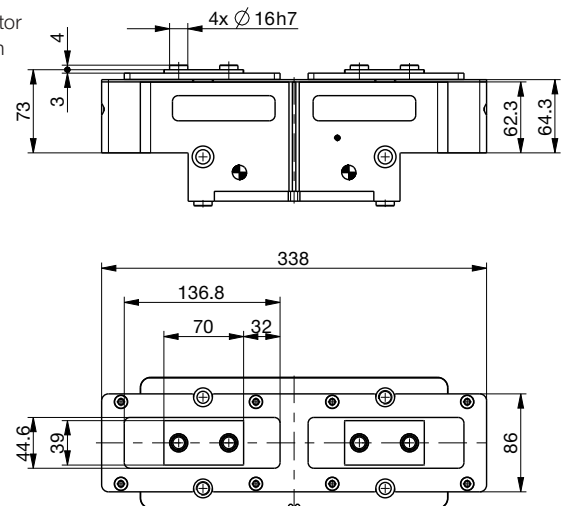
NC / NO / SC / SO



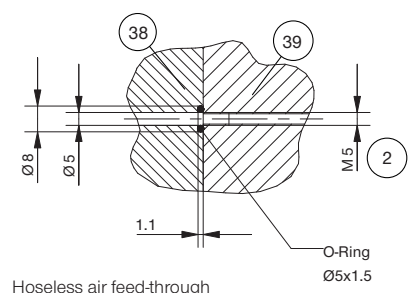
N / S



Protector version



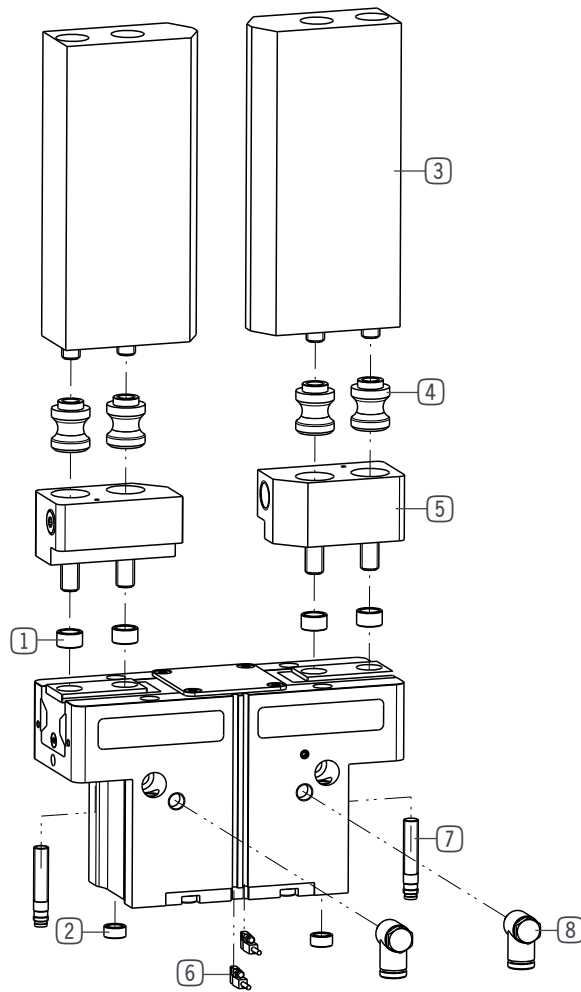
- ① Gripper attachment
- ② Energy supply
- ③ Fixing for gripper finger
- ⑥ Integrated slot for magnetic field sensor
- ⑦ Mounting block
- ⑱ Air purge connection option
- ⑳ Attachment option for customer-specific fittings
- ㉔ Adapter
- ㉙ Gripper
- ㉚ Clamp for sensor
- ㉛ Switch cam adjustment
- Ⓐ Air connection (close)
- Ⓑ Air connection (open)
- Ⓐ Air connection, alternative (close)
- Ⓑ Air connection, alternative (open)



Hoseless air feed-through

2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GPP5030



▶ INCLUDED IN DELIVERY



Centering Disc

030529

▶ RECOMMENDED ACCESSORIES



Universal jaw aluminium

UB5030AL



Universal jaw steel

UB5030ST



Aluminum adjustment jaw

EB5030AL



Steel adjustment jaw

EB5030ST



Changeable jaw, loose-part-set

WB5030L



Changeable jaw, fix-part

WB5030F



Inductive proximity switch - Connector M8

NJ8-E2S



Magnetic field sensor Angled Cable 0,3 m - Connector M8

MFS103SKHC



Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



2-Position-Sensor Cable 0,3 m - Connector M8

MFSP2SKHC-02



Plug-in connector Straight Cable 5m - Socket M8 (female)

KAG500



Plug-in connector customizable Straight - Connector M8

S8-G-3



Angled Fittings - Quick Connect Style

WV1-8X8



Quick Exhaust Valve

DEV08



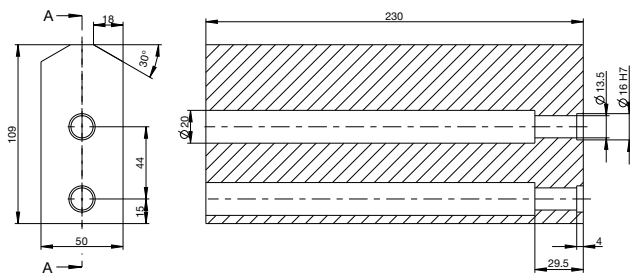
Pressure Safety Valve

DSV1-8

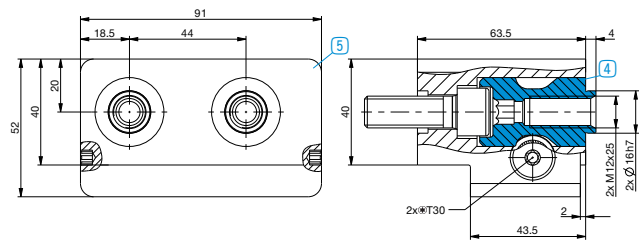
▶ TECHNICAL DRAWINGS ACCESSORIES

One universal jaw is required for each gripper jaw **3**

A-A



For each gripper jaw, one interchangeable jaw loose part set **4** and one interchangeable jaw fixed part **5** are needed



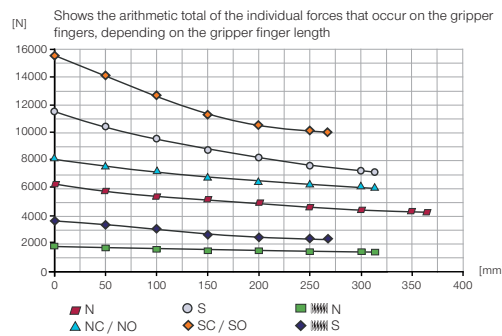
2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GPP5035

PRODUCT SPECIFICATIONS

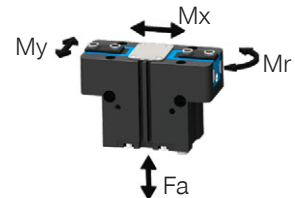


Gripping force diagram



Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	260
Mx [Nm]	430
My [Nm]	450
Fa [N]	10400

TECHNICAL DATA

Technical Data*

Order no.	GPP5035N-00-A	GPP5035NC-00-A	GPP5035NO-00-A	GPP5035S-00-A	GPP5035SC-00-A	GPP5035SO-00-A
Stroke per jaw [mm]	35	35	35	20	20	20
Gripping force in closing [N]	6100	8000		11700	15500	
Gripping force in opening [N]	6300		8200	12100		15900
Gripping force secured by spring min. [N]		1900	1900		3700	3700
Closing time [s]	0.5	0.4	0.7	0.5	0.4	0.7
Opening time [s]	0.5	0.7	0.4	0.5	0.7	0.4
Permissible weight per jaw max [kg]	12.5	12.5	12.5	12.5	12.5	12.5
Length of the gripper fingers max. [mm]	365	315	315	315	260	260
Repetition accuracy +/- [mm]	0.05	0.05	0.05	0.05	0.05	0.05
Operating pressure min. [bar]	3	4	4	3	4	4
Operating pressure max. [bar]	8	6.5	6.5	8	6.5	6.5
Operating temperature [°C]	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90
Air volume per cycle [cm³]	1185	2075	2075	1185	2075	2075
Protection to IEC 60529	IP64	IP64	IP64	IP64	IP64	IP64
Weight [kg]	15.8	18.6	18.6	16.1	18.9	18.9

Technical Data - High Temperature Version

Order no.	GPP5035N-20-A	GPP5035NC-20-A	GPP5035NO-20-A	GPP5035S-20-A	GPP5035SC-20-A	GPP5035SO-20-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130

Technical Data - Protector Version

Order no.	GPP5035N-21-A	GPP5035NC-21-A	GPP5035NO-21-A	GPP5035S-21-A	GPP5035SC-21-A	GPP5035SO-21-A
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	20.2	23	23	20.5	23.3	23.3

Technical Data - High Temperature Protector Version

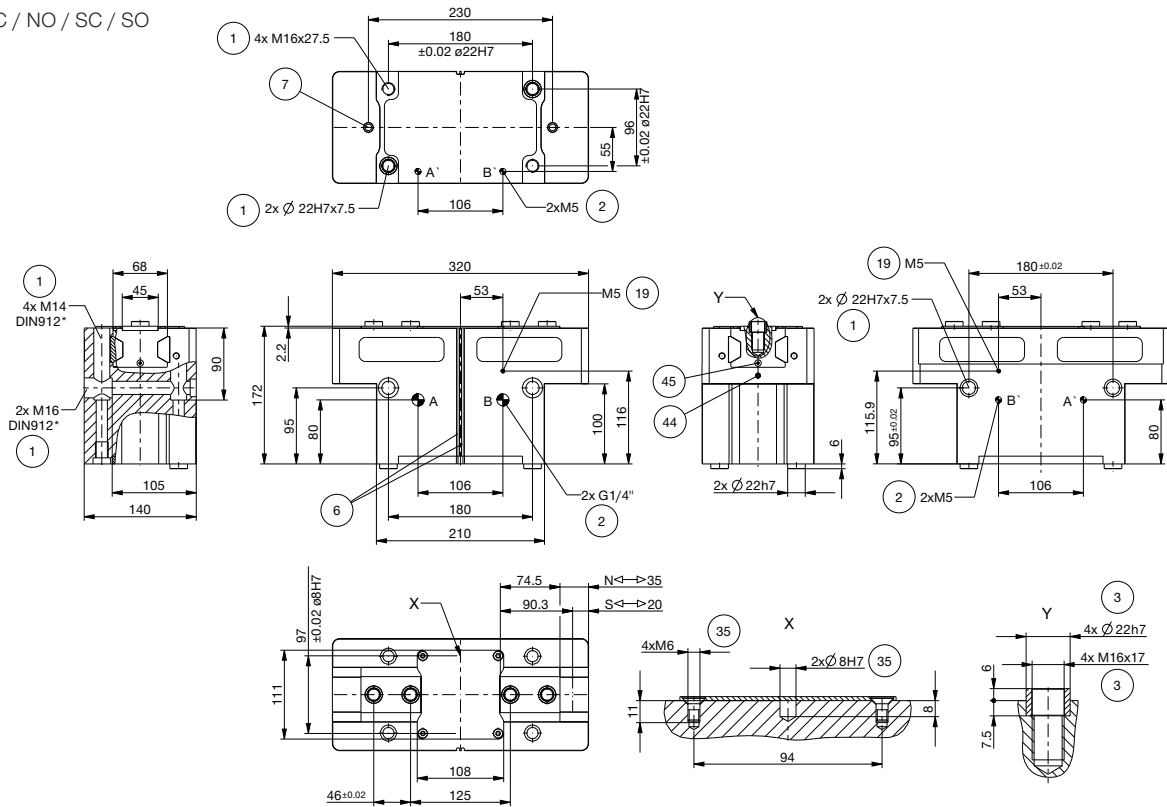
Order no.	GPP5035N-24-A	GPP5035NC-24-A	GPP5035NO-24-A	GPP5035S-24-A	GPP5035SC-24-A	GPP5035SO-24-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	20.2	23	23	20.5	23.3	23.3

*All data measured at 6 bar

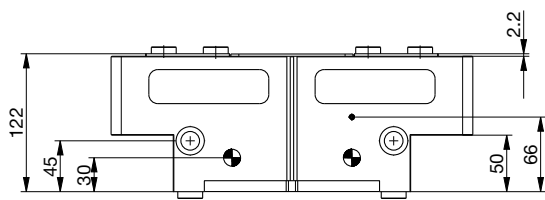
** with purged air (max. 0,5 bar)

TECHNICAL DRAWINGS ACCESSORIES

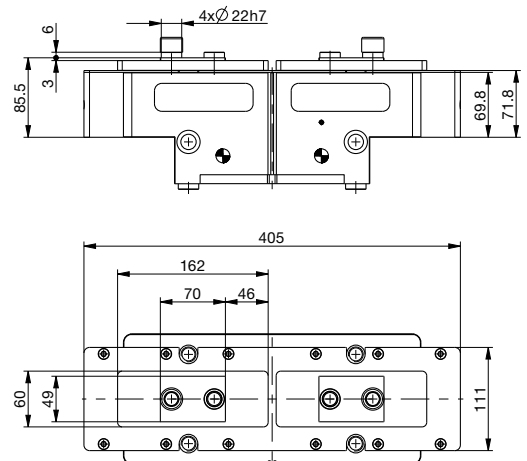
NC / NO / SC / SO



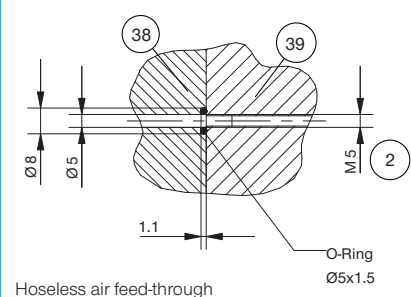
N / S



Protector version



- | | |
|-----------------------------------------------------|---------------------------------------|
| ① Gripper attachment | ③⑨ Gripper |
| ② Energy supply | ④④ Clamp for sensor |
| ③ Fixing for gripper finger | ④⑤ Switch cam adjustment |
| ⑥ Integrated slot for magnetic field sensor | ④ Air connection (close) |
| ⑦ Mounting block | ④ Air connection (open) |
| ①⑨ Air purge connection option | ④ Air connection, alternative (close) |
| ③⑤ Attachment option for customer-specific fittings | ④ Air connection, alternative (open) |
| ③⑧ Adapter | |

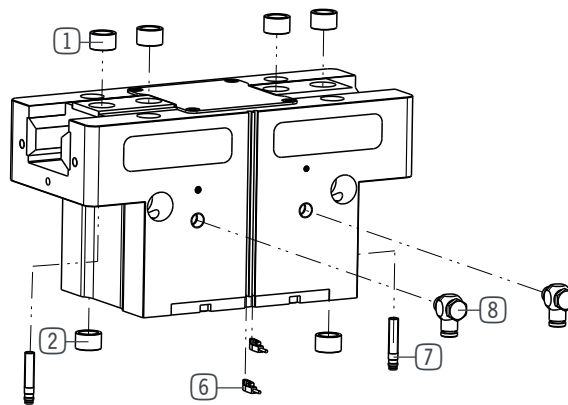


2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GPP5035

1

Installation size GPP5035 / 2-Jaw Parallel Grippers / pneumatic / Grippers



▶ INCLUDED IN DELIVERY



Centering Disc

035358

▶ RECOMMENDED ACCESSORIES



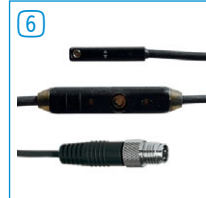
Inductive proximity switch - Connector M8
NJ8-E2S



Magnetic field sensor Angled Cable 0,3 m - Connector M8
MFS103SKHC



Magnetic field sensor Straight Cable 0,3 m - Connector M8
MFS204SKHC



2-Position-Sensor Cable 0,3 m - Connector M8
MFSP2SKHC-02



Plug-in connector Straight Cable 5m - Socket M8 (female)
KAG500



Plug-in connector customizable Straight - Connector M8
S8-G-3



Straight Fittings - Quick Connect Style
GV1-4X8



Angled Fittings - Quick Connect Style
WV1-4X8



Quick Exhaust Valve
DEV04



Pressure Safety Valve
DSV1-8

2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GPP5045

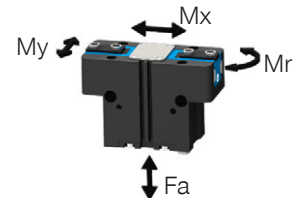
COMING
SOON

▶ PRODUCT SPECIFICATIONS



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	390
Mx [Nm]	580
My [Nm]	600
Fa [N]	11500

▶ TECHNICAL DATA

Order no.	▶ Technical Data*					
	GPP5045N-00-A	GPP5045NC-00-A	GPP5045NO-00-A	GPP5045S-00-A	GPP5045SC-00-A	GPP5045SO-00-A
Stroke per jaw [mm]	45	45	45	26	26	26
Gripping force in closing [N]	10200	13700		19400	26050	
Gripping force in opening [N]	10700		14200	20300		26950
Gripping force secured by spring min. [N]		3500	3500		6650	6650
Closing time [s]	0.55	0.45	0.7	0.55	0.45	0.7
Opening time [s]	0.55	0.7	0.45	0.55	0.7	0.45
Permissible weight per jaw max [kg]	17	17	17	17	17	17
Length of the gripper fingers max. [mm]	400	350	350	350	300	300
Repetition accuracy +/- [mm]	0.05	0.05	0.05	0.05	0.05	0.05
Operating pressure min. [bar]	3	4	4	3	4	4
Operating pressure max. [bar]	8	6.5	6.5	8	6.5	6.5
Operating temperature [°C]	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90
Air volume per cycle [cm³]	2420	4400	4400	2420	4400	4400
Protection to IEC 60529	IP64	IP64	IP64	IP64	IP64	IP64
Weight [kg]	33	40.5	40.5	34	41.5	41.5

Order no.	▶ Technical Data - High Temperature Version					
	GPP5045N-20-A	GPP5045NC-20-A	GPP5045NO-20-A	GPP5045S-20-A	GPP5045SC-20-A	GPP5045SO-20-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130

Order no.	▶ Technical Data - Protector Version					
	GPP5045N-21-A	GPP5045NC-21-A	GPP5045NO-21-A	GPP5045S-21-A	GPP5045SC-21-A	GPP5045SO-21-A
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	41.5	49	49	42.5	50	50

Order no.	▶ Technical Data - High Temperature Protector Version					
	GPP5045N-24-A	GPP5045NC-24-A	GPP5045NO-24-A	GPP5045S-24-A	GPP5045SC-24-A	GPP5045SO-24-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	41.5	49	49	42.5	50	50




*All data measured at 6 bar

** with purged air (max. 0,5 bar)

2-JAW PARALLEL GRIPPERS

OVERVIEW OF SERIES



▶ ELECTRICAL		
	Series GEP9000	132
	Series GEP1400	138
	Series GEP5000	144

2-JAW PARALLEL GRIPPERS

SERIES GEP9000

1

Series GEP9000 / 2-Jaw Parallel Grippers / electric / Grippers

▶ PRODUCT ADVANTAGES



“The quickest”

▶ Plug and play

Reduce programming and assembly costs to a minimum with the integrated control system and the 3 position query

▶ 250 cycles per minute

No more worrying about cycle times: There is nothing faster on the market!

▶ Failure-free continuous operation

Our “Made in Germany” quality guarantees up to 30 million maintenance-free gripping cycles

▶ THE BEST PRODUCT FOR YOUR APPLICATION



▶ Our products love the challenge!

Extreme conditions, all over the world—our tried and tested components and systems give you limitless possibilities:

Find the best product for your specific use:

www.zimmer-group.com

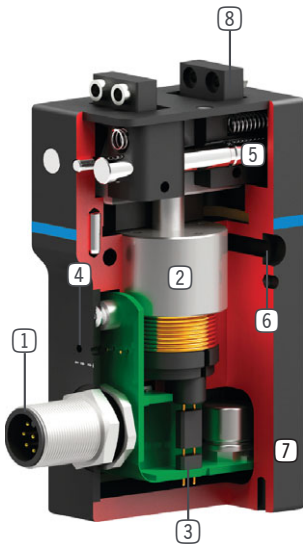
HOW TO ORDER CORRECTLY

▶ The product order numbers are arranged according to this diagram:

Order no.	GEP9002N	<input type="checkbox"/>	-B	
Grip direction closed		C		
Grip direction opened		O		



► BENEFITS IN DETAIL



- 1 Energy supply**
 - standardized interface M12 round connector
- 2 Drive**
 - via Pot magnet and coil bobbin according to the coil system principle
 - energy consumption only at opening and closing (<25ms)
- 3 Position sensing**
 - integrated Hallsensor
 - 3 positions monitorable
- 4 Status control**
 - optical LED position display
 - gripper opened, gripper closed, "workpiece available"
- 5 Wedge hook mechanism**
 - self locking mechanism at stop position
- 6 Mounting and positioning**
 - mounting possible from several sides for versatile positioning
- 7 Robust, lightweight housing**
 - Hard-coated aluminum alloy
- 8 Gripper jaw**
 - from high-strength, hard-anodized aluminium
 - removable centering sleeves for individual gripper finger mounting

► SERIES CHARACTERISTICS



Number of installation sizes	2
Stroke per jaw	2 mm - 4 mm
Gripping force	11 N - 50 N
Weight	0,25 kg - 0,57 kg
AP class	2



30 million maintenance-free cycles (max.)



Spring closing C



Spring opening O



Integrated sensing



IP40



Purged air

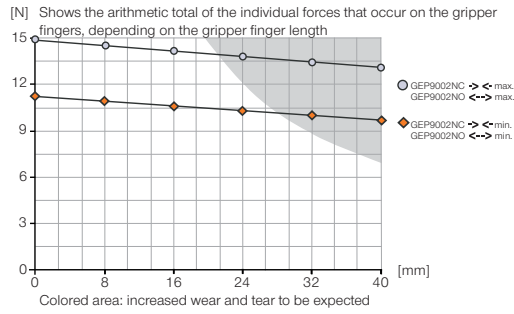
2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GEP9002

▶ PRODUCT SPECIFICATIONS

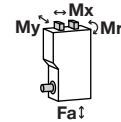


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	1.5
Mx [Nm]	1.5
My [Nm]	2.1
Fa [N]	270

▶ INCLUDED IN DELIVERY



Centering Disc

DST80320

▶ RECOMMENDED ACCESSORIES



Plug-in Connector
Straight Cable 10 m -
Female M12
KAG1000B8

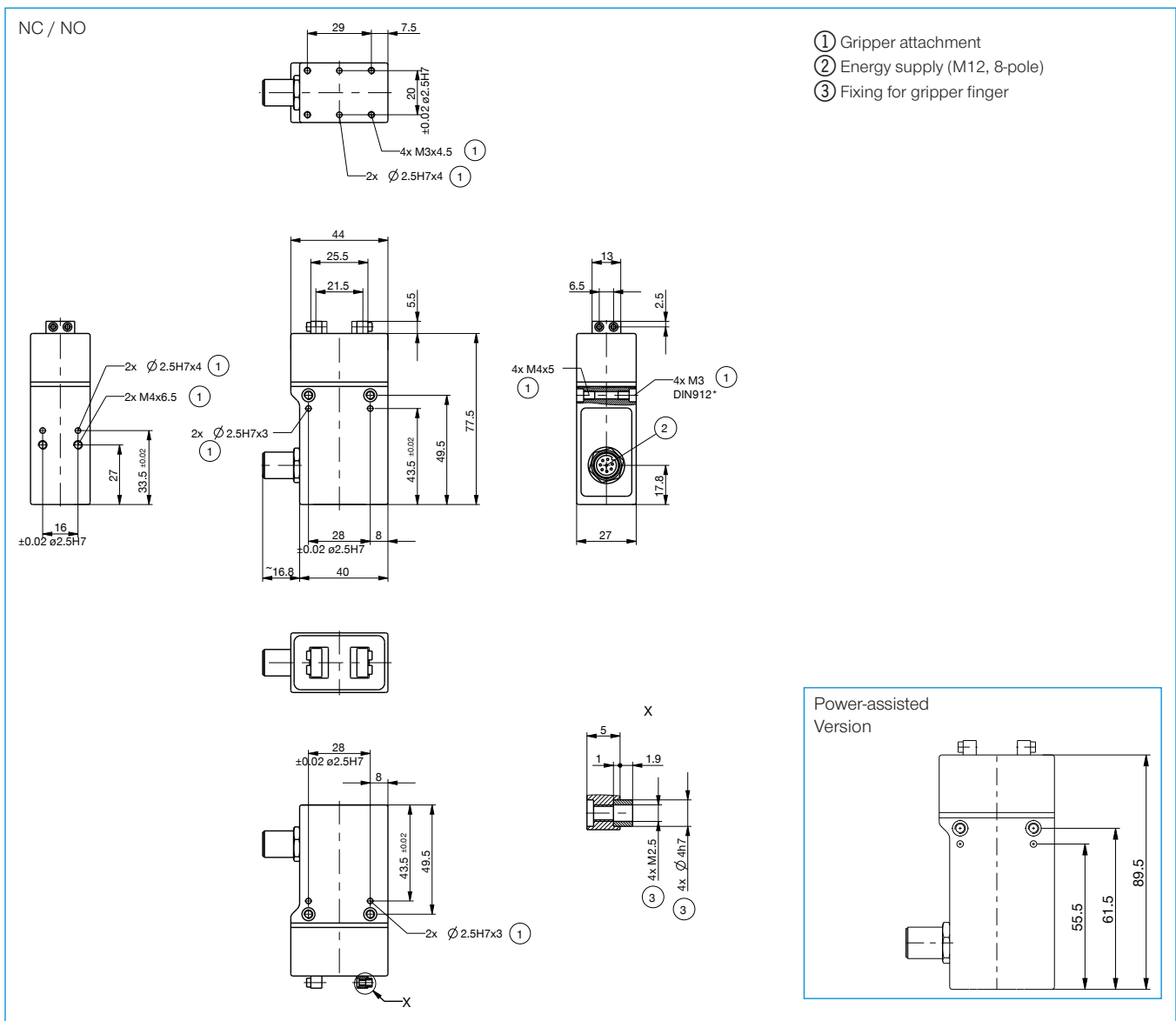


Plug-in Connector Angled
Cable 10 m - Female M12
KAW1000B8



Busbox
see page 875
ZUBBOX9000-01

Order no.	Technical Data		
	GEP9002NC-B	GEP9002NO-B	GEP9002NCV-B
Stroke per jaw [mm]	2	2	2
Grip force in grip direction min. [N]	11	11	20
Grip force in grip direction max. [N]	15	15	30
Permanent operation cycle count max. [cycle/min]	200	200	200
Cycle count max. [cycle/min]	250	250	250
Operating time [ms]	<20	<20	<20
Pulse time in opening [ms]	25	7	25
Pulse time in closing [ms]	7	25	7
Repetition accuracy +/- [mm]	0.05	0.05	0.05
Operating temperature min. [°C]	5	5	5
Operating temperature max. [°C]	+50	+50	+50
Current consumption per pulse max. [A]	5	5	5
Length of the gripper fingers max. [mm]	40	40	40
Weight per jaw max. [g]	20	20	20
Protection to IEC 60529	IP40	IP40	IP40
Weight [kg]	0.25	0.25	0.34



2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GEP9004

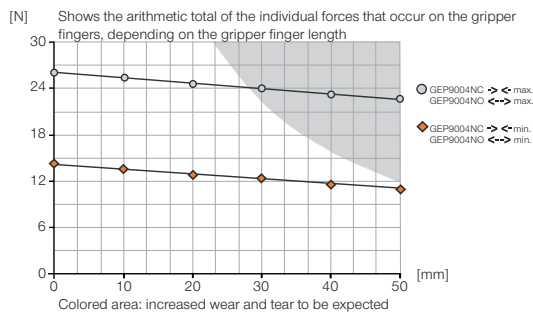
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Installation size GEP9004 / 2-Jaw Parallel Grippers / electric / Grippers

▶ PRODUCT SPECIFICATIONS

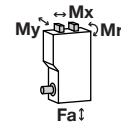


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	2.7
Mx [Nm]	2.7
My [Nm]	4.3
Fa [N]	335

▶ INCLUDED IN DELIVERY



Centering Disc

DST80320

▶ RECOMMENDED ACCESSORIES



Plug-in Connector
Straight Cable 10 m -
Female M12
KAG1000B8

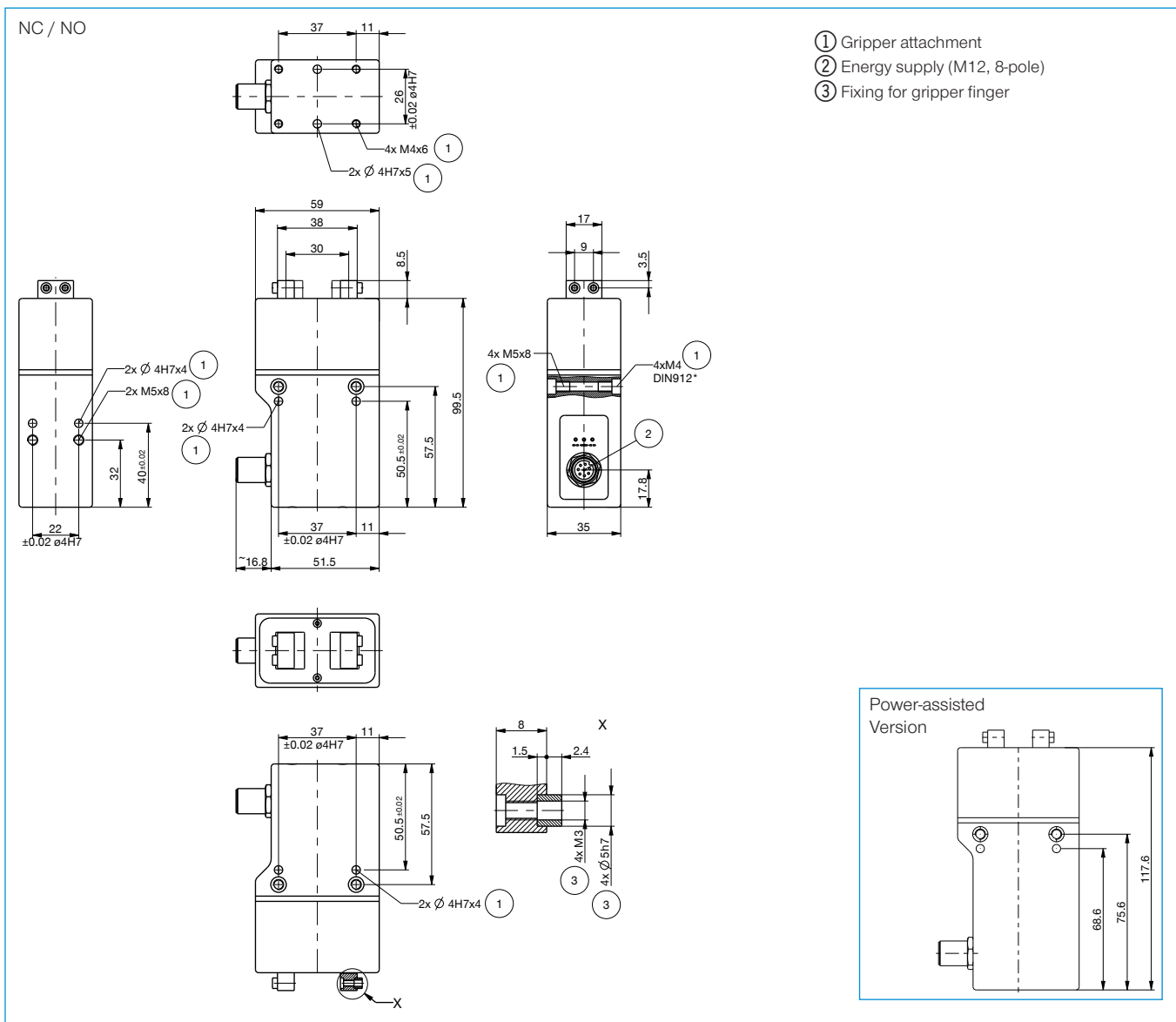


Plug-in Connector Angled
Cable 10 m - Female M12
KAW1000B8



Busbox
see page 875
ZUBBOX9000-01

Order no.	Technical Data		
	GEP9004NC-B	GEP9004NO-B	GEP9004NCV-B
Stroke per jaw [mm]	4	4	4
Grip force in grip direction min. [N]	14	14	30
Grip force in grip direction max. [N]	26	26	50
Permanent operation cycle count max. [cycle/min]	200	200	200
Cycle count max. [cycle/min]	250	250	250
Operating time [ms]	<20	<20	<20
Pulse time in opening [ms]	35	9	35
Pulse time in closing [ms]	9	35	9
Repetition accuracy +/- [mm]	0.05	0.1	0.05
Operating temperature min. [°C]	5	5	5
Operating temperature max. [°C]	+50	+50	+50
Current consumption per pulse max. [A]	5	5	5
Length of the gripper fingers max. [mm]	50	50	50
Weight per jaw max. [g]	30	30	30
Protection to IEC 60529	IP40	IP40	IP40
Weight [kg]	0.57	0.57	0.79



2-JAW PARALLEL GRIPPERS

SERIES GEP1400

1

Series GEP1400 / 2-Jaw Parallel Grippers / electric / Grippers

▶ PRODUCT ADVANTAGES



“The robust”

▶ Proven T slot guide

This established and proven guiding technology stands for the highest process reliability like no other

▶ Integrated position sensing

You can detect the gripper status safely via the motor current using your control system

▶ The simplest activation

The included control unit is controlled easily via plus and minus buttons, while you can optionally adjust the gripping force using the potentiometer

▶ THE BEST PRODUCT FOR YOUR APPLICATION



▶ Our products love the challenge!

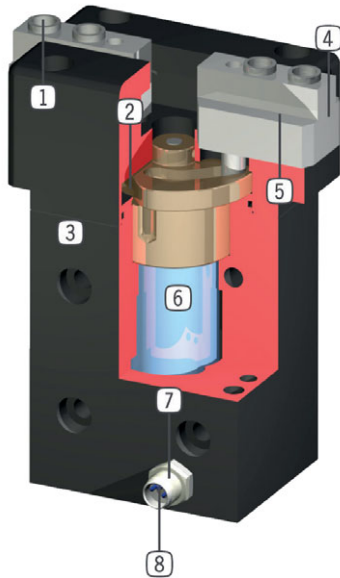
Extreme conditions, all over the world—our tried and tested components and systems give you limitless possibilities:

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► BENEFITS IN DETAIL



- 1 Removable centering sleeves**
 - quick and economical positioning of the gripper fingers
- 2 Positively driven curve disc**
 - synchronized the movement of the gripper jaws
 - high force transfer
 - rapid stroke and force stroke (version with 6 mm stroke per jaw)
- 3 Robust, lightweight housing**
 - Hard-coated aluminum alloy
- 4 Gripper jaw**
 - hardened steel
 - individual gripper finger mounting
- 5 Guide**
 - precise T-Slot guide for high forces and moments capacity
- 6 Drive**
 - electric drive by 24 VDC step motor
- 7 Position sensing**
 - measured at the end of stroke via power increase on the motor
- 8 Energy supply**
 - standardized interface M8 round plug
 - signal control line (use only cable without diode)

► SERIES CHARACTERISTICS



Number of installation sizes	2
Stroke per jaw	2 mm - 6 mm
Gripping force	140 N - 350 N
Weight	0,3 kg - 1 kg
AP class	3



5 million maintenance-free cycles (max.)

IP 52

IP52

2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GEP1402

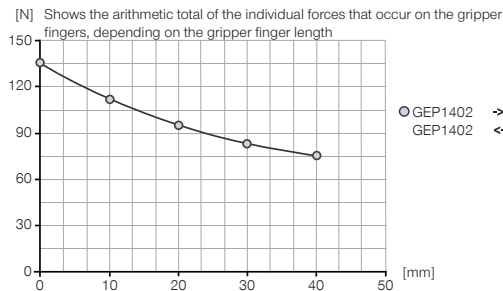
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Installation size GEP1402 / 2-Jaw Parallel Grippers / electric / Grippers

▶ PRODUCT SPECIFICATIONS

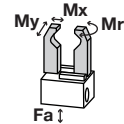


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	5
Mx [Nm]	5
My [Nm]	4
Fa [N]	70

▶ INCLUDED IN DELIVERY



Centering Disc

DST02900



Control

ELEGR01

▶ RECOMMENDED ACCESSORIES



Plug-in connector Straight
Cable 5m - Socket M8
(female)

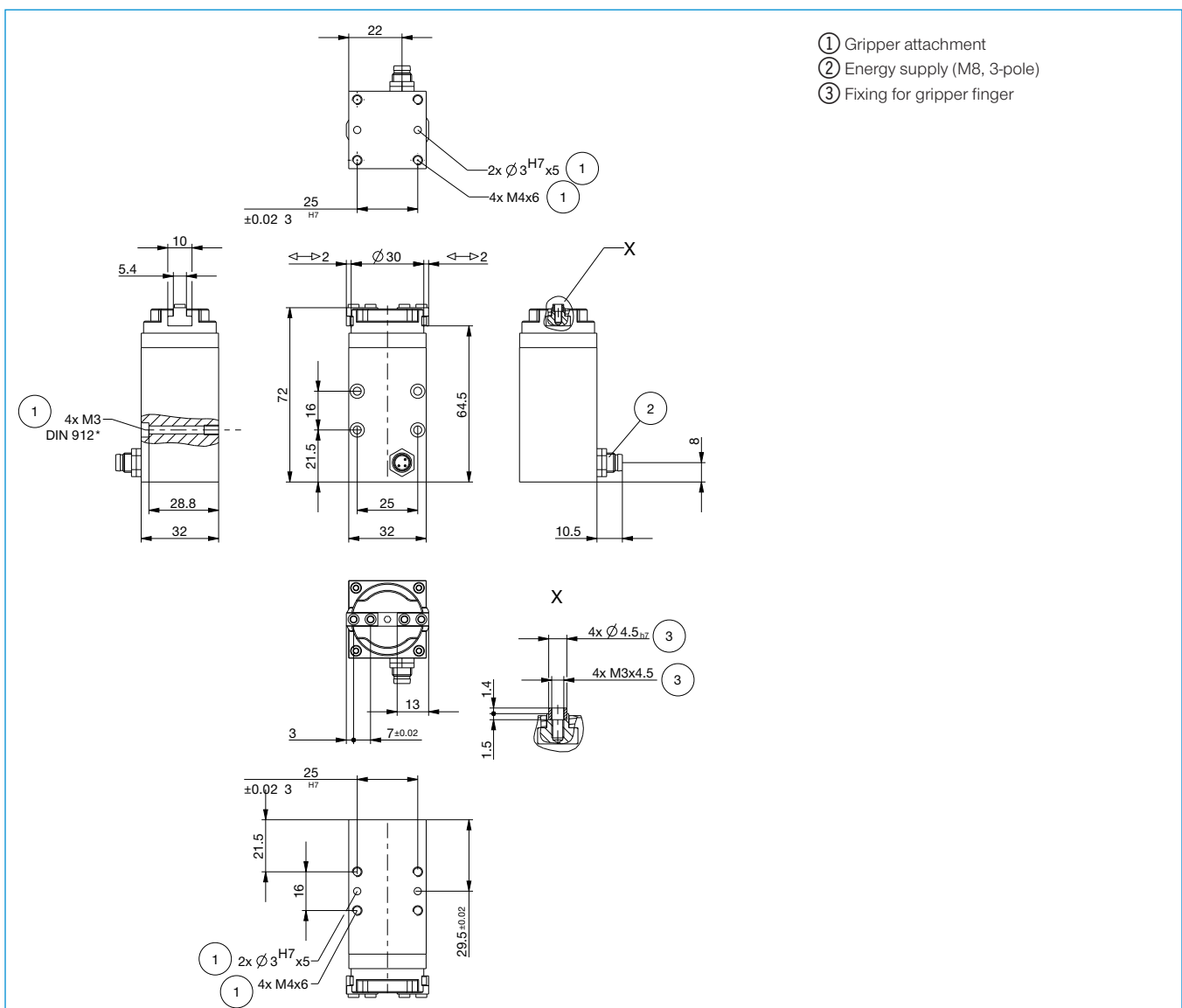
KAG500



Plug-in connector Angled
Cable 5m - Socket M8
(female)

KAW500

Order no.	GEP1402
Stroke per jaw [mm]	2
Gripping force in closing (adjustable) max. [N]	140
Gripping force in opening (adjustable) max. [N]	140
Opening time [s]	0.2
Closing time [s]	0.2
Repetition accuracy +/- [mm]	0.1
Voltage [V]	24
Max. current regulable by potentiometer [mA]	140
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Protection to IEC 60529	IP52
Weight [kg]	0.3



2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GEP1406

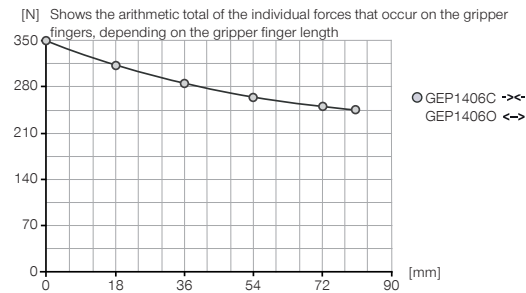
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Installation size GEP1406 / 2-Jaw Parallel Grippers / electric / Grippers

▶ PRODUCT SPECIFICATIONS

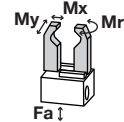


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	30
Mx [Nm]	30
My [Nm]	20
Fa [N]	500

▶ INCLUDED IN DELIVERY



Centering Disc

DST40800



Control

ELEGR04

▶ RECOMMENDED ACCESSORIES



Plug-in connector Straight
Cable 5m - Socket M8
(female)

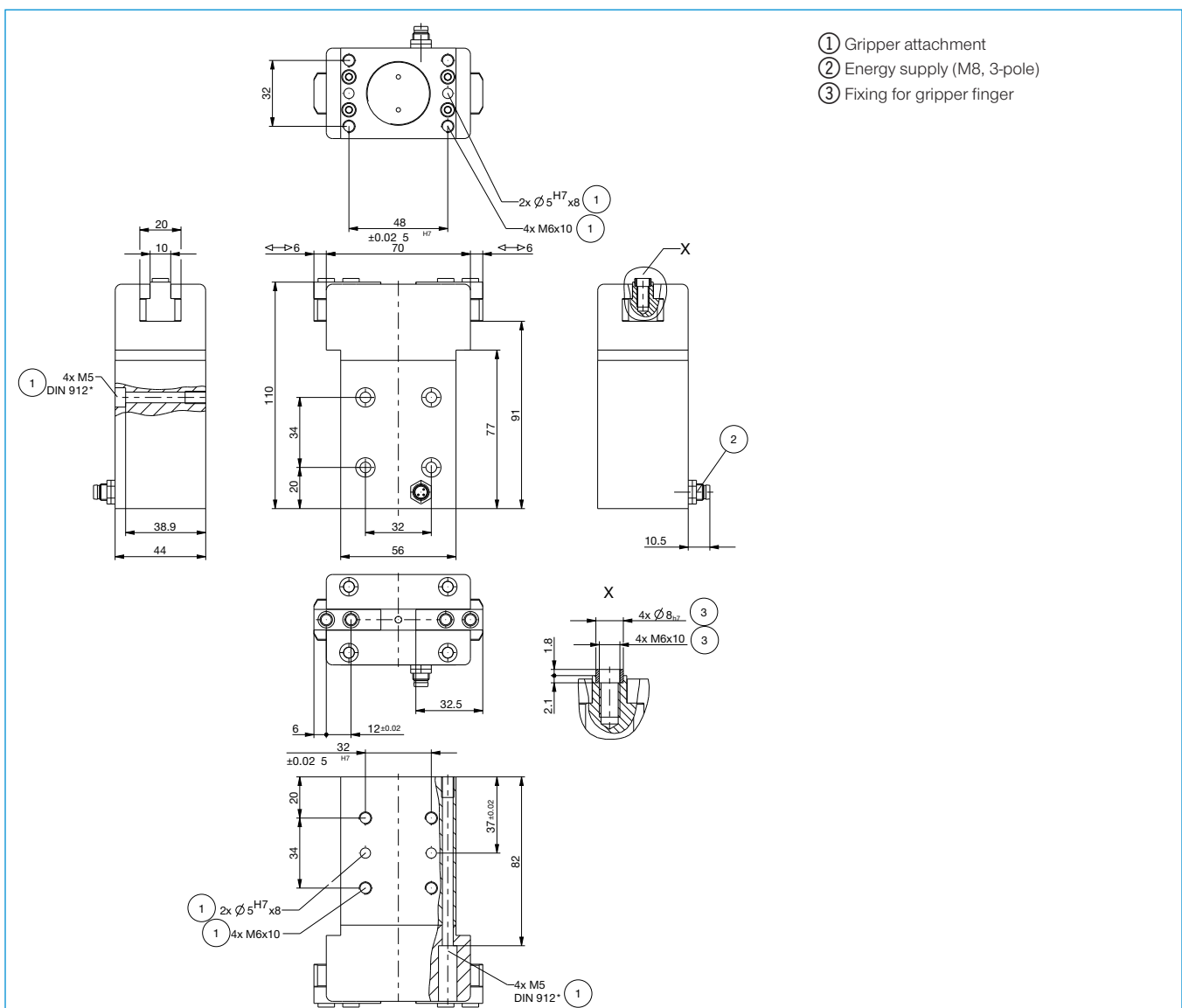
KAG500



Plug-in connector Angled
Cable 5m - Socket M8
(female)

KAW500

Order no.	▶ Technical Data	
	GEP1406C	GEP1406O
Stroke per jaw [mm]	6	6
Gripping force in closing (adjustable) max. [N]	350	
Gripping force in opening (adjustable) max. [N]		350
Opening time [s]	0.4	0.4
Closing time [s]	0.4	0.4
Repetition accuracy +/- [mm]	0.1	0.1
Voltage [V]	24	24
Max. current regulable by potentiometer [mA]	210	210
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Protection to IEC 60529	IP52	IP52
Weight [kg]	1	1



2-JAW PARALLEL GRIPPERS

SERIES GEP5000

1

2-Jaw Parallel Grippers / electric / Grippers

▶ PRODUCT ADVANTAGES



“ALL in ONE”

- ▶ Approximately the same gripping force as a comparable pneumatic gripper
- ▶ Self locking mechanism in case of power drop
- ▶ Same connection hole patterns as a comparable pneumatic gripper
- ▶ Plug and play – single-cable solution, supports incredibly easy control using I/O signals or IO-Link
- ▶ Integrated ACM control module - option of configuring gripping force, travel time and switching points
- ▶ Protected from corrosion and sealed in accordance with IP64
- ▶ Brushless DC motor – up to 30 million cycles without maintenance

▶ THE BEST PRODUCT FOR YOUR APPLICATION



▶ Our products love the challenge!

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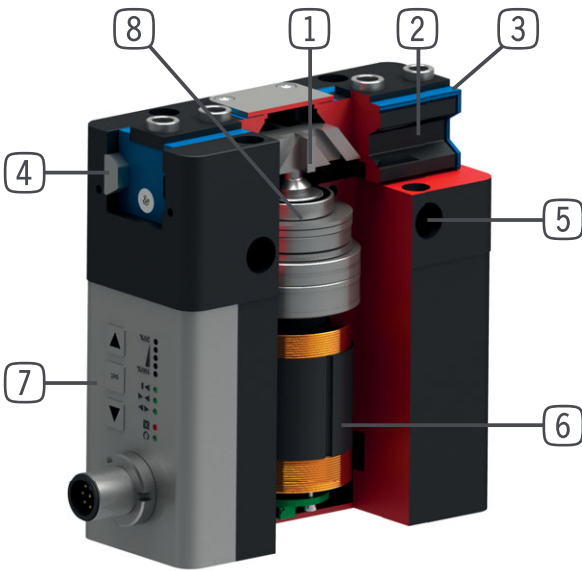
HOW TO ORDER CORRECTLY

- ▶ The product order numbers are arranged according to this diagram:

Order no.	GEP5008	<input type="checkbox"/>	-00	-A
Digital control		IO		
IO-Link control		IL		



► BENEFITS IN DETAIL



- ① Wedge hook mechanism**
 - Supports to absorb high forces and moments
 - Synchronized gripper jaw movement
- ② Gripper jaw**
 - Gripper fingers mounted using removable centring sleeves
 - Lubricated for life via incorporated lubrication slots
- ③ Dual lip seal**
 - Enables IP64
 - Prevents grease from being squeezed out, increasing service life
- ④ Steel Linear Guide**
 - Steel in steel guide
 - Enables use of extremely long gripper fingers
- ⑤ Mounting and positioning**
 - Alternatively, on several sides for customized mounting
 - Pneumatic and electrical versions identical apart from height
- ⑥ BLDC motor**
 - Wear-resistant brushless DC motor
- ⑦ Advanced control module**
 - Integrated control module with single-cable solution
 - Gripping force, travel time and query programmable via the control panel on the housing
- ⑧ Drive train**
 - Combination of trapezoidal spindle and gear
 - Durable and robust

► SERIES CHARACTERISTICS



Number of installation sizes	3
Stroke per jaw	6 mm - 10 mm
Gripping force	540 N - 1900 N
Weight	0,79 kg - 1,66 kg
AP class	5



30 million maintenance-free cycles (max.)



Corrosion resistance



Integrated sensing



Self locking mechanism



IP64



Purged air

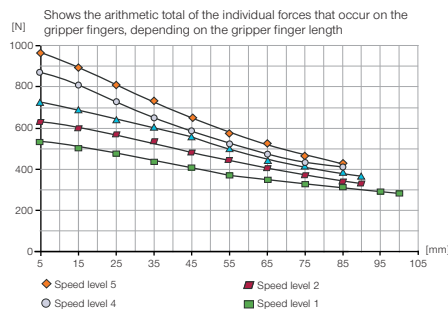
2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GEP5006

▶ PRODUCT SPECIFICATIONS

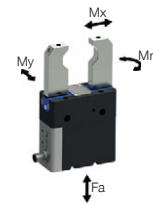


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	43
Mx [Nm]	70
My [Nm]	46
Fa [N]	1250

▶ TECHNICAL DATA - BASIC VERSION

Order no.	▶ Technical Data	
	GEP5006IO-00-A	GEP5006IL-00-A
Control	IO	IO-Link
Stroke per jaw [mm]	6	6
Drive	BLDC motor	BLDC motor
Self locking mechanism	mechanical	mechanical
Control time [s]	0.035	0.035
Permissible weight per jaw max [kg]	0.4	0.4
Length of the gripper fingers max. [mm]	100	100
Repetition accuracy +/- [mm]	0.01	0.01
Voltage [V]	24	24
Current consumption max. [A]	5	5
Operating temperature [°C]	5 ... 50	5 ... 50
Protection to IEC 60529	IP64	IP64
Weight [kg]	0.79	0.79

▶ TECHNICAL DATA - MODES

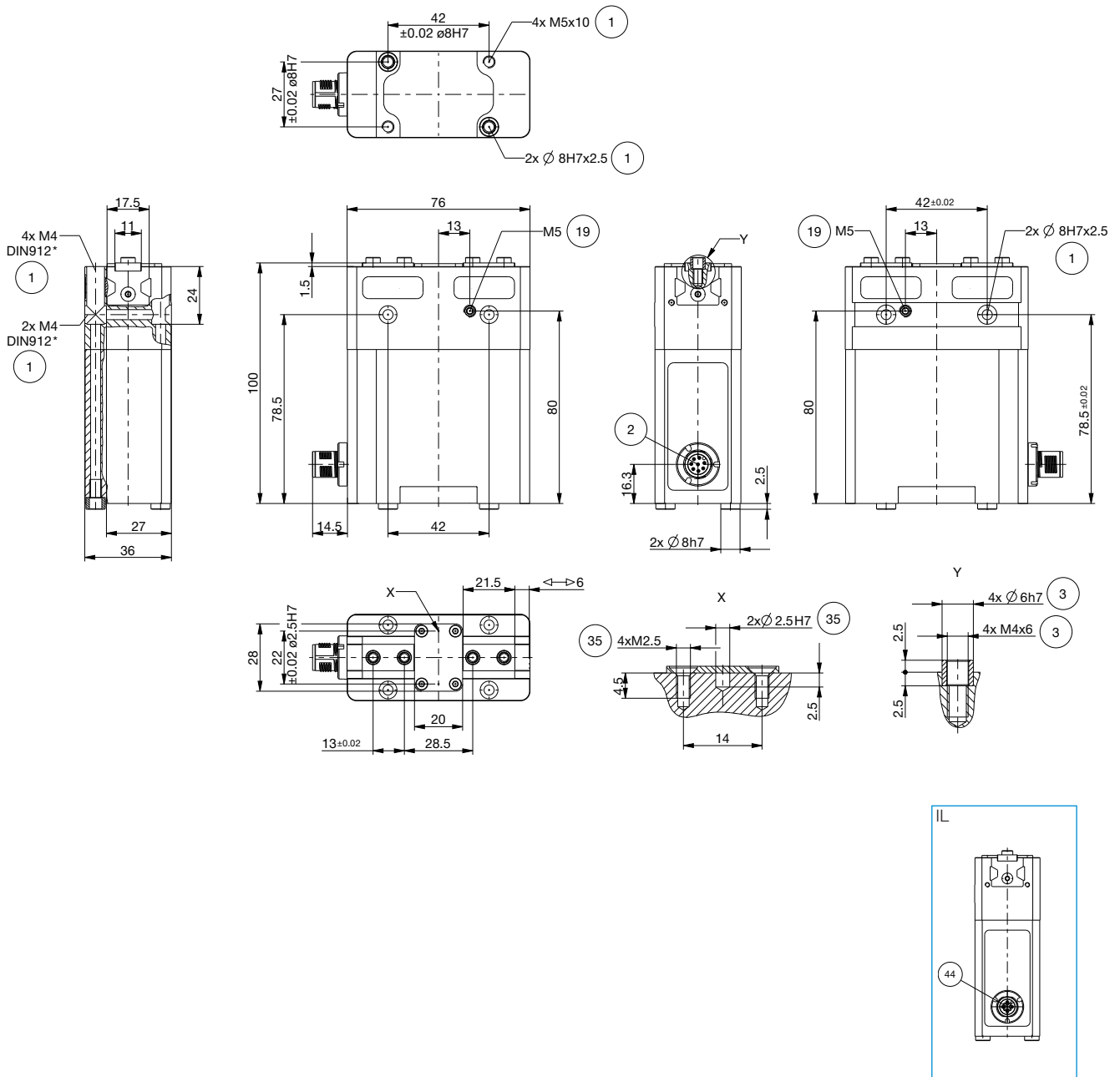
Order no.	▶ Technical data - N mode	
	GEP5006IO-00-A	GEP5006IL-00-A
Gripping force → ← min. / max. [N]	540 / 960	540 / 960
Gripping force ↔ min. / max. [N]	540 / 960	540 / 960
Travel time → ← min. / max. [s]	0,15 / 0,22	0,15 / 0,22
Travel time ↔ min. / max. [s]	0,15 / 0,22	0,15 / 0,22

Order no.	▶ Technical data - NC mode	
	GEP5006IO-00-A	GEP5006IL-00-A
Gripping force → ← min. / max. [N]	540 / 960	540 / 960
Gripping force ↔ min. / max. [N]	-	-
Travel time → ← min. / max. [s]	0,15 / 0,22	0,15 / 0,22
Travel time ↔ min. / max. [s]	0,13	0,13

Order no.	▶ Technical data - NO mode	
	GEP5006IO-00-A	GEP5006IL-00-A
Gripping force → ← min. / max. [N]	-	-
Gripping force ↔ min. / max. [N]	540 / 960	540 / 960
Travel time → ← min. / max. [s]	0,13	0,13
Travel time ↔ min. / max. [s]	0,15 / 0,22	0,15 / 0,22

TECHNICAL DRAWINGS

- ① Gripper attachment
- ② Energy supply (M12, 8-pole)
- ③ Fixing for gripper finger
- ⑱ Air purge connection option
- ⑳ Attachment option for customer-specific fittings
- ㉔ Energy supply IO-Link (M12, 5-pole)

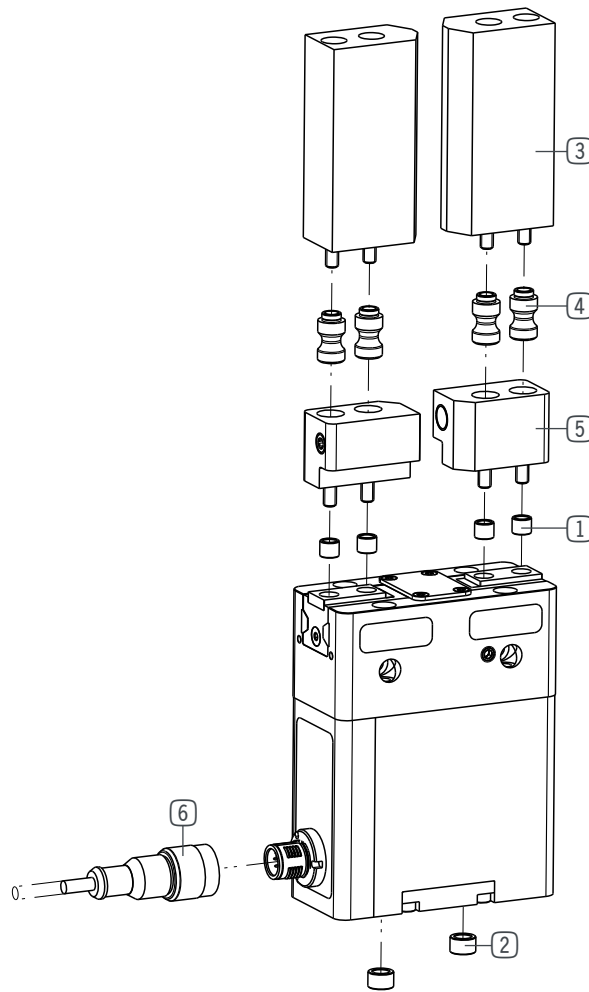


2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GEP5006

1

Installation size GEP5006 / 2-Jaw Parallel Grippers / electric / Grippers



▶ INCLUDED IN DELIVERY



Centering Disc

024230



Centering Disc

024231

▶ RECOMMENDED ACCESSORIES



Universal jaw aluminium

UB5006AL



Universal jaw steel

UB5006ST



Aluminum adjustment jaw

EB5006AL



Steel adjustment jaw

EB5006ST



Changeable jaw, loose-part-set

WB5006L



Changeable jaw, fix-part

WB5006F



Plug-in Connector Straight Cable 10 m - Female M12

KAG1000B8



Plug-in Connector Angled Cable 10 m - Female M12

KAW1000B8



Plug-in connector straight 5m - plug / socket M12

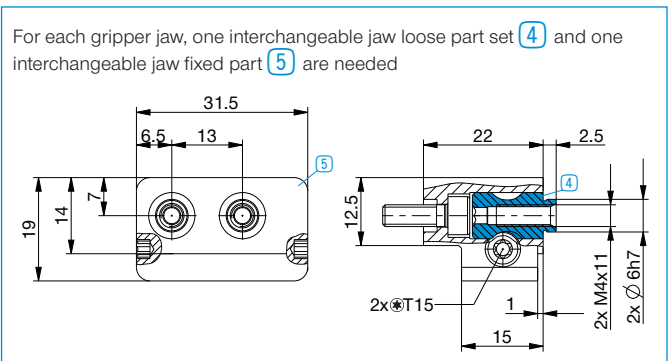
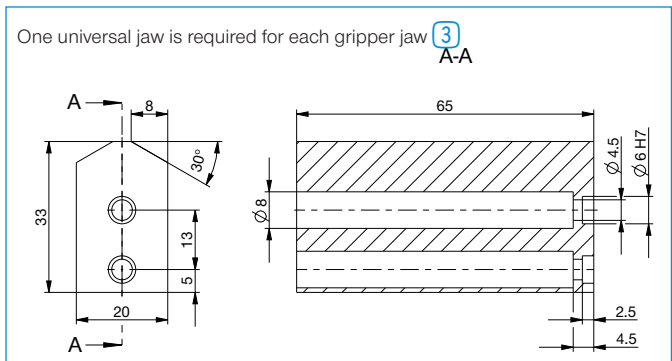
KAG500IL



Y-Plug-in Connector

B12-Y-5IL

▶ TECHNICAL DRAWINGS ACCESSORIES



2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GEP5008

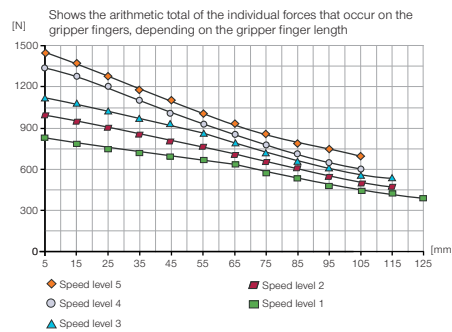
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Installation size GEP5008 / 2-Jaw Parallel Grippers / electric / Grippers

▶ PRODUCT SPECIFICATIONS

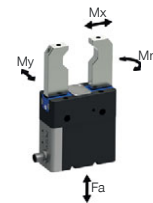


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	60
Mx [Nm]	105
My [Nm]	65
Fa [N]	1900

▶ TECHNICAL DATA - BASIC VERSION

▶ Technical Data

Order no.	GEP5008IO-00-A	GEP5008IL-00-A
Control	IO	IO-Link
Stroke per jaw [mm]	8	8
Drive	BLDC motor	BLDC motor
Self locking mechanism	mechanical	mechanical
Control time [s]	0.035	0.035
Permissible weight per jaw max [kg]	0.7	0.7
Length of the gripper fingers max. [mm]	125	125
Repetition accuracy +/- [mm]	0.01	0.01
Voltage [V]	24	24
Current consumption max. [A]	5	5
Operating temperature [°C]	5 ... 50	5 ... 50
Protection to IEC 60529	IP64	IP64
Weight [kg]	1.16	1.16

▶ TECHNICAL DATA - MODES

▶ Technical data - N mode

Order no.	GEP5008IO-00-A	GEP5008IL-00-A
Gripping force → ← min. / max. [N]	800 / 1450	800 / 1450
Gripping force ↔ min. / max. [N]	800 / 1450	800 / 1450
Travel time → ← min. / max. [s]	0,18 / 0,29	0,18 / 0,29
Travel time ↔ min. / max. [s]	0,18 / 0,29	0,18 / 0,29

▶ Technical data - NC mode

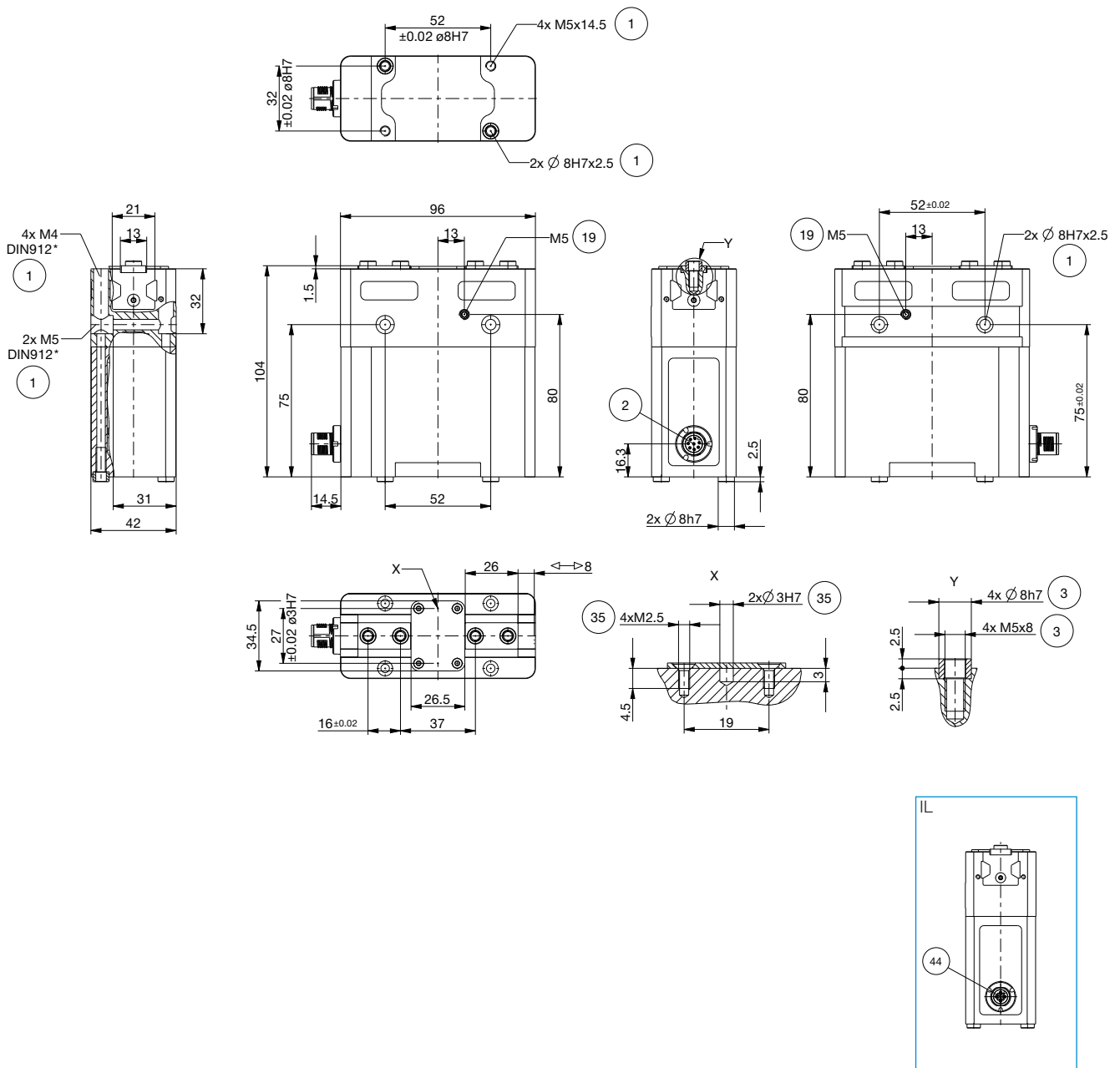
Order no.	GEP5008IO-00-A	GEP5008IL-00-A
Gripping force → ← min. / max. [N]	800 / 1450	800 / 1450
Gripping force ↔ min. / max. [N]	-	-
Travel time → ← min. / max. [s]	0,18 / 0,29	0,18 / 0,29
Travel time ↔ min. / max. [s]	0,15	0,15

▶ Technical data - NO mode

Order no.	GEP5008IO-00-A	GEP5008IL-00-A
Gripping force → ← min. / max. [N]	-	-
Gripping force ↔ min. / max. [N]	800 / 1450	800 / 1450
Travel time → ← min. / max. [s]	0,15	0,15
Travel time ↔ min. / max. [s]	0,18 / 0,29	0,18 / 0,29

TECHNICAL DRAWINGS

- ① Gripper attachment
- ② Energy supply (M12, 8-pole)
- ③ Fixing for gripper finger
- ⑬ Air purge connection option
- ⑮ Attachment option for customer-specific fittings
- ④ Energy supply IO-Link (M12, 5-pole)

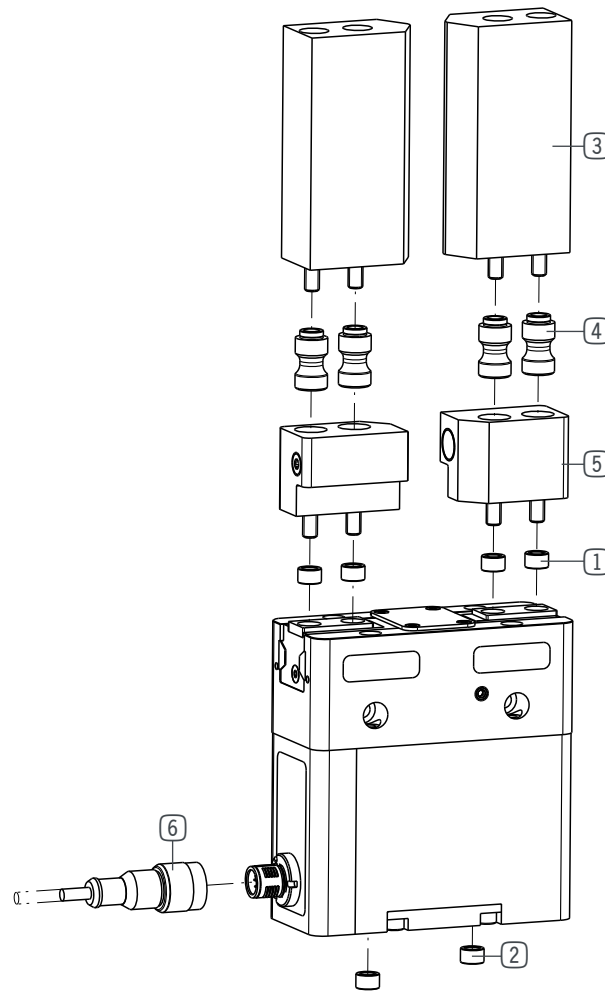


2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GEP5008

1

Installation size GEP5008 / 2-Jaw Parallel Grippers / electric / Grippers



▶ INCLUDED IN DELIVERY



Centering Disc

024231

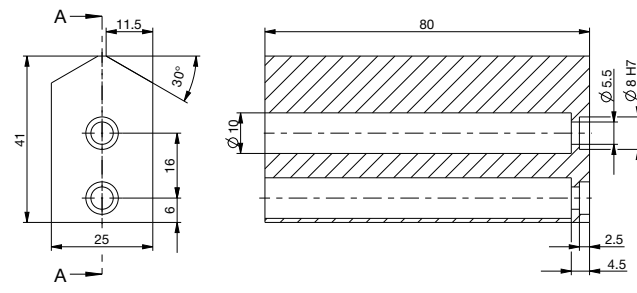
▶ RECOMMENDED ACCESSORIES

 <p>3</p> <p>Universal jaw aluminium</p> <p>UB5008AL</p>	 <p>3</p> <p>Universal jaw steel</p> <p>UB5008ST</p>	 <p>Aluminum adjustment jaw</p> <p>EB5008AL</p>	 <p>Steel adjustment jaw</p> <p>EB5008ST</p>	 <p>4</p> <p>Changeable jaw, loose-part-set</p> <p>WB5008L</p>
 <p>5</p> <p>Changeable jaw, fix-part</p> <p>WB5008F</p>	 <p>6</p> <p>Plug-in Connector Straight Cable 10 m - Female M12</p> <p>KAG1000B8</p>	 <p>6</p> <p>Plug-in Connector Angled Cable 10 m - Female M12</p> <p>KAW1000B8</p>	 <p>IO-Link</p> <p>Plug-in connector straight 5m - plug / socket M12</p> <p>KAG500IL</p>	 <p>IO-Link</p> <p>Y-Plug-in Connector</p> <p>B12-Y-5IL</p>

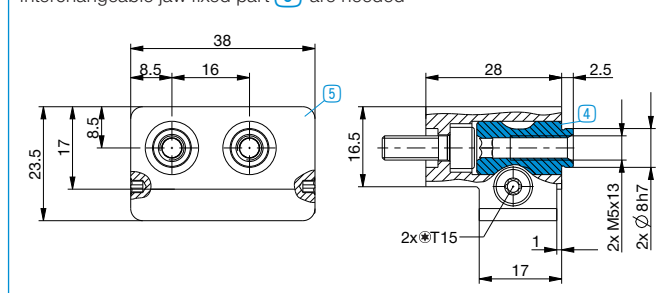
▶ TECHNICAL DRAWINGS ACCESSORIES

One universal jaw is required for each gripper jaw **3**

A-A



For each gripper jaw, one interchangeable jaw loose part set **4** and one interchangeable jaw fixed part **5** are needed



2-JAW PARALLEL GRIPPERS

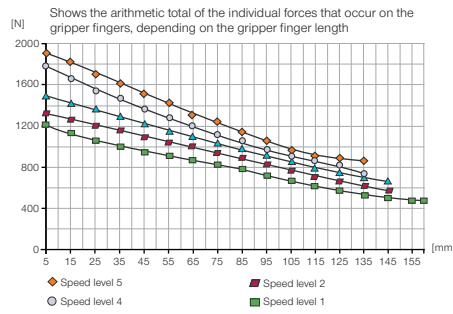
INSTALLATION SIZE GEP5010

1

▶ PRODUCT SPECIFICATIONS

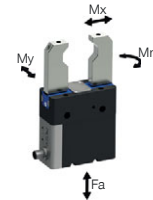


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	75
Mx [Nm]	125
My [Nm]	95
Fa [N]	2700

▶ TECHNICAL DATA - BASIC VERSION

Order no.	▶ Technical Data	
	GEP5010IO-00-A	GEP5010IL-00-A
Control	IO	IO-Link
Stroke per jaw [mm]	10	10
Drive	BLDC motor	BLDC motor
Self locking mechanism	mechanical	mechanical
Control time [s]	0.035	0.035
Permissible weight per jaw max [kg]	1.3	1.3
Length of the gripper fingers max. [mm]	160	160
Repetition accuracy +/- [mm]	0.01	0.01
Voltage [V]	24	24
Current consumption max. [A]	5	5
Operating temperature [°C]	5 ... 50	5 ... 50
Protection to IEC 60529	IP64	IP64
Weight [kg]	1.66	1.66

▶ TECHNICAL DATA - MODES

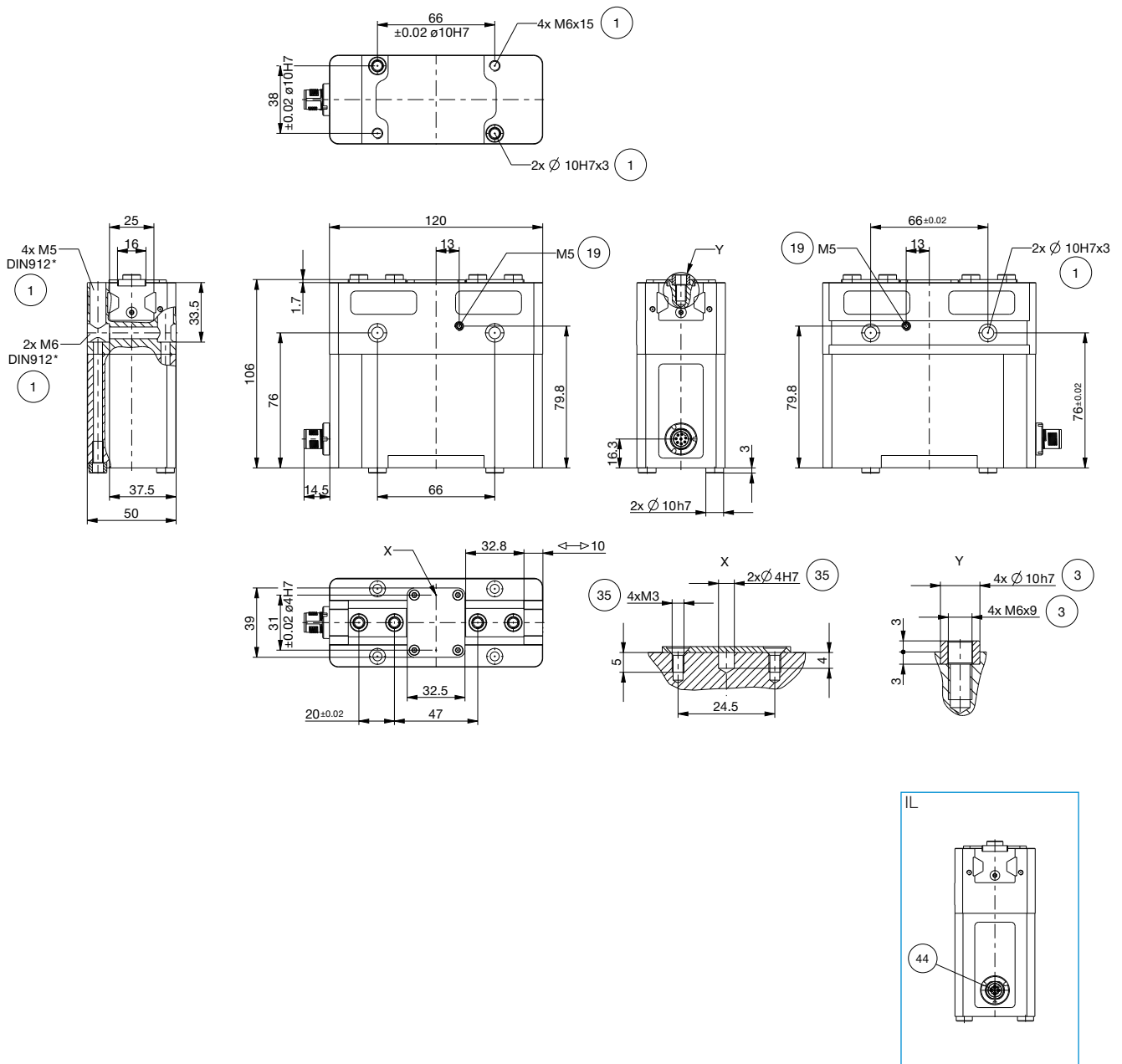
Order no.	▶ Technical data - N mode	
	GEP5010IO-00-A	GEP5010IL-00-A
Gripping force → ← min. / max. [N]	1200 / 1900	1200 / 1900
Gripping force ↔ min. / max. [N]	1200 / 1900	1200 / 1900
Travel time → ← min. / max. [s]	0,21 / 0,32	0,21 / 0,32
Travel time ↔ min. / max. [s]	0,21 / 0,32	0,21 / 0,32

Order no.	▶ Technical data - NC mode	
	GEP5010IO-00-A	GEP5010IL-00-A
Gripping force → ← min. / max. [N]	1200 / 1900	1200 / 1900
Gripping force ↔ min. / max. [N]	-	-
Travel time → ← min. / max. [s]	0,21 / 0,32	0,21 / 0,32
Travel time ↔ min. / max. [s]	0,16	0,16

Order no.	▶ Technical data - NO mode	
	GEP5010IO-00-A	GEP5010IL-00-A
Gripping force → ← min. / max. [N]	-	-
Gripping force ↔ min. / max. [N]	1200 / 1900	1200 / 1900
Travel time → ← min. / max. [s]	0,16	0,16
Travel time ↔ min. / max. [s]	0,21 / 0,32	0,21 / 0,32

TECHNICAL DRAWINGS

- ① Gripper attachment
- ② Energy supply (M12, 8-pole)
- ③ Fixing for gripper finger
- ⑱ Air purge connection option
- ⑳ Attachment option for customer-specific fittings
- ④④ Energy supply IO-Link (M12, 5-pole)

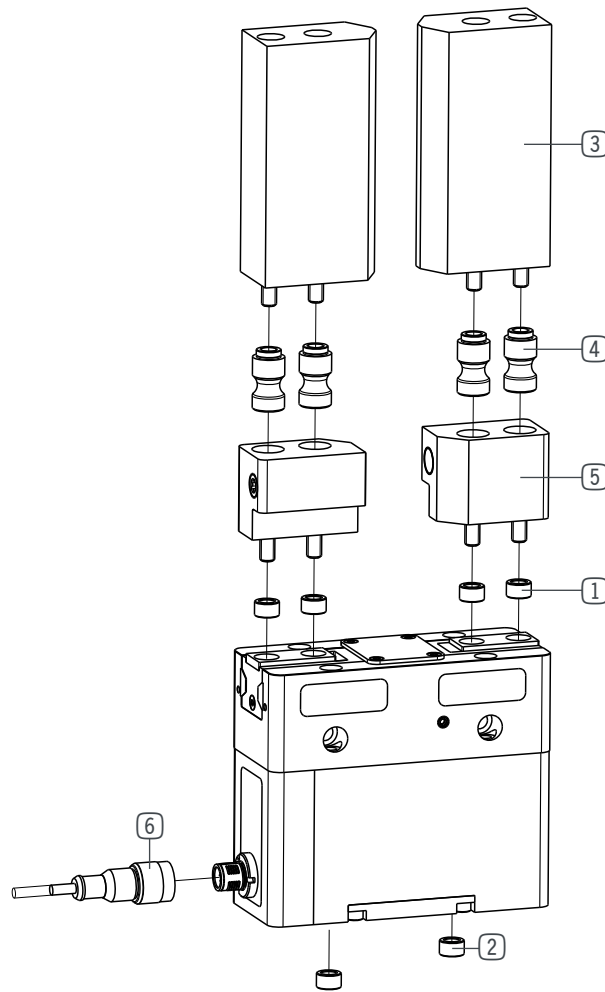


2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GEP5010

1

Installation size GEP5010 / 2-Jaw Parallel Grippers / electric / Grippers



▶ INCLUDED IN DELIVERY



Centering Disc

018187

▶ RECOMMENDED ACCESSORIES



Universal jaw aluminium

UB5010AL



Universal jaw steel

UB5010ST



Aluminum adjustment jaw

EB5010AL



Steel adjustment jaw

EB5010ST



Changeable jaw, loose-part-set

WB5010L



Changeable jaw, fix-part

WB5010F



Plug-in Connector Straight Cable 10 m - Female M12

KAG1000B8



Plug-in Connector Angled Cable 10 m - Female M12

KAW1000B8



Plug-in connector straight 5m - plug / socket M12

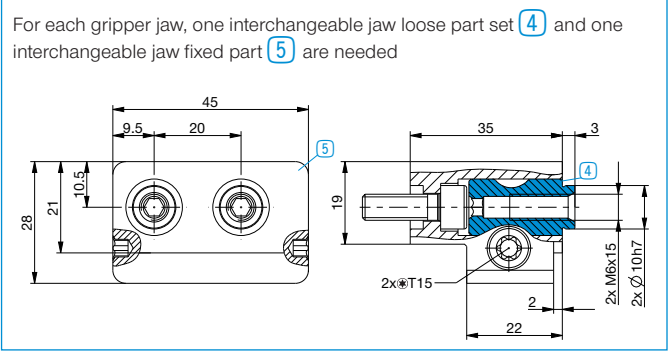
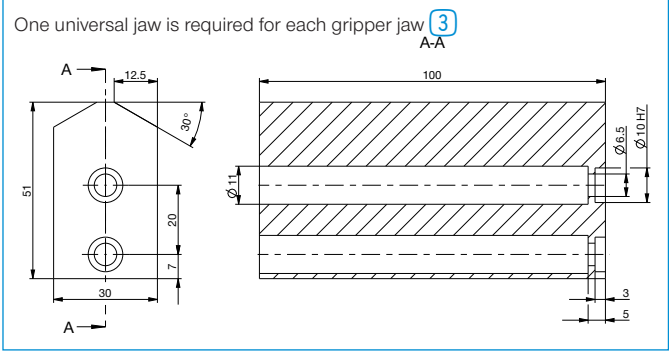
KAG500IL



Y-Plug-in Connector

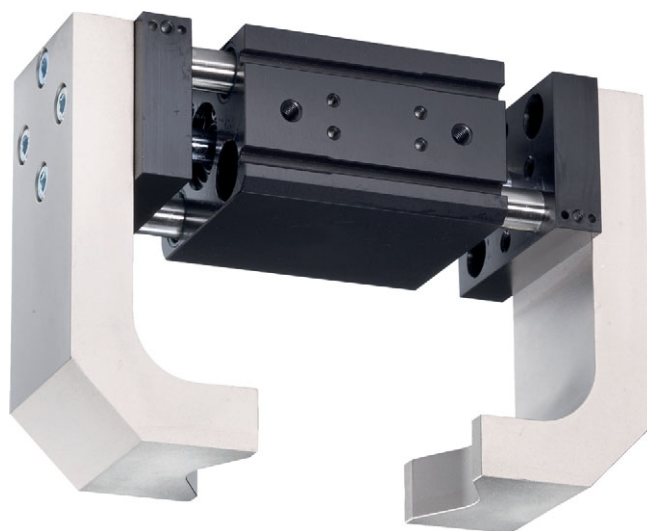
B12-Y-5IL

▶ TECHNICAL DRAWINGS ACCESSORIES



2-JAW PARALLEL GRIPPERS WITH LONG STROKE

OVERVIEW OF SERIES

**▶ PNEUMATIC**

Series MGH8000

160



Series GH6000

180



Series GH7000

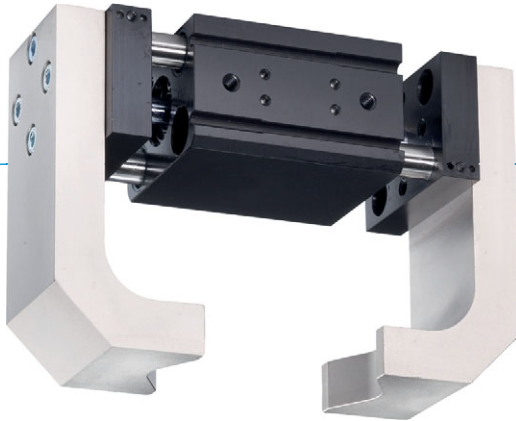
222

2-JAW PARALLEL GRIPPERS WITH LONG STROKE SERIES MGH8000

1

Series MGH8000 / 2-Jaw Parallel Grippers with Long Stroke / pneumatic / Grippers

▶ PRODUCT ADVANTAGES



“The compact”

▶ **Reduced interference contours**

Low-profile designs and versatile screw connection options enable simple integration into your design

▶ **Dirt protection**

Using the scrapers on the guides, you can reliably use the gripper even under the harshest conditions

▶ **Failure-free continuous operation**

Our uncompromising “Made in Germany” quality guarantees up to 10 million maintenance-free gripping cycles

▶ THE BEST PRODUCT FOR YOUR APPLICATION



▶ **Our products love the challenge!**

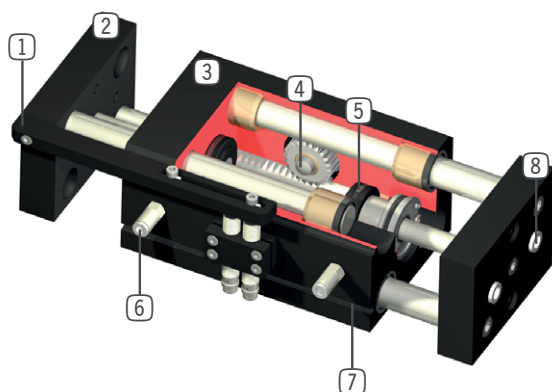
Extreme conditions, all over the world—our tried and tested components and systems give you limitless possibilities:

Find the best product for your specific use:

www.zimmer-group.com



► BENEFITS IN DETAIL



- ① **Attachment kit (cam switch and clamping block)**
 - for sensing position by means of proximity switch (optional feature)
- ② **Gripper jaw**
 - individual gripper finger mounting
- ③ **Robust, lightweight housing**
 - Hard-coated aluminum alloy
- ④ **Synchronization**
 - via rack and pinion
- ⑤ **Drive**
 - two double-acting pneumatic cylinders
- ⑥ **Energy supply**
 - possible from several sides
- ⑦ **Integrated groove**
 - mounting and positioning of magnetic field sensors
- ⑧ **Removable centering sleeves**
 - quick and economical positioning of the gripper fingers

► SERIES CHARACTERISTICS



Number of installation sizes	3
Stroke per jaw	10 mm - 100 mm
Gripping force	60 N - 910 N
Weight	0,35 kg - 7,3 kg
AP class	2



10 million maintenance-free cycles (max.)



Inductive sensor



IP64



Magnetic field sensor

2-JAW PARALLEL GRIPPERS WITH LONG STROKE INSTALLATION SIZE MGH8010

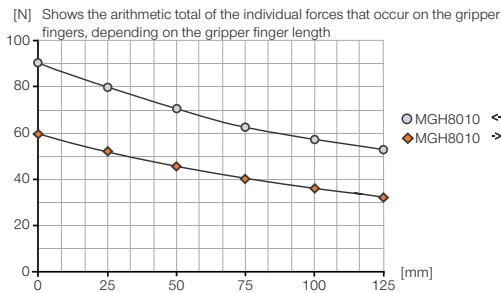
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Installation size MGH8010 / 2-Jaw Parallel Grippers with Long Stroke / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS

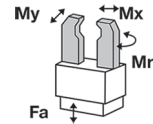


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	12
Mx [Nm]	12
My [Nm]	8
Fa [N]	260

▶ INCLUDED IN DELIVERY



Centering Disc

DST40400

▶ RECOMMENDED ACCESSORIES



Attachment Kit for Inductive Proximity Switch

ANS0027



Inductive proximity switch - Cable 5 m

NJ4-E2-01



Inductive Proximity Switch Cable 0,3 m - Connector M8

NJ4-E2SK-01



Magnetic field sensor Angled Cable 5 m

MFS103KHC



Magnetic field sensor Angled Cable 0,3 m - Connector M8

MFS103SKHC



Magnetic field sensor Straight Cable 5 m

MFS204KHC



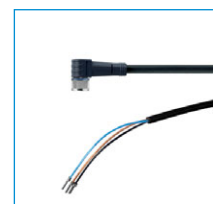
Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



Plug-in connector Straight Cable 5m - Socket M8 (female)

KAG500



Plug-in connector Angled Cable 5m - Socket M8 (female)

KAW500

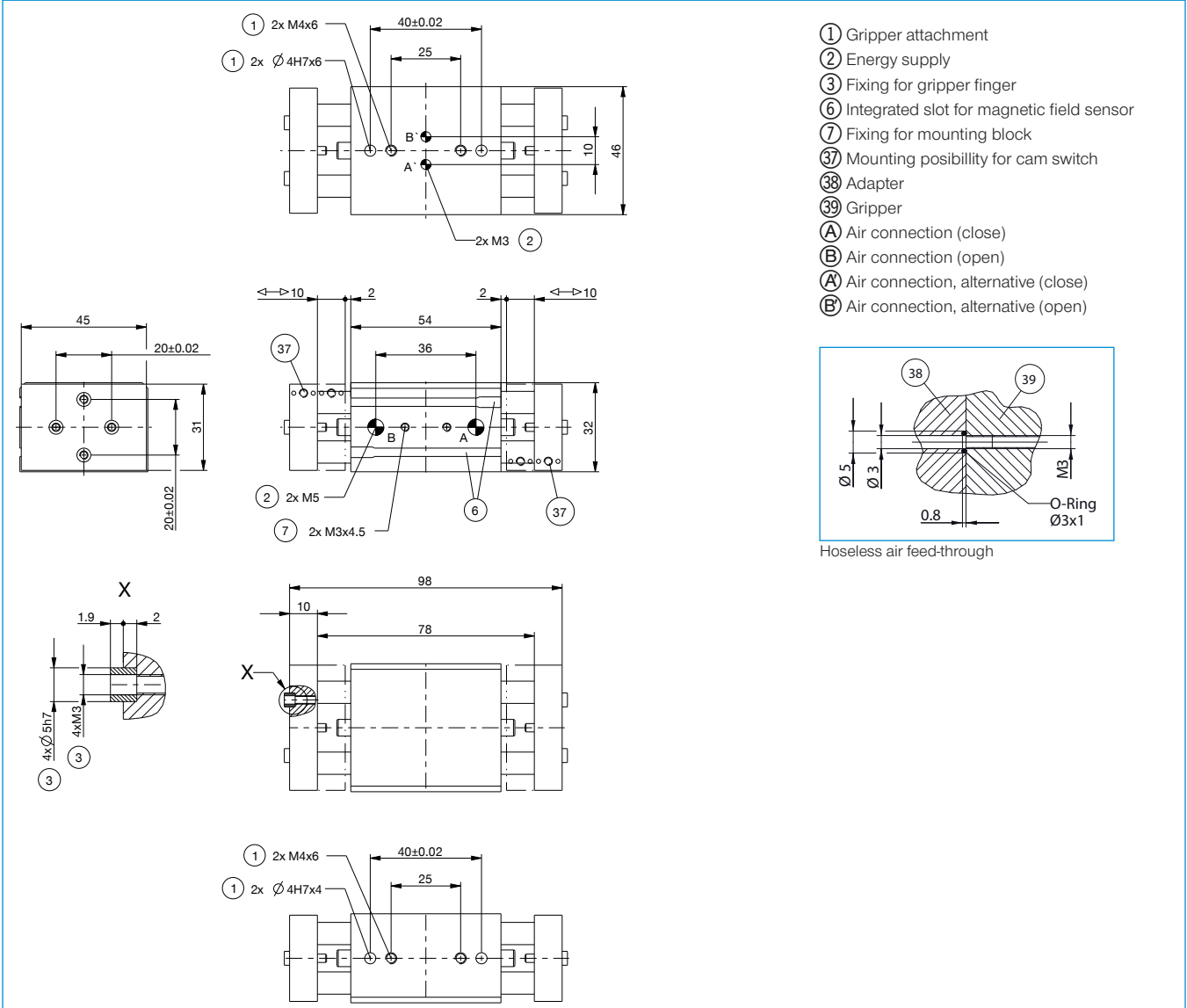


Straight Fittings - Quick Connect Style

GVM5

Order no.	MGH8010
Stroke per jaw [mm]	10
Gripping force in closing [N]	60
Gripping force in opening [N]	90
Closing time [s]	0.07
Opening time [s]	0.04
Repetition accuracy +/- [mm]	0.05
Operating pressure min. [bar]	3
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm³]	4
Weight [kg]	0.35

*All data measured at 6 bar



2-JAW PARALLEL GRIPPERS WITH LONG STROKE INSTALLATION SIZE MGH8020

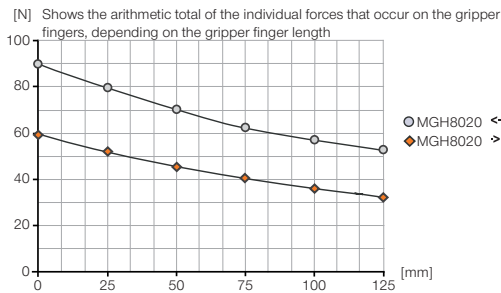
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Installation size MGH8020 / 2-Jaw Parallel Grippers with Long Stroke / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS

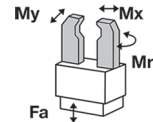


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	12
Mx [Nm]	12
My [Nm]	8
Fa [N]	260

▶ INCLUDED IN DELIVERY



Centering Disc

DST40400

▶ RECOMMENDED ACCESSORIES



Attachment Kit for Inductive Proximity Switch

ANS0028



Inductive proximity switch - Cable 5 m

NJ4-E2-01



Inductive Proximity Switch Cable 0,3 m - Connector M8

NJ4-E2SK-01



Magnetic field sensor Angled Cable 5 m

MFS103KHC



Magnetic field sensor Angled Cable 0,3 m - Connector M8

MFS103SKHC



Magnetic field sensor Straight Cable 5 m

MFS204KHC



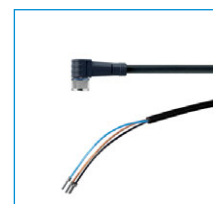
Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



Plug-in connector Straight Cable 5m - Socket M8 (female)

KAG500



Plug-in connector Angled Cable 5m - Socket M8 (female)

KAW500



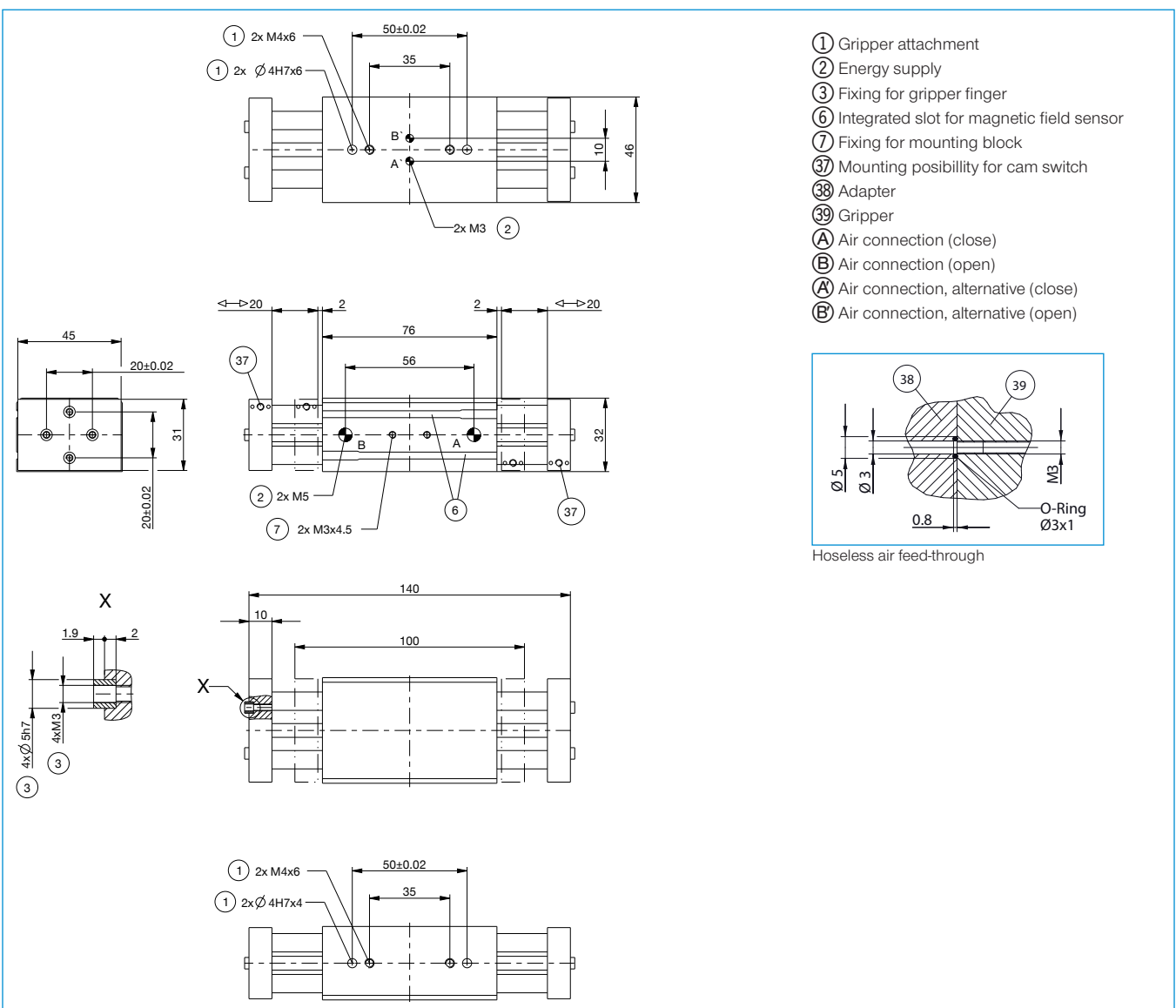
Straight Fittings - Quick Connect Style

GVM5

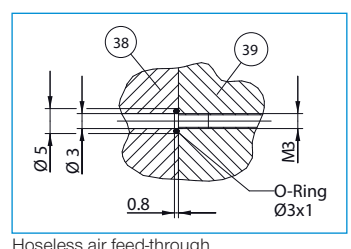
Order no.	MGH8020
Stroke per jaw [mm]	20
Gripping force in closing [N]	60
Gripping force in opening [N]	90
Closing time [s]	0.09
Opening time [s]	0.05
Repetition accuracy +/- [mm]	0.05
Operating pressure min. [bar]	3
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm³]	8
Weight [kg]	0.5

*All data measured at 6 bar

► Technical Data*



- ① Gripper attachment
- ② Energy supply
- ③ Fixing for gripper finger
- ⑥ Integrated slot for magnetic field sensor
- ⑦ Fixing for mounting block
- ③⑦ Mounting possibility for cam switch
- ③⑧ Adapter
- ③⑨ Gripper
- Ⓐ Air connection (close)
- Ⓑ Air connection (open)
- Ⓐ Air connection, alternative (close)
- Ⓑ Air connection, alternative (open)



2-JAW PARALLEL GRIPPERS WITH LONG STROKE INSTALLATION SIZE MGH8110

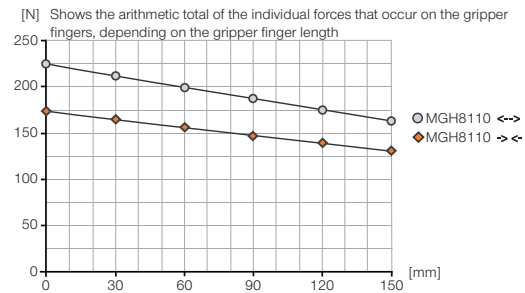
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Installation size MGH8110 / 2-Jaw Parallel Grippers with Long Stroke / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS

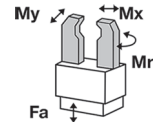


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	20
Mx [Nm]	20
My [Nm]	18
Fa [N]	435

▶ INCLUDED IN DELIVERY



Centering Disc

DST40800

▶ RECOMMENDED ACCESSORIES



Attachment Kit for Inductive Proximity Switch

ANS0020



Inductive proximity switch - Cable 5 m

NJ8-E2



Inductive proximity switch - Connector M8

NJ8-E2S



Magnetic field sensor Angled Cable 5 m

MFS103KHC



Magnetic field sensor Angled Cable 0,3 m - Connector M8

MFS103SKHC



Magnetic field sensor Straight Cable 5 m

MFS204KHC



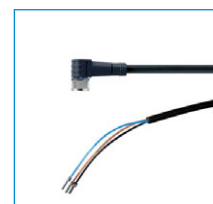
Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



Plug-in connector Straight Cable 5m - Socket M8 (female)

KAG500



Plug-in connector Angled Cable 5m - Socket M8 (female)

KAW500



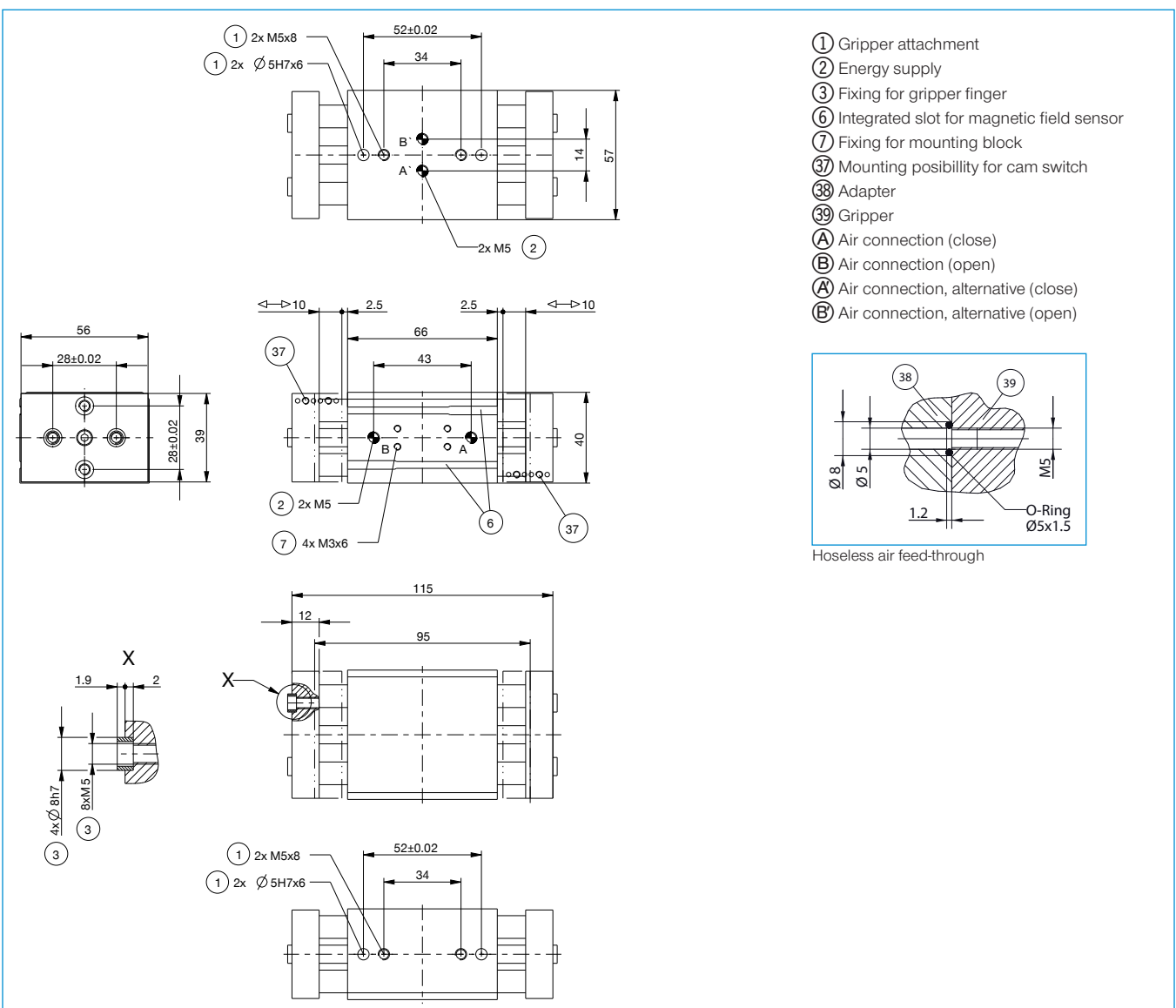
Straight Fittings - Quick Connect Style

GVM5

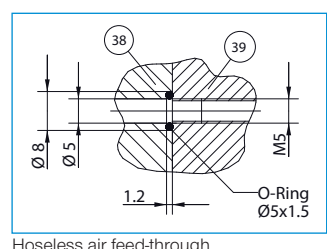
Order no.	MGH8110
Stroke per jaw [mm]	10
Gripping force in closing [N]	180
Gripping force in opening [N]	220
Closing time [s]	0.08
Opening time [s]	0.04
Repetition accuracy +/- [mm]	0.05
Operating pressure min. [bar]	3
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm³]	9.2
Weight [kg]	0.7

*All data measured at 6 bar

► Technical Data*



- ① Gripper attachment
- ② Energy supply
- ③ Fixing for gripper finger
- ⑥ Integrated slot for magnetic field sensor
- ⑦ Fixing for mounting block
- ③⑦ Mounting possibility for cam switch
- ③⑧ Adapter
- ③⑨ Gripper
- Ⓐ Air connection (close)
- Ⓑ Air connection (open)
- Ⓐ Air connection, alternative (close)
- Ⓑ Air connection, alternative (open)



2-JAW PARALLEL GRIPPERS WITH LONG STROKE INSTALLATION SIZE MGH8120

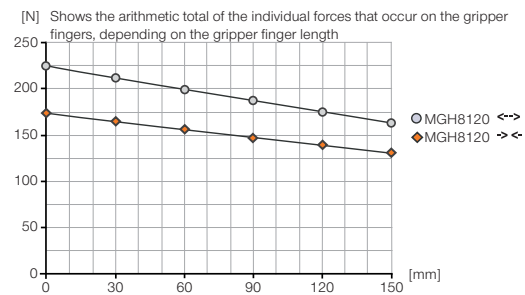
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Installation size MGH8120 / 2-Jaw Parallel Grippers with Long Stroke / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS

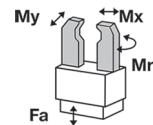


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	20
Mx [Nm]	20
My [Nm]	18
Fa [N]	435

▶ INCLUDED IN DELIVERY



Centering Disc

DST40800

▶ RECOMMENDED ACCESSORIES



Attachment Kit for Inductive Proximity Switch

ANS0021



Inductive proximity switch - Cable 5 m

NJ8-E2



Inductive proximity switch - Connector M8

NJ8-E2S



Magnetic field sensor Angled Cable 5 m

MFS103KHC



Magnetic field sensor Angled Cable 0,3 m - Connector M8

MFS103SKHC



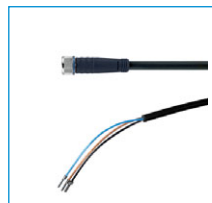
Magnetic field sensor Straight Cable 5 m

MFS204KHC



Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



Plug-in connector Straight Cable 5m - Socket M8 (female)

KAG500



Plug-in connector Angled Cable 5m - Socket M8 (female)

KAW500

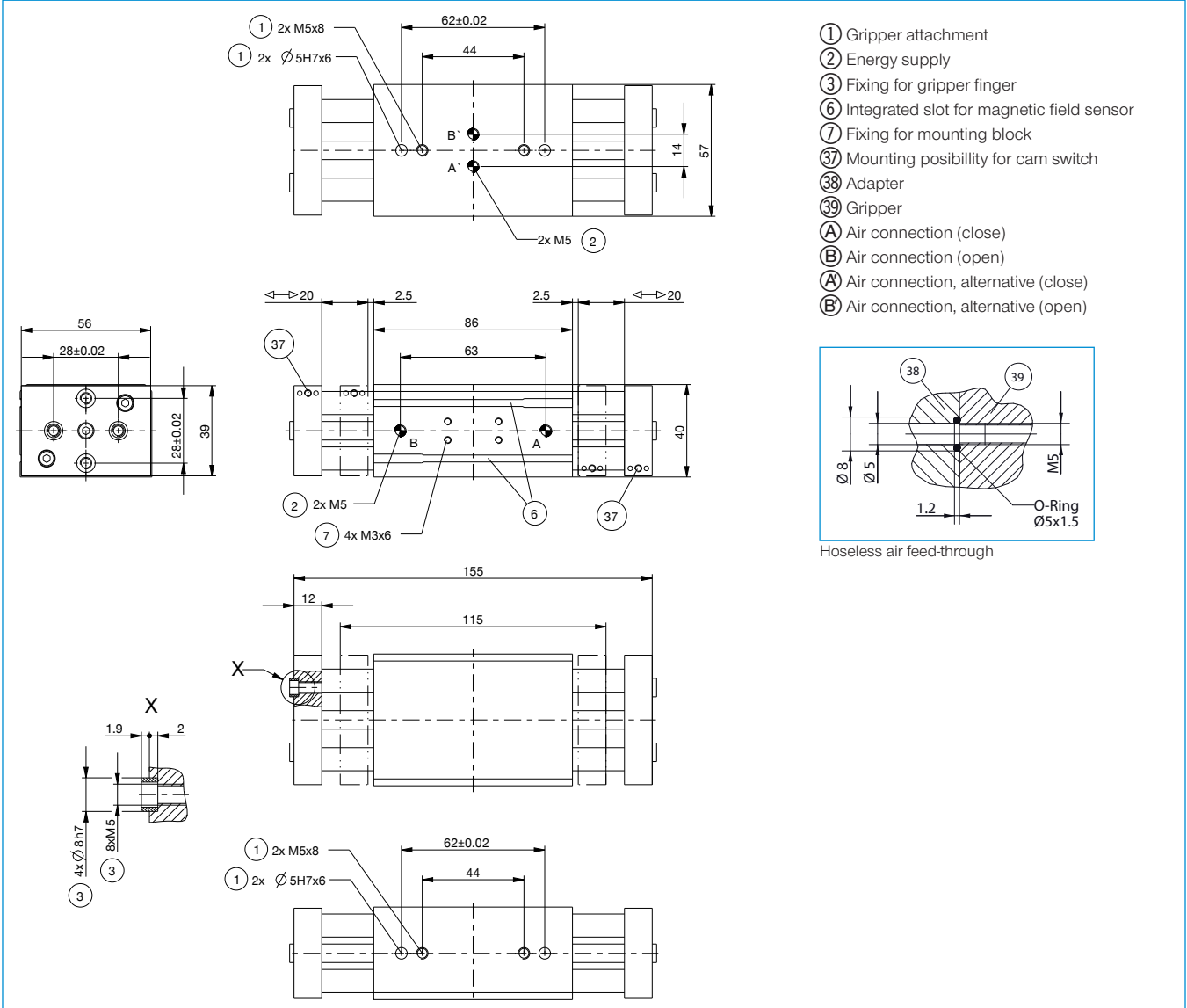


Straight Fittings - Quick Connect Style

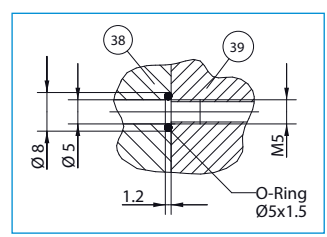
GVM5

Order no.	MGH8120
Stroke per jaw [mm]	20
Gripping force in closing [N]	190
Gripping force in opening [N]	220
Closing time [s]	0.1
Opening time [s]	0.06
Repetition accuracy +/- [mm]	0.05
Operating pressure min. [bar]	3
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm³]	18.4
Weight [kg]	0.85

*All data measured at 6 bar



- ① Gripper attachment
- ② Energy supply
- ③ Fixing for gripper finger
- ⑥ Integrated slot for magnetic field sensor
- ⑦ Fixing for mounting block
- ③⑦ Mounting possibility for cam switch
- ③⑧ Adapter
- ③⑨ Gripper
- Ⓐ Air connection (close)
- Ⓑ Air connection (open)
- Ⓐ Air connection, alternative (close)
- Ⓑ Air connection, alternative (open)



2-JAW PARALLEL GRIPPERS WITH LONG STROKE INSTALLATION SIZE MGH8230

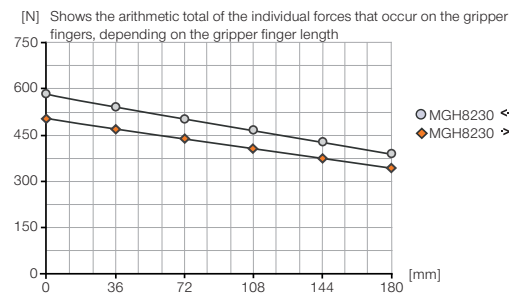
1

Installation size MGH8230 / 2-Jaw Parallel Grippers with Long Stroke / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS

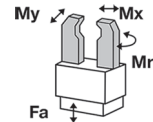


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	64
Mx [Nm]	64
My [Nm]	45
Fa [N]	760

▶ INCLUDED IN DELIVERY



Centering Disc

DST41000

▶ RECOMMENDED ACCESSORIES



Attachment Kit for Inductive Proximity Switch

ANS0022



Inductive proximity switch - Cable 5 m

NJ8-E2



Inductive proximity switch - Connector M8

NJ8-E2S



Magnetic field sensor Angled Cable 5 m

MFS103KHC



Magnetic field sensor Angled Cable 0,3 m - Connector M8

MFS103SKHC



Magnetic field sensor Straight Cable 5 m

MFS204KHC



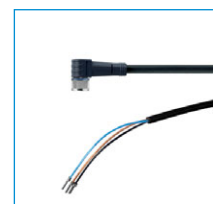
Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



Plug-in connector Straight Cable 5m - Socket M8 (female)

KAG500



Plug-in connector Angled Cable 5m - Socket M8 (female)

KAW500

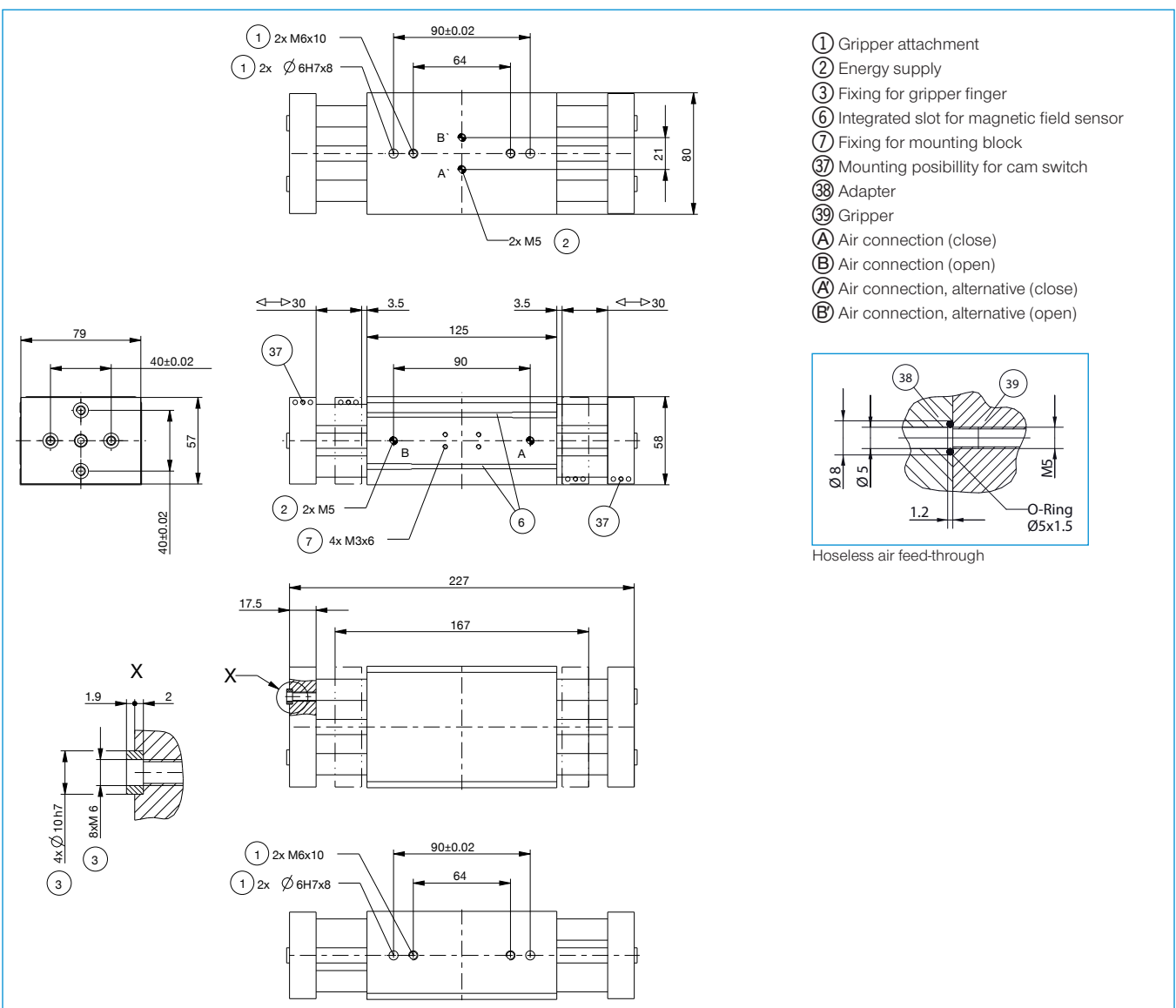


Straight Fittings - Quick Connect Style

GVM5

► Technical Data*	
Order no.	MGH8230
Stroke per jaw [mm]	30
Gripping force in closing [N]	500
Gripping force in opening [N]	570
Closing time [s]	0.14
Opening time [s]	0.1
Repetition accuracy +/- [mm]	0.05
Operating pressure min. [bar]	3
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm³]	64
Weight [kg]	2.4

*All data measured at 6 bar



- ① Gripper attachment
- ② Energy supply
- ③ Fixing for gripper finger
- ⑥ Integrated slot for magnetic field sensor
- ⑦ Fixing for mounting block
- ③⑦ Mounting possibility for cam switch
- ③⑧ Adapter
- ③⑨ Gripper
- Ⓐ Air connection (close)
- Ⓑ Air connection (open)
- Ⓐ Air connection, alternative (close)
- Ⓑ Air connection, alternative (open)

2-JAW PARALLEL GRIPPERS WITH LONG STROKE INSTALLATION SIZE MGH8240

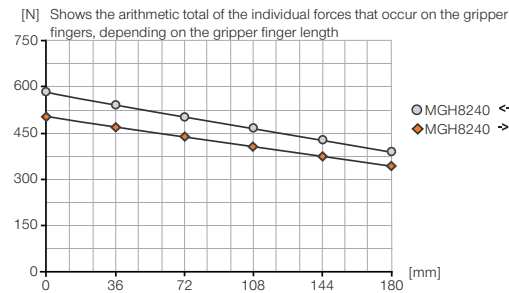
1

Installation size MGH8240 / 2-Jaw Parallel Grippers with Long Stroke / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS

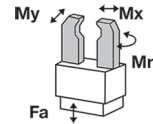


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	64
Mx [Nm]	64
My [Nm]	45
Fa [N]	760

▶ INCLUDED IN DELIVERY



Centering Disc

DST41000

▶ RECOMMENDED ACCESSORIES



Attachment Kit for Inductive Proximity Switch

ANS0023



Inductive proximity switch - Cable 5 m

NJ8-E2



Inductive proximity switch - Connector M8

NJ8-E2S



Magnetic field sensor Angled Cable 5 m

MFS103KHC



Magnetic field sensor Angled Cable 0,3 m - Connector M8

MFS103SKHC



Magnetic field sensor Straight Cable 5 m

MFS204KHC



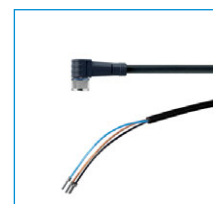
Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



Plug-in connector Straight Cable 5m - Socket M8 (female)

KAG500



Plug-in connector Angled Cable 5m - Socket M8 (female)

KAW500

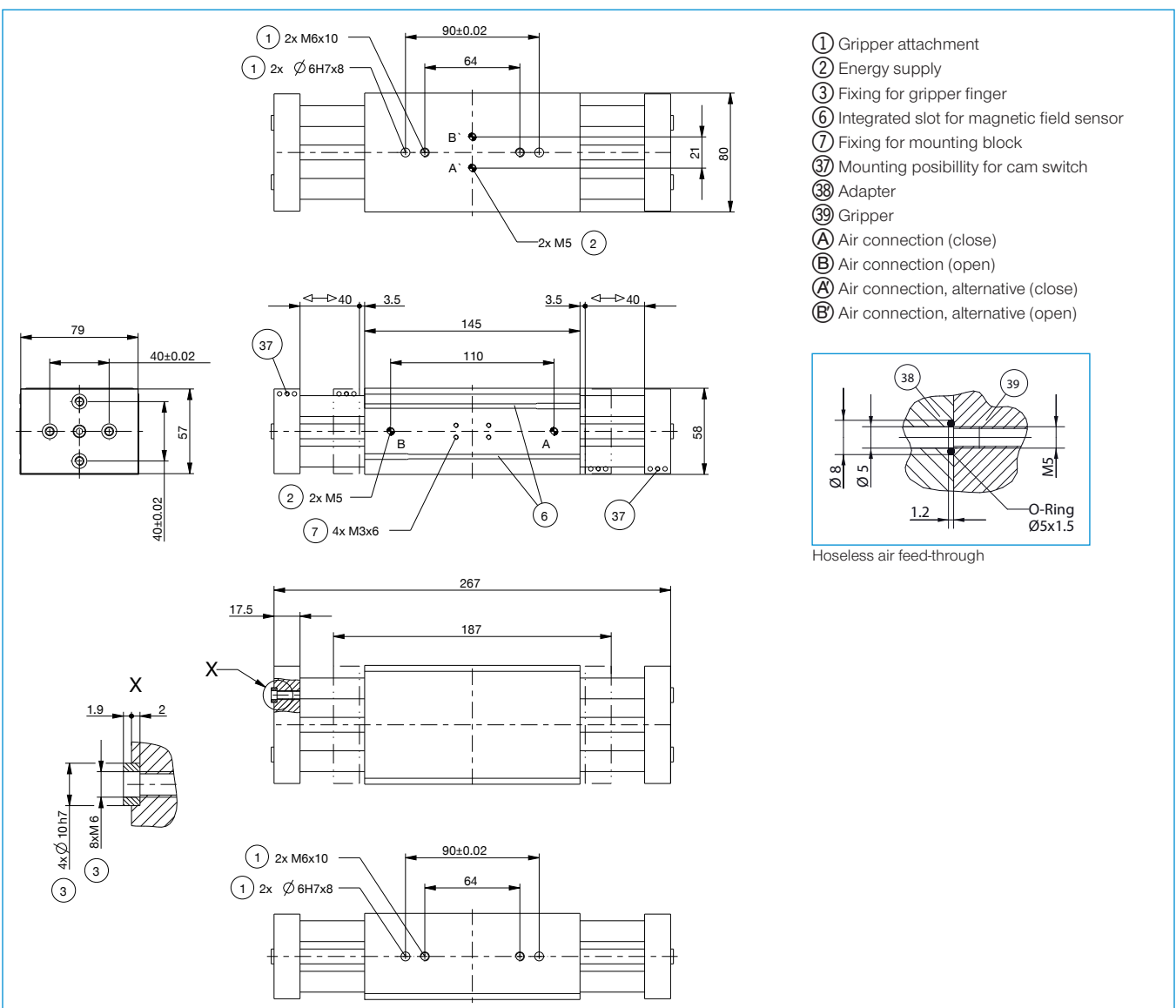


Straight Fittings - Quick Connect Style

GVM5

► Technical Data*	
Order no.	MGH8240
Stroke per jaw [mm]	40
Gripping force in closing [N]	500
Gripping force in opening [N]	570
Closing time [s]	0.18
Opening time [s]	0.14
Repetition accuracy +/- [mm]	0.05
Operating pressure min. [bar]	3
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm³]	128
Weight [kg]	2.9

*All data measured at 6 bar



2-JAW PARALLEL GRIPPERS WITH LONG STROKE INSTALLATION SIZE MGH8350

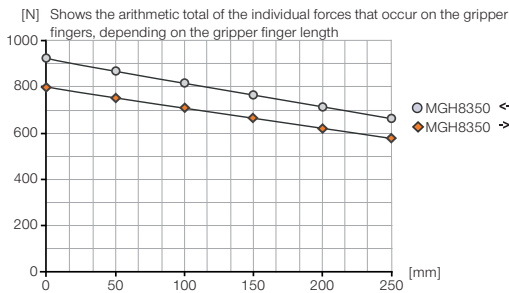
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Installation size MGH8350 / 2-Jaw Parallel Grippers with Long Stroke / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS

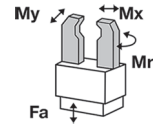


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	130
Mx [Nm]	130
My [Nm]	98
Fa [N]	1300

▶ INCLUDED IN DELIVERY



Centering Disc

DST41600

▶ RECOMMENDED ACCESSORIES



Attachment Kit for Inductive Proximity Switch

ANS0024



Inductive proximity switch - Cable 5 m

NJ8-E2



Inductive proximity switch - Connector M8

NJ8-E2S



Magnetic field sensor Angled Cable 5 m

MFS103KHC



Magnetic field sensor Angled Cable 0,3 m - Connector M8

MFS103SKHC



Magnetic field sensor Straight Cable 5 m

MFS204KHC



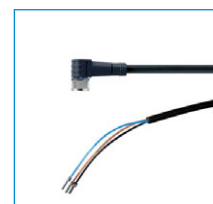
Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



Plug-in connector Straight Cable 5m - Socket M8 (female)

KAG500



Plug-in connector Angled Cable 5m - Socket M8 (female)

KAW500

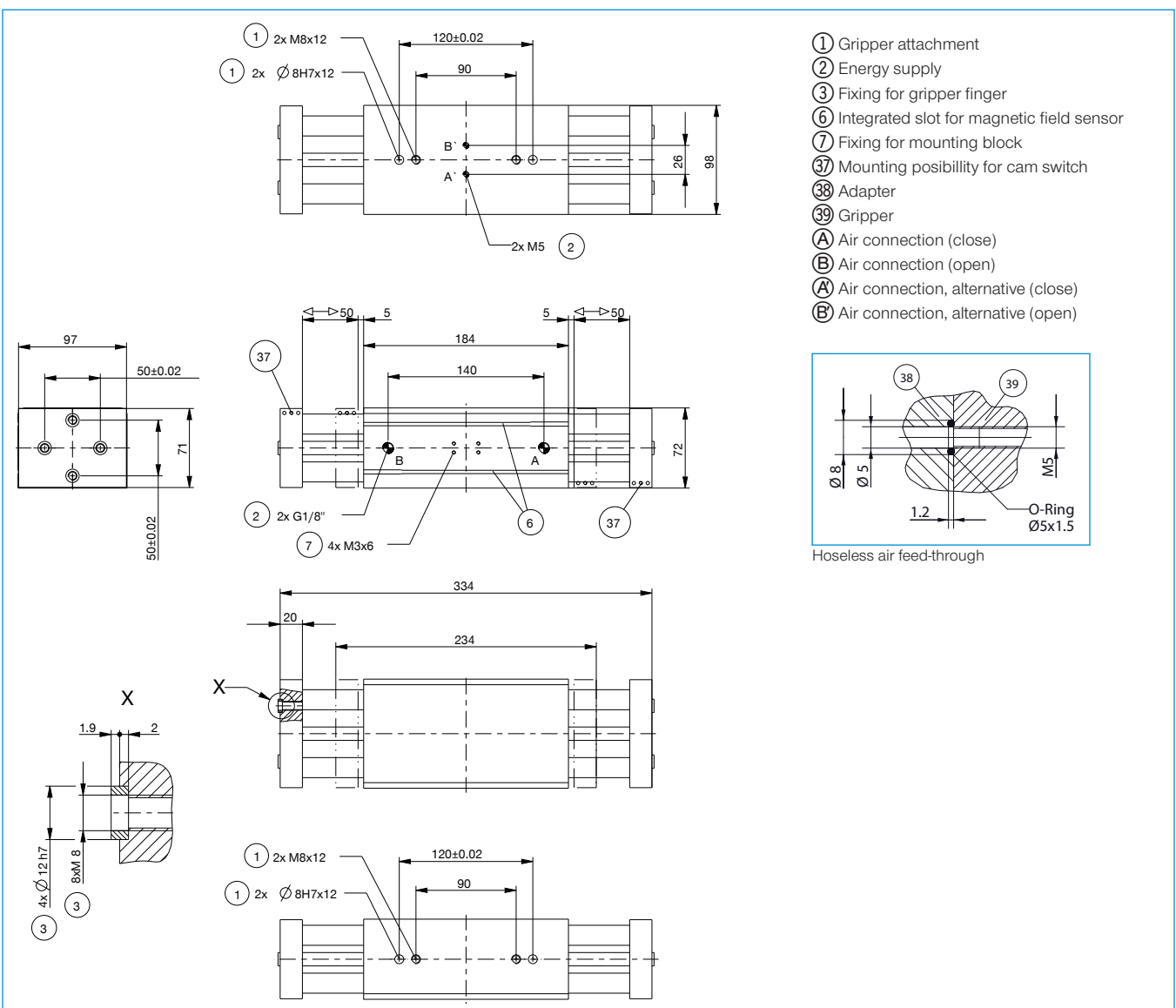


Straight Fittings - Quick Connect Style

GV1-8X6

► Technical Data*	
Order no.	MGH8350
Stroke per jaw [mm]	50
Gripping force in closing [N]	800
Gripping force in opening [N]	910
Closing time [s]	0.3
Opening time [s]	0.25
Repetition accuracy +/- [mm]	0.05
Operating pressure min. [bar]	3
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm³]	170
Weight [kg]	5.1

*All data measured at 6 bar



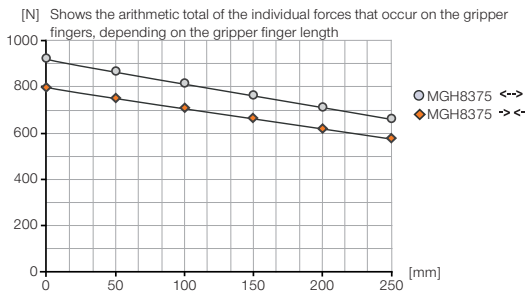
- ① Gripper attachment
- ② Energy supply
- ③ Fixing for gripper finger
- ⑥ Integrated slot for magnetic field sensor
- ⑦ Fixing for mounting block
- ③⑦ Mounting possibility for cam switch
- ③⑧ Adapter
- ③⑨ Gripper
- Ⓐ Air connection (close)
- Ⓑ Air connection (open)
- Ⓐ Air connection, alternative (close)
- Ⓑ Air connection, alternative (open)

2-JAW PARALLEL GRIPPERS WITH LONG STROKE INSTALLATION SIZE MGH8375

▶ PRODUCT SPECIFICATIONS

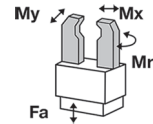


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	130
Mx [Nm]	130
My [Nm]	98
Fa [N]	1300

▶ INCLUDED IN DELIVERY



Centering Disc

DST41600

▶ RECOMMENDED ACCESSORIES



Attachment Kit for Inductive Proximity Switch

ANS0025



Inductive proximity switch - Cable 5 m

NJ8-E2



Inductive proximity switch - Connector M8

NJ8-E2S



Magnetic field sensor Angled Cable 5 m

MFS103KHC



Magnetic field sensor Angled Cable 0,3 m - Connector M8

MFS103SKHC



Magnetic field sensor Straight Cable 5 m

MFS204KHC



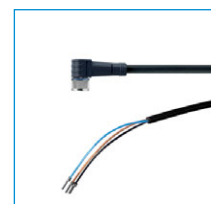
Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



Plug-in connector Straight Cable 5m - Socket M8 (female)

KAG500



Plug-in connector Angled Cable 5m - Socket M8 (female)

KAW500

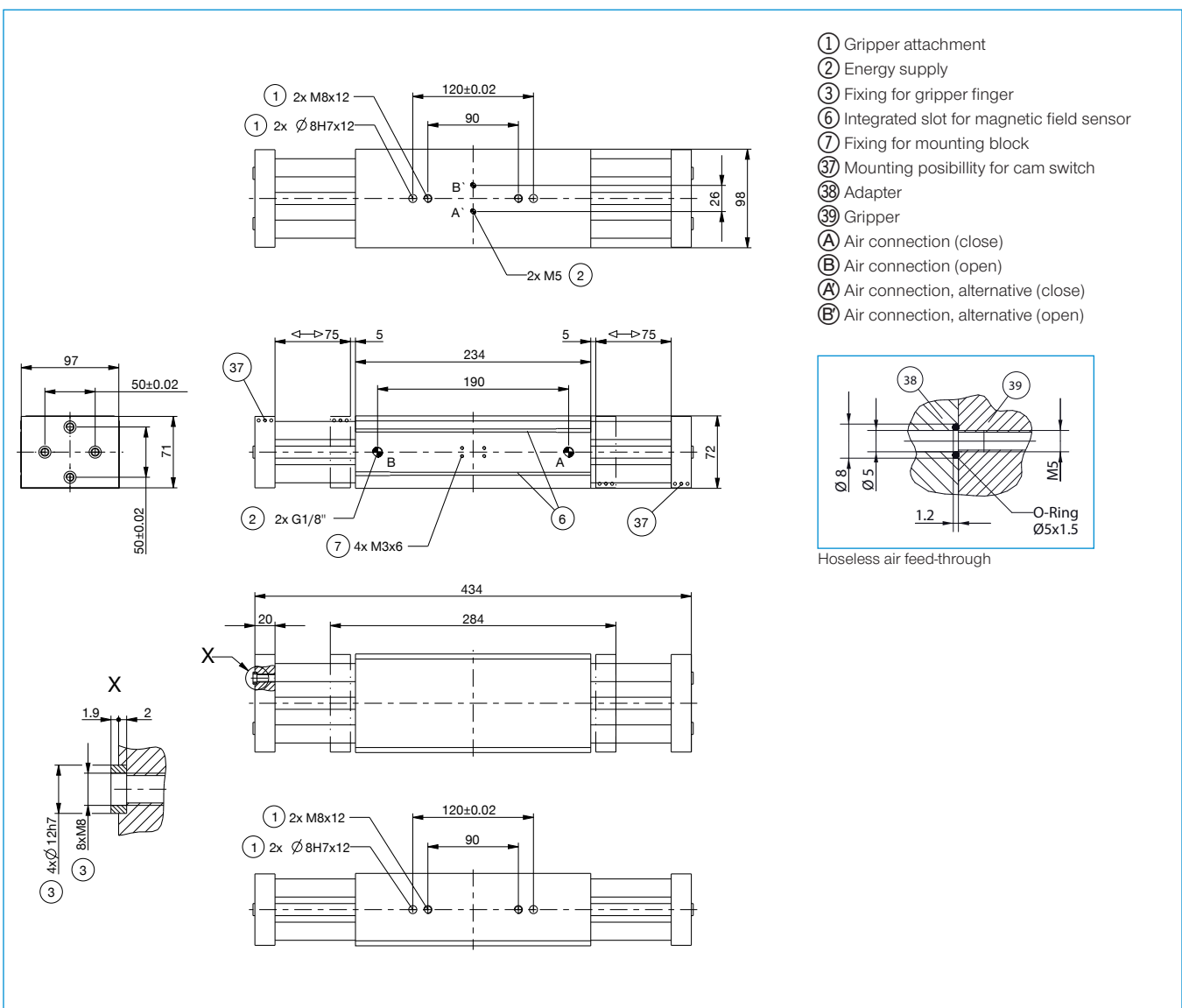


Straight Fittings - Quick Connect Style

GV1-8X6

Order no.	MGH8375
Stroke per jaw [mm]	75
Gripping force in closing [N]	800
Gripping force in opening [N]	910
Closing time [s]	0.4
Opening time [s]	0.35
Repetition accuracy +/- [mm]	0.05
Operating pressure min. [bar]	3
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm³]	255
Weight [kg]	6.2

*All data measured at 6 bar



2-JAW PARALLEL GRIPPERS WITH LONG STROKE INSTALLATION SIZE MGH83100

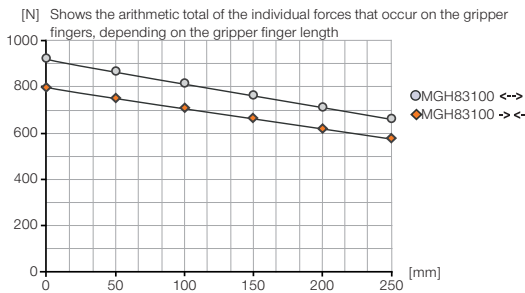
1

Installation size MGH83100 / 2-Jaw Parallel Grippers with Long Stroke / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS

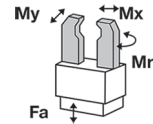


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	130
Mx [Nm]	130
My [Nm]	98
Fa [N]	1300

▶ INCLUDED IN DELIVERY



Centering Disc

DST41600

▶ RECOMMENDED ACCESSORIES



Attachment Kit for Inductive Proximity Switch

ANS0026



Inductive proximity switch - Cable 5 m

NJ8-E2



Inductive proximity switch - Connector M8

NJ8-E2S



Magnetic field sensor Angled Cable 5 m

MFS103KHC



Magnetic field sensor Angled Cable 0,3 m - Connector M8

MFS103SKHC



Magnetic field sensor Straight Cable 5 m

MFS204KHC



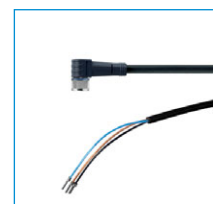
Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



Plug-in connector Straight Cable 5m - Socket M8 (female)

KAG500



Plug-in connector Angled Cable 5m - Socket M8 (female)

KAW500

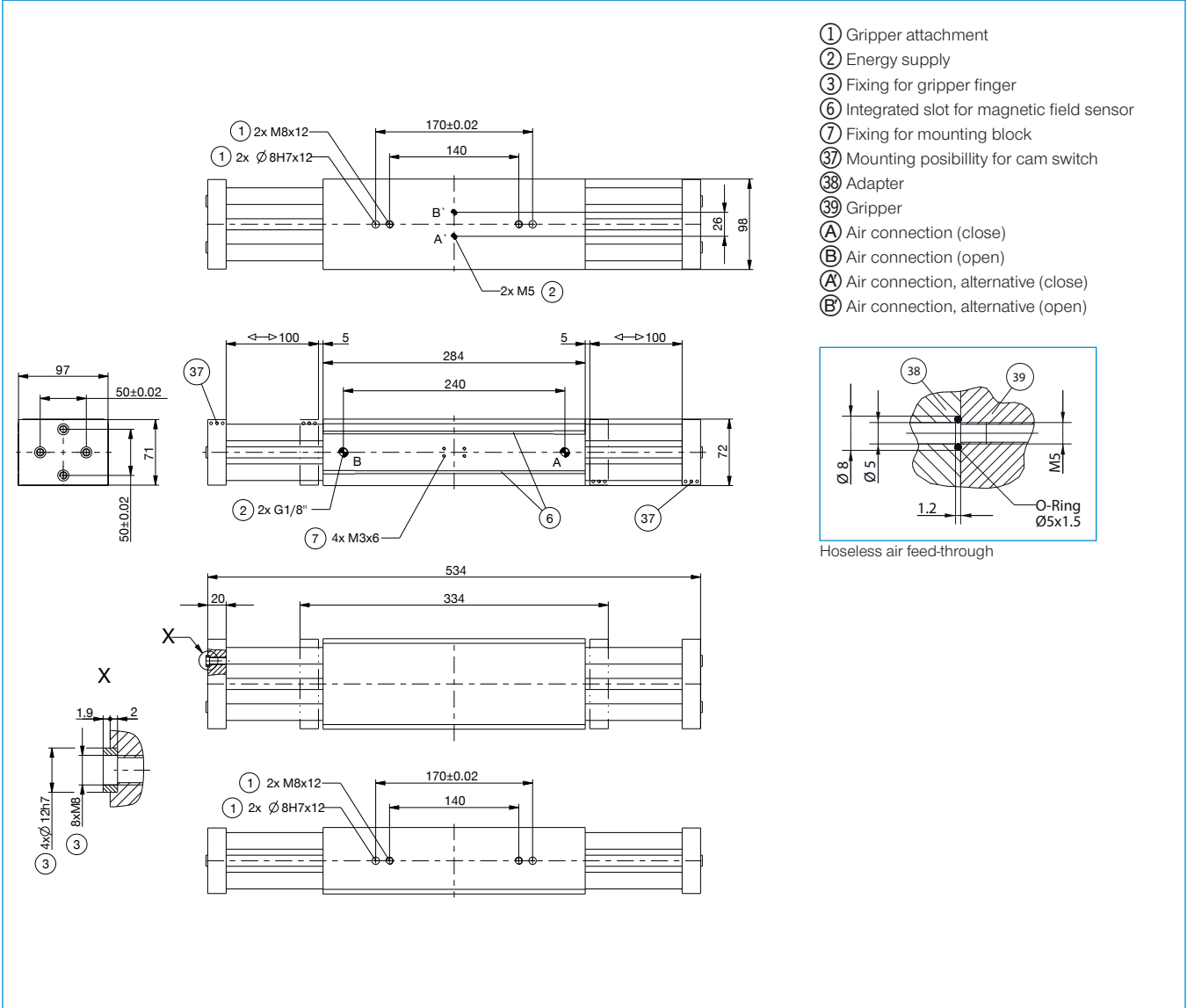


Straight Fittings - Quick Connect Style

GV1-8X6

Order no.	MGH83100
Stroke per jaw [mm]	100
Gripping force in closing [N]	800
Gripping force in opening [N]	910
Closing time [s]	0.5
Opening time [s]	0.4
Repetition accuracy +/- [mm]	0.05
Operating pressure min. [bar]	3
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm³]	340
Weight [kg]	7.3

*All data measured at 6 bar

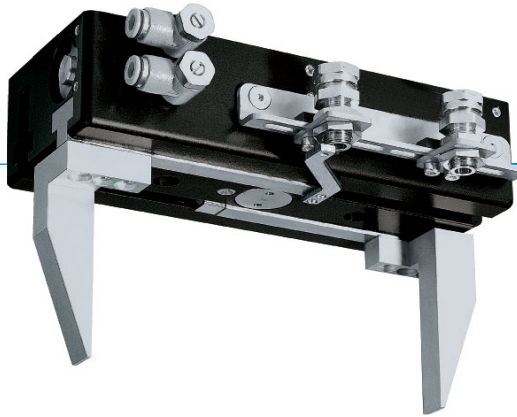


2-JAW PARALLEL GRIPPERS WITH LONG STROKE SERIES GH6000

1

Series GH6000 / 2-Jaw Parallel Grippers with Long Stroke / pneumatic / Grippers

▶ PRODUCT ADVANTAGES



“The robust”

▶ **Gripper jaws may be up to 25% longer in comparison to the benchmark**

The highest force and torque measurement enables flexible for maximum dynamics

▶ **Over 30% more powerful than the benchmark**

Optimisation of weight and force reduces your application costs since all components can have a smaller scale

▶ **Failure-free continuous operation**

Our uncompromising “Made in Germany” quality guarantees up to 10 million maintenance-free gripping cycles

▶ THE BEST PRODUCT FOR YOUR APPLICATION



▶ **Our products love the challenge!**

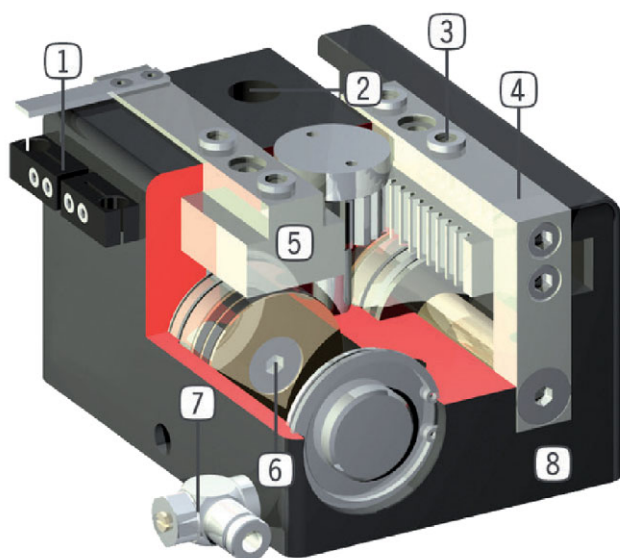
Extreme conditions, all over the world—our tried and tested components and systems give you limitless possibilities:

Find the best product for your specific use:

www.zimmer-group.com



► BENEFITS IN DETAIL



- ① **Mounting block**
- mounting for inductive proximity switch
- ② **Mounting and positioning**
- mounting possible from several sides for versatile positioning
- ③ **Removable centering sleeves**
- quick and economical positioning of the gripper fingers
- ④ **Gripper jaw**
- individual gripper finger mounting
- ⑤ **Precise long T-Slot guides**
- high forces and moments capacity
- ⑥ **Drive**
- two double-acting pneumatic cylinders
- synchronized by gearwheel
- ⑦ **Energy supply**
- possible from several sides
- CAUTION: always operate long stroke gripper with supplied exhaust air flow control valve (speed regulation)
- ⑧ **Robust, lightweight housing**
- Hard-coated aluminum alloy

► SERIES CHARACTERISTICS



Number of installation sizes	5
Stroke per jaw	20 mm - 200 mm
Gripping force	120 N - 3400 N
Weight	0,3 kg - 23,8 kg
AP class	3



10 million maintenance-free cycles (max.)



Inductive sensor



IP40



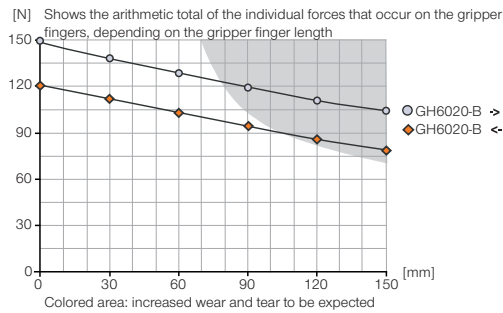
Magnetic field sensor

2-JAW PARALLEL GRIPPERS WITH LONG STROKE INSTALLATION SIZE GH6020

▶ PRODUCT SPECIFICATIONS

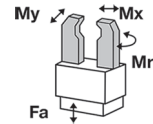


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	20
Mx [Nm]	20
My [Nm]	20
Fa [N]	500

▶ INCLUDED IN DELIVERY



Centering Disc

DST40400



Flow Control Valves - with Swivel joint

DRVM5X4

▶ RECOMMENDED ACCESSORIES



Universal Jaw Aluminium

UB6000-B



Magnetic field sensor Angled Cable 5 m

MFS103KHC



Magnetic field sensor Angled Cable 0,3 m - Connector M8

MFS103SKHC



Magnetic field sensor Straight Cable 5 m

MFS204KHC



Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



Plug-in connector Straight Cable 5m - Socket M8 (female)

KAG500



Plug-in connector Angled Cable 5m - Socket M8 (female)

KAW500



Plug-in connector customizable Straight - Connector M8

S8-G-3



Plug-in connector customizable Straight - Connector M12

S12-G-3

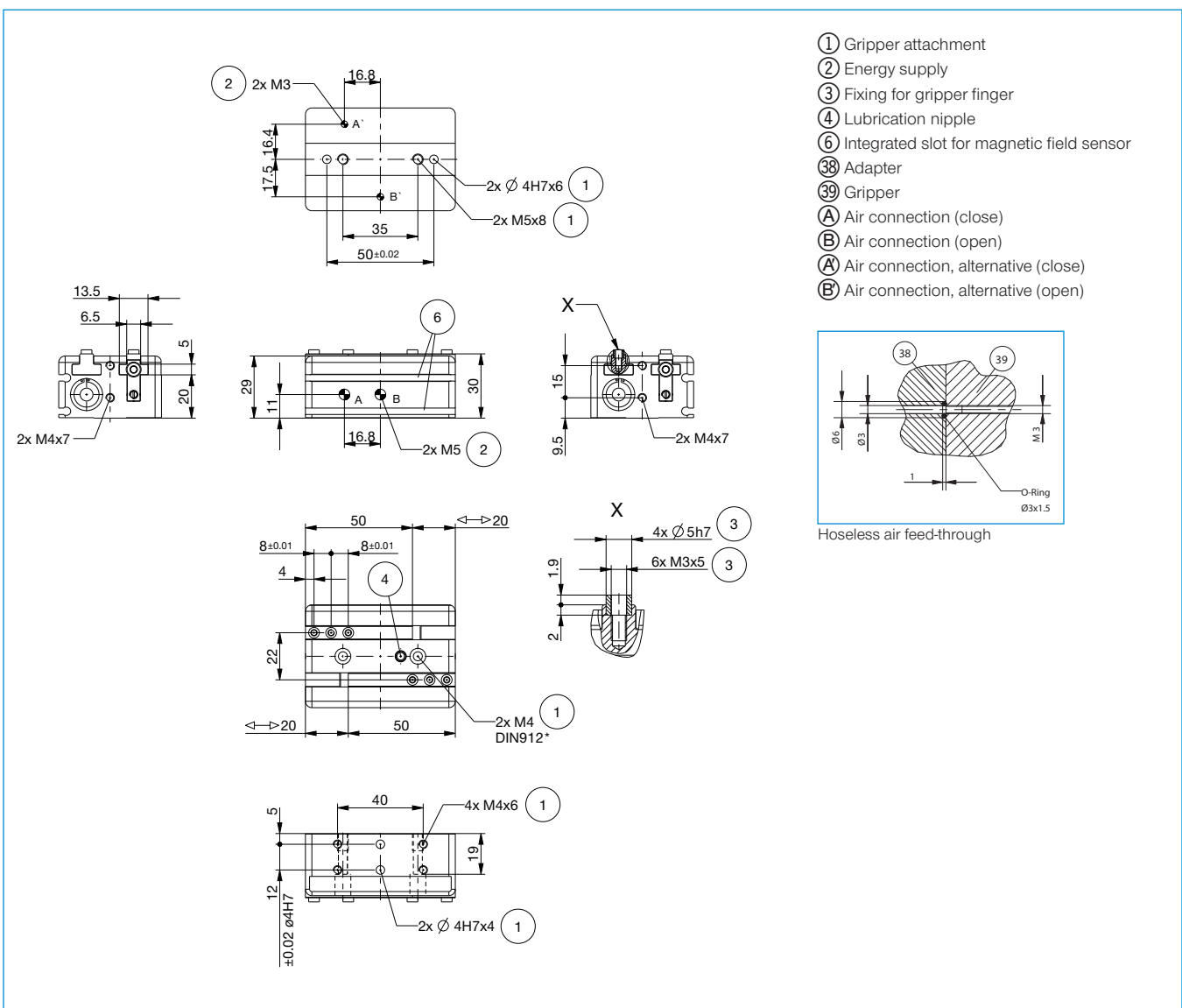


Pressure Safety Valve

DSV1-8

Order no.	Technical Data*
Stroke per jaw [mm]	20
Gripping force in closing [N]	150
Gripping force in opening [N]	120
Closing time [s]	0.1
Opening time [s]	0.1
Repetition accuracy +/- [mm]	0.05
Operating pressure min. [bar]	3
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm ³]	12
Weight [kg]	0.3

*All data measured at 6 bar



2-JAW PARALLEL GRIPPERS WITH LONG STROKE INSTALLATION SIZE GH6040

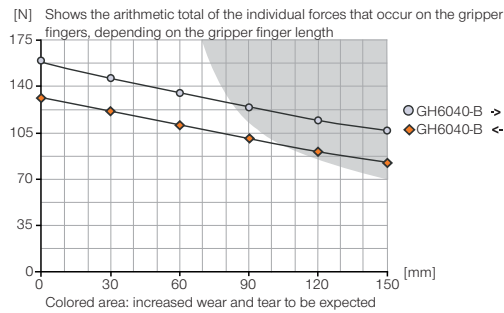
1

Installation size GH6040 / 2-Jaw Parallel Grippers with Long Stroke / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS

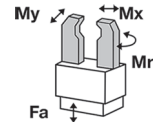


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	35
Mx [Nm]	35
My [Nm]	35
Fa [N]	500

▶ INCLUDED IN DELIVERY



Mounting block

KB6.5-04



Centering Disc

DST40400



Flow Control Valves - with Swivel joint

DRVM5X4

▶ RECOMMENDED ACCESSORIES



Universal Jaw Aluminium

UB6000-B



Inductive proximity switch - Cable 5 m

NJ6.5-E2-01



Inductive proximity switch - Connector M8

NJ6.5-E2S



Magnetic field sensor Angled Cable 5 m

MFS103KHC



Magnetic field sensor Angled Cable 0,3 m - Connector M8

MFS103SKHC



Magnetic field sensor Straight Cable 5 m

MFS204KHC



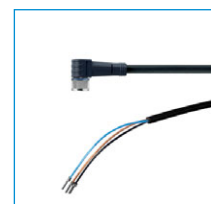
Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



Plug-in connector Straight Cable 5m - Socket M8 (female)

KAG500



Plug-in connector Angled Cable 5m - Socket M8 (female)

KAW500

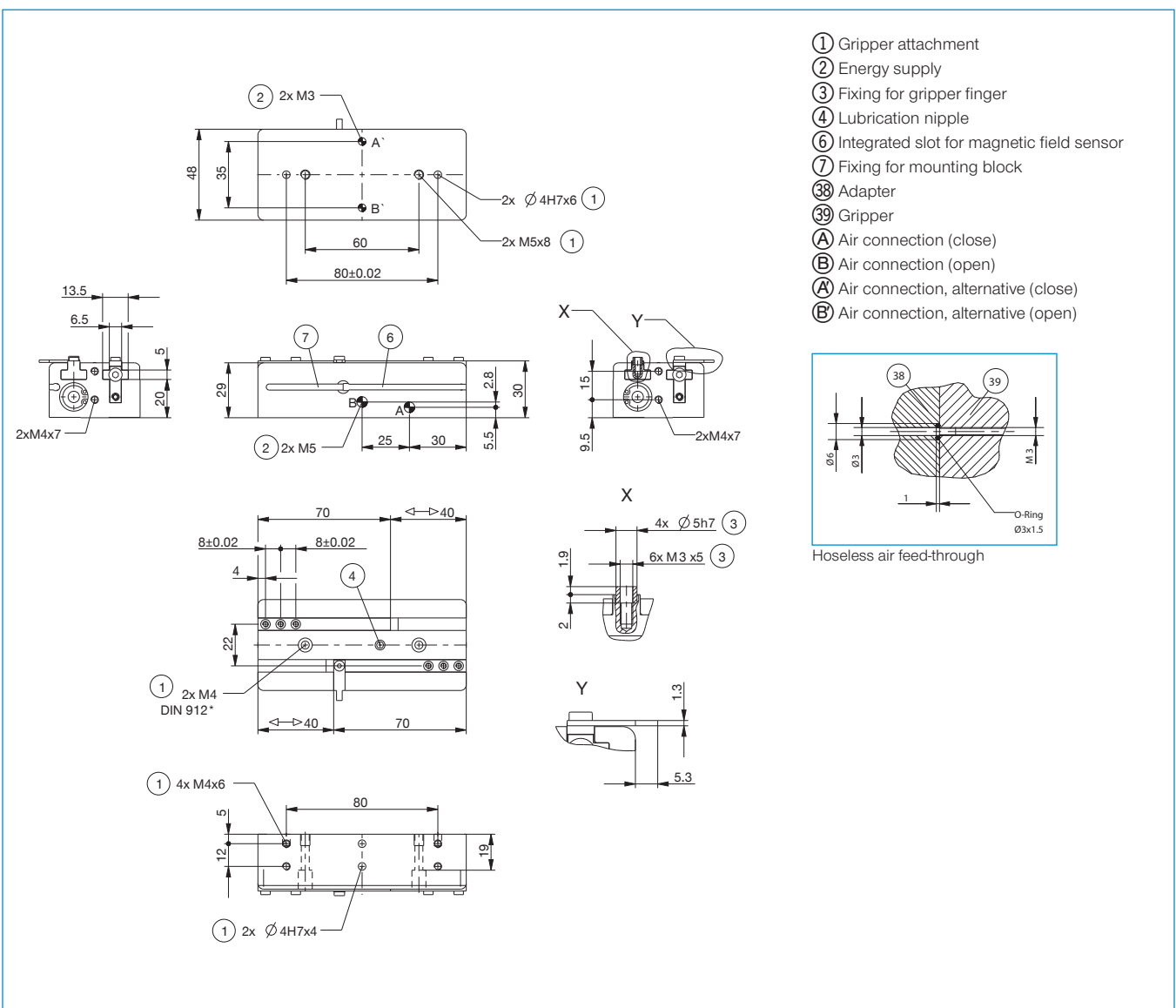


Pressure Safety Valve

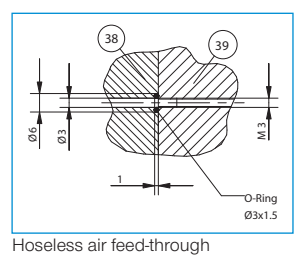
DSV1-8

Order no.	Technical Data*
Stroke per jaw [mm]	40
Gripping force in closing [N]	155
Gripping force in opening [N]	130
Closing time [s]	0.2
Opening time [s]	0.2
Repetition accuracy +/- [mm]	0.05
Operating pressure min. [bar]	3
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm³]	20
Weight [kg]	0.47

*All data measured at 6 bar



- ① Gripper attachment
- ② Energy supply
- ③ Fixing for gripper finger
- ④ Lubrication nipple
- ⑥ Integrated slot for magnetic field sensor
- ⑦ Fixing for mounting block
- ③⑧ Adapter
- ③⑨ Gripper
- A Air connection (close)
- B Air connection (open)
- A Air connection, alternative (close)
- B Air connection, alternative (open)

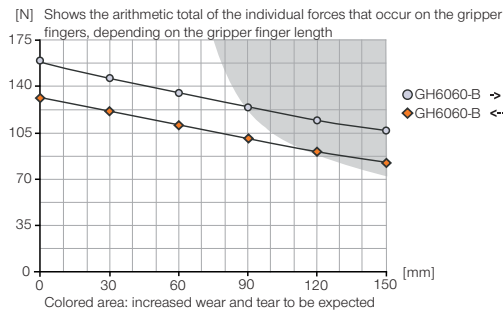


2-JAW PARALLEL GRIPPERS WITH LONG STROKE INSTALLATION SIZE GH6060

▶ PRODUCT SPECIFICATIONS

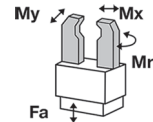


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	50
Mx [Nm]	50
My [Nm]	50
Fa [N]	500

▶ INCLUDED IN DELIVERY



Mounting block

KB6.5-04



Centering Disc

DST40400



Flow Control Valves - with Swivel joint

DRVM5X4

▶ RECOMMENDED ACCESSORIES



Universal Jaw Aluminium

UB6000-B



Inductive proximity switch - Cable 5 m

NJ6.5-E2-01



Inductive proximity switch - Connector M8

NJ6.5-E2S



Magnetic field sensor Angled Cable 5 m

MFS103KHC



Magnetic field sensor Angled Cable 0,3 m - Connector M8

MFS103SKHC



Magnetic field sensor Straight Cable 5 m

MFS204KHC



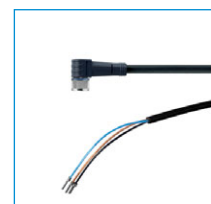
Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



Plug-in connector Straight Cable 5m - Socket M8 (female)

KAG500



Plug-in connector Angled Cable 5m - Socket M8 (female)

KAW500

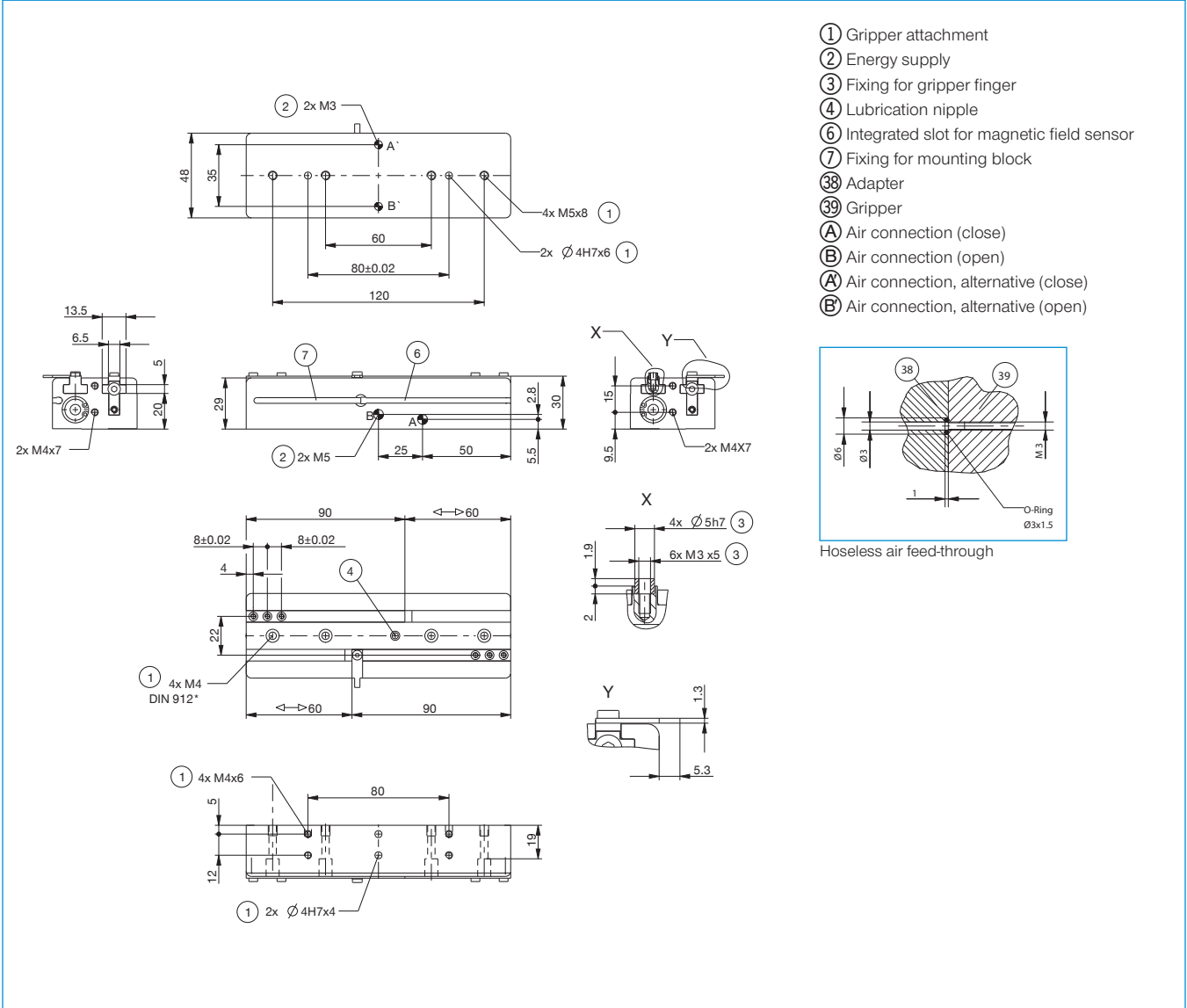


Pressure Safety Valve

DSV1-8

Order no.	Technical Data*
Stroke per jaw [mm]	60
Gripping force in closing [N]	155
Gripping force in opening [N]	130
Closing time [s]	0.25
Opening time [s]	0.25
Repetition accuracy +/- [mm]	0.05
Operating pressure min. [bar]	3
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm³]	30
Weight [kg]	0.6

*All data measured at 6 bar

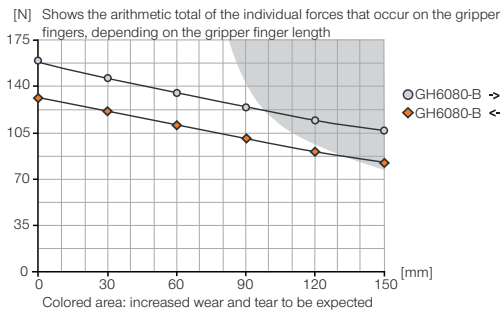


2-JAW PARALLEL GRIPPERS WITH LONG STROKE INSTALLATION SIZE GH6080

▶ PRODUCT SPECIFICATIONS

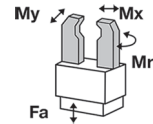


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	65
Mx [Nm]	65
My [Nm]	65
Fa [N]	500

▶ INCLUDED IN DELIVERY



Mounting block

KB6.5-04



Centering Disc

DST40400



Flow Control Valves - with Swivel joint

DRVM5X4

▶ RECOMMENDED ACCESSORIES



Universal Jaw Aluminium

UB6000-B



Inductive proximity switch - Cable 5 m

NJ6.5-E2-01



Inductive proximity switch - Connector M8

NJ6.5-E2S



Magnetic field sensor Angled Cable 5 m

MFS103KHC



Magnetic field sensor Angled Cable 0,3 m - Connector M8

MFS103SKHC



Magnetic field sensor Straight Cable 5 m

MFS204KHC



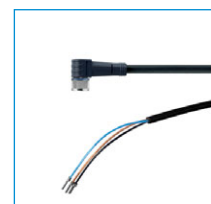
Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



Plug-in connector Straight Cable 5m - Socket M8 (female)

KAG500



Plug-in connector Angled Cable 5m - Socket M8 (female)

KAW500

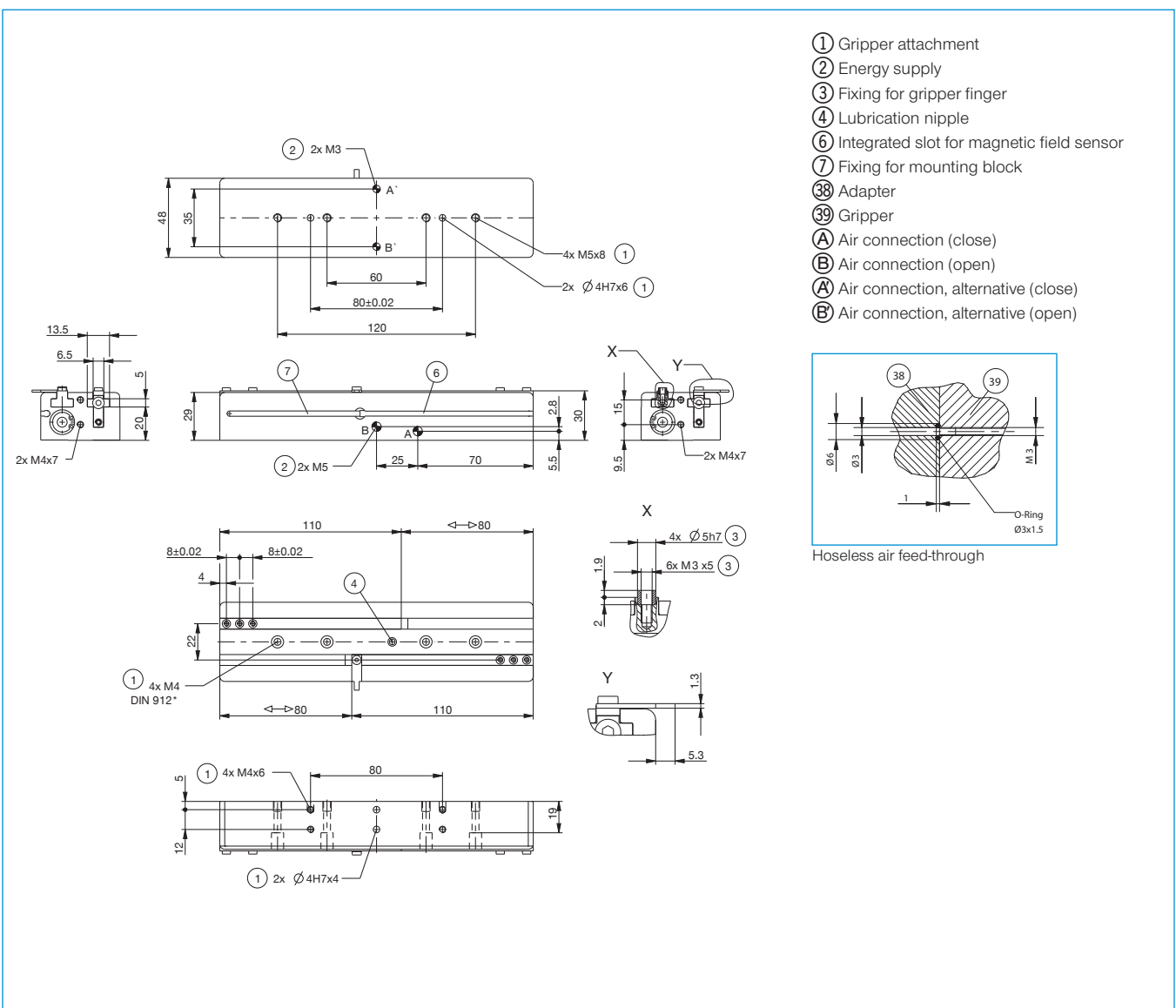


Pressure Safety Valve

DSV1-8

Order no.	Technical Data*
Stroke per jaw [mm]	80
Gripping force in closing [N]	155
Gripping force in opening [N]	130
Closing time [s]	0.3
Opening time [s]	0.3
Repetition accuracy +/- [mm]	0.05
Operating pressure min. [bar]	3
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm³]	40
Weight [kg]	0.75

*All data measured at 6 bar

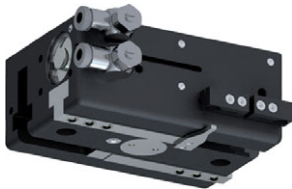


2-JAW PARALLEL GRIPPERS WITH LONG STROKE INSTALLATION SIZE GH6140

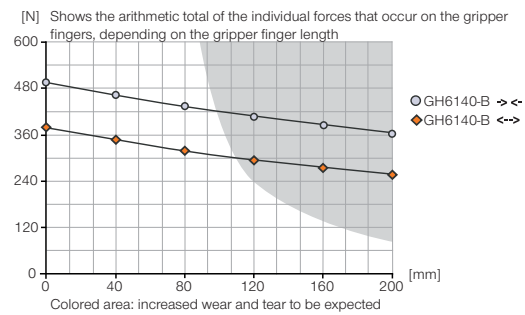
1

Installation size GH6140 / 2-Jaw Parallel Grippers with Long Stroke / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS

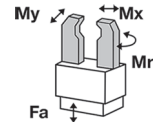


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	70
Mx [Nm]	100
My [Nm]	60
Fa [N]	1500

▶ INCLUDED IN DELIVERY



Mounting block

KB8-27



Centering Disc

DST60800



Flow Control Valves - with Swivel joint

DRV1-8X8

▶ RECOMMENDED ACCESSORIES



Universal Jaw Aluminium

UB6100-B



Alternate proximity bracket

KHA6140-B-8



Inductive proximity switch - Cable 5 m

NJ8-E2



Inductive proximity switch - Connector M8

NJ8-E2S



Magnetic field sensor Angled Cable 5 m

MFS103KHC



Magnetic field sensor Angled Cable 0,3 m - Connector M8

MFS103SKHC



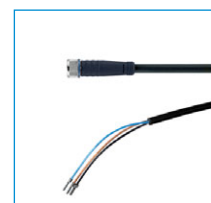
Magnetic field sensor Straight Cable 5 m

MFS204KHC



Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



Plug-in connector Straight Cable 5m - Socket M8 (female)

KAG500

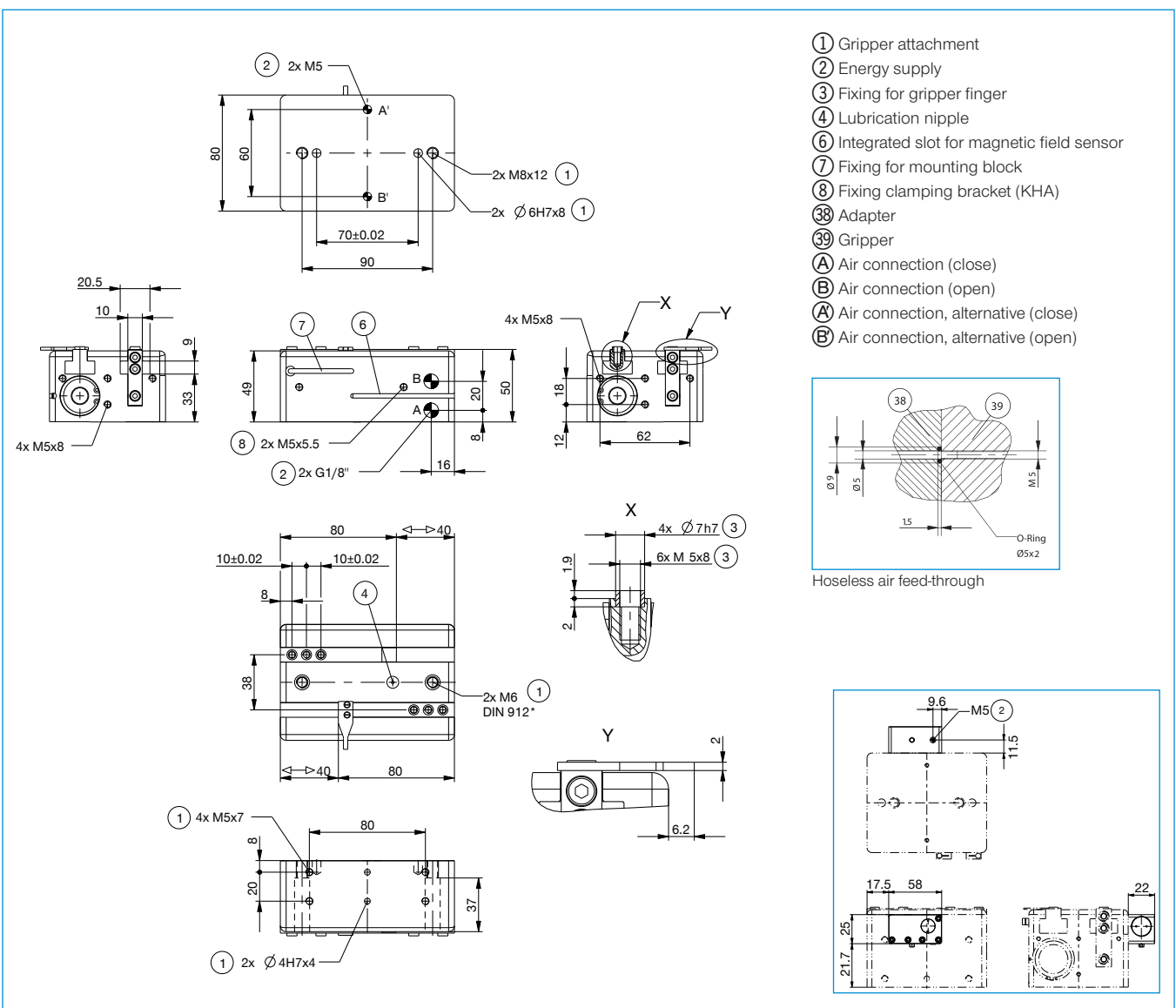


Plug-in connector Angled Cable 5m - Socket M8 (female)

KAW500

Order no.	► Technical Data*	
	GH6140-B	GHK6140
Stroke per jaw [mm]	40	40
Gripping force in closing [N]	490	490
Gripping force in opening [N]	370	370
Retention force in case of drop in pressure [N]		300
Closing time [s]	0.25	0.25
Opening time [s]	0.25	0.25
Repetition accuracy +/- [mm]	0.05	0.05
Operating pressure min. [bar]	3	3
Operating pressure max. [bar]	8	8
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm³]	73	73
Weight [kg]	1.5	1.7

*All data measured at 6 bar
GHK series, see page 221



2-JAW PARALLEL GRIPPERS WITH LONG STROKE INSTALLATION SIZE GH6160

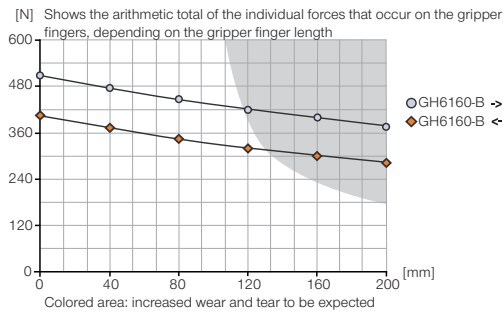
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Installation size GH6160 / 2-Jaw Parallel Grippers with Long Stroke / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS

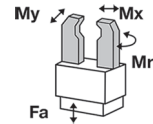


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	85
Mx [Nm]	120
My [Nm]	75
Fa [N]	1500

▶ INCLUDED IN DELIVERY



Mounting block

KB8-27



Centering Disc

DST60800



Flow Control Valves - with Swivel joint

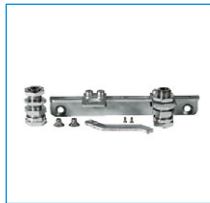
DRV1-8X8

▶ RECOMMENDED ACCESSORIES



Universal Jaw Aluminium

UB6100-B



Alternate proximity bracket

KHA6160-B-8



Inductive proximity switch - Cable 5 m

NJ8-E2



Inductive proximity switch - Connector M8

NJ8-E2S



Magnetic field sensor Angled Cable 5 m

MFS103KHC



Magnetic field sensor Angled Cable 0,3 m - Connector M8

MFS103SKHC



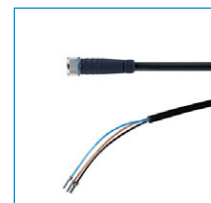
Magnetic field sensor Straight Cable 5 m

MFS204KHC



Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



Plug-in connector Straight Cable 5m - Socket M8 (female)

KAG500

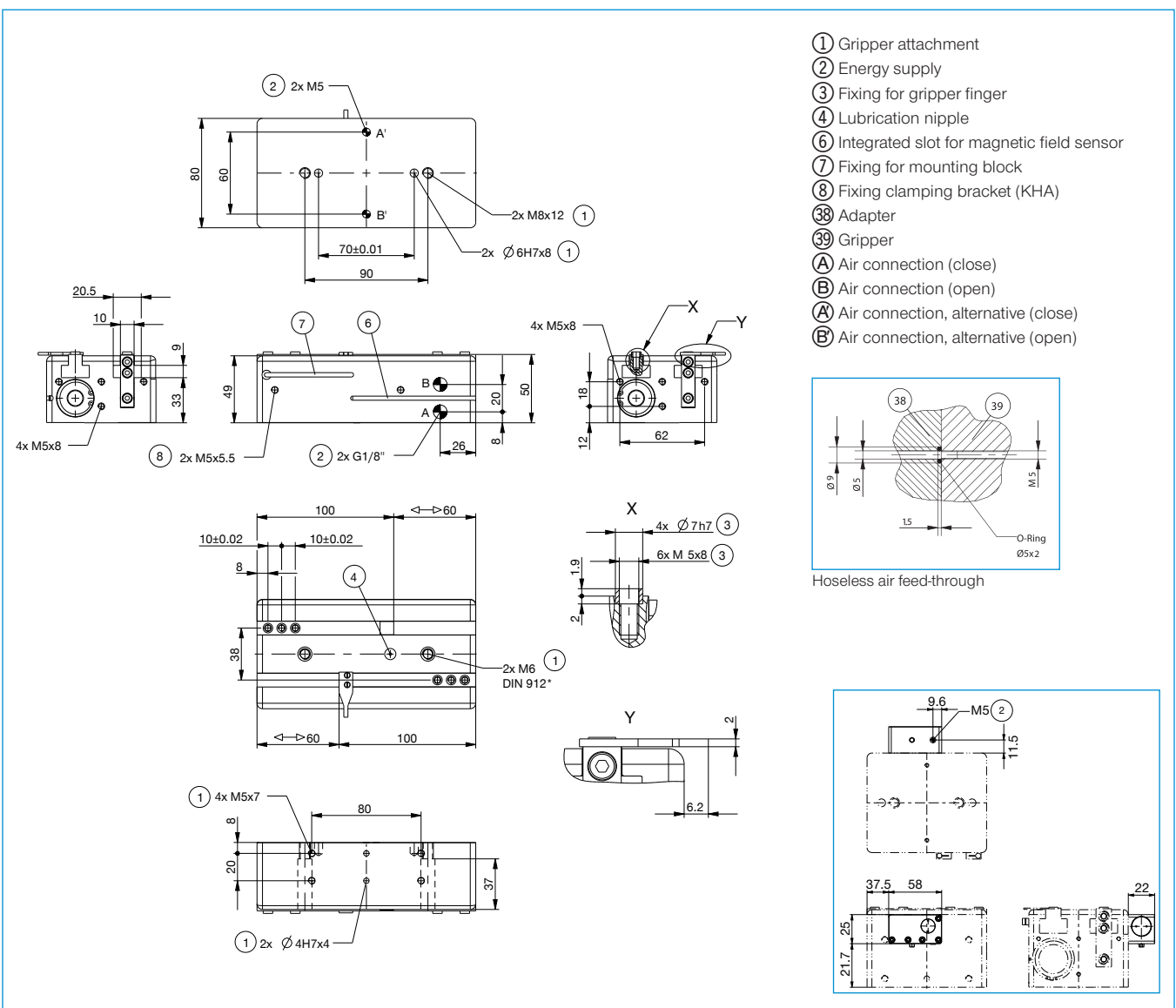


Plug-in connector Angled Cable 5m - Socket M8 (female)

KAW500

Order no.	► Technical Data*	
	GH6160-B	GHK6160
Stroke per jaw [mm]	60	60
Gripping force in closing [N]	510	510
Gripping force in opening [N]	400	400
Retention force in case of drop in pressure [N]		300
Closing time [s]	0.3	0.3
Opening time [s]	0.3	0.3
Repetition accuracy +/- [mm]	0.05	0.05
Operating pressure min. [bar]	3	3
Operating pressure max. [bar]	8	8
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm ³]	109	109
Weight [kg]	1.9	2.1

*All data measured at 6 bar
GHK series, see page 221



2-JAW PARALLEL GRIPPERS WITH LONG STROKE INSTALLATION SIZE GH6180

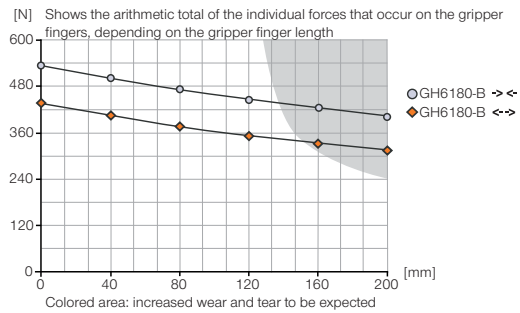
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Installation size GH6180 / 2-Jaw Parallel Grippers with Long Stroke / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS

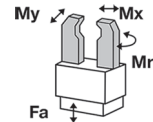


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	120
Mx [Nm]	140
My [Nm]	90
Fa [N]	1500

▶ INCLUDED IN DELIVERY



Mounting block

KB8-27



Centering Disc

DST60800



Flow Control Valves - with Swivel joint

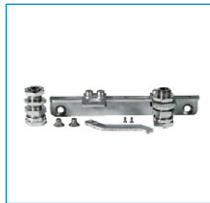
DRV1-8X8

▶ RECOMMENDED ACCESSORIES



Universal Jaw Aluminium

UB6100-B



Alternate proximity bracket

KHA6180-B-8



Inductive proximity switch - Cable 5 m

NJ8-E2



Inductive proximity switch - Connector M8

NJ8-E2S



Magnetic field sensor Angled Cable 5 m

MFS103KHC



Magnetic field sensor Angled Cable 0,3 m - Connector M8

MFS103SKHC



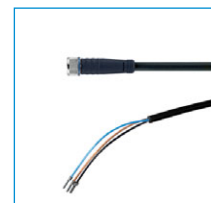
Magnetic field sensor Straight Cable 5 m

MFS204KHC



Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



Plug-in connector Straight Cable 5m - Socket M8 (female)

KAG500

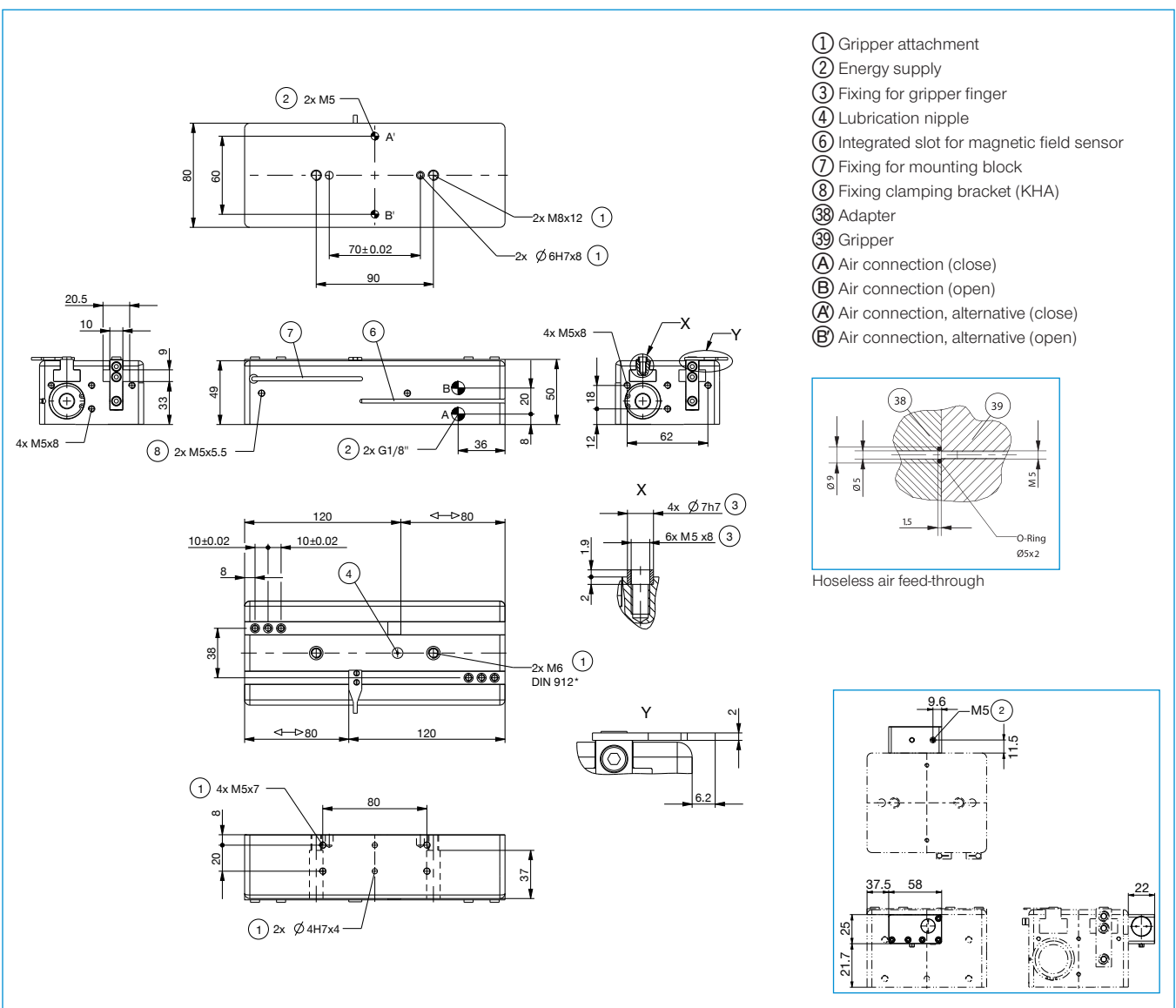


Plug-in connector Angled Cable 5m - Socket M8 (female)

KAW500

Order no.	► Technical Data*	
	GH6180-B	GHK6180
Stroke per jaw [mm]	80	80
Gripping force in closing [N]	530	530
Gripping force in opening [N]	430	430
Retention force in case of drop in pressure [N]		300
Closing time [s]	0.35	0.35
Opening time [s]	0.35	0.35
Repetition accuracy +/- [mm]	0.05	0.05
Operating pressure min. [bar]	3	3
Operating pressure max. [bar]	8	8
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm³]	145	145
Weight [kg]	2.2	2.4

*All data measured at 6 bar
GHK series, see page 221

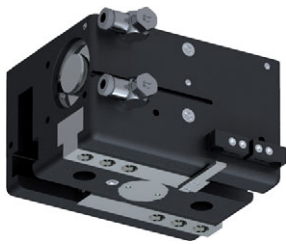


2-JAW PARALLEL GRIPPERS WITH LONG STROKE INSTALLATION SIZE GH6240

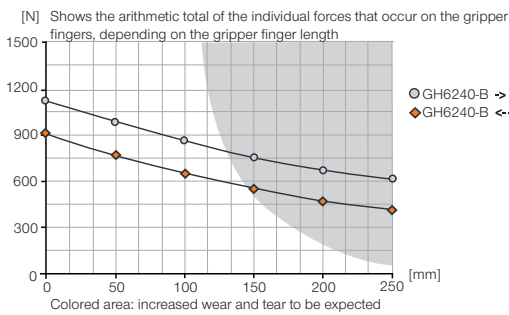
1

Installation size GH6240 / 2-Jaw Parallel Grippers with Long Stroke / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS

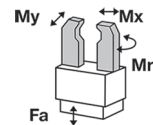


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	100
Mx [Nm]	125
My [Nm]	80
Fa [N]	3000

▶ INCLUDED IN DELIVERY



Mounting block

KB8-28



Centering Disc

DST41000



Flow Control Valves - with Swivel joint

DRV1-8X8

▶ RECOMMENDED ACCESSORIES



Universal Jaw Aluminium

UB6200-B



Alternate proximity bracket

KHA6240-B-8



Inductive proximity switch - Cable 5 m

NJ8-E2



Inductive proximity switch - Connector M8

NJ8-E2S



Magnetic field sensor Angled Cable 5 m

MFS103KHC



Magnetic field sensor Angled Cable 0,3 m - Connector M8

MFS103SKHC



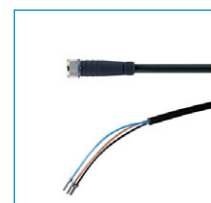
Magnetic field sensor Straight Cable 5 m

MFS204KHC



Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



Plug-in connector Straight Cable 5m - Socket M8 (female)

KAG500

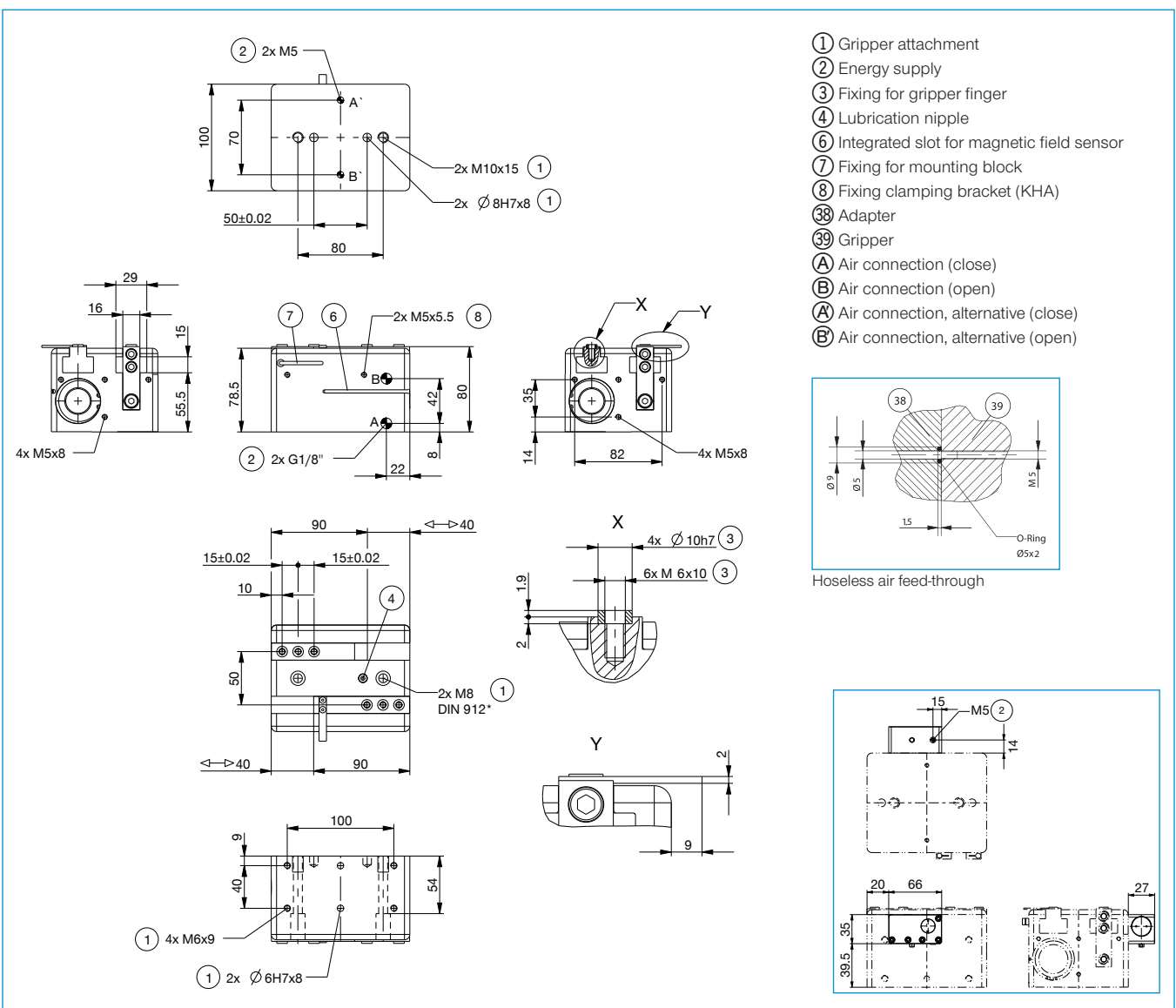


Plug-in connector Angled Cable 5m - Socket M8 (female)

KAW500

Order no.	Technical Data*	
	GH6240-B	GHK6240
Stroke per jaw [mm]	40	40
Gripping force in closing [N]	1120	1120
Gripping force in opening [N]	900	900
Retention force in case of drop in pressure [N]		640
Closing time [s]	0.3	0.3
Opening time [s]	0.3	0.3
Repetition accuracy +/- [mm]	0.05	0.05
Operating pressure min. [bar]	3	3
Operating pressure max. [bar]	8	8
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm³]	183	183
Weight [kg]	3.3	3.8

*All data measured at 6 bar
GHK series, see page 221

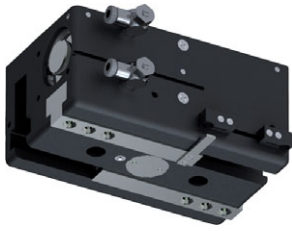


2-JAW PARALLEL GRIPPERS WITH LONG STROKE INSTALLATION SIZE GH6260

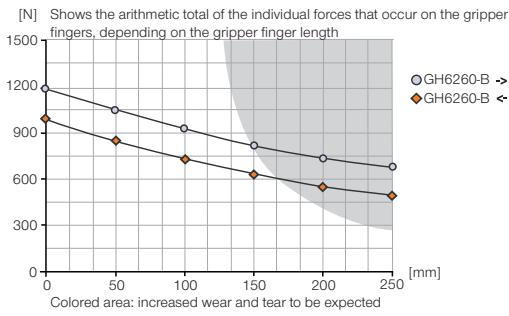
1

Installation size GH6260 / 2-Jaw Parallel Grippers with Long Stroke / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS

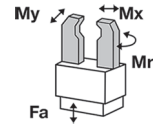


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	120
Mx [Nm]	150
My [Nm]	180
Fa [N]	3000

▶ INCLUDED IN DELIVERY



Mounting block

KB8-28



Centering Disc

DST41000



Flow Control Valves - with Swivel joint

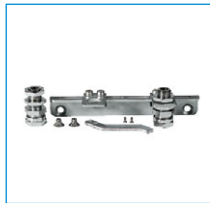
DRV1-8X8

▶ RECOMMENDED ACCESSORIES



Universal Jaw Aluminium

UB6200-B



Alternate proximity bracket

KHA6260-B-8



Inductive proximity switch - Cable 5 m

NJ8-E2



Inductive proximity switch - Connector M8

NJ8-E2S



Magnetic field sensor Angled Cable 5 m

MFS103KHC



Magnetic field sensor Angled Cable 0,3 m - Connector M8

MFS103SKHC



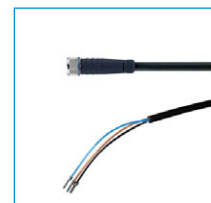
Magnetic field sensor Straight Cable 5 m

MFS204KHC



Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



Plug-in connector Straight Cable 5m - Socket M8 (female)

KAG500

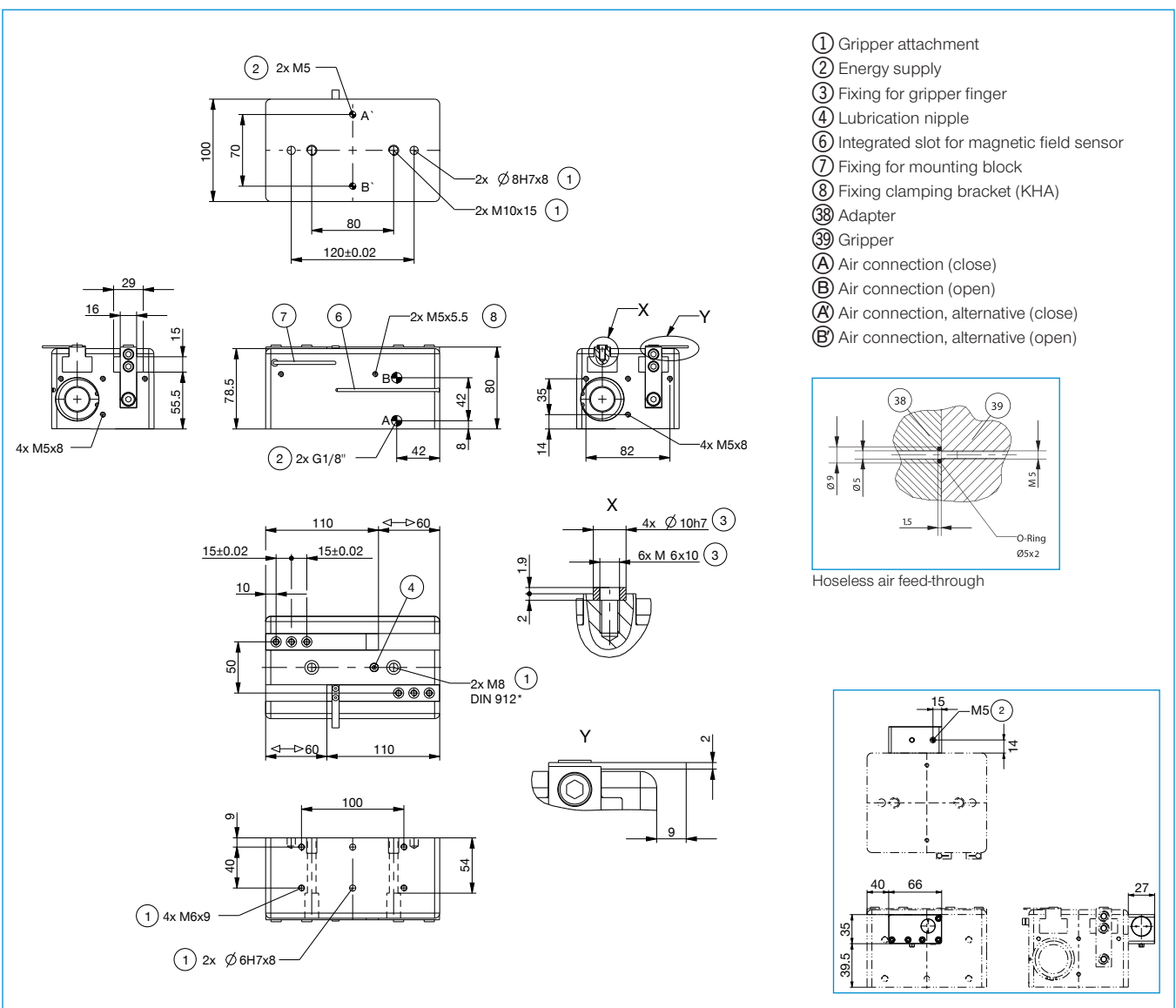


Plug-in connector Angled Cable 5m - Socket M8 (female)

KAW500

Order no.	Technical Data*	
	GH6260-B	GHK6260
Stroke per jaw [mm]	60	60
Gripping force in closing [N]	1200	1200
Gripping force in opening [N]	980	980
Retention force in case of drop in pressure [N]		640
Closing time [s]	0.35	0.35
Opening time [s]	0.35	0.35
Repetition accuracy +/- [mm]	0.05	0.05
Operating pressure min. [bar]	3	3
Operating pressure max. [bar]	8	8
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm³]	275	275
Weight [kg]	4.1	4.6

*All data measured at 6 bar
GHK series, see page 221



2-JAW PARALLEL GRIPPERS WITH LONG STROKE INSTALLATION SIZE GH6280

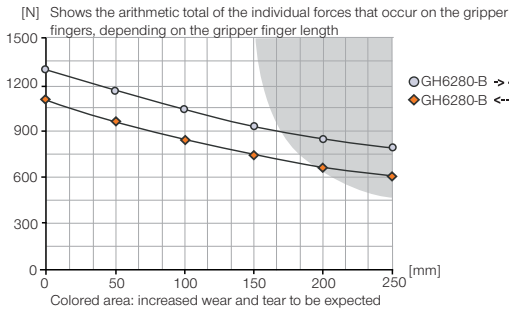
1

Installation size GH6280 / 2-Jaw Parallel Grippers with Long Stroke / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS

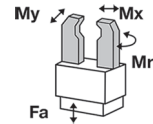


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	140
Mx [Nm]	175
My [Nm]	120
Fa [N]	3000

▶ INCLUDED IN DELIVERY



Mounting block

KB8-28



Centering Disc

DST41000



Flow Control Valves - with Swivel joint

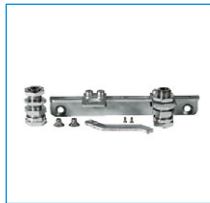
DRV1-8X8

▶ RECOMMENDED ACCESSORIES



Universal Jaw Aluminium

UB6200-B



Alternate proximity bracket

KHA6280-B-8



Inductive proximity switch - Cable 5 m

NJ8-E2



Inductive proximity switch - Connector M8

NJ8-E2S



Magnetic field sensor Angled Cable 5 m

MFS103KHC



Magnetic field sensor Angled Cable 0,3 m - Connector M8

MFS103SKHC



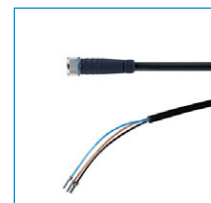
Magnetic field sensor Straight Cable 5 m

MFS204KHC



Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



Plug-in connector Straight Cable 5m - Socket M8 (female)

KAG500

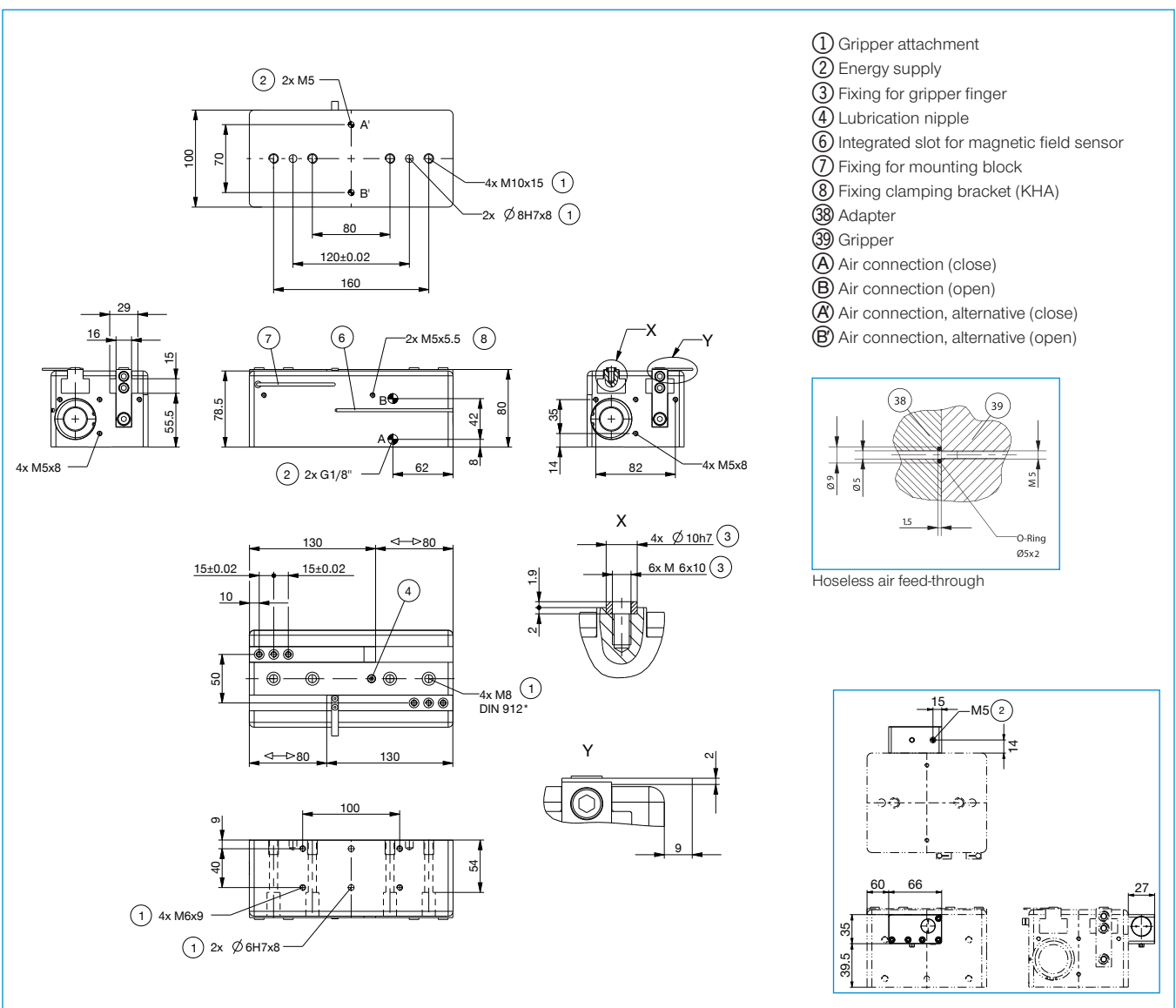


Plug-in connector Angled Cable 5m - Socket M8 (female)

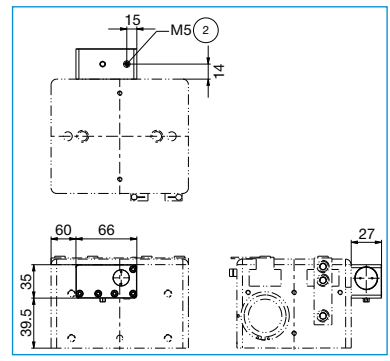
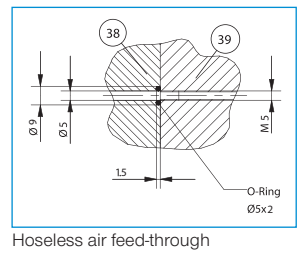
KAW500

Order no.	Technical Data*	
	GH6280-B	GHK6280
Stroke per jaw [mm]	80	80
Gripping force in closing [N]	1280	1280
Gripping force in opening [N]	1100	1100
Retention force in case of drop in pressure [N]		640
Closing time [s]	0.4	0.4
Opening time [s]	0.4	0.4
Repetition accuracy +/- [mm]	0.05	0.05
Operating pressure min. [bar]	3	3
Operating pressure max. [bar]	8	8
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm³]	367	367
Weight [kg]	4.8	5.3

*All data measured at 6 bar
GHK series, see page 221



- ① Gripper attachment
- ② Energy supply
- ③ Fixing for gripper finger
- ④ Lubrication nipple
- ⑥ Integrated slot for magnetic field sensor
- ⑦ Fixing for mounting block
- ⑧ Fixing clamping bracket (KHA)
- ③⑧ Adapter
- ③⑨ Gripper
- Ⓐ Air connection (close)
- Ⓑ Air connection (open)
- Ⓐ Air connection, alternative (close)
- Ⓑ Air connection, alternative (open)



2-JAW PARALLEL GRIPPERS WITH LONG STROKE INSTALLATION SIZE GH62100

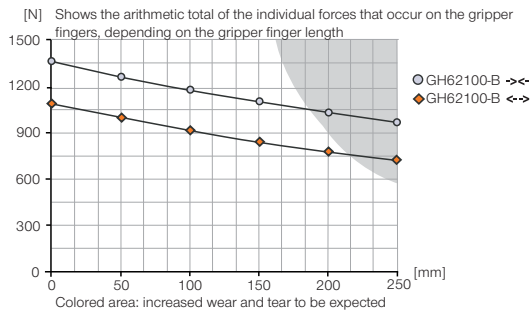
1

Installation size GH62100 / 2-Jaw Parallel Grippers with Long Stroke / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS

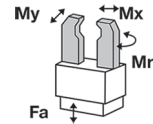


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	160
Mx [Nm]	200
My [Nm]	140
Fa [N]	3000

▶ INCLUDED IN DELIVERY



Mounting block

KB8-28



Centering Disc

DST41000



Flow Control Valves - with Swivel joint

DRV1-8X8

▶ RECOMMENDED ACCESSORIES



Universal Jaw Aluminium

UB6200-B



Alternate proximity bracket

KHA62100-B-8



Inductive proximity switch - Cable 5 m

NJ8-E2



Inductive proximity switch - Connector M8

NJ8-E2S



Magnetic field sensor Angled Cable 5 m

MFS103KHC



Magnetic field sensor Angled Cable 0,3 m - Connector M8

MFS103SKHC



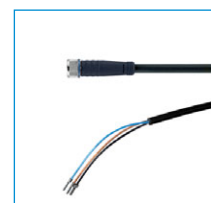
Magnetic field sensor Straight Cable 5 m

MFS204KHC



Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



Plug-in connector Straight Cable 5 m - Socket M8 (female)

KAG500

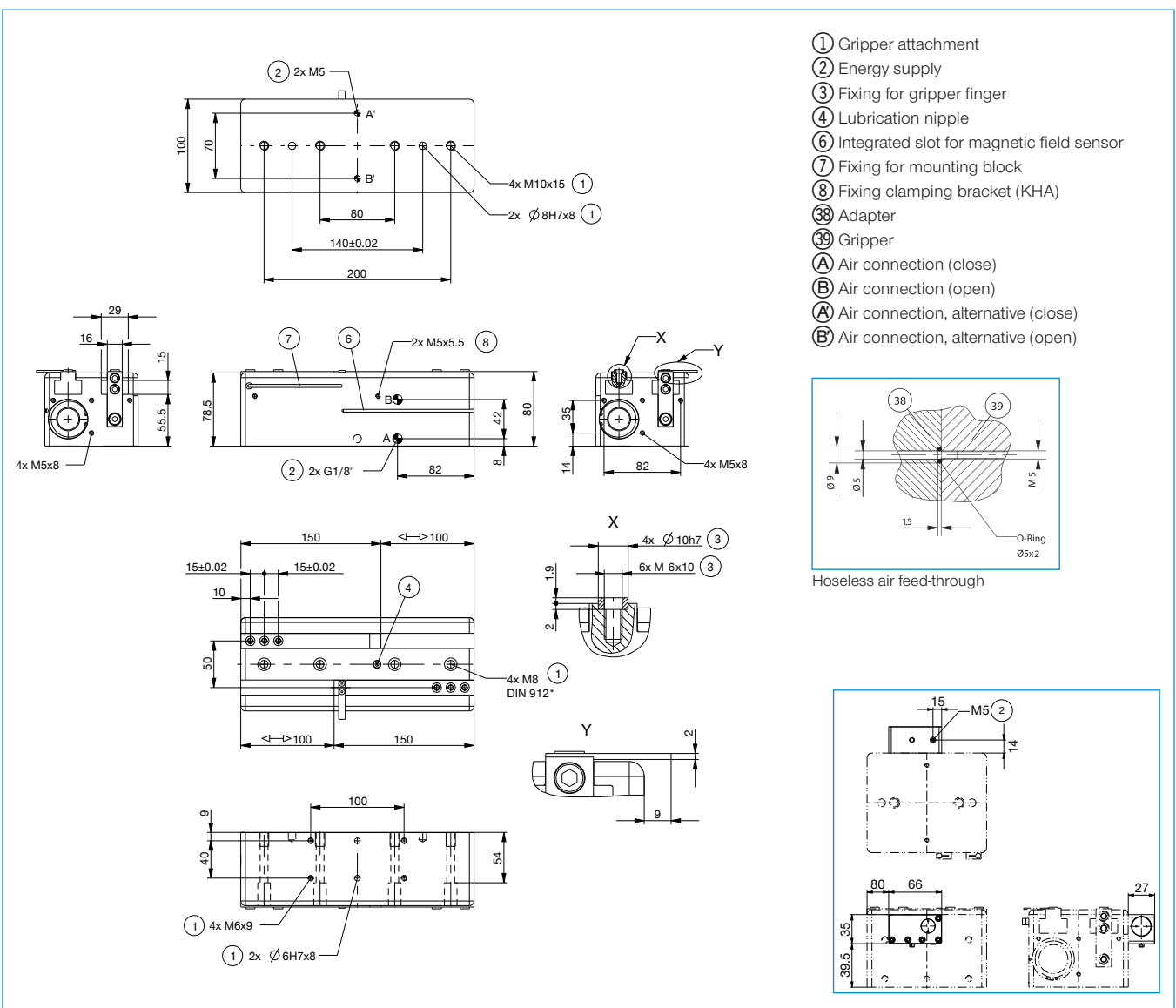


Plug-in connector Angled Cable 5 m - Socket M8 (female)

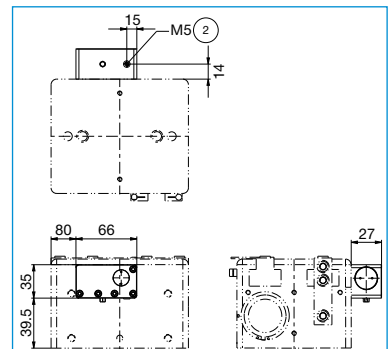
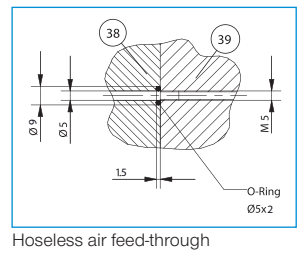
KAW500

Order no.	▶ Technical Data*	
	GH62100-B	GHK62100
Stroke per jaw [mm]	100	100
Gripping force in closing [N]	1350	1350
Gripping force in opening [N]	1100	1100
Retention force in case of drop in pressure [N]		640
Closing time [s]	0.45	0.45
Opening time [s]	0.45	0.45
Repetition accuracy +/- [mm]	0.05	0.05
Operating pressure min. [bar]	3	3
Operating pressure max. [bar]	8	8
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm³]	458	458
Weight [kg]	5.6	6.1

*All data measured at 6 bar
GHK series, see page 221



- ① Gripper attachment
- ② Energy supply
- ③ Fixing for gripper finger
- ④ Lubrication nipple
- ⑥ Integrated slot for magnetic field sensor
- ⑦ Fixing for mounting block
- ⑧ Fixing clamping bracket (KHA)
- 38 Adapter
- 39 Gripper
- A Air connection (close)
- B Air connection (open)
- A Air connection, alternative (close)
- B Air connection, alternative (open)



2-JAW PARALLEL GRIPPERS WITH LONG STROKE INSTALLATION SIZE GH62150

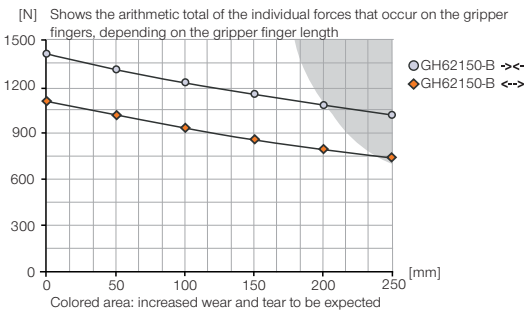
1

Installation size GH62150 / 2-Jaw Parallel Grippers with Long Stroke / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS

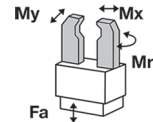


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	180
Mx [Nm]	225
My [Nm]	160
Fa [N]	3000

▶ INCLUDED IN DELIVERY



Mounting block

KB8-28



Centering Disc

DST41000



Flow Control Valves - with Swivel joint

DRV1-8X8

▶ RECOMMENDED ACCESSORIES



Universal Jaw Aluminium

UB6200-B



Alternate proximity bracket

KHA62150-B-8



Inductive proximity switch - Cable 5 m

NJ8-E2



Inductive proximity switch - Connector M8

NJ8-E2S



Magnetic field sensor Angled Cable 5 m

MFS103KHC



Magnetic field sensor Angled Cable 0,3 m - Connector M8

MFS103SKHC



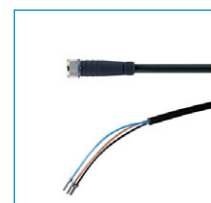
Magnetic field sensor Straight Cable 5 m

MFS204KHC



Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



Plug-in connector Straight Cable 5m - Socket M8 (female)

KAG500

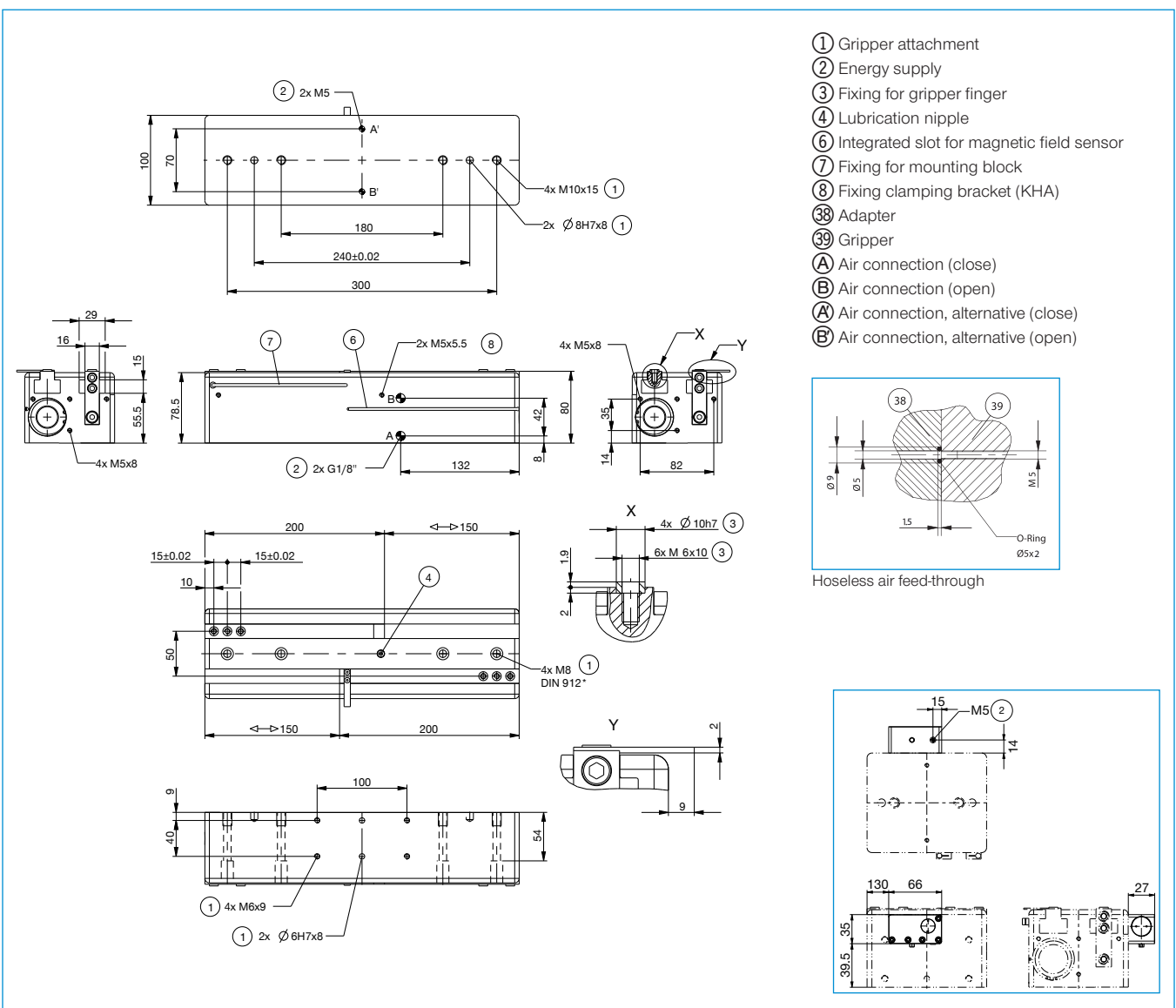


Plug-in connector Angled Cable 5m - Socket M8 (female)

KAW500

Order no.	► Technical Data*	
	GH62150-B	GHK62150
Stroke per jaw [mm]	150	150
Gripping force in closing [N]	1400	1400
Gripping force in opening [N]	1100	1100
Retention force in case of drop in pressure [N]		640
Closing time [s]	0.5	0.5
Opening time [s]	0.5	0.5
Repetition accuracy +/- [mm]	0.05	0.05
Operating pressure min. [bar]	3	3
Operating pressure max. [bar]	8	8
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm ³]	687	687
Weight [kg]	7.5	8

*All data measured at 6 bar
GHK series, see page 221

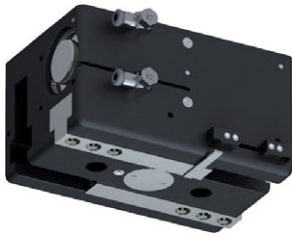


2-JAW PARALLEL GRIPPERS WITH LONG STROKE INSTALLATION SIZE GH6360

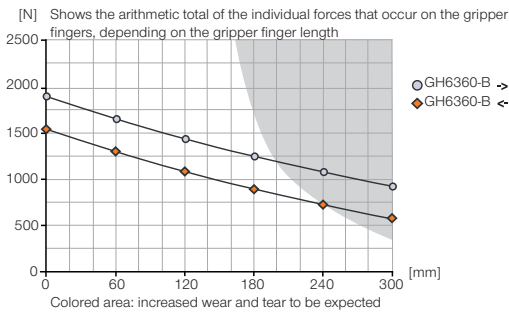
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Installation size GH6360 / 2-Jaw Parallel Grippers with Long Stroke / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS

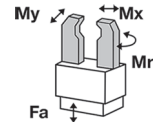


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	160
Mx [Nm]	190
My [Nm]	130
Fa [N]	3800

▶ INCLUDED IN DELIVERY



Mounting block

KB8-28



Centering Disc

DST41600



Flow Control Valves - with Swivel joint

DRV1-4X8

▶ RECOMMENDED ACCESSORIES



Alternate proximity bracket

KHA6360-B-8



Inductive proximity switch - Cable 5 m

NJ8-E2



Inductive proximity switch - Connector M8

NJ8-E2S



Magnetic field sensor Angled Cable 5 m

MFS103KHC



Magnetic field sensor Angled Cable 0,3 m - Connector M8

MFS103SKHC



Magnetic field sensor Straight Cable 5 m

MFS204KHC



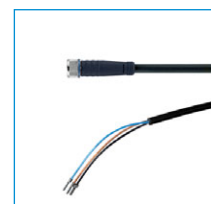
Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



Plug-in connector Angled Cable 5 m - Socket M8 (female)

KAW500



Plug-in connector Straight Cable 5 m - Socket M8 (female)

KAG500

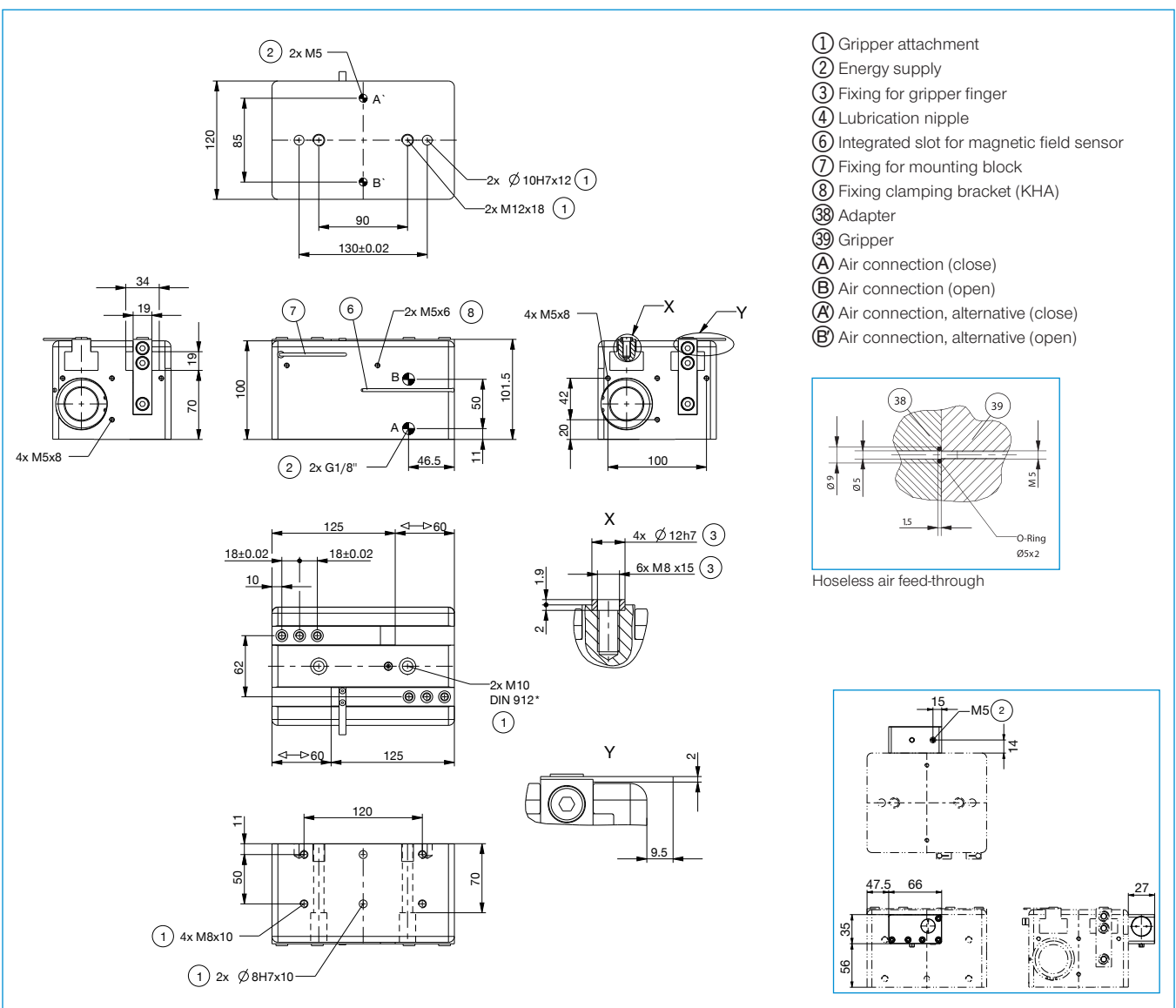


Pressure Safety Valve

DSV1-8

Order no.	▶ Technical Data*	
	GH6360-B	GHK6360
Stroke per jaw [mm]	60	60
Gripping force in closing [N]	1840	1840
Gripping force in opening [N]	1520	1520
Retention force in case of drop in pressure [N]		640
Closing time [s]	0.4	0.4
Opening time [s]	0.4	0.4
Repetition accuracy +/- [mm]	0.05	0.05
Operating pressure min. [bar]	3	3
Operating pressure max. [bar]	8	8
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm³]	486	486
Weight [kg]	7	7.5

*All data measured at 6 bar
GHK series, see page 221

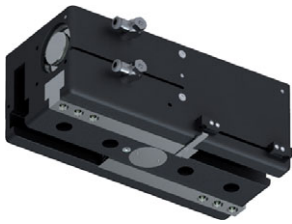


2-JAW PARALLEL GRIPPERS WITH LONG STROKE INSTALLATION SIZE GH63100

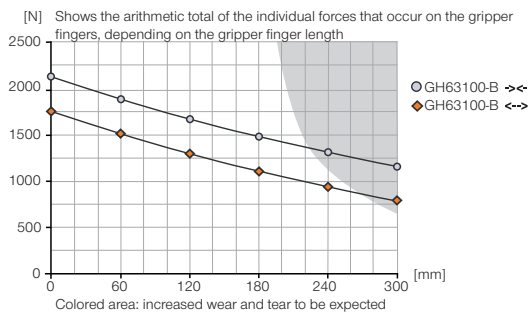
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Installation size GH63100 / 2-Jaw Parallel Grippers with Long Stroke / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS

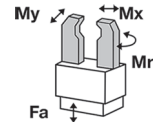


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	220
Mx [Nm]	260
My [Nm]	180
Fa [N]	3800

▶ INCLUDED IN DELIVERY



Mounting block

KB8-28



Centering Disc

DST41600



Flow Control Valves - with Swivel joint

DRV1-4X8

▶ RECOMMENDED ACCESSORIES



Alternate proximity bracket

KHA63100-B-8



Inductive proximity switch - Cable 5 m

NJ8-E2



Inductive proximity switch - Connector M8

NJ8-E2S



Magnetic field sensor Angled Cable 5 m

MFS103KHC



Magnetic field sensor Angled Cable 0,3 m - Connector M8

MFS103SKHC



Magnetic field sensor Straight Cable 5 m

MFS204KHC



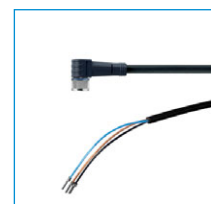
Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



Plug-in connector Straight Cable 5m - Socket M8 (female)

KAG500



Plug-in connector Angled Cable 5m - Socket M8 (female)

KAW500

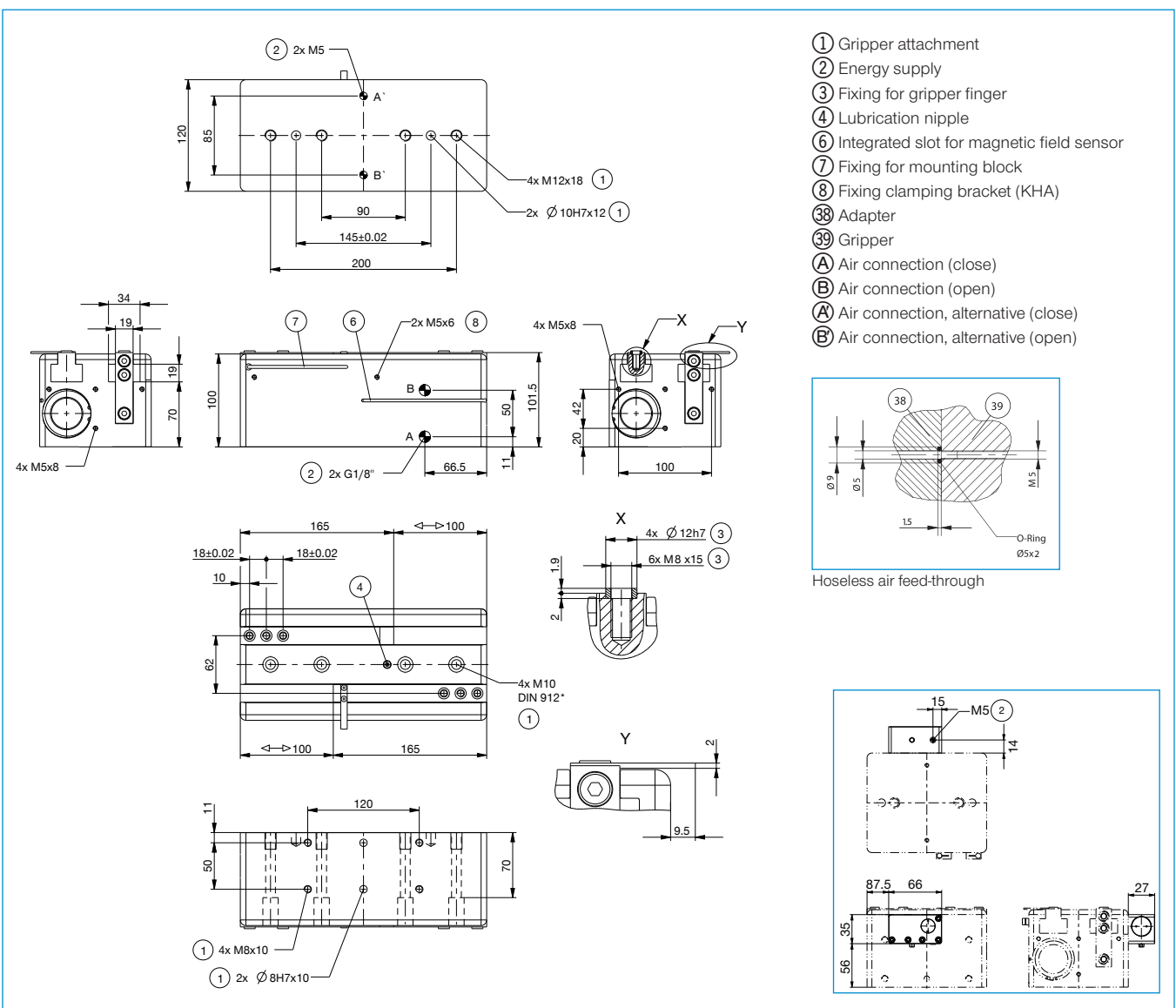


Pressure Safety Valve

DSV1-8

Order no.	► Technical Data*	
	GH63100-B	GHK63100
Stroke per jaw [mm]	100	100
Gripping force in closing [N]	2100	2100
Gripping force in opening [N]	1700	1700
Retention force in case of drop in pressure [N]		640
Closing time [s]	0.65	0.65
Opening time [s]	0.65	0.65
Repetition accuracy +/- [mm]	0.05	0.05
Operating pressure min. [bar]	3	3
Operating pressure max. [bar]	8	8
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm ³]	809	809
Weight [kg]	9.1	9.6

*All data measured at 6 bar
GHK series, see page 221

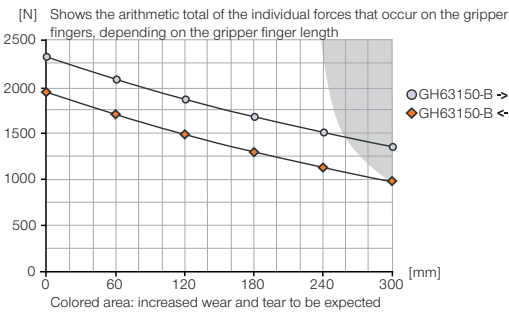


2-JAW PARALLEL GRIPPERS WITH LONG STROKE INSTALLATION SIZE GH63150

▶ PRODUCT SPECIFICATIONS

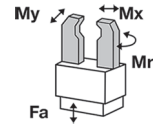


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	250
Mx [Nm]	290
My [Nm]	220
Fa [N]	3800

▶ INCLUDED IN DELIVERY



Mounting block

KB8-28



Centering Disc

DST41600



Flow Control Valves - with Swivel joint

DRV1-4X8

▶ RECOMMENDED ACCESSORIES



Alternate proximity bracket

KHA63150-B-8



Inductive proximity switch - Cable 5 m

NJ8-E2



Inductive proximity switch - Connector M8

NJ8-E2S



Magnetic field sensor Angled Cable 5 m

MFS103KHC



Magnetic field sensor Angled Cable 0,3 m - Connector M8

MFS103SKHC



Magnetic field sensor Straight Cable 5 m

MFS204KHC



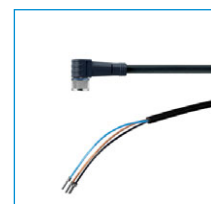
Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



Plug-in connector Straight Cable 5m - Socket M8 (female)

KAG500



Plug-in connector Angled Cable 5m - Socket M8 (female)

KAW500

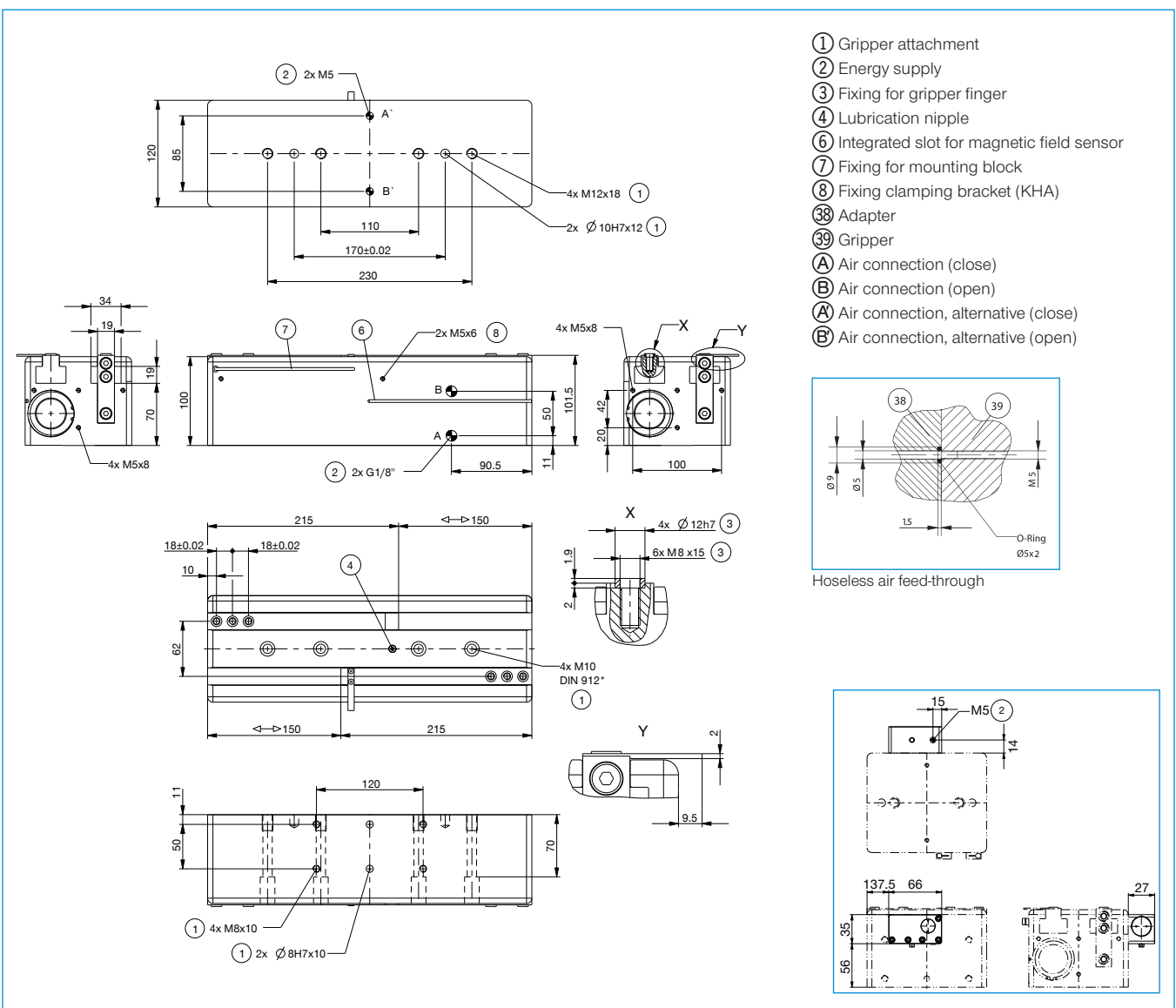


Pressure Safety Valve

DSV1-8

Order no.	► Technical Data*	
	GH63150-B	GHK63150
Stroke per jaw [mm]	150	150
Gripping force in closing [N]	2270	2270
Gripping force in opening [N]	1900	1900
Retention force in case of drop in pressure [N]		640
Closing time [s]	0.95	0.95
Opening time [s]	0.95	0.95
Repetition accuracy +/- [mm]	0.05	0.05
Operating pressure min. [bar]	3	3
Operating pressure max. [bar]	8	8
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm³]	1215	1215
Weight [kg]	10.5	11

*All data measured at 6 bar
GHK series, see page 221

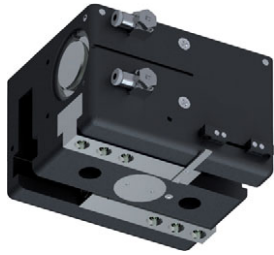


2-JAW PARALLEL GRIPPERS WITH LONG STROKE INSTALLATION SIZE GH6460

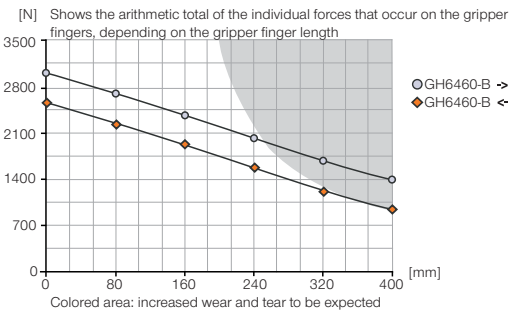
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Installation size GH6460 / 2-Jaw Parallel Grippers with Long Stroke / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS

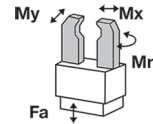


▶ Gripping force diagram



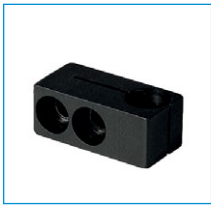
▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	250
Mx [Nm]	300
My [Nm]	200
Fa [N]	9000

▶ INCLUDED IN DELIVERY



Mounting block

KB8-28



Centering Disc

DST42000



Flow Control Valves - with Swivel joint

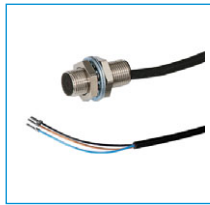
DRV1-4X8

▶ RECOMMENDED ACCESSORIES



Alternate proximity bracket

KHA6460-B-8



Inductive proximity switch - Cable 5 m

NJ8-E2



Inductive proximity switch - Connector M8

NJ8-E2S



Magnetic field sensor Angled Cable 5 m

MFS103KHC



Magnetic field sensor Angled Cable 0,3 m - Connector M8

MFS103SKHC



Magnetic field sensor Straight Cable 5 m

MFS204KHC



Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



Plug-in connector Straight Cable 5m - Socket M8 (female)

KAG500



Plug-in connector Angled Cable 5m - Socket M8 (female)

KAW500

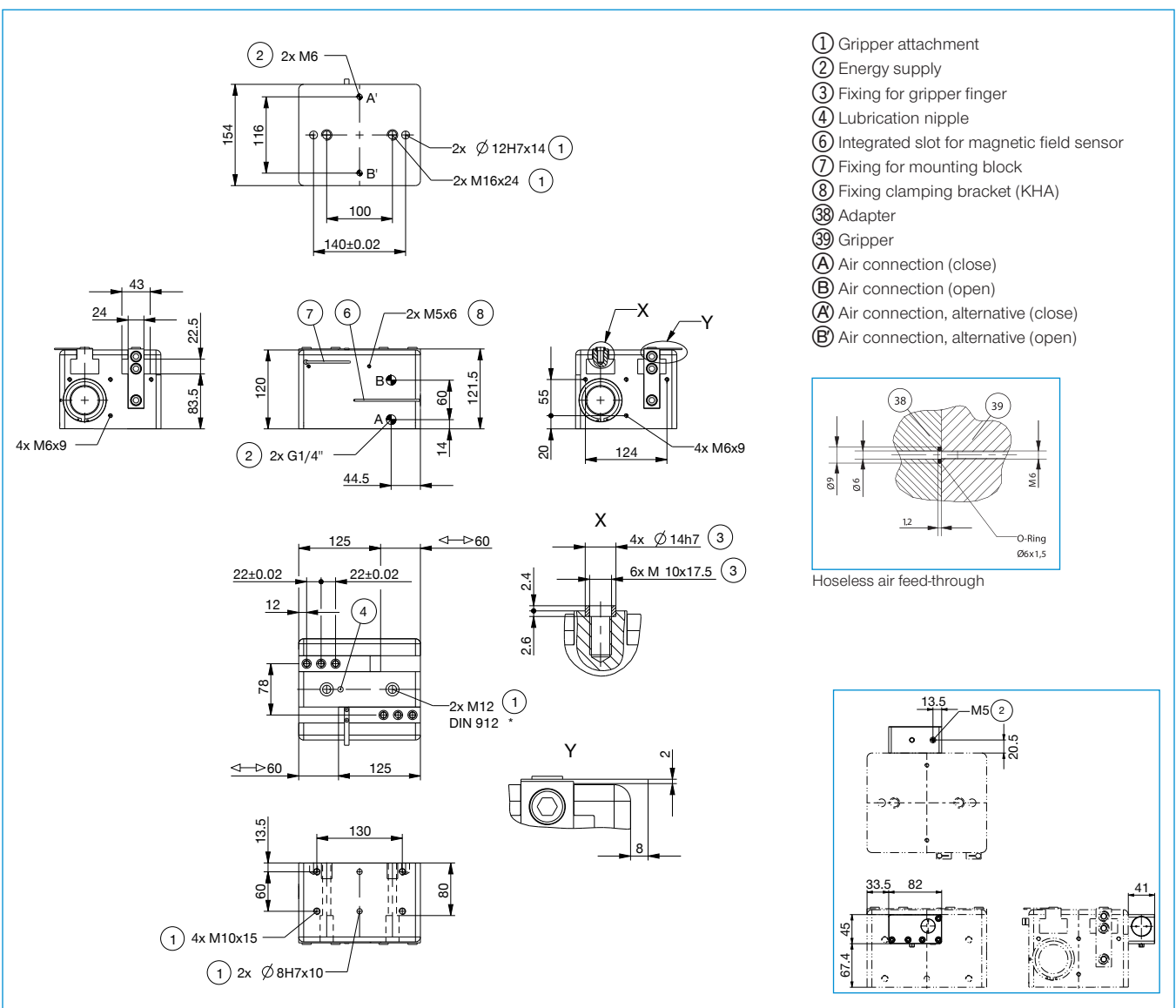


Pressure Safety Valve

DSV1-8

Order no.	▶ Technical Data*	
	GH6460-B	GHK6460
Stroke per jaw [mm]	60	60
Gripping force in closing [N]	3000	3000
Gripping force in opening [N]	2600	2600
Retention force in case of drop in pressure [N]		1050
Closing time [s]	0.4	0.4
Opening time [s]	0.4	0.4
Repetition accuracy +/- [mm]	0.05	0.05
Operating pressure min. [bar]	3	3
Operating pressure max. [bar]	8	8
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm³]	710	710
Weight [kg]	10.4	11.5

*All data measured at 6 bar
GHK series, see page 221

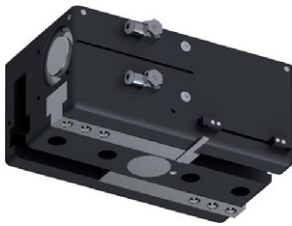


2-JAW PARALLEL GRIPPERS WITH LONG STROKE INSTALLATION SIZE GH64100

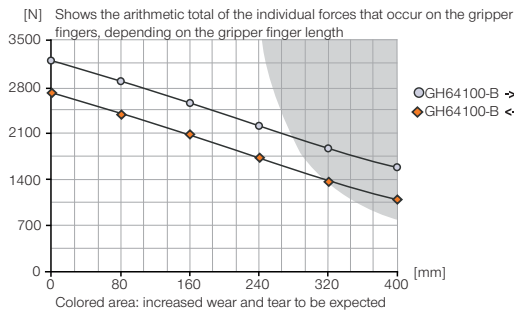
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Installation size GH64100 / 2-Jaw Parallel Grippers with Long Stroke / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS

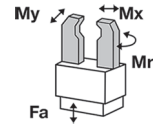


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	300
Mx [Nm]	350
My [Nm]	250
Fa [N]	9000

▶ INCLUDED IN DELIVERY



Mounting block

KB8-28



Centering Disc

DST42000



Flow Control Valves - with Swivel joint

DRV1-4X8

▶ RECOMMENDED ACCESSORIES



Alternate proximity bracket

KHA64100-B-8



Inductive proximity switch - Cable 5 m

NJ8-E2



Inductive proximity switch - Connector M8

NJ8-E2S



Magnetic field sensor Angled Cable 5 m

MFS103KHC



Magnetic field sensor Angled Cable 0,3 m - Connector M8

MFS103SKHC



Magnetic field sensor Straight Cable 5 m

MFS204KHC



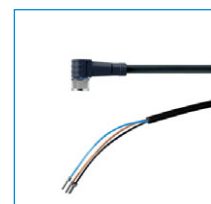
Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



Plug-in connector Straight Cable 5m - Socket M8 (female)

KAG500



Plug-in connector Angled Cable 5m - Socket M8 (female)

KAW500

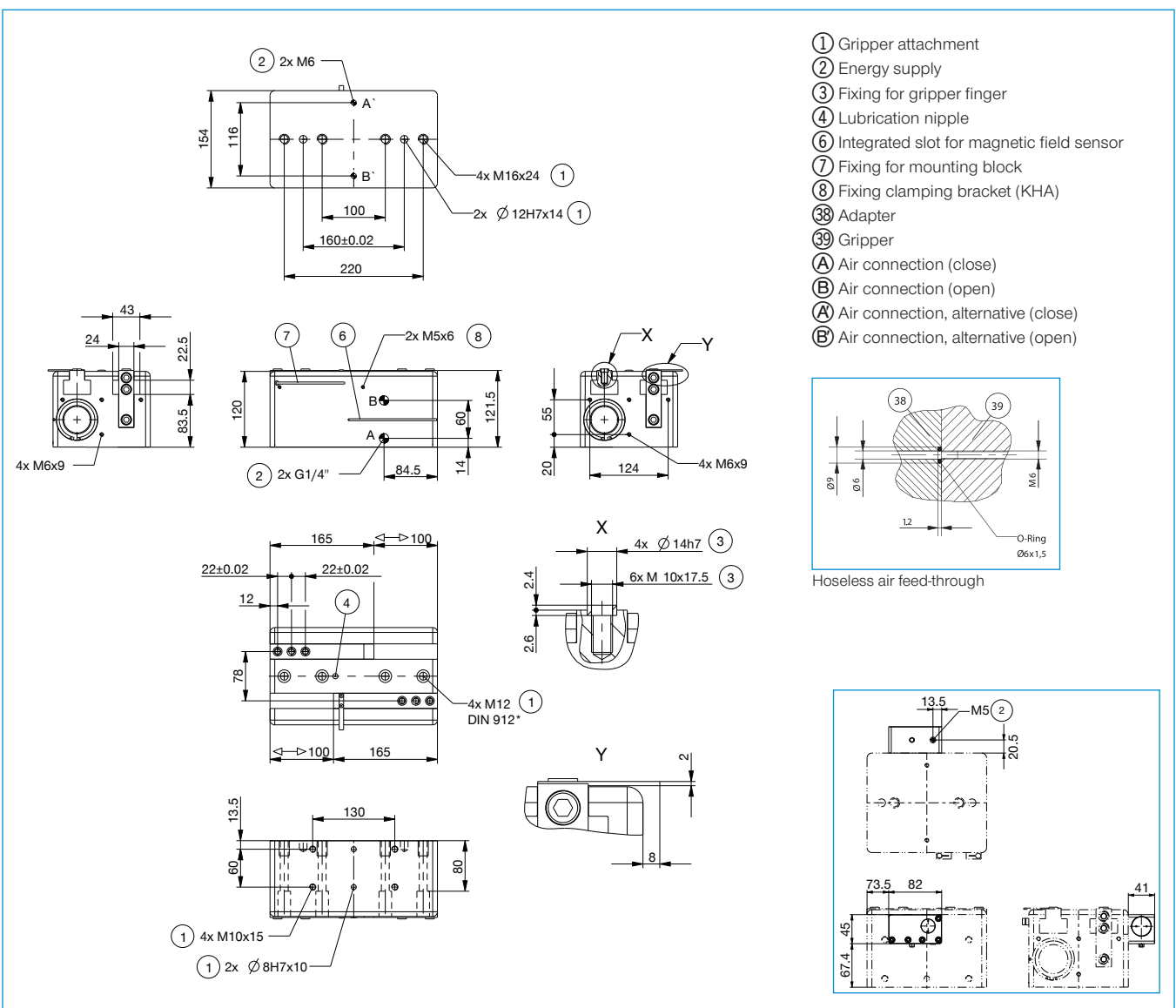


Pressure Safety Valve

DSV1-8

Order no.	► Technical Data*	
	GH64100-B	GHK64100
Stroke per jaw [mm]	100	100
Gripping force in closing [N]	3200	3200
Gripping force in opening [N]	2700	2700
Retention force in case of drop in pressure [N]		1050
Closing time [s]	0.7	0.7
Opening time [s]	0.7	0.7
Repetition accuracy +/- [mm]	0.05	0.05
Operating pressure min. [bar]	3	3
Operating pressure max. [bar]	8	8
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm³]	1185	1185
Weight [kg]	13.7	14.8

*All data measured at 6 bar
GHK series, see page 221



2-JAW PARALLEL GRIPPERS WITH LONG STROKE INSTALLATION SIZE GH64150

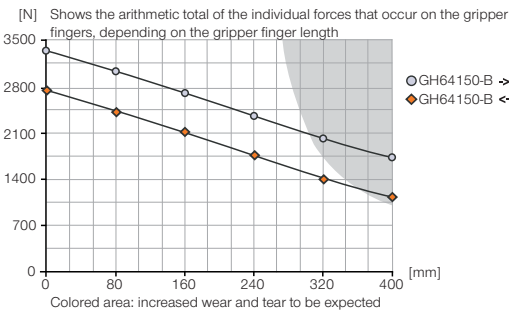
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Installation size GH64150 / 2-Jaw Parallel Grippers with Long Stroke / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS

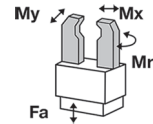


▶ Gripping force diagram



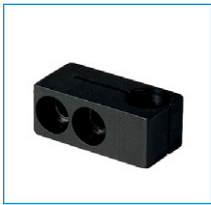
▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	350
Mx [Nm]	400
My [Nm]	300
Fa [N]	9000

▶ INCLUDED IN DELIVERY



Mounting block

KB8-28



Centering Disc

DST42000



Flow Control Valves - with Swivel joint

DRV1-4X8

▶ RECOMMENDED ACCESSORIES



Alternate proximity bracket

KHA64150-B-8



Inductive proximity switch - Cable 5 m

NJ8-E2



Inductive proximity switch - Connector M8

NJ8-E2S



Magnetic field sensor Angled Cable 5 m

MFS103KHC



Magnetic field sensor Angled Cable 0,3 m - Connector M8

MFS103SKHC



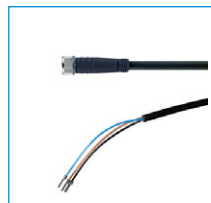
Magnetic field sensor Straight Cable 5 m

MFS204KHC



Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



Plug-in connector Straight Cable 5m - Socket M8 (female)

KAG500



Plug-in connector Angled Cable 5m - Socket M8 (female)

KAW500

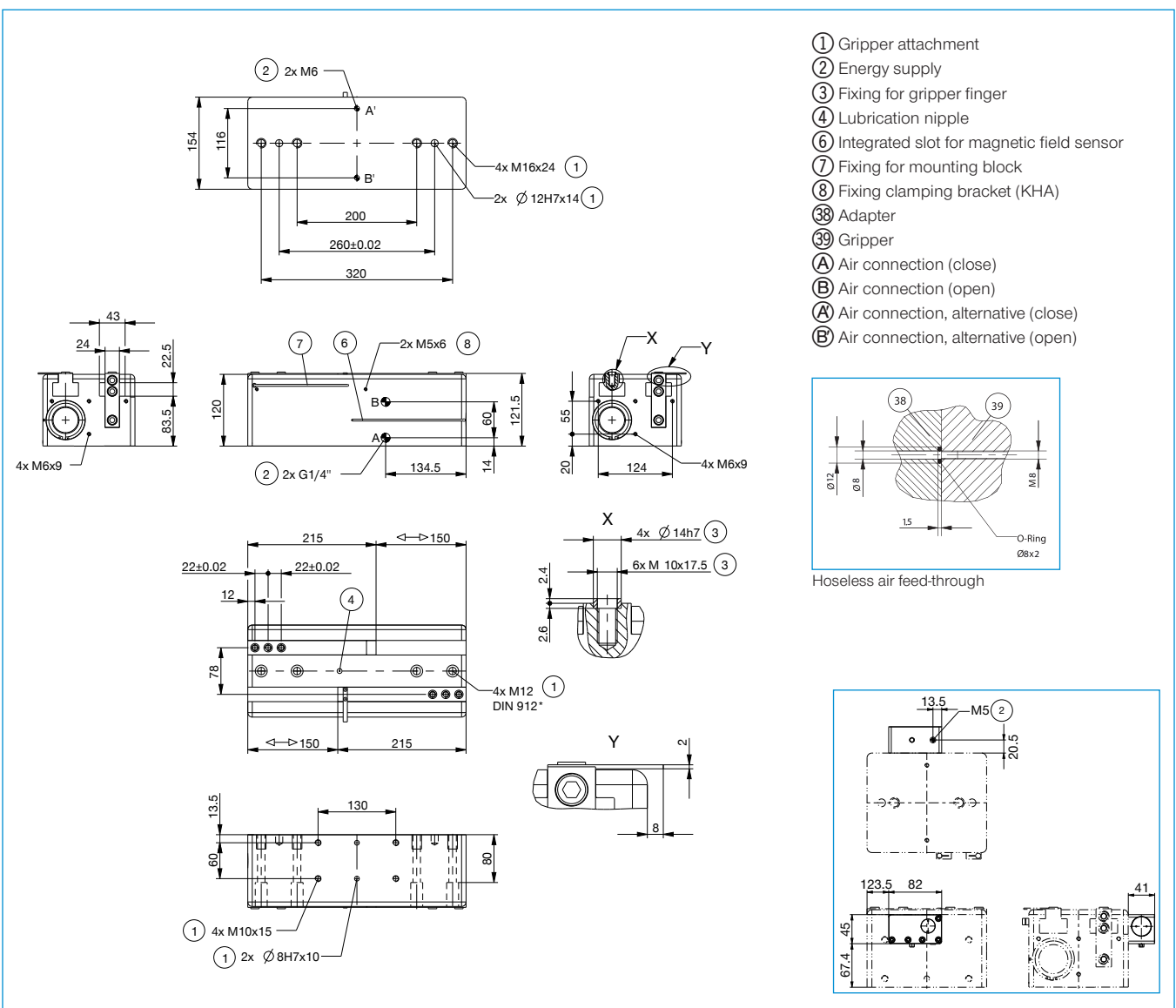


Pressure Safety Valve

DSV1-8

Order no.	▶ Technical Data*	
	GH64150-B	GHK64150
Stroke per jaw [mm]	150	150
Gripping force in closing [N]	3300	3300
Gripping force in opening [N]	2780	2780
Retention force in case of drop in pressure [N]		1050
Closing time [s]	1	1
Opening time [s]	1	1
Repetition accuracy +/- [mm]	0.05	0.05
Operating pressure min. [bar]	3	3
Operating pressure max. [bar]	8	8
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm³]	1775	1775
Weight [kg]	18.3	19.4

*All data measured at 6 bar
GHK series, see page 221

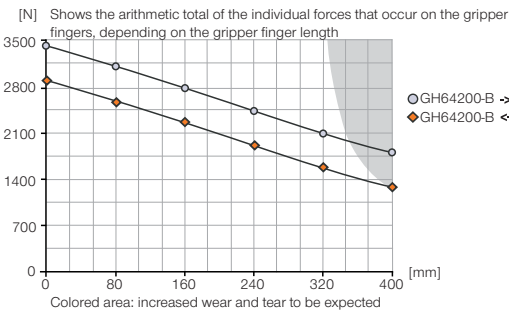


2-JAW PARALLEL GRIPPERS WITH LONG STROKE INSTALLATION SIZE GH64200

▶ PRODUCT SPECIFICATIONS

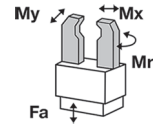


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	400
Mx [Nm]	450
My [Nm]	350
Fa [N]	9000

▶ INCLUDED IN DELIVERY



Mounting block

KB8-28



Centering Disc

DST42000



Flow Control Valves - with Swivel joint

DRV1-4X8

▶ RECOMMENDED ACCESSORIES



Alternate proximity bracket

KHA64200-B-8



Inductive proximity switch - Cable 5 m

NJ8-E2



Inductive proximity switch - Connector M8

NJ8-E2S



Magnetic field sensor Angled Cable 5 m

MFS103KHC



Magnetic field sensor Angled Cable 0,3 m - Connector M8

MFS103SKHC



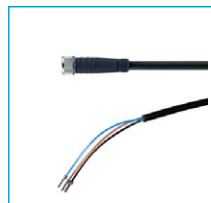
Magnetic field sensor Straight Cable 5 m

MFS204KHC



Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



Plug-in connector Straight Cable 5m - Socket M8 (female)

KAG500



Plug-in connector Angled Cable 5m - Socket M8 (female)

KAW500

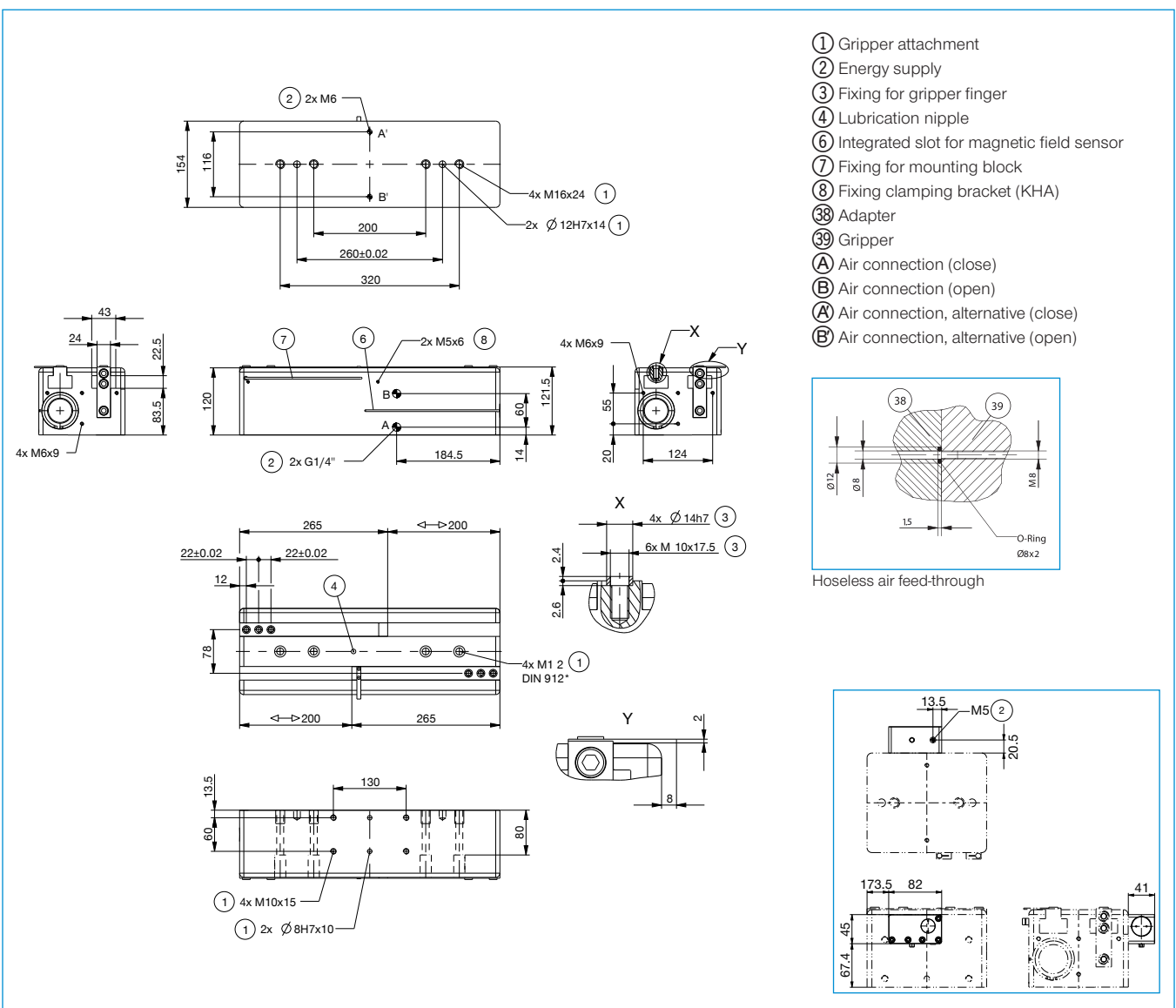


Pressure Safety Valve

DSV1-8

Order no.	▶ Technical Data*	
	GH64200-B	GHK64200
Stroke per jaw [mm]	200	200
Gripping force in closing [N]	3400	3400
Gripping force in opening [N]	2900	2900
Retention force in case of drop in pressure [N]		1050
Closing time [s]	1.5	1.5
Opening time [s]	1.5	1.5
Repetition accuracy +/- [mm]	0.05	0.05
Operating pressure min. [bar]	3	3
Operating pressure max. [bar]	8	8
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm³]	2370	2370
Weight [kg]	22.7	23.8

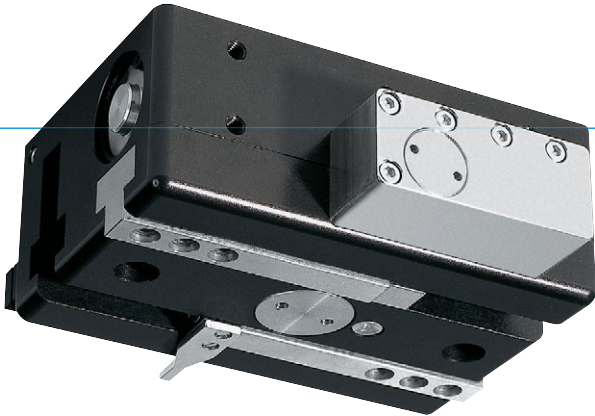
*All data measured at 6 bar
GHK series, see page 221



2-JAW PARALLEL GRIPPERS WITH LONG STROKE SERIES GHK6000

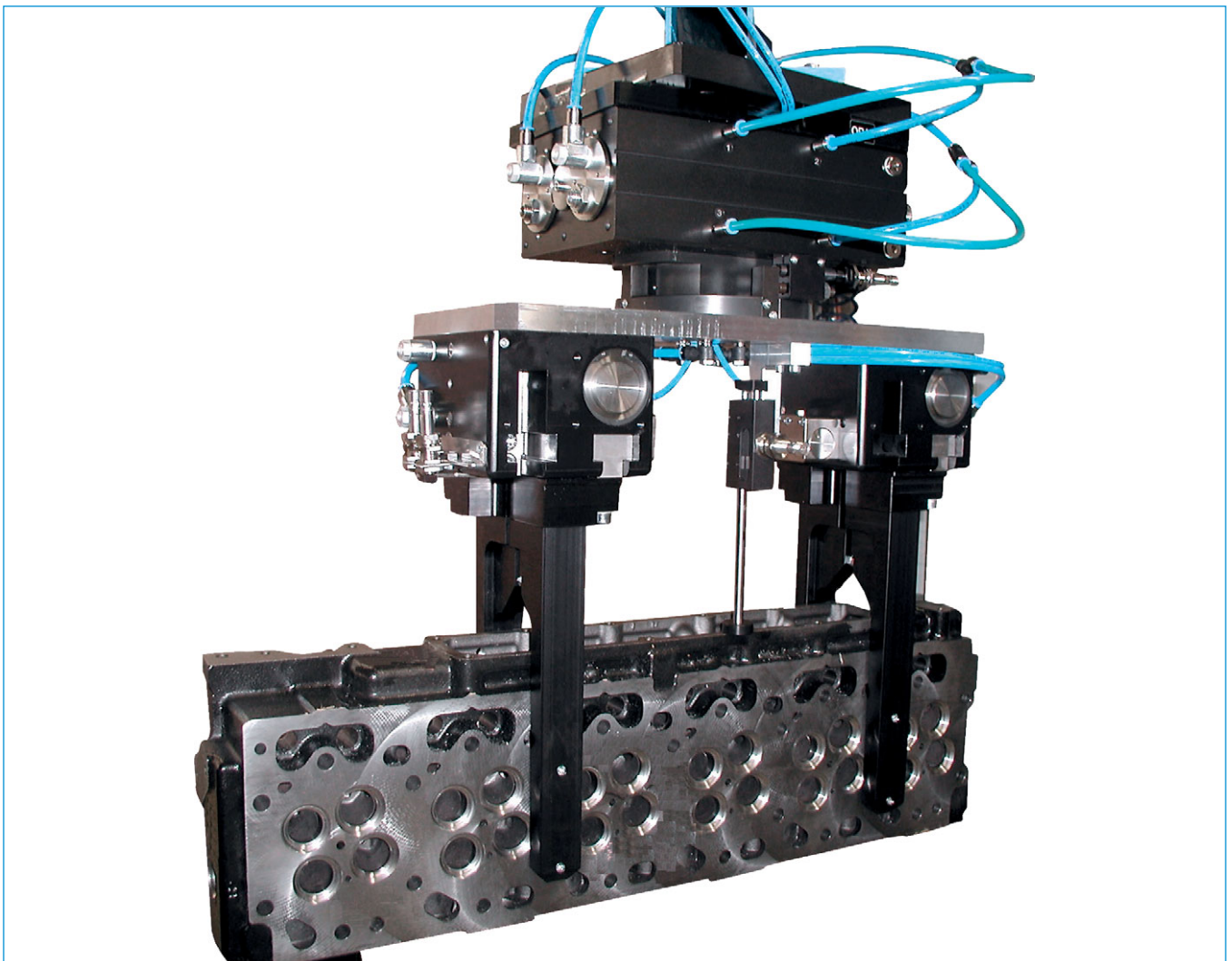
1

▶ PRODUCT ADVANTAGES



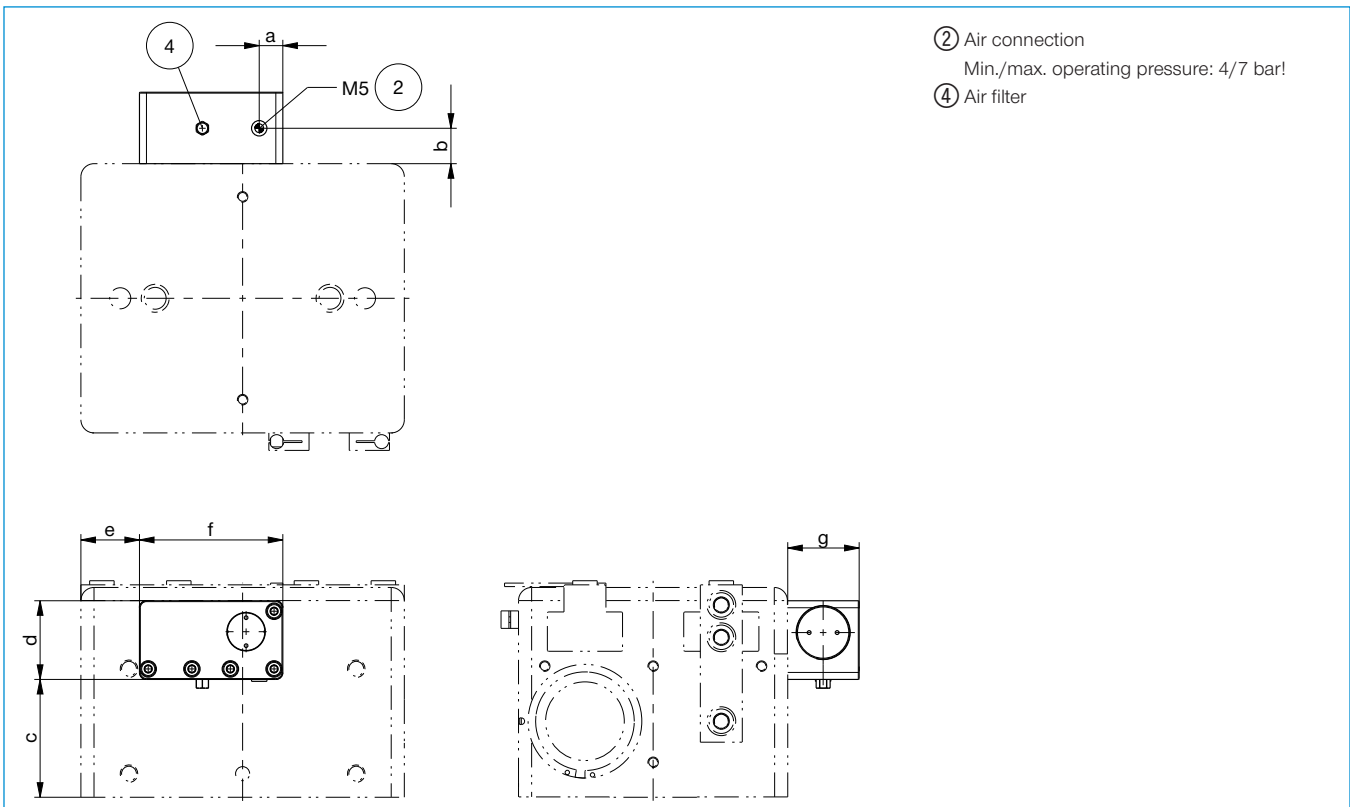
“The robust”

- ▶ Securing the workpiece in case of drop in pressure above clamping element on the condition of a positive gripper jaw design
- ▶ Dimensions based on GH6000 series standard gripper
- ▶ Long stroke, up to 200 mm per jaw
- ▶ Stable T-slot guide, guided completely along the entire length of the housing
- ▶ For gripper fingers with a length of up to 600 mm
- ▶ Compact design, through stacked cylinder and guide



► **Technical Data**

Order no.	Retention force in case of drop in pressure							
	[N]	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]
GHK6140	300	9.6	11.5	21.7	25	17.5	58	22
GHK6160	300	9.6	11.5	21.7	25	37.5	58	22
GHK6180	300	9.6	11.5	21.7	25	37.5	58	22
GHK6240	640	15	14	39.5	35	20	66	27
GHK6260	640	15	14	39.5	35	40	66	27
GHK6280	640	15	14	39.5	35	60	66	27
GHK62100	640	15	14	39.5	35	80	66	27
GHK62150	640	15	14	39.5	35	130	66	27
GHK6360	640	15	14	56	35	47.5	66	27
GHK63100	640	15	14	56	35	87.5	66	27
GHK63150	640	15	14	56	35	137.5	66	27
GHK6460	1050	13.5	20.5	67.4	45	33.5	82	41
GHK64100	1050	13.5	20.5	67.4	45	73.5	82	41
GHK64150	1050	13.5	20.5	67.4	45	123.5	82	41
GHK64200	1050	13.5	20.5	67.4	45	173.5	82	41

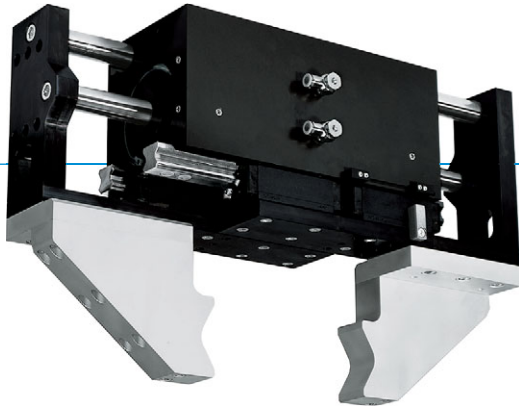


2-JAW PARALLEL GRIPPERS WITH LONG STROKE SERIES GH7000

1

Series GH7000 / 2-Jaw Parallel Grippers with Long Stroke / pneumatic / Grippers

▶ PRODUCT ADVANTAGES



“The strong”

▶ High gripping force

The high gripping force allows you to handle the heaviest workpieces in your application reliably

▶ High moment load

The heavy-duty linear guide provides the highest possible durability for your application

▶ Failure-free continuous operation

Our uncompromising “Made in Germany” quality guarantees up to 10 million maintenance-free gripping cycles

▶ THE BEST PRODUCT FOR YOUR APPLICATION



▶ Our products love the challenge!

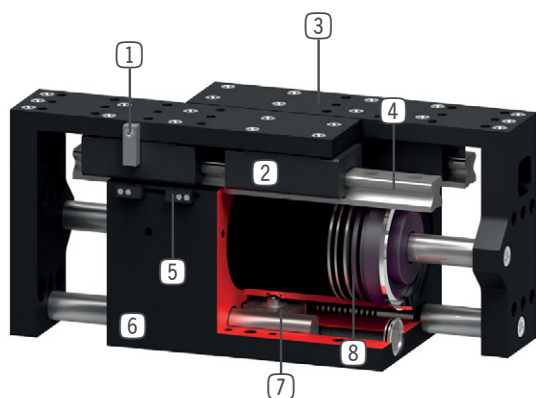
Extreme conditions, all over the world—our tried and tested components and systems give you limitless possibilities:

Find the best product for your specific use:

www.zimmer-group.com



► BENEFITS IN DETAIL



- ① **Switch cam**
 - for position sensing
- ② **Carriage with wiper**
 - for use under extreme conditions
- ③ **Gripper jaw**
 - individual gripper finger mounting
- ④ **Precise linear guide**
 - ideal for highest transverse forces and loads
 - double secured against twisting
- ⑤ **Mounting block adjustable**
 - direct sensing of the gripper jaw position
- ⑥ **Robust, lightweight housing**
 - Hard-coated aluminum alloy
- ⑦ **Synchronization**
 - via rack and pinion
- ⑧ **Drive**
 - two double-acting pneumatic cylinders

► SERIES CHARACTERISTICS



Number of installation sizes	2
Stroke per jaw	65 mm - 100 mm
Gripping force	8500 N - 8500 N
Weight	31 kg - 36 kg
AP class	3



10 million maintenance-free cycles (max.)



Inductive sensor



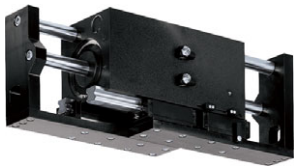
IP64

2-JAW PARALLEL GRIPPERS WITH LONG STROKE INSTALLATION SIZE GH7665

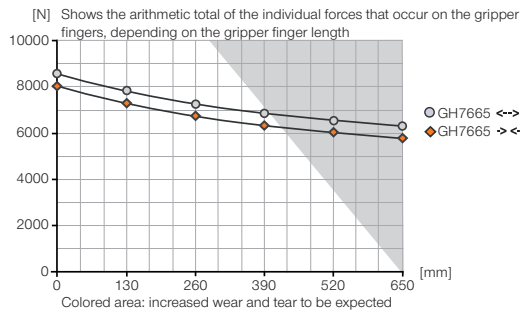
1

Installation size GH7665 / 2-Jaw Parallel Grippers with Long Stroke / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS

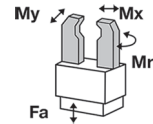


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	2000
Mx [Nm]	2000
My [Nm]	1500
Fa [N]	4000

▶ INCLUDED IN DELIVERY



Mounting block

KB8-28



Flow Control Valves - with Swivel joint

DRV1-4X8

▶ RECOMMENDED ACCESSORIES



Alternate proximity bracket

KHA7665-8



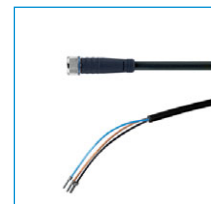
Inductive proximity switch - Cable 5 m

NJ8-E2



Inductive proximity switch - Connector M8

NJ8-E2S



Plug-in connector Straight Cable 5m - Socket M8 (female)

KAG500



Plug-in connector Angled Cable 5m - Socket M8 (female)

KAW500



Plug-in connector customizable Straight - Connector M8

S8-G-3



Plug-in connector customizable Straight - Connector M12

S12-G-3

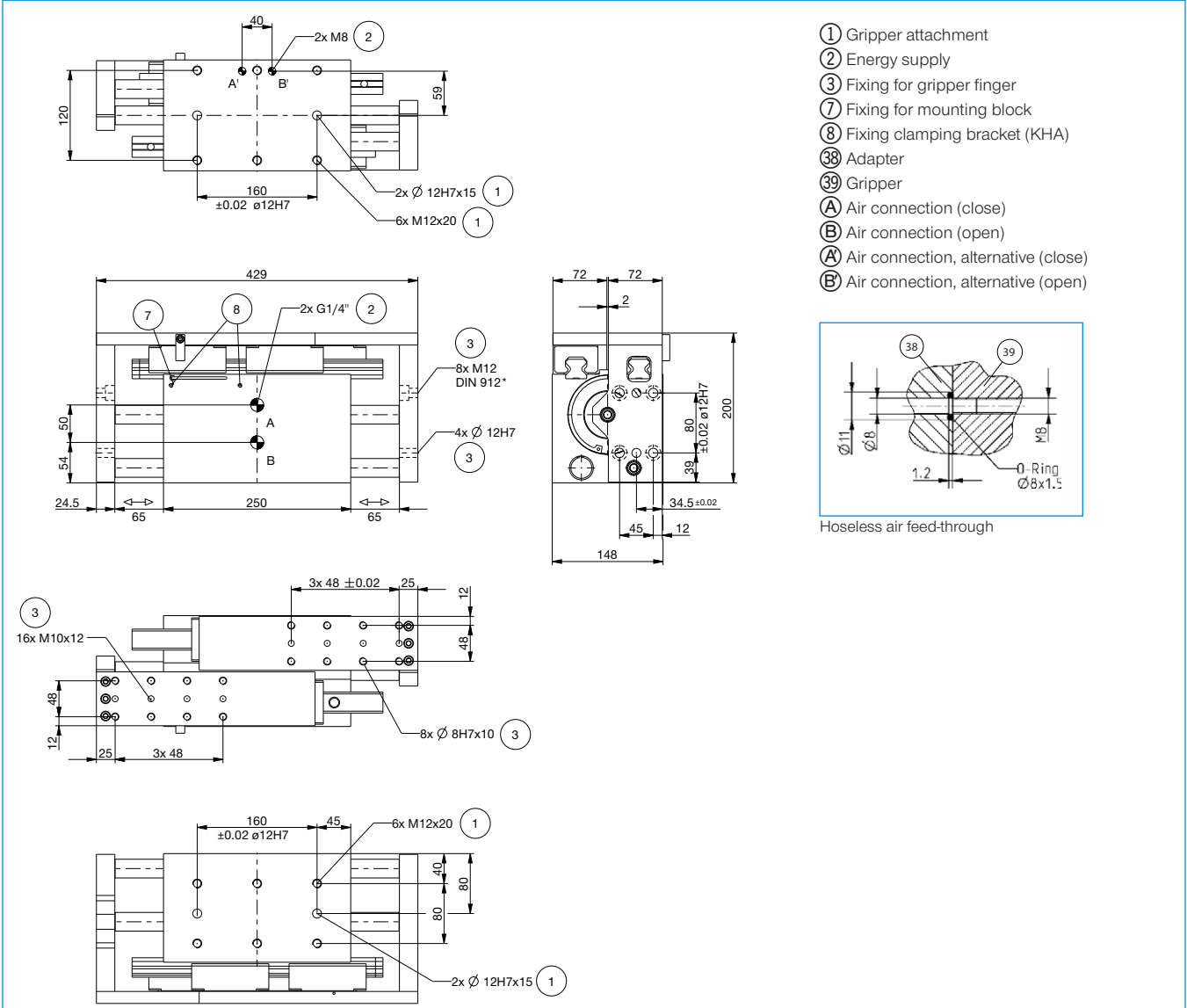


Pressure Safety Valve

DSV1-8

Order no.	Technical Data*
Stroke per jaw [mm]	65
Gripping force in closing [N]	8000
Gripping force in opening [N]	8500
Closing time [s]	1.1
Opening time [s]	1.1
Repetition accuracy +/- [mm]	0.05
Operating pressure min. [bar]	3
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm³]	1985
Weight [kg]	31

*All data measured at 6 bar



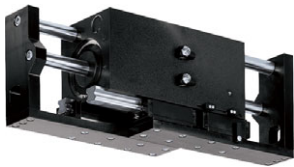
- ① Gripper attachment
- ② Energy supply
- ③ Fixing for gripper finger
- ⑦ Fixing for mounting block
- ⑧ Fixing clamping bracket (KHA)
- ③⑧ Adapter
- ③⑨ Gripper
- A Air connection (close)
- B Air connection (open)
- A Air connection, alternative (close)
- B Air connection, alternative (open)

2-JAW PARALLEL GRIPPERS WITH LONG STROKE INSTALLATION SIZE GH76100

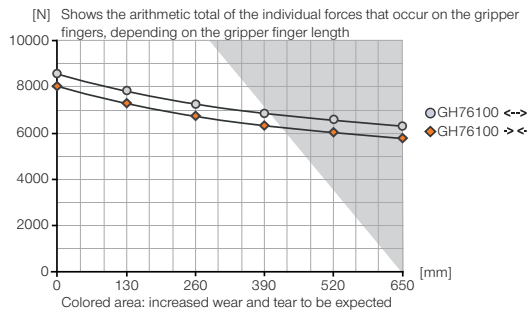
1

Installation size GH76100 / 2-Jaw Parallel Grippers with Long Stroke / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS

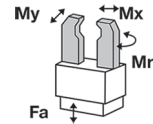


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	2000
Mx [Nm]	2000
My [Nm]	1500
Fa [N]	4000

▶ INCLUDED IN DELIVERY



Mounting block

KB8-28



Flow Control Valves - with Swivel joint

DRV1-4X8

▶ RECOMMENDED ACCESSORIES



Alternate proximity bracket

KHA76100-8



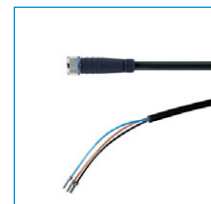
Inductive proximity switch - Cable 5 m

NJ8-E2



Inductive proximity switch - Connector M8

NJ8-E2S



Plug-in connector Straight Cable 5m - Socket M8 (female)

KAG500



Plug-in connector Angled Cable 5m - Socket M8 (female)

KAW500



Plug-in connector customizable Straight - Connector M8

S8-G-3



Plug-in connector customizable Straight - Connector M12

S12-G-3

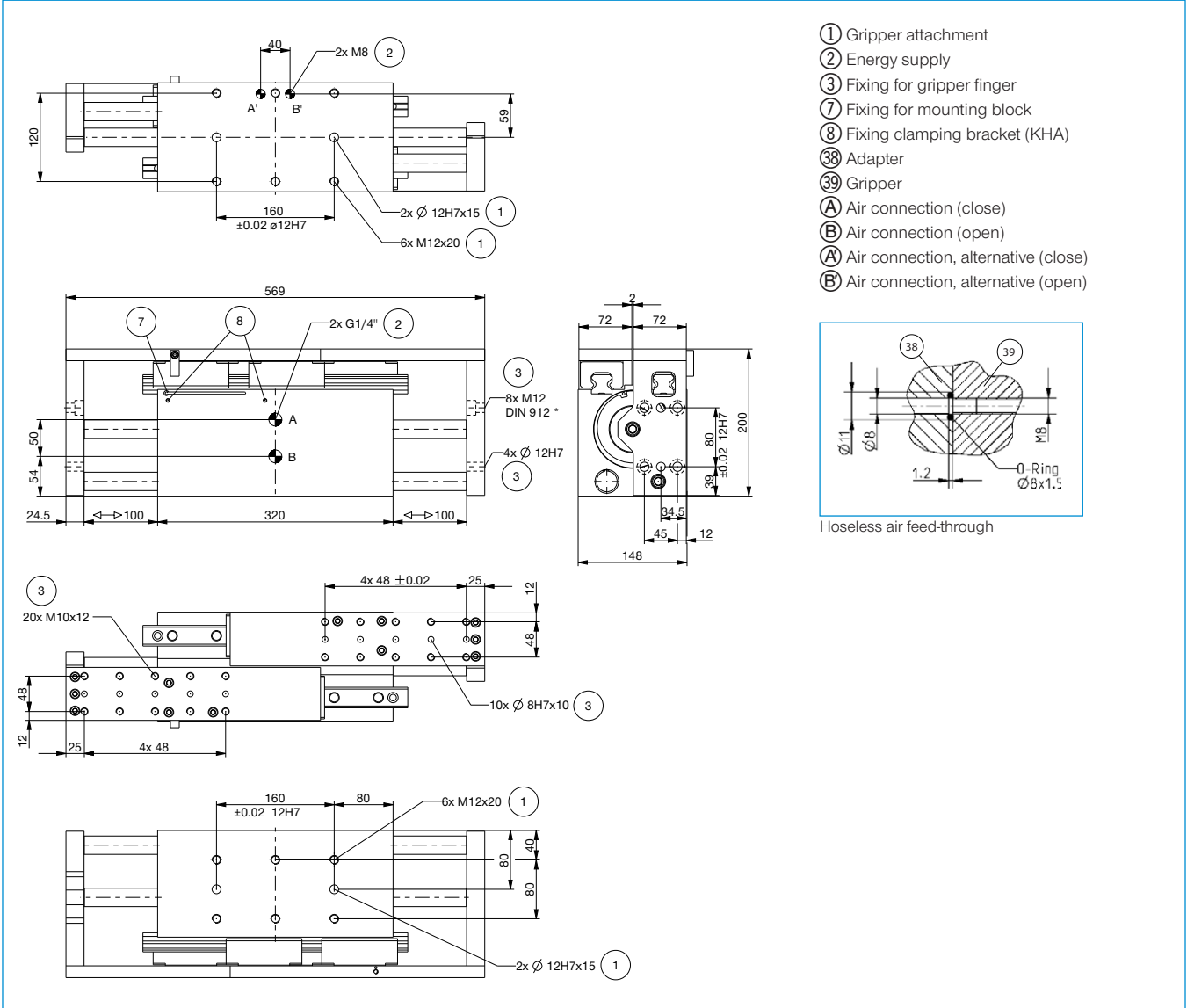


Pressure Safety Valve

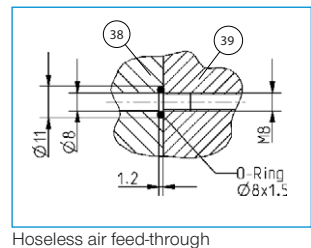
DSV1-8

Order no.	GH76100
Stroke per jaw [mm]	100
Gripping force in closing [N]	8000
Gripping force in opening [N]	8500
Closing time [s]	1.5
Opening time [s]	1.5
Repetition accuracy +/- [mm]	0.05
Operating pressure min. [bar]	3
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm³]	3040
Weight [kg]	36

*All data measured at 6 bar



- ① Gripper attachment
- ② Energy supply
- ③ Fixing for gripper finger
- ⑦ Fixing for mounting block
- ⑧ Fixing clamping bracket (KHA)
- ③⑧ Adapter
- ③⑨ Gripper
- Ⓐ Air connection (close)
- Ⓑ Air connection (open)
- Ⓐ Air connection, alternative (close)
- Ⓑ Air connection, alternative (open)



2-JAW PARALLEL GRIPPERS WITH LONG STROKE

OVERVIEW OF SERIES



▶ ELECTRICAL

	Series GEH6000IL	230
	Series GEH8000	240

2-JAW PARALLEL GRIPPERS

SERIES GEH6000IL

▶ PRODUCT ADVANTAGES



IO-Link

“Highest performance”

- ▶ 5 million maintenance-free cycles
- ▶ Integrated sensing via IO-Link
- ▶ Self locking mechanism
- ▶ The highest power density on the market

A superior proportion of gripping force to mass, volume and price enables you to have the maximum level of process reliability and cost optimization in the smallest amount of space

▶ Servo drive with integrated controller

Brushless drive technology, position, speed and force control in combination with a self locking mechanism guarantee the highest amount of functionality

▶ IO-Link on board

In addition to the unshielded single-cable solution, the future-proof, hot-pluggable activation provides you with a wide variety of travel profiles for easy implementation into your control system

▶ THE BEST PRODUCT FOR YOUR APPLICATION



▶ Our products love the challenge!

Extreme conditions, all over the world—our tried and tested components and systems give you limitless possibilities:

Find the best product for your specific use:

www.zimmer-group.com

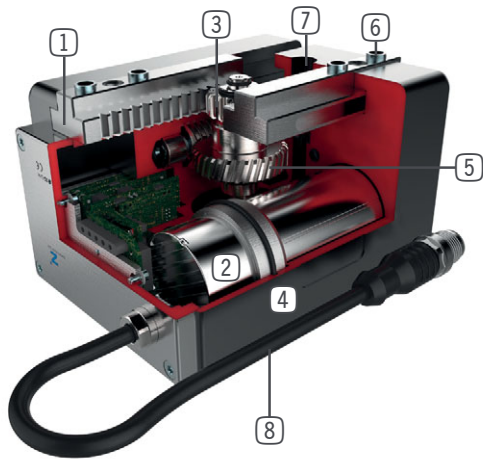
HOW TO ORDER CORRECTLY

- ▶ The product order numbers are arranged according to this diagram:

Order no.	GEH6060	<input type="checkbox"/>	<input type="checkbox"/>	-A
IO-Link control		IL		
Positionable			03	



► BENEFITS IN DETAIL



- 1 Precise T-Slot guide**
- high forces and moments capacity
- 2 Drive**
- Brushless DC servomotor
- 3 Rack and pinion gear**
- synchronized the movement of the gripper jaws
- high force transfer
- 4 Robust, lightweight housing**
- Hard-coated aluminum alloy
- 5 Helical gear - worm gear**
- self locking mechanism in case of power drop
- 6 Removable centering sleeves**
- quick and economical positioning of the gripper fingers
- 7 Mounting and positioning**
- mounting possible from several sides for versatile positioning
- 8 Energy supply**
- standardized connector

► SERIES CHARACTERISTICS



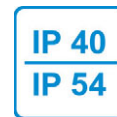
Number of installation sizes	2
Stroke per jaw, adjustable	up to 80 mm
Gripping force, adjustable	60 N - 2400 N
Weight	0,76 kg - 2,6 kg
AP class	3



5 million maintenance-free cycles (max.)



Integrated sensing



IP40 / IP54



Self locking mechanism

2-JAW PARALLEL GRIPPERS

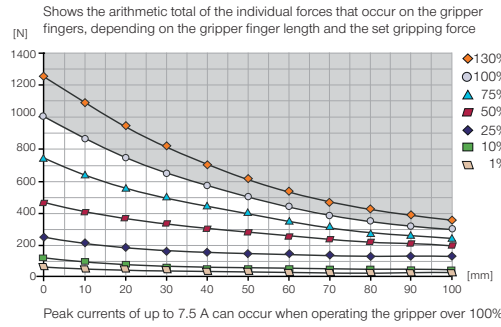
INSTALLATION SIZE GEH6060IL

▶ PRODUCT SPECIFICATIONS

 IO-Link

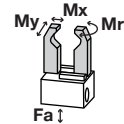


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	35
Mx [Nm]	35
My [Nm]	35
Fa [N]	500

▶ INCLUDED IN DELIVERY



Centering Disc

DST40400

▶ RECOMMENDED ACCESSORIES



Universal Jaw Aluminium

UB6000-B



 IO-Link

Plug-in connector straight
5m - plug / socket M12

KAG500IL



 IO-Link

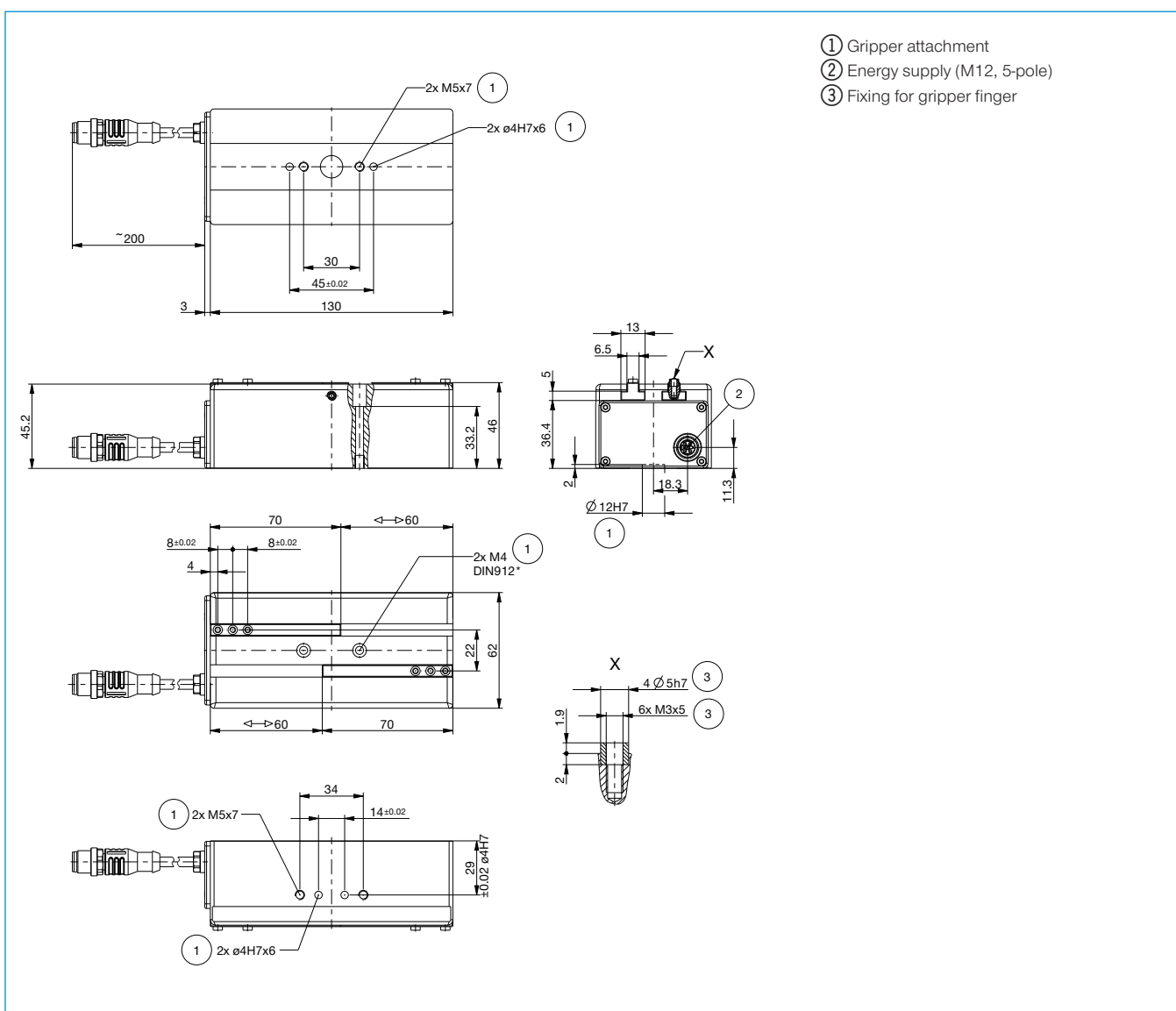
Y-Plug-in Connector

B12-Y-5IL

Order no.	Technical Data
Drive	BLDC motor
Stroke per jaw, adjustable [mm]	60
Nominal gripping force [N]*	1000
Gripping force min. [N]	60
Gripping force max. [N]**	1250
Self locking mechanism	mechanical
Permissible weight per jaw max [kg]	0.3
Length of the gripper fingers max. [mm]	100
Max. movement speed per gripper finger [mm/s]	60
Repetition accuracy +/- [mm]	0.05
Operating temperature min. [°C]	+5
Operating temperature max. [°C]	+50
Protection to IEC 60529	IP40
Weight [kg]	0.9

*Max. peak current ≤ 5 A

**Max. peak current ≤ 7.5 A



2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GEH6140IL

1

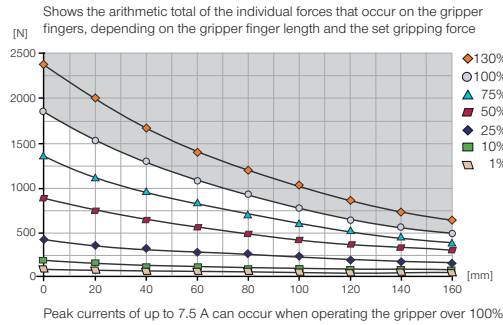
Installation size GEH6140IL / 2-Jaw Parallel Grippers / electric / Grippers

▶ PRODUCT SPECIFICATIONS

 IO-Link

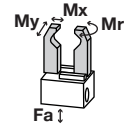


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	70
Mx [Nm]	80
My [Nm]	60
Fa [N]	1500

▶ INCLUDED IN DELIVERY



Centering Disc

DST70000

▶ RECOMMENDED ACCESSORIES



Universal Jaw Aluminium

UB6100-B



 IO-Link

Plug-in connector straight
5m - plug / socket M12

KAG500IL



 IO-Link

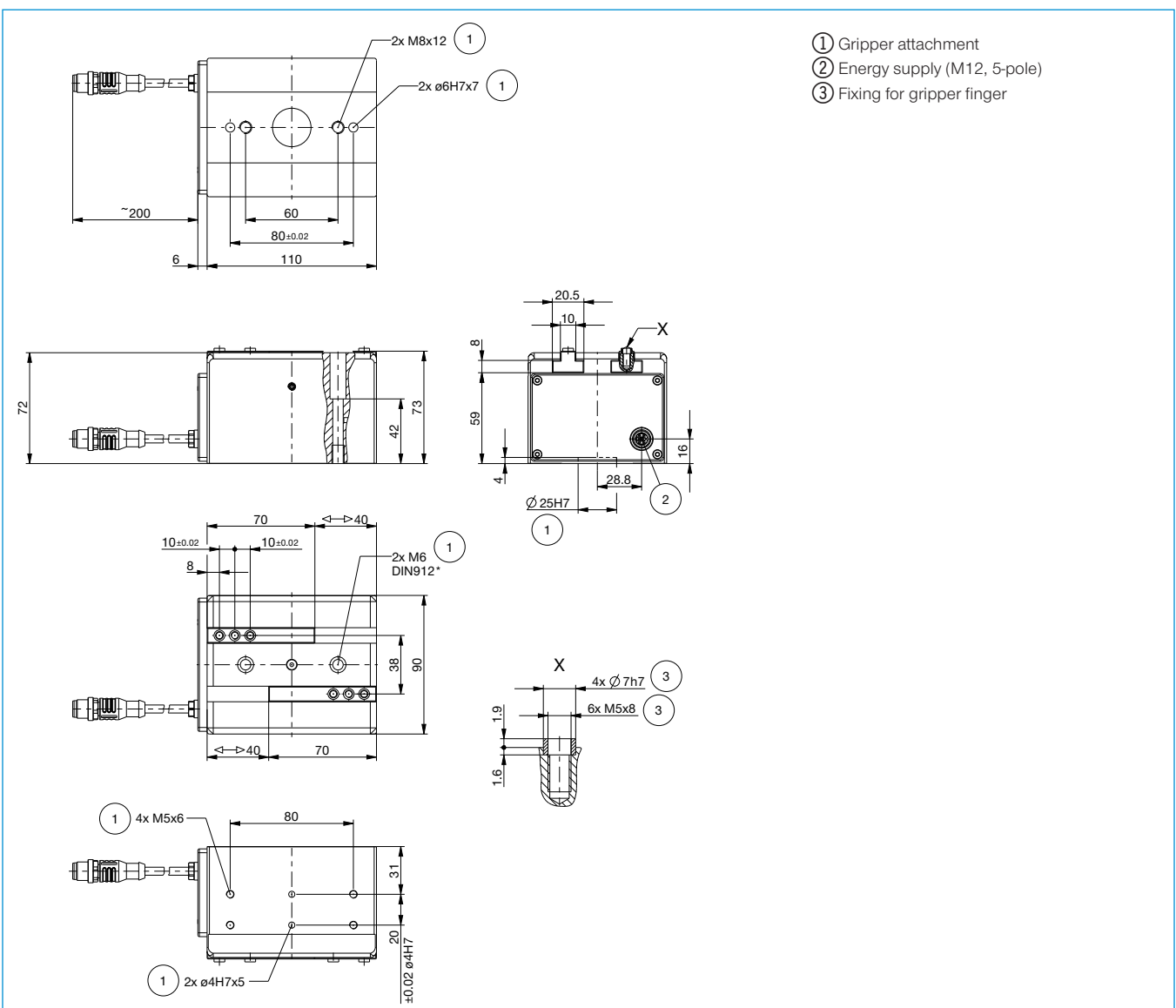
Y-Plug-in Connector

B12-Y-5IL

► Technical Data

Order no.	GEH6140IL-03-A
Drive	BLDC motor
Stroke per jaw, adjustable [mm]	40
Nominal gripping force [N]*	1800
Gripping force min. [N]	100
Gripping force max. [N]**	2400
Self locking mechanism	mechanical
Permissible weight per jaw max [kg]	1
Length of the gripper fingers max. [mm]	160
Max. movement speed per gripper finger [mm/s]	50
Repetition accuracy +/- [mm]	0.05
Operating temperature min. [°C]	+5
Operating temperature max. [°C]	+50
Protection to IEC 60529	IP54
Weight [kg]	1.9

*Max. peak current ≤ 5 A
 **Max. peak current ≤ 7.5 A



2-JAW PARALLEL GRIPPERS

INSTALLATION SIZE GEH6180IL

1

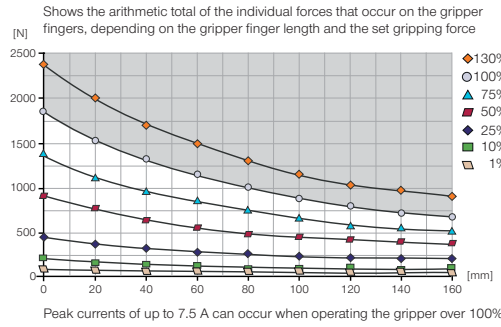
Installation size GEH6180IL / 2-Jaw Parallel Grippers / electric / Grippers

▶ PRODUCT SPECIFICATIONS

 IO-Link

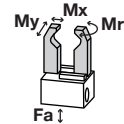


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	100
Mx [Nm]	140
My [Nm]	90
Fa [N]	1500

▶ INCLUDED IN DELIVERY



Centering Disc

DST70000

▶ RECOMMENDED ACCESSORIES



Universal Jaw Aluminium

UB6100-B



 IO-Link

Plug-in connector straight
5m - plug / socket M12

KAG500IL



 IO-Link

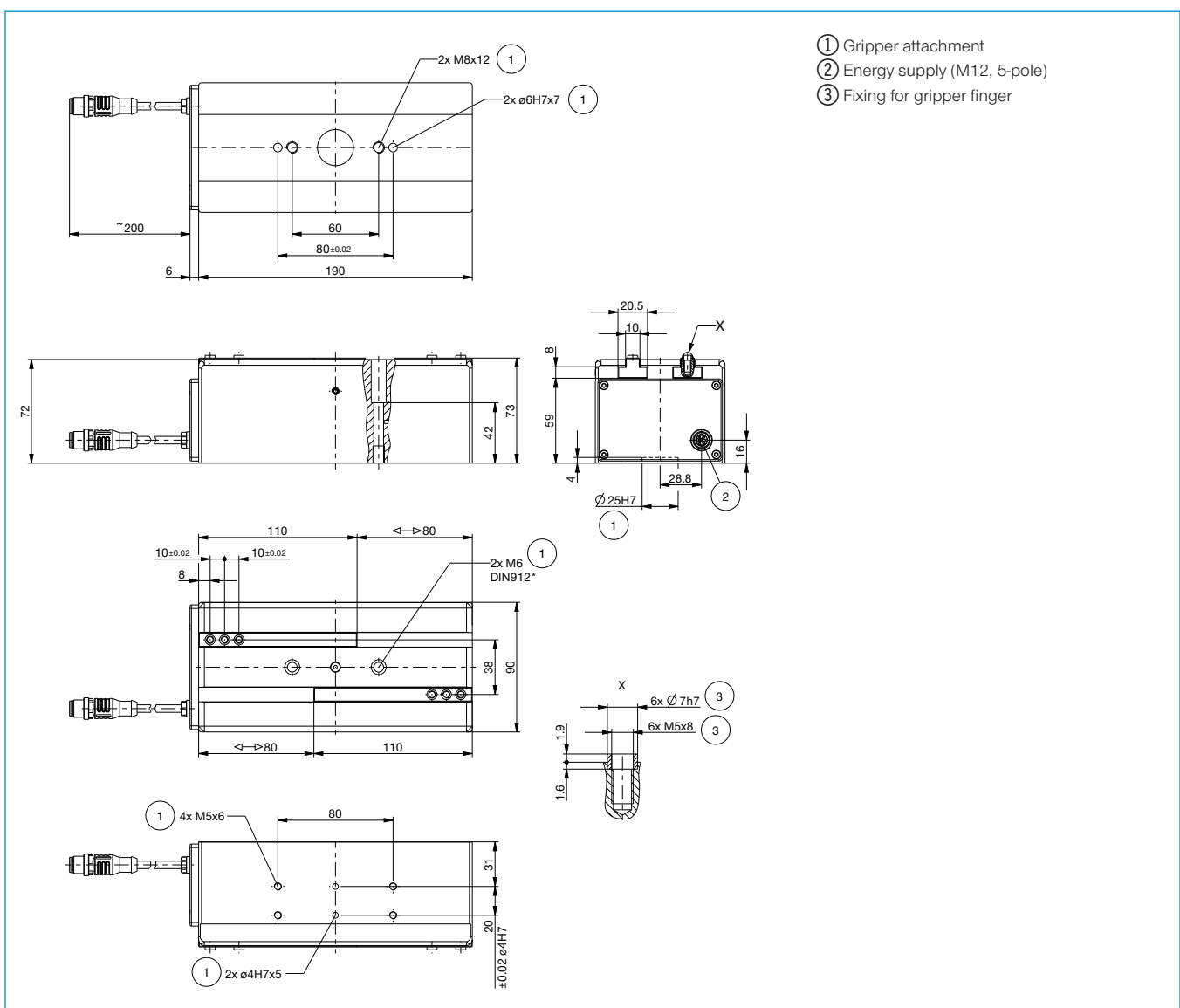
Y-Plug-in Connector

B12-Y-5IL

Order no.	Technical Data
Drive	BLDC motor
Stroke per jaw, adjustable [mm]	80
Nominal gripping force [N]*	1800
Gripping force min. [N]	100
Gripping force max. [N]**	2400
Self locking mechanism	mechanical
Permissible weight per jaw max [kg]	1
Length of the gripper fingers max. [mm]	160
Max. movement speed per gripper finger [mm/s]	50
Repetition accuracy +/- [mm]	0.05
Operating temperature min. [°C]	+5
Operating temperature max. [°C]	+50
Protection to IEC 60529	IP54
Weight [kg]	2.6

*Max. peak current ≤ 5 A

**Max. peak current ≤ 7.5 A



2-JAW PARALLEL GRIPPERS

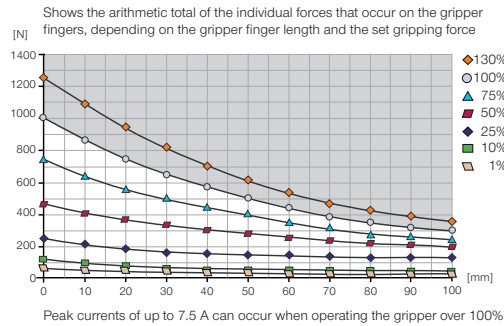
INSTALLATION SIZE GEH6040IL

COMING
SOON

▶ PRODUCT SPECIFICATIONS

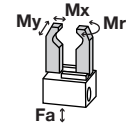


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	25
Mx [Nm]	25
My [Nm]	25
Fa [N]	500

▶ TECHNICAL DATA

▶ Technical Data

Order no.	GEH6040IL-03-A
Drive	BLDC motor
Stroke per jaw, adjustable [mm]	40
Nominal gripping force [N]*	1000
Gripping force min. [N]	60
Gripping force max. [N]**	1250
Self locking mechanism	mechanical
Permissible weight per jaw max [kg]	0.3
Length of the gripper fingers max. [mm]	100
Max. movement speed per gripper finger [mm/s]	60
Repetition accuracy +/- [mm]	0.05
Operating temperature min. [°C]	+5
Operating temperature max. [°C]	+50
Protection to IEC 60529	IP40
Weight [kg]	0.76

*Max. peak current ≤ 5 A

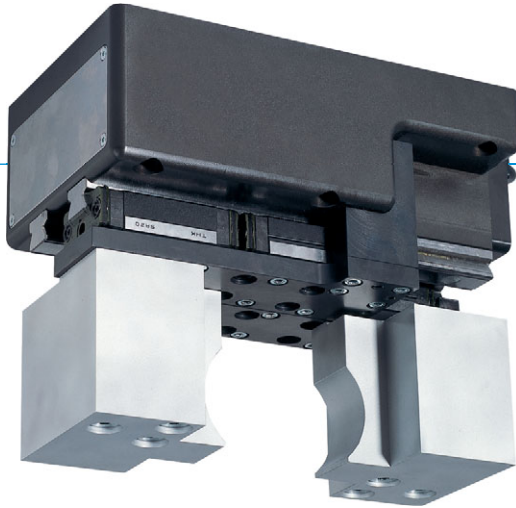
**Max. peak current ≤ 7.5 A

2-JAW PARALLEL GRIPPERS WITH LONG STROKE SERIES GEH8000

1

Series GEH8000 / 2-Jaw Parallel Grippers with Long Stroke / electric / Grippers

▶ PRODUCT ADVANTAGES



“The strong”

▶ High gripping force

Using the high gripping force, you can safely handle even the heaviest workpieces

▶ Servo drive

Position, speed and force control in combination with a mechanical self locking mechanism guarantee the highest functionality

▶ Multibus

How you stay flexible: PROFIBUS, SERCOS III, PROFINET IO, EtherNet/IP or EtherCat - You decide what harmonises best with your system

▶ THE BEST PRODUCT FOR YOUR APPLICATION



▶ Our products love the challenge!

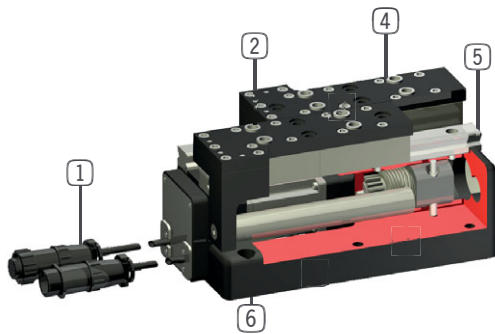
Extreme conditions, all over the world—our tried and tested components and systems give you limitless possibilities:

Find the best product for your specific use:

www.zimmer-group.com

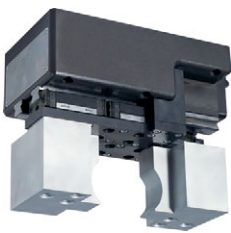


► BENEFITS IN DETAIL



- ① **Energy supply**
 - motor cable, female
 - encoder cable, male
- ② **Removable centering sleeves**
 - quick and economical positioning of the gripper fingers
- ③ **Drive**
 - AC servo motor
- ④ **Gripper jaw**
 - hardened steel
 - individual gripper finger mounting
- ⑤ **Precise linear guide**
 - high forces and moments capacity
 - guide wagon with wiper for harsh environments
- ⑥ **Mounting and positioning**
- ⑦ **Robust, lightweight housing**
 - Hard-coated aluminum alloy
- ⑧ **Synchronization**
 - via rack and pinion

► SERIES CHARACTERISTICS



Number of installation sizes	1
Stroke per jaw	max. 60mm
Holding force	max. 3200N
Weight	10kg
AP class	3



10 million maintenance-free cycles (max.)



Integrated sensing



IP54



Self locking mechanism

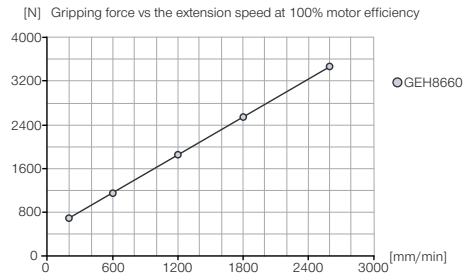
2-JAW PARALLEL GRIPPERS WITH LONG STROKE SERIES GEH8000

Installation size GEH8660 / 2-Jaw Parallel Grippers with Long Stroke / electric / Grippers

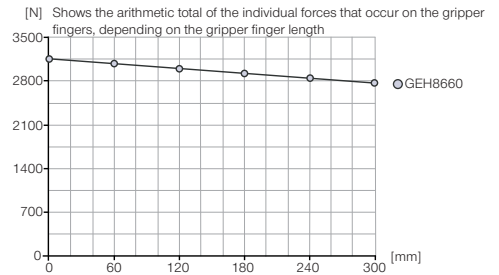
▶ PRODUCT SPECIFICATIONS



▶ Gripping force diagram



▶ Gripping force diagram



▶ INCLUDED IN DELIVERY



Commissioning USB

052650

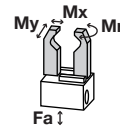


Centering Disc

DST41600

▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr	220
Mx	220
My	950

▶ RECOMMENDED ACCESSORIES



Indra Works Drive Start Up CD

ZUBHCSS



Drive controller Profibus

ZUBHCS



Drive control unit SERCOS III, PROFINET IO, EtherNet/IP, EtherCAT
ZUBHCSME



Programming cable

ZUBHCSKAP01



Power cable 5 m

ZUBHCSKAL05



Power cable 10 m

ZUBHCSKAL10



Power cable 25 m

ZUBHCSKAL25



Encoder cable 5 m

ZUBHCSKAG05



Encoder cable 10 m

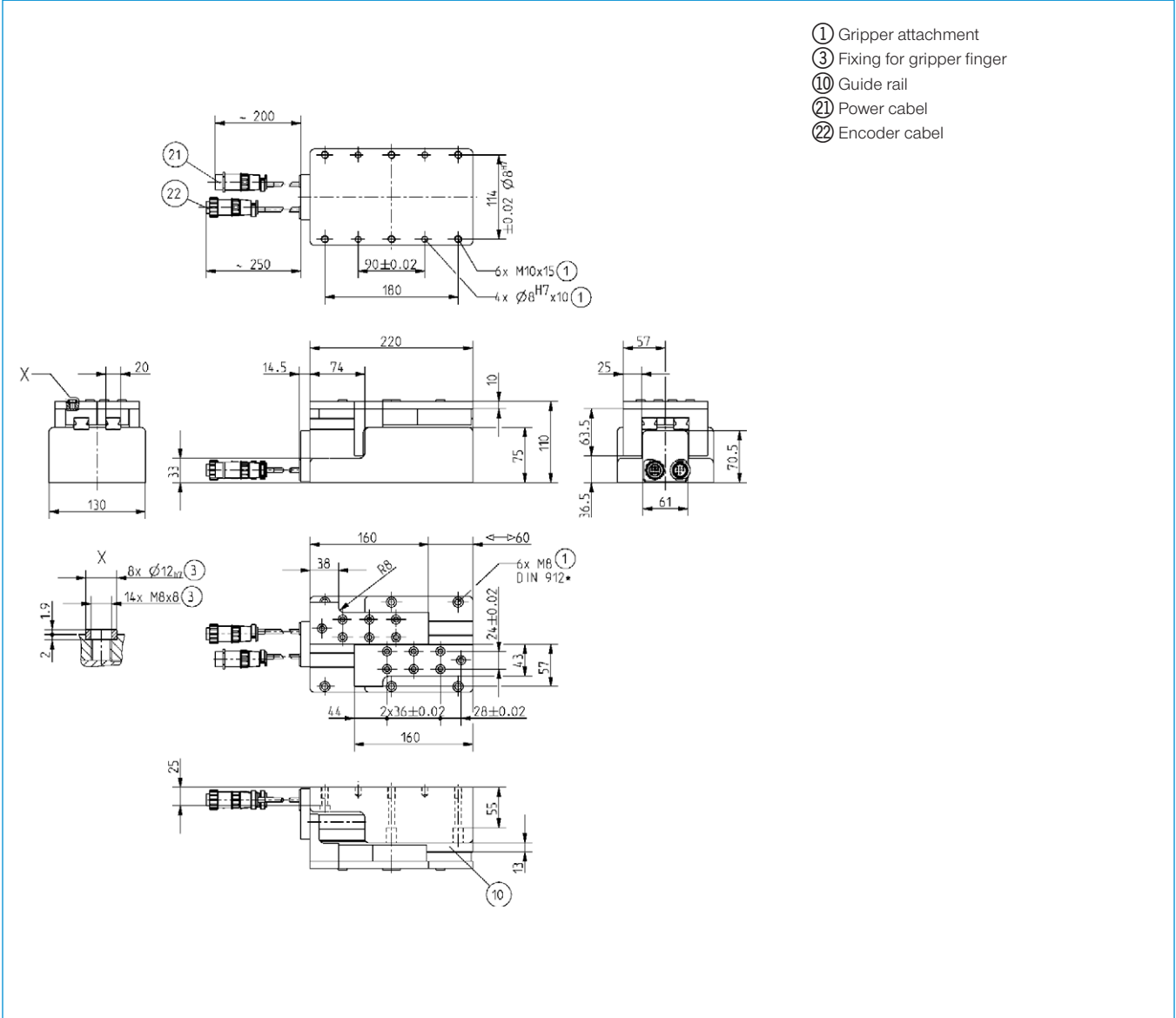
ZUBHCSKAG10



Encoder cable 25 m

ZUBHCSKAG25

► Technical Data	
Order no.	GEH8660
Drive	AC-Servomotor
Stroke per jaw [mm]	60
Max. retention force (at 100% opening usage) [N]	3200
Retention force min. [N]	200
Self locking mechanism	gear rack / worm drive
Power transfer	Rack / worm gear
Closing time / Opening time at maximum stroke [s]	1.5
Repetition accuracy +/- [mm]	0.05
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Protection to IEC 60529	IP54
Weight [kg]	10
Drive	
Load gear output revolution	49
Load gear input revolution	375
Feed constant [mm/rev]	3.1415

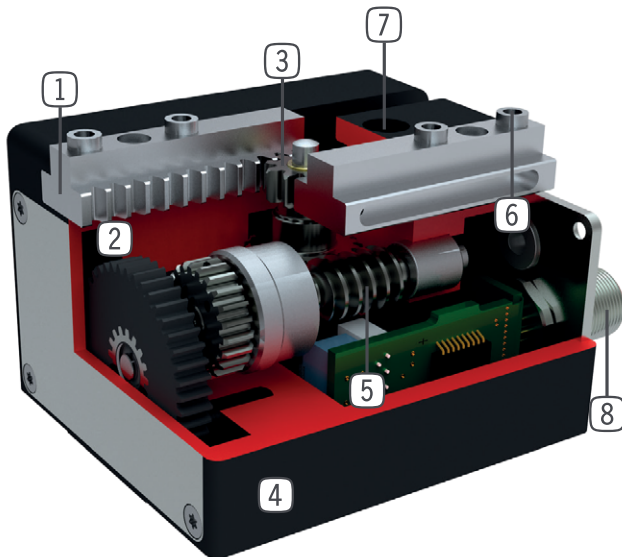


2-JAW PARALLEL GRIPPERS

SERIES GEH6000

still available

► BENEFITS IN DETAIL



- ① **Precise T-Slot guide**
- high forces and moments capacity
- ② **Drive**
- DC-Motor with encoder
- ③ **Rack and pinion gear**
- synchronized the movement of the gripper jaws
- high force transfer
- ④ **Robust, lightweight housing**
- Hard-coated aluminum alloy
- ⑤ **Helical gear - worm gear**
- self locking mechanism in case of power drop
- ⑥ **Removable centering sleeves**
- quick and economical positioning of the gripper fingers
- ⑦ **Mounting and positioning**
- mounting possible from several sides for versatile positioning
- ⑧ **Energy supply**
- standardized connector

► TECHNICAL DATA *



Number of installation sizes	2
Stroke per jaw	30 mm - 80 mm
Holding force	1000 N - 2000 N
Weight	0,7 kg - 2,6 kg

*further information is available online

► FOR NEW DESIGNS, USE THE SUCCESSOR SERIES, THE GEH6000IL



"Highest performance"

- 5 million maintenance-free cycles
- Integrated sensing via IO-Link
- Self locking mechanism
- The highest power density on the market

A superior proportion of gripping force to mass, volume and price enables you to have the maximum level of process reliability and cost optimization in the smallest amount of space

- Servo drive with integrated controller

Brushless drive technology, position, speed and force control in combination with a self locking mechanism guarantee the highest amount of functionality

- IO-Link on board

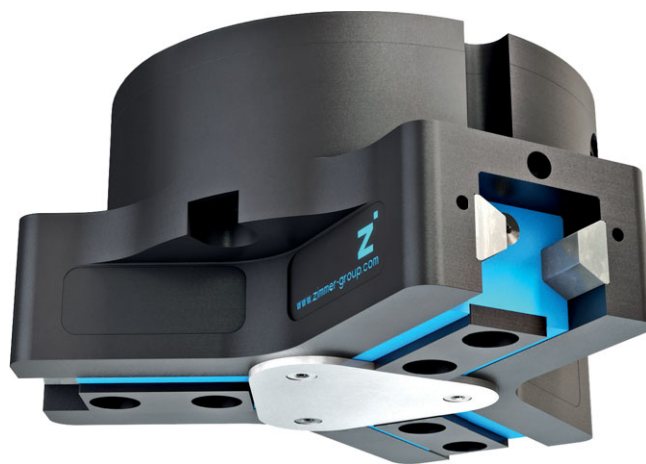
In addition to the unshielded single-cable solution, the future-proof, hot-pluggable activation provides you with a wide variety of travel profiles for easy implementation into your control system

3-JAW CONCENTRIC GRIPPERS

OVERVIEW OF SERIES

1

Overview of Series / 3-Jaw Concentric Grippers



▶ PNEUMATIC



Series MGD800

248



Series GD

266



Series GD300

274



Series GPD5000

294

3-JAW CONCENTRIC GRIPPERS

SERIES MGD800

1

Series MGD800 / 3-Jaw Concentric Grippers / pneumatic / Grippers

▶ PRODUCT ADVANTAGES



“The superior”

▶ **Gripper jaws may be almost 100% longer in comparison to the benchmark**

The highest force and torque measurement enables flexible for maximum dynamics

▶ **Best price/performance ratio**

Reduces your investment costs and speeds the ROI for your application

▶ **Failure-free continuous operation**

Our uncompromising “Made in Germany” quality guarantees up to 10 million maintenance-free gripping cycles

▶ THE BEST PRODUCT FOR YOUR APPLICATION



▶ **Our products love the challenge!**

Extreme conditions, all over the world—our tried and tested components and systems give you limitless possibilities:

Find the best product for your specific use:

www.zimmer-group.com

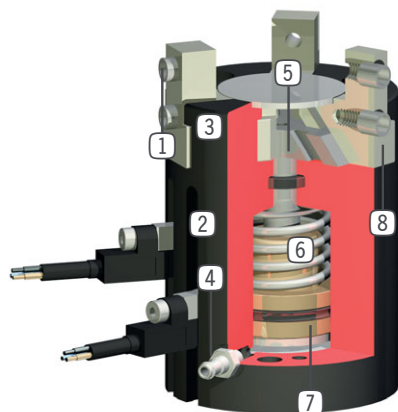
HOW TO ORDER CORRECTLY

- ▶ The product order numbers are arranged according to this diagram:

Order no.	MGD803N	<input type="checkbox"/>		
For external gripping, self-locking, spring closing		C		



► BENEFITS IN DETAIL



- ① **Removable centering sleeves**
 - quick and economical positioning of the gripper fingers
- ② **Sensing slot**
 - mounting and positioning of magnetic field sensors
- ③ **Robust, lightweight housing**
 - Hard-coated aluminum alloy
- ④ **Energy supply**
 - possible from several sides
- ⑤ **Wedge hook mechanism**
 - synchronized the movement of the gripper jaws
- ⑥ **Integrated gripping force safety device**
 - spring integrated into cylinder as energy storage (from size 803 upwards)
- ⑦ **Position sensing**
 - permanent magnet for direct monitoring of piston movement
- ⑧ **Precise T-Slot guide**
 - high forces and moments capacity

► SERIES CHARACTERISTICS



Number of installation sizes	8
Stroke per jaw	1 mm - 12 mm
Gripping force	30 N - 1420 N
Weight	0,025 kg - 2 kg
AP class	2



10 million maintenance-free cycles (max.)



Spring closing C



IP40



Magnetic field sensor

3-JAW CONCENTRIC GRIPPERS

INSTALLATION SIZE MGD801

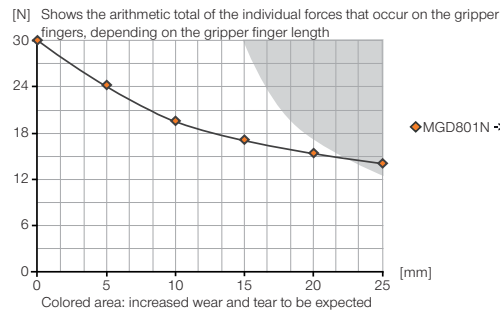
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Installation size MGD801 / 3-Jaw Concentric Grippers / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS

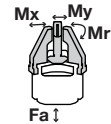


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	2
Mx [Nm]	2
My [Nm]	4
Fa [N]	58

▶ INCLUDED IN DELIVERY



Centering Disc

DST80200

▶ RECOMMENDED ACCESSORIES



Straight Fittings - Barb Style Connection

GVM3



Angled Fittings - Barb Style Connection

WVM3



Quick Exhaust Valve

DEV04

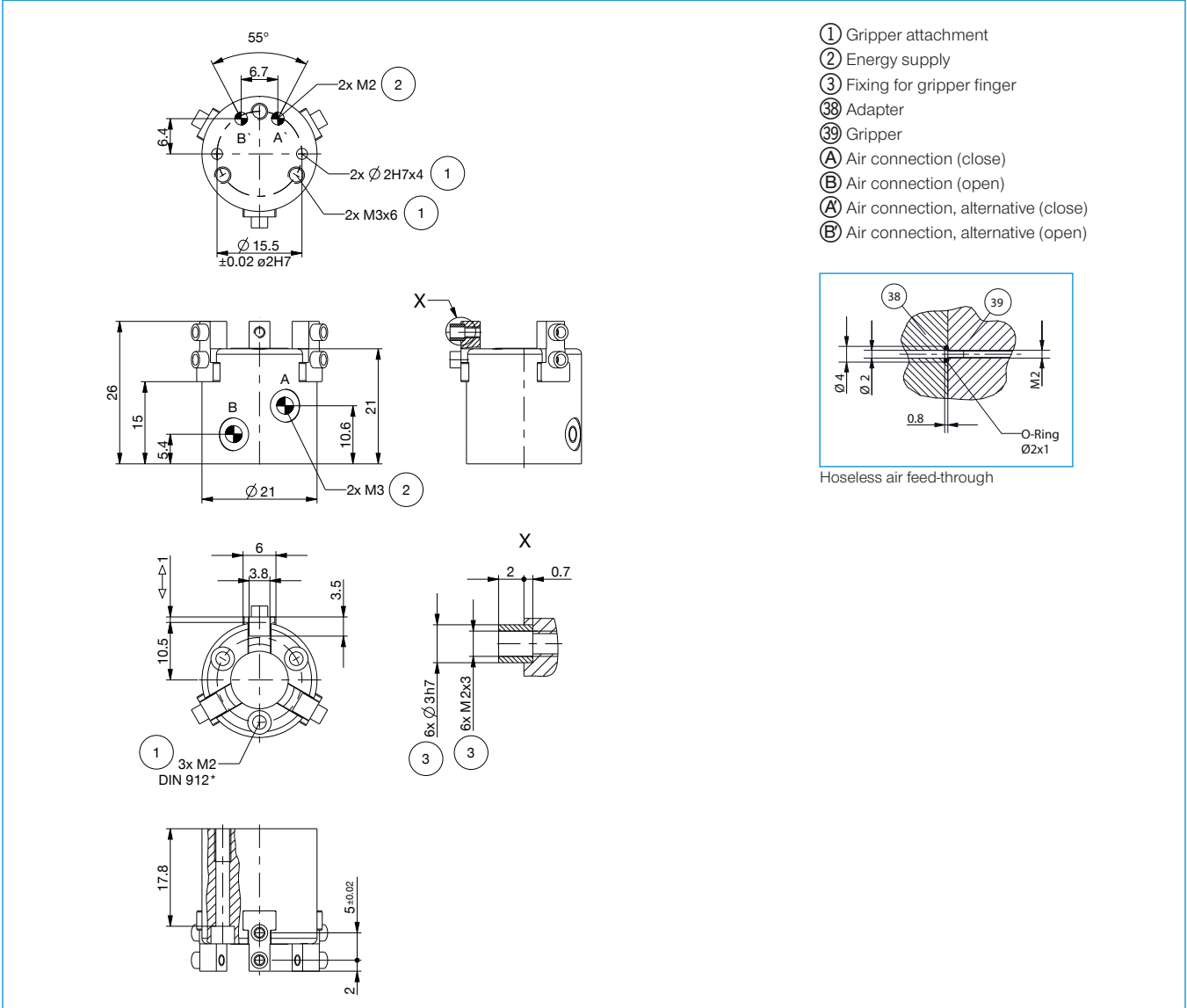


Pressure Safety Valve

DSV1-8

Order no.	MGD801N
Stroke per jaw [mm]	1
Gripping force in closing [N]	30
Gripping force in opening [N]	34
Closing time [s]	0.01
Opening time [s]	0.01
Repetition accuracy +/- [mm]	0.02
Operating pressure min. [bar]	3
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm³]	0.2
Weight [kg]	0.025

*All data measured at 6 bar



3-JAW CONCENTRIC GRIPPERS

INSTALLATION SIZE MGD802

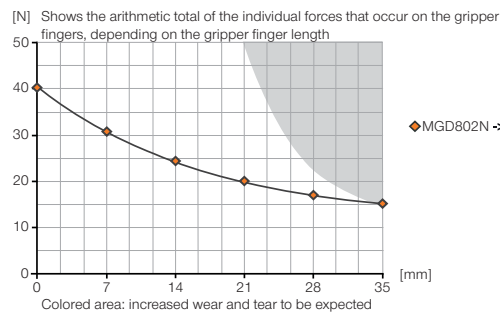
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Installation size MGD802 / 3-Jaw Concentric Grippers / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS

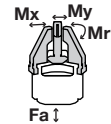


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	4
Mx [Nm]	4
My [Nm]	6
Fa [N]	100

▶ INCLUDED IN DELIVERY



Centering Disc

DST80200

▶ RECOMMENDED ACCESSORIES



Straight Fittings - Barb Style Connection

GVM3



Angled Fittings - Barb Style Connection

WVM3



Quick Exhaust Valve

DEV04

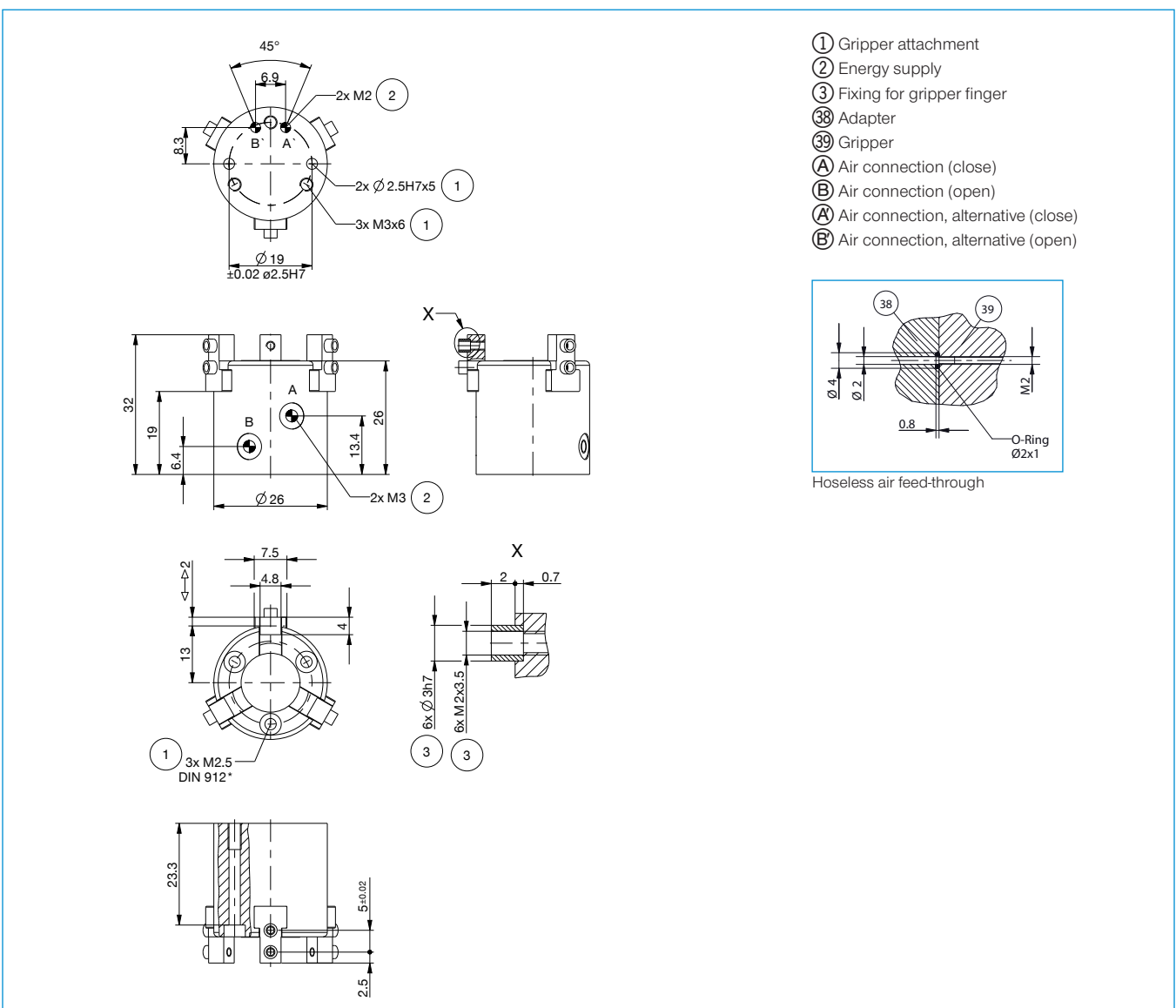


Pressure Safety Valve

DSV1-8

Order no.	MGD802N
Stroke per jaw [mm]	2
Gripping force in closing [N]	40
Gripping force in opening [N]	45
Closing time [s]	0.02
Opening time [s]	0.02
Repetition accuracy +/- [mm]	0.02
Operating pressure min. [bar]	3
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm³]	0.3
Weight [kg]	0.05

*All data measured at 6 bar



3-JAW CONCENTRIC GRIPPERS

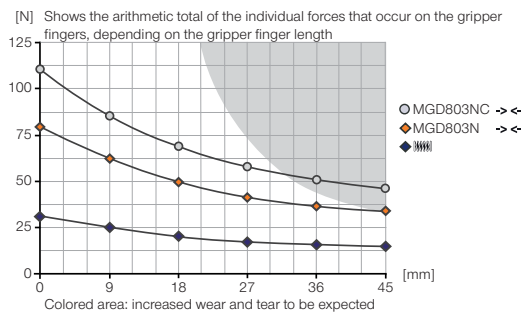
INSTALLATION SIZE MGD803

1

▶ PRODUCT SPECIFICATIONS

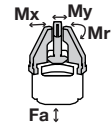


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	5
Mx [Nm]	5
My [Nm]	8
Fa [N]	155

▶ INCLUDED IN DELIVERY



Centering Disc

DST80320

▶ RECOMMENDED ACCESSORIES



Magnetic field sensor
Angled Cable 0,3 m -
Connector M8
MFS103SKHC



Magnetic field sensor
Straight Cable 0,3 m -
Connector M8
MFS204SKHC



Straight Fittings - Barb
Style Connection
GVM3



Angled Fittings - Barb
Style Connection
WVM3



Quick Exhaust Valve
DEV04

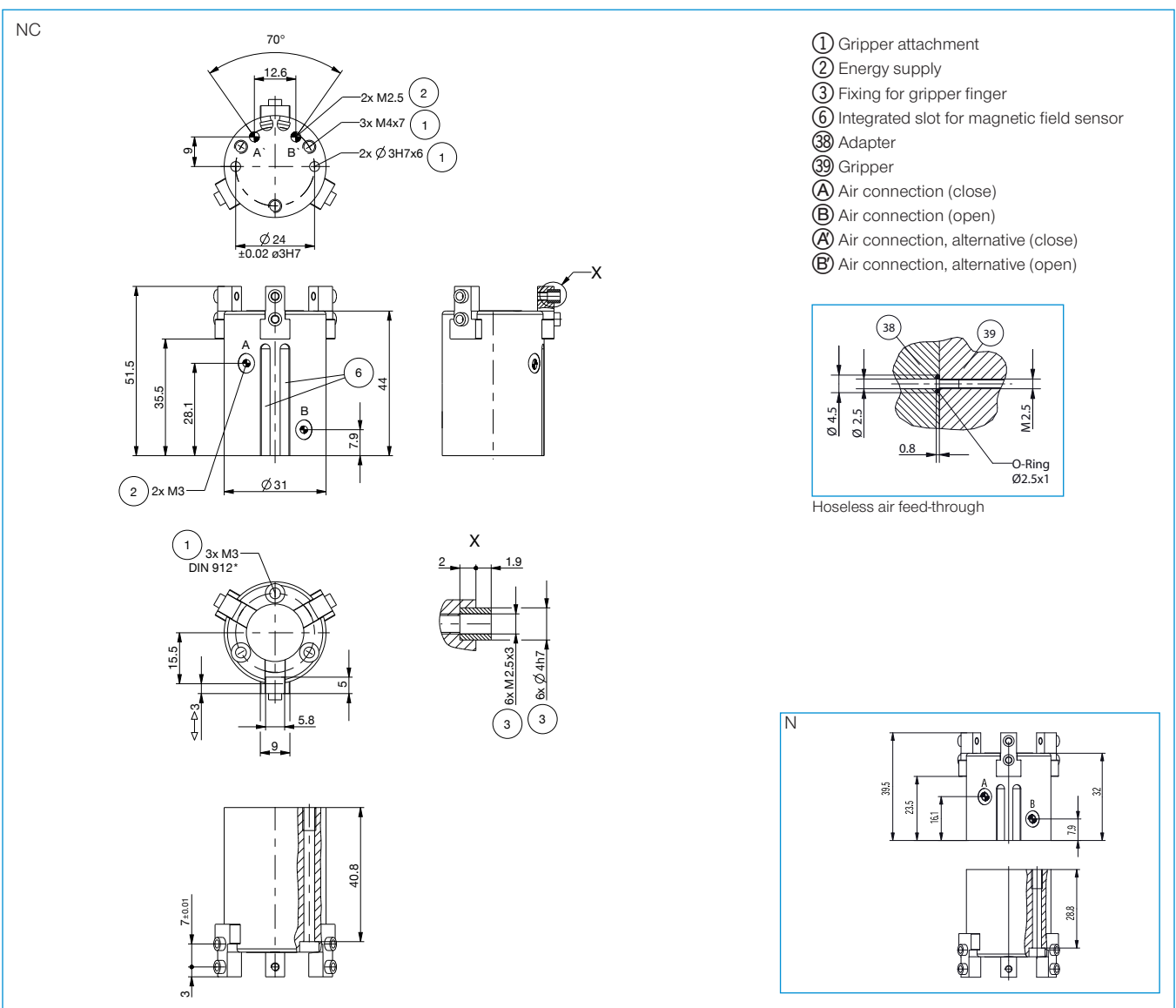


Pressure Safety Valve

DSV1-8

Order no.	► Technical Data*	
	MGD803N	MGD803NC
Stroke per jaw [mm]	3	3
Gripping force in closing [N]	78	110
Gripping force in opening [N]	87	
Gripping force secured by spring min. [N]		32
Closing time [s]	0.02	0.02
Opening time [s]	0.02	0.03
Repetition accuracy +/- [mm]	0.02	0.02
Operating pressure min. [bar]	3	4
Operating pressure max. [bar]	8	8
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm³]	1.5	2.4
Weight [kg]	0.08	0.115

*All data measured at 6 bar



3-JAW CONCENTRIC GRIPPERS

INSTALLATION SIZE MGD804

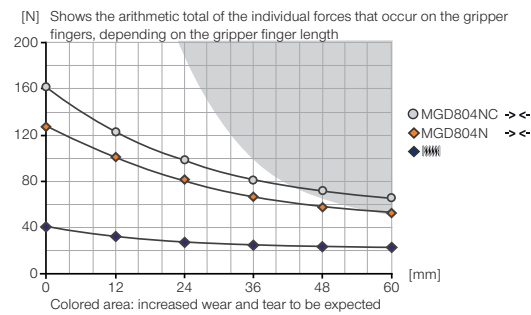
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Installation size MGD804 / 3-Jaw Concentric Grippers / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS

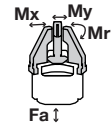


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	8
Mx [Nm]	8
My [Nm]	12
Fa [N]	250

▶ INCLUDED IN DELIVERY



Centering Disc

DST06510

▶ RECOMMENDED ACCESSORIES



Magnetic field sensor
Angled Cable 0,3 m -
Connector M8
MFS103SKHC



Magnetic field sensor
Straight Cable 0,3 m -
Connector M8
MFS204SKHC



Straight Fittings - Barb
Style Connection
GVM3



Angled Fittings - Barb
Style Connection
WVM3



Quick Exhaust Valve
DEV04

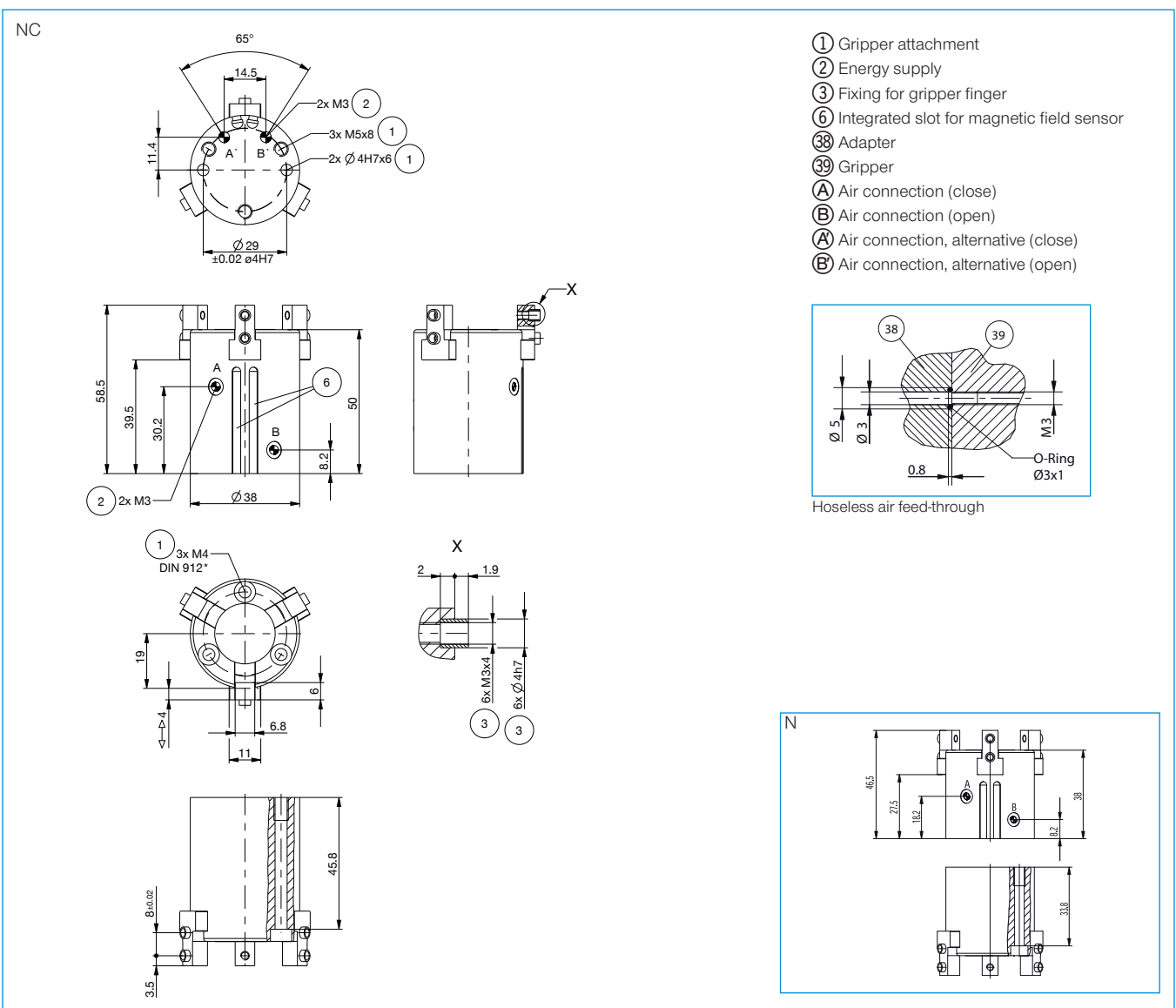


Pressure Safety Valve

DSV1-8

Order no.	► Technical Data*	
	MGD804N	MGD804NC
Stroke per jaw [mm]	4	4
Gripping force in closing [N]	125	160
Gripping force in opening [N]	140	
Gripping force secured by spring min. [N]		35
Closing time [s]	0.02	0.02
Opening time [s]	0.02	0.03
Repetition accuracy +/- [mm]	0.02	0.02
Operating pressure min. [bar]	3	4
Operating pressure max. [bar]	8	8
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm³]	2.9	4.5
Weight [kg]	0.14	0.18

*All data measured at 6 bar



3-JAW CONCENTRIC GRIPPERS

INSTALLATION SIZE MGD806

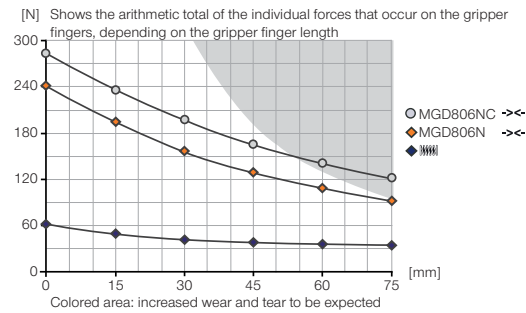
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Installation size MGD806 / 3-Jaw Concentric Grippers / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS

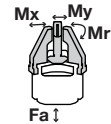


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	12
Mx [Nm]	12
My [Nm]	18
Fa [N]	420

▶ INCLUDED IN DELIVERY



Centering Disc

DST40400

▶ RECOMMENDED ACCESSORIES



Magnetic field sensor
Angled Cable 0,3 m -
Connector M8
MFS103SKHC



Magnetic field sensor
Straight Cable 0,3 m -
Connector M8
MFS204SKHC



Straight Fittings - Quick
Connect Style

GVM5



Quick Exhaust Valve

DEV04

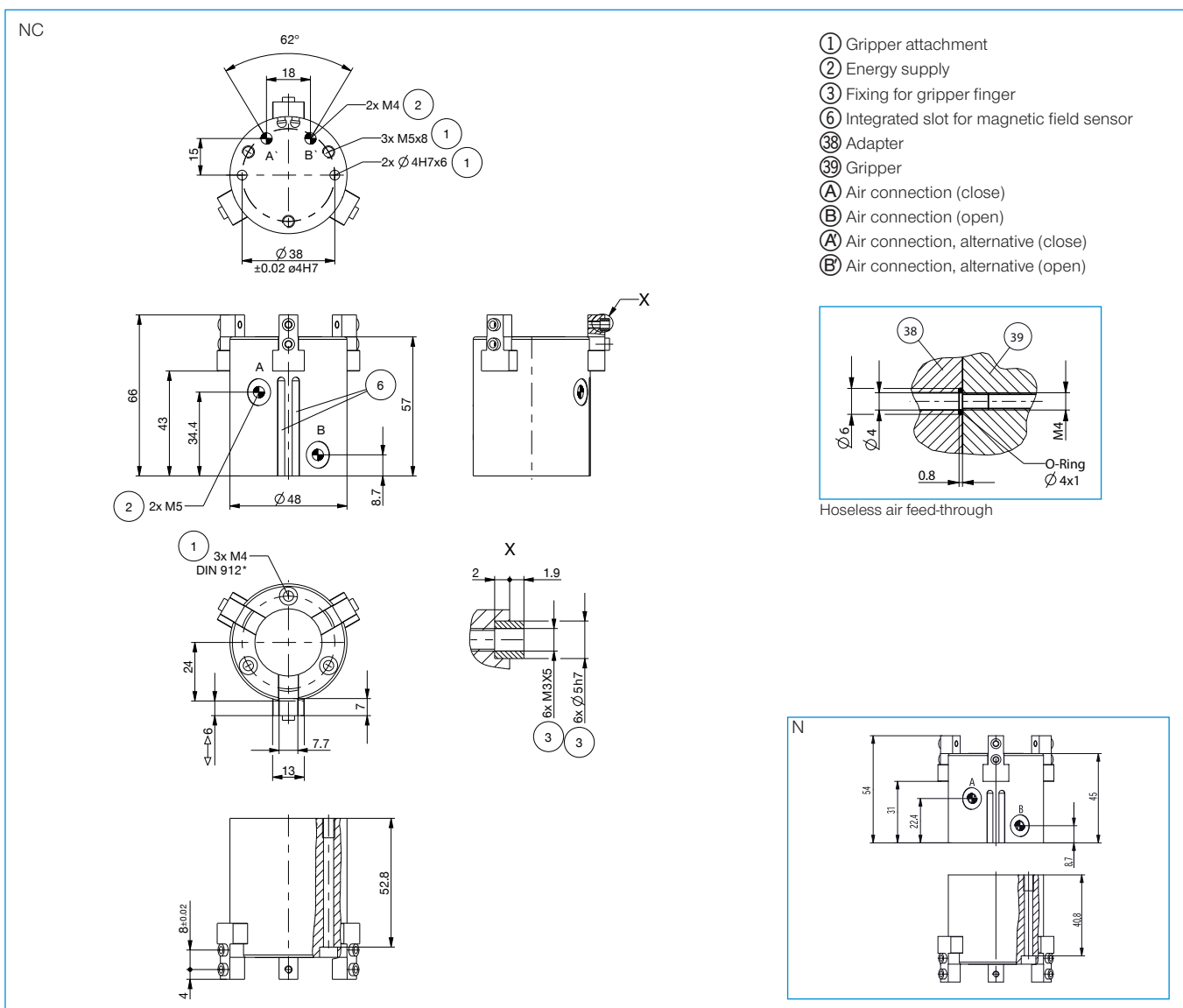


Pressure Safety Valve

DSV1-8

Order no.	► Technical Data*	
	MGD806N	MGD806NC
Stroke per jaw [mm]	6	6
Gripping force in closing [N]	240	295
Gripping force in opening [N]	265	
Gripping force secured by spring min. [N]		55
Closing time [s]	0.04	0.04
Opening time [s]	0.04	0.06
Repetition accuracy +/- [mm]	0.02	0.02
Operating pressure min. [bar]	3	4
Operating pressure max. [bar]	8	8
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm³]	8	11
Weight [kg]	0.26	0.35

*All data measured at 6 bar



3-JAW CONCENTRIC GRIPPERS

INSTALLATION SIZE MGD808

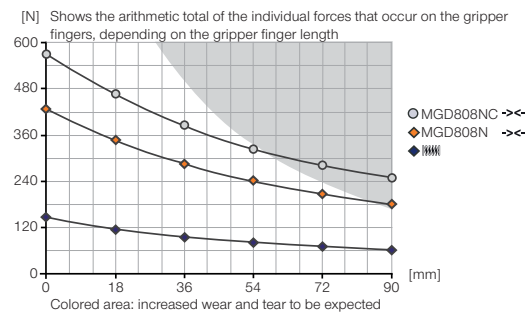
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Installation size MGD808 / 3-Jaw Concentric Grippers / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS

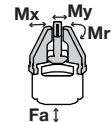


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	18
Mx [Nm]	19
My [Nm]	29
Fa [N]	660

▶ INCLUDED IN DELIVERY



Centering Disc

DST40600

▶ RECOMMENDED ACCESSORIES



Magnetic field sensor
Angled Cable 0,3 m -
Connector M8
MFS103SKHC



Magnetic field sensor
Straight Cable 0,3 m -
Connector M8
MFS204SKHC



Straight Fittings - Quick
Connect Style
GVM5



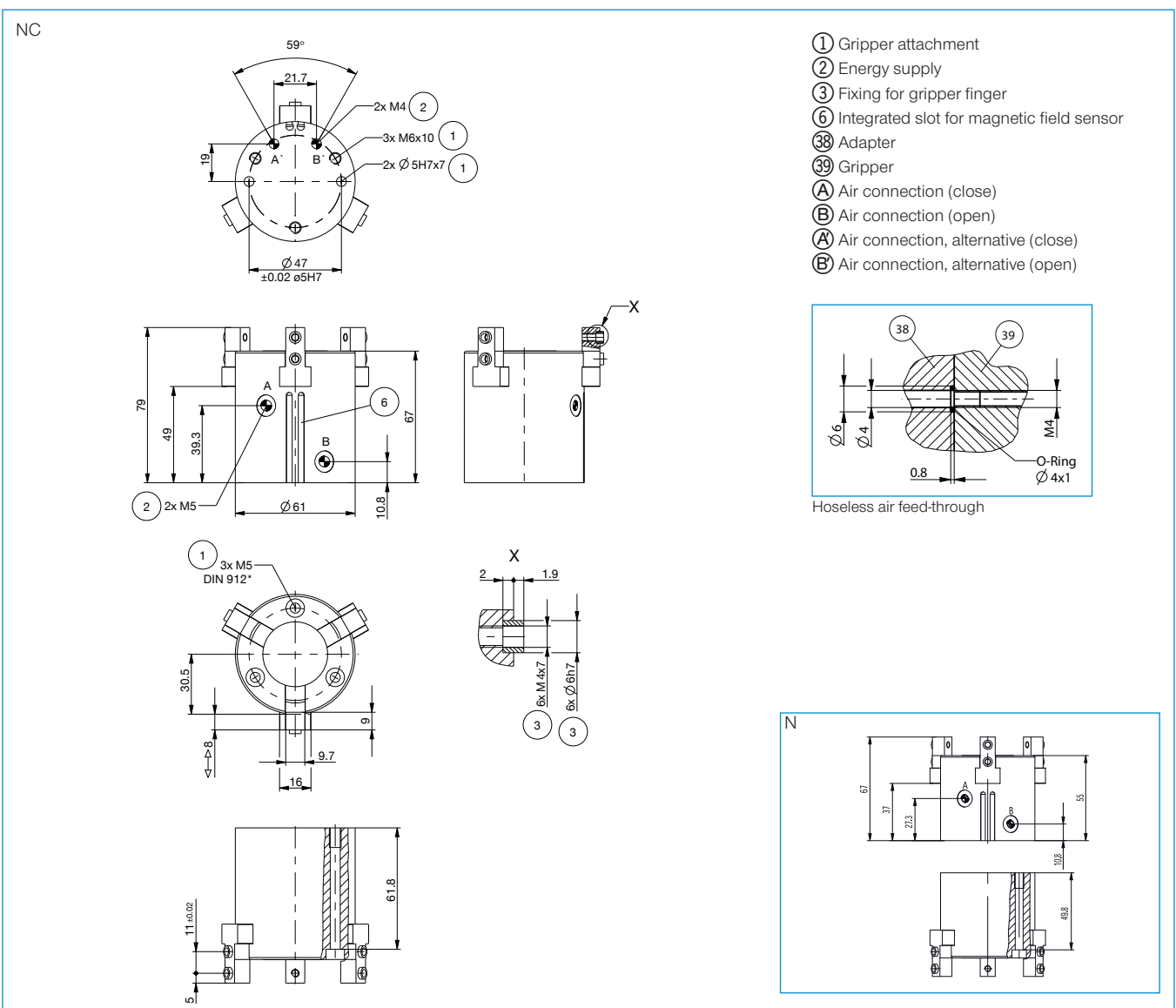
Quick Exhaust Valve
DEV04



Pressure Safety Valve
DSV1-8

Order no.	► Technical Data*	
	MGD808N	MGD808NC
Stroke per jaw [mm]	8	8
Gripping force in closing [N]	415	560
Gripping force in opening [N]	450	
Gripping force secured by spring min. [N]		145
Closing time [s]	0.09	0.08
Opening time [s]	0.09	0.13
Repetition accuracy +/- [mm]	0.02	0.02
Operating pressure min. [bar]	3	4
Operating pressure max. [bar]	8	8
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm³]	18	26
Weight [kg]	0.47	0.65

*All data measured at 6 bar



3-JAW CONCENTRIC GRIPPERS

INSTALLATION SIZE MGD810

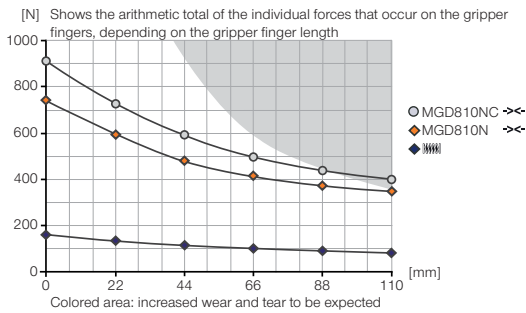
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Installation size MGD810 / 3-Jaw Concentric Grippers / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS

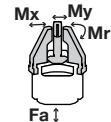


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	27
Mx [Nm]	29
My [Nm]	43
Fa [N]	960

▶ INCLUDED IN DELIVERY



Centering Disc

DST07540

▶ RECOMMENDED ACCESSORIES



Magnetic field sensor
Angled Cable 0,3 m -
Connector M8
MFS103SKHC



Magnetic field sensor
Straight Cable 0,3 m -
Connector M8
MFS204SKHC



Straight Fittings - Quick
Connect Style
GVM5



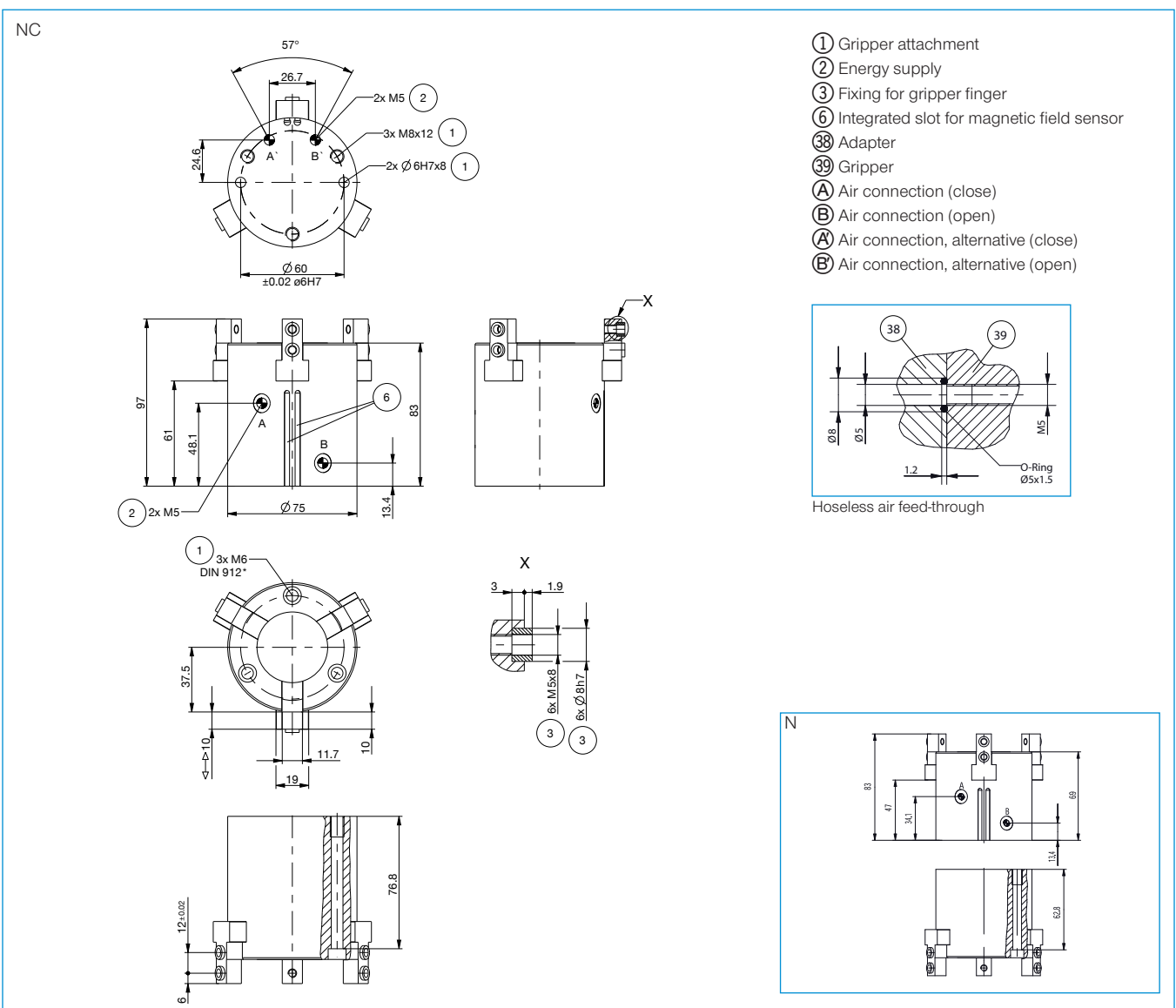
Quick Exhaust Valve
DEV04



Pressure Safety Valve
DSV1-8

Order no.	► Technical Data*	
	MGD810N	MGD810NC
Stroke per jaw [mm]	10	10
Gripping force in closing [N]	740	920
Gripping force in opening [N]	790	
Gripping force secured by spring min. [N]		180
Closing time [s]	0.1	0.1
Opening time [s]	0.1	0.15
Repetition accuracy +/- [mm]	0.02	0.02
Operating pressure min. [bar]	3	4
Operating pressure max. [bar]	8	8
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm³]	37	50
Weight [kg]	0.98	1.16

*All data measured at 6 bar



3-JAW CONCENTRIC GRIPPERS

INSTALLATION SIZE MGD812

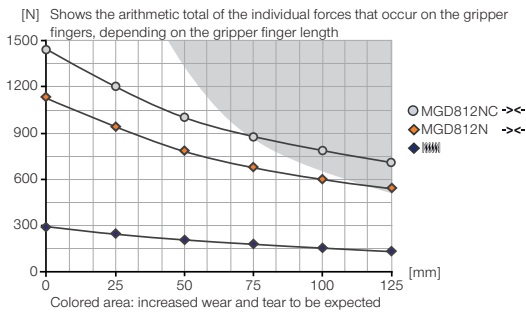
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Installation size MGD812 / 3-Jaw Concentric Grippers / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS

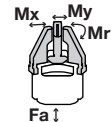


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	41
Mx [Nm]	45
My [Nm]	65
Fa [N]	1500

▶ INCLUDED IN DELIVERY



Centering Disc

DST41000

▶ RECOMMENDED ACCESSORIES



Magnetic field sensor
Angled Cable 0,3 m -
Connector M8
MFS103SKHC



Magnetic field sensor
Straight Cable 0,3 m -
Connector M8
MFS204SKHC



Straight Fittings - Quick
Connect Style
GV1-8X6



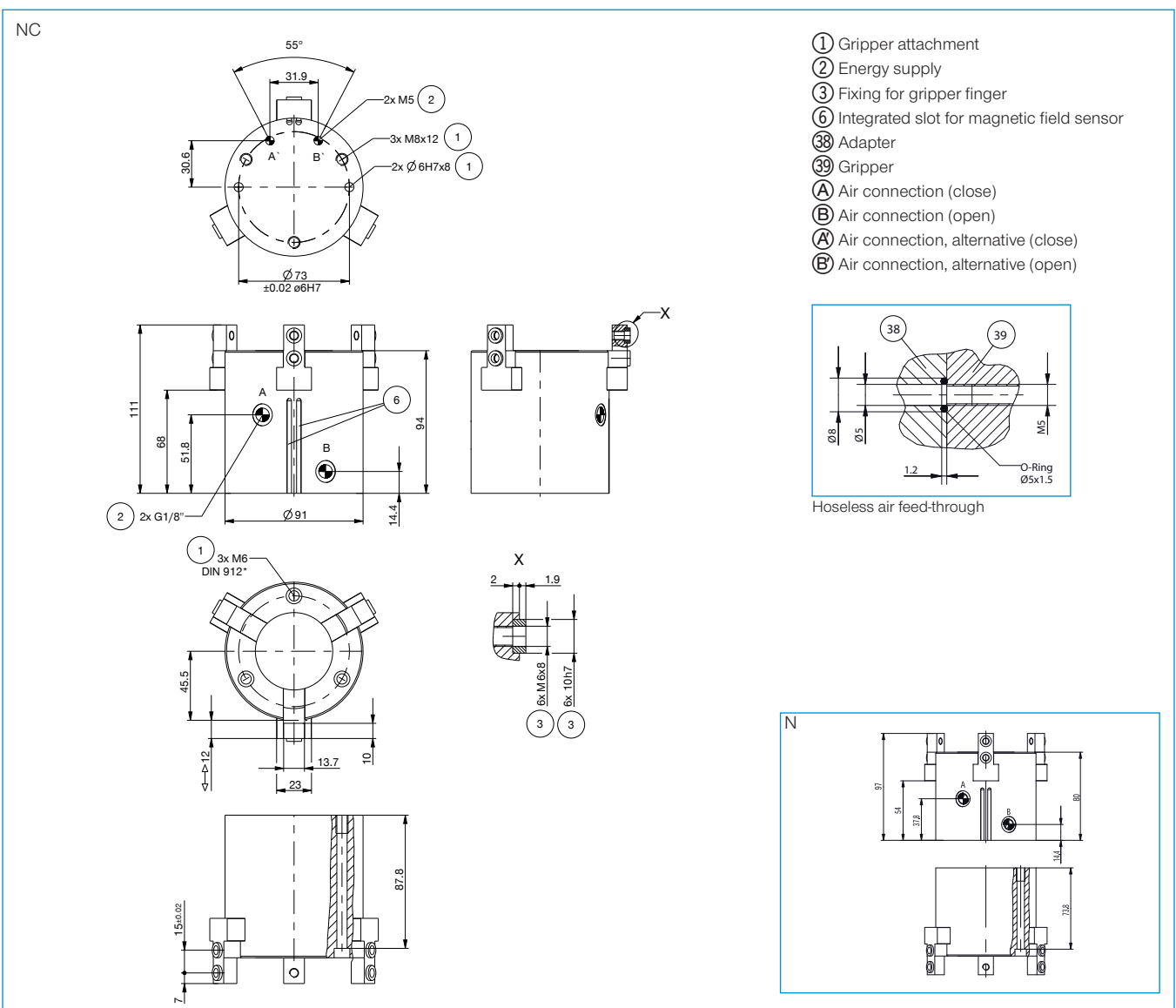
Quick Exhaust Valve
DEV06



Pressure Safety Valve
DSV1-8

Order no.	► Technical Data*	
	MGD812N	MGD812NC
Stroke per jaw [mm]	12	12
Gripping force in closing [N]	1130	1420
Gripping force in opening [N]	1200	
Gripping force secured by spring min. [N]		290
Closing time [s]	0.12	0.12
Opening time [s]	0.12	0.17
Repetition accuracy +/- [mm]	0.02	0.02
Operating pressure min. [bar]	3	4
Operating pressure max. [bar]	8	8
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm³]	69	97
Weight [kg]	1.67	2

*All data measured at 6 bar

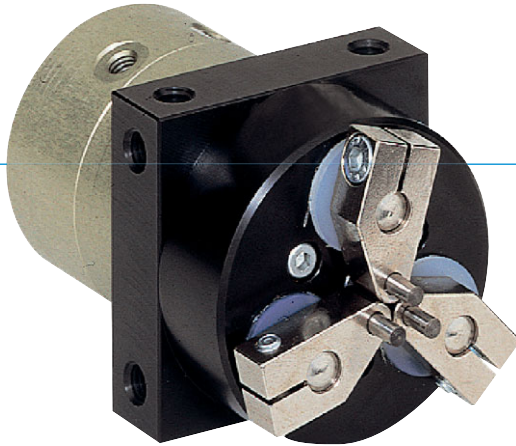


3-JAW CONCENTRIC GRIPPERS

SERIES GD

1

▶ PRODUCT ADVANTAGES



“The flexible”

▶ Largest stroke in small installation space

You can cover numerous application variants with just one gripper type

▶ Gripper jaws included in the delivery

Reduces your design effort, manufacturing costs and setup time

▶ Smooth stroke configuration

Using the optionally available stroke limit, you can customise the stroke to your application, even stroke sensing is possible

▶ THE BEST PRODUCT FOR YOUR APPLICATION



▶ Our products love the challenge!

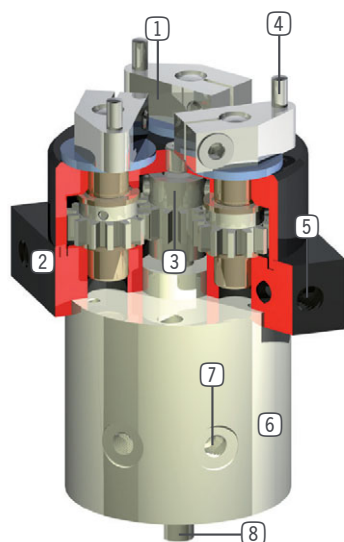
Extreme conditions, all over the world—our tried and tested components and systems give you limitless possibilities:

Find the best product for your specific use:

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► BENEFITS IN DETAIL



- ① **Gripping movement on rotation**
 - for various workpiece diameters
- ② **Robust, lightweight housing**
 - Hard-coated aluminum alloy
- ③ **Planetary transmission**
 - synchronized the movement of the gripper jaws
- ④ **Standard pins serve as gripper jaw**
- ⑤ **Mounting and positioning**
 - mounting possible from several sides for versatile positioning
- ⑥ **Drive**
 - double-acting pneumatic cylinder
- ⑦ **Energy supply**
 - possible radial and axial
- ⑧ **Shaft projection**
 - for accessory assembly e.g. sensors

► SERIES CHARACTERISTICS



Number of installation sizes	3
Stroke per jaw	120° - 180°
Gripping force	24 N - 530 N
Weight	0,08 kg - 2 kg
AP class	2



10 million maintenance-free cycles (max.)



Inductive sensor



IP40

3-JAW CONCENTRIC GRIPPERS

INSTALLATION SIZE GD1

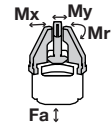
1

▶ PRODUCT SPECIFICATIONS



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	0.1
Mx [Nm]	0.1
My [Nm]	0.1
Fa [N]	10

▶ RECOMMENDED ACCESSORIES



Rotation limiter

DB1-B



Straight Fittings - Quick Connect Style

GVM5



Quick Exhaust Valve

DEV04



Pressure Safety Valve

DSV1-8

▶ RECOMMENDED ACCESSORY ROTATION LIMITER



Inductive proximity switch - Cable 5 m

NJ3-E2-02



Plug-in connector customizable Straight - Connector M8

S8-G-3



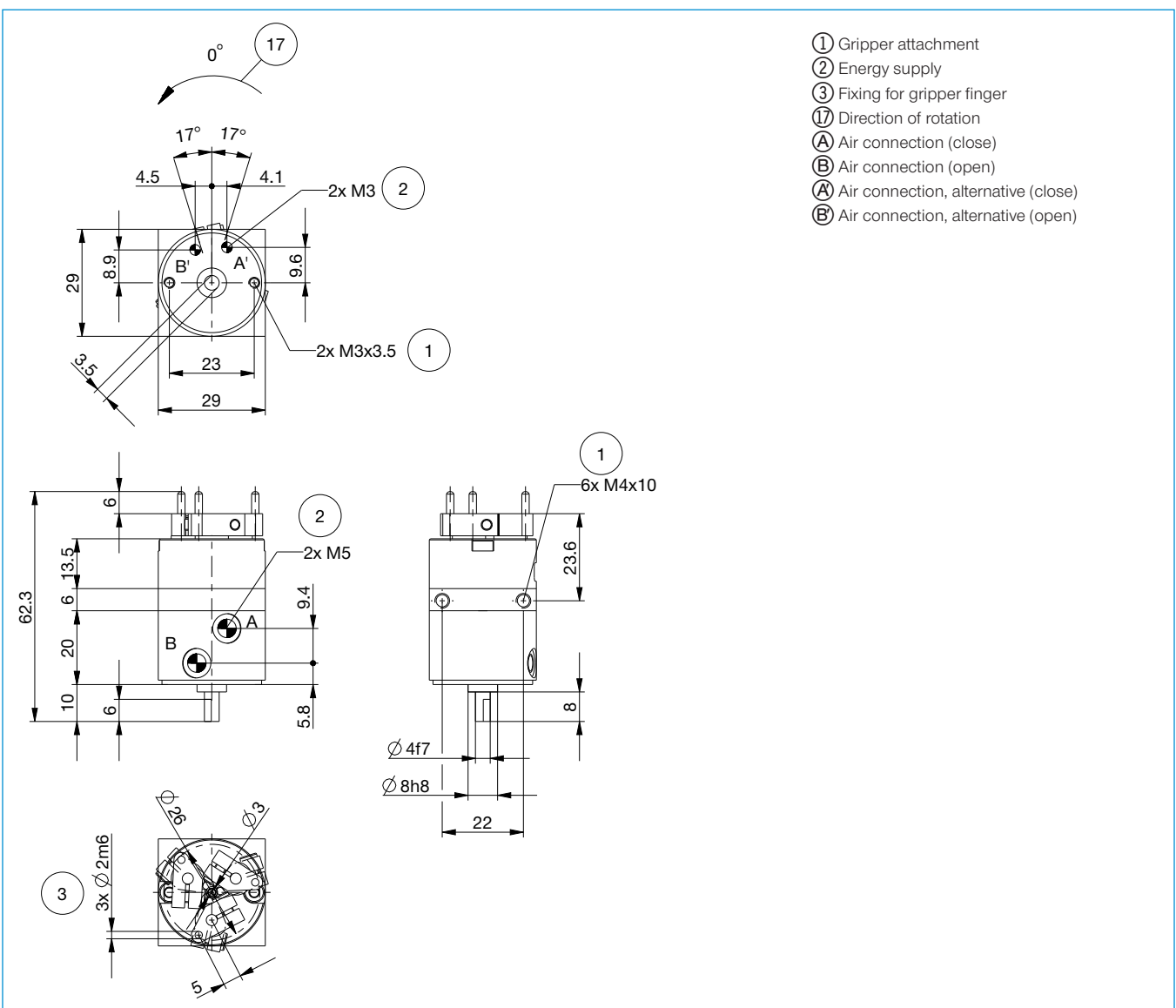
Plug-in connector customizable Straight - Connector M12

S12-G-3

► Technical Data*

Order no.	GD1-B
Stroke per jaw [°]	130
Grip diameter in closing min. [mm]	3
Grip diameter in closing max. [mm]	22
Grip diameter in opening min. [mm]	7
Grip diameter in opening max. [mm]	26
Gripping moment in closing [Nm]	0.12
Gripping moment in opening [Nm]	0.12
Closing time [s]	0.02
Opening time [s]	0.02
Repetition accuracy +/- [mm]	0.05
Operating pressure min. [bar]	3
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+60
Air volume per cycle [cm ³]	2.8
Weight [kg]	0.08

*All data measured at 6 bar



- ① Gripper attachment
- ② Energy supply
- ③ Fixing for gripper finger
- 17 Direction of rotation
- A Air connection (close)
- B Air connection (open)
- A' Air connection, alternative (close)
- B' Air connection, alternative (open)

3-JAW CONCENTRIC GRIPPERS

INSTALLATION SIZE GD10

1

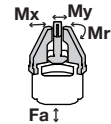
Installation size GD10 / 3-Jaw Concentric Grippers / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	1
Mx [Nm]	1
My [Nm]	0.5
Fa [N]	30

▶ RECOMMENDED ACCESSORIES



Rotation limiter

DB10



Straight Fittings - Quick Connect Style

GVM5



Quick Exhaust Valve

DEV04



Pressure Safety Valve

DSV1-8

▶ RECOMMENDED ACCESSORY ROTATION LIMITER



Stop Stroke Adjustment Screws

AI-M8X1-38



Stop Stroke Adjustment Screws

AI-M8X1-53



Inductive proximity switch - Cable 5 m

NJ12-E2



Inductive proximity switch - Connector M8

NJ12-E2S

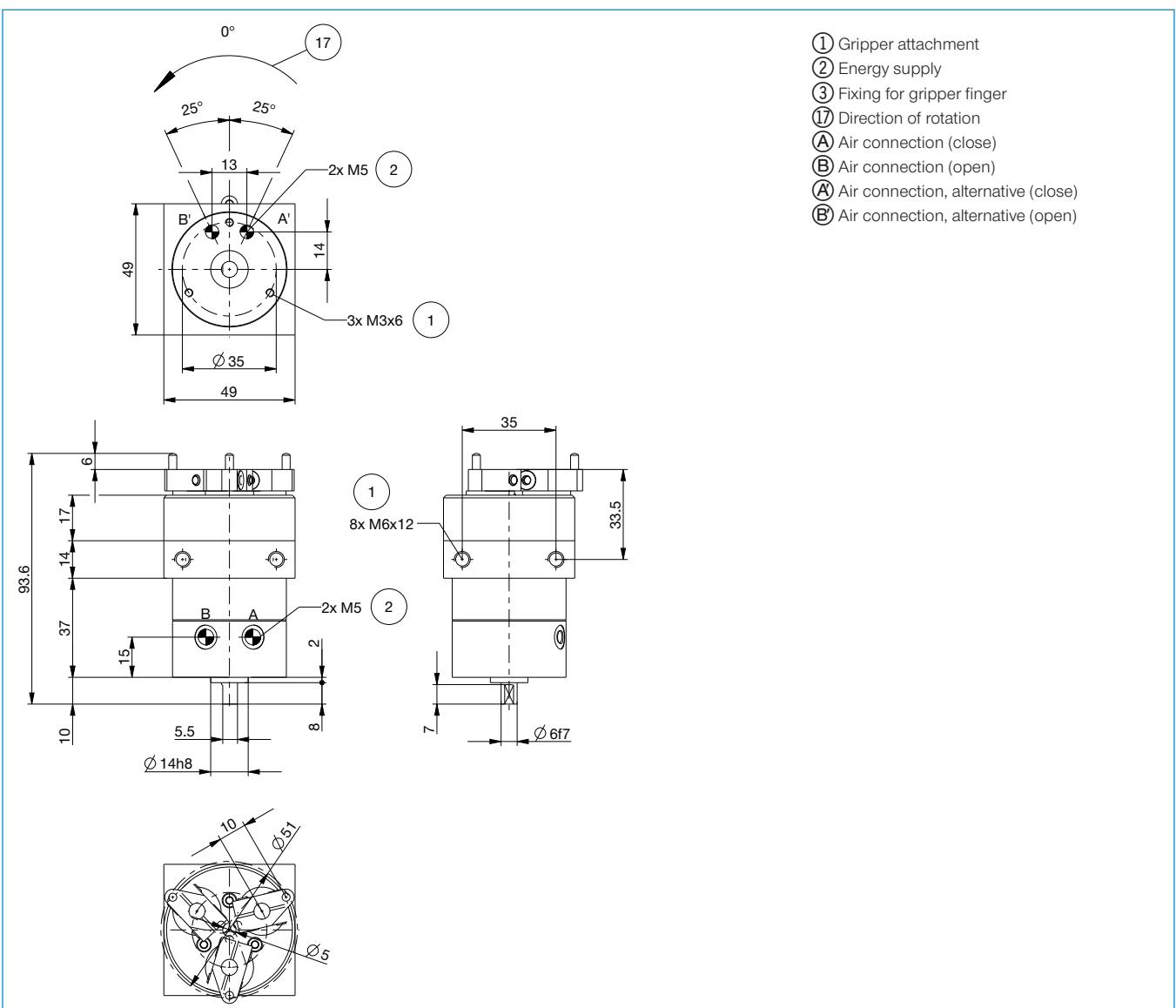


Plug-in connector Straight Cable 5m - Socket M8 (female)

KAG500

Order no.	GD10
Stroke per jaw [°]	180
Grip diameter in closing min. [mm]	5
Grip diameter in closing max. [mm]	45
Grip diameter in opening min. [mm]	11
Grip diameter in opening max. [mm]	51
Gripping moment in closing [Nm]	1
Gripping moment in opening [Nm]	1
Closing time [s]	0.07
Opening time [s]	0.07
Repetition accuracy +/- [mm]	0.05
Operating pressure min. [bar]	3
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+60
Air volume per cycle [cm ³]	20
Weight [kg]	0.35

*All data measured at 6 bar



3-JAW CONCENTRIC GRIPPERS

INSTALLATION SIZE GD50

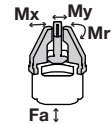
1

▶ PRODUCT SPECIFICATIONS



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	5
Mx [Nm]	5
My [Nm]	4
Fa [N]	100

▶ RECOMMENDED ACCESSORIES



Rotation limiter

DB50



Inquiry for interim position

GF50



Straight Fittings - Quick Connect Style

GV1-8X8



Quick Exhaust Valve

DEV08

▶ RECOMMENDED ACCESSORY DB50



Stop Stroke Adjustment Screws

AI-M8X1-38



Stop Stroke Adjustment Screws

AI-M8X1-53



Inductive proximity switch - Cable 5 m

NJ12-E2



Inductive proximity switch - Connector M8

NJ12-E2S



Plug-in connector Straight Cable 5m - Socket M8 (female) KAG500

▶ RECOMMENDED ACCESSORY GF50



Inductive proximity switch - Cable 5 m

NJ12-E2



Inductive proximity switch - Connector M8

NJ12-E2S

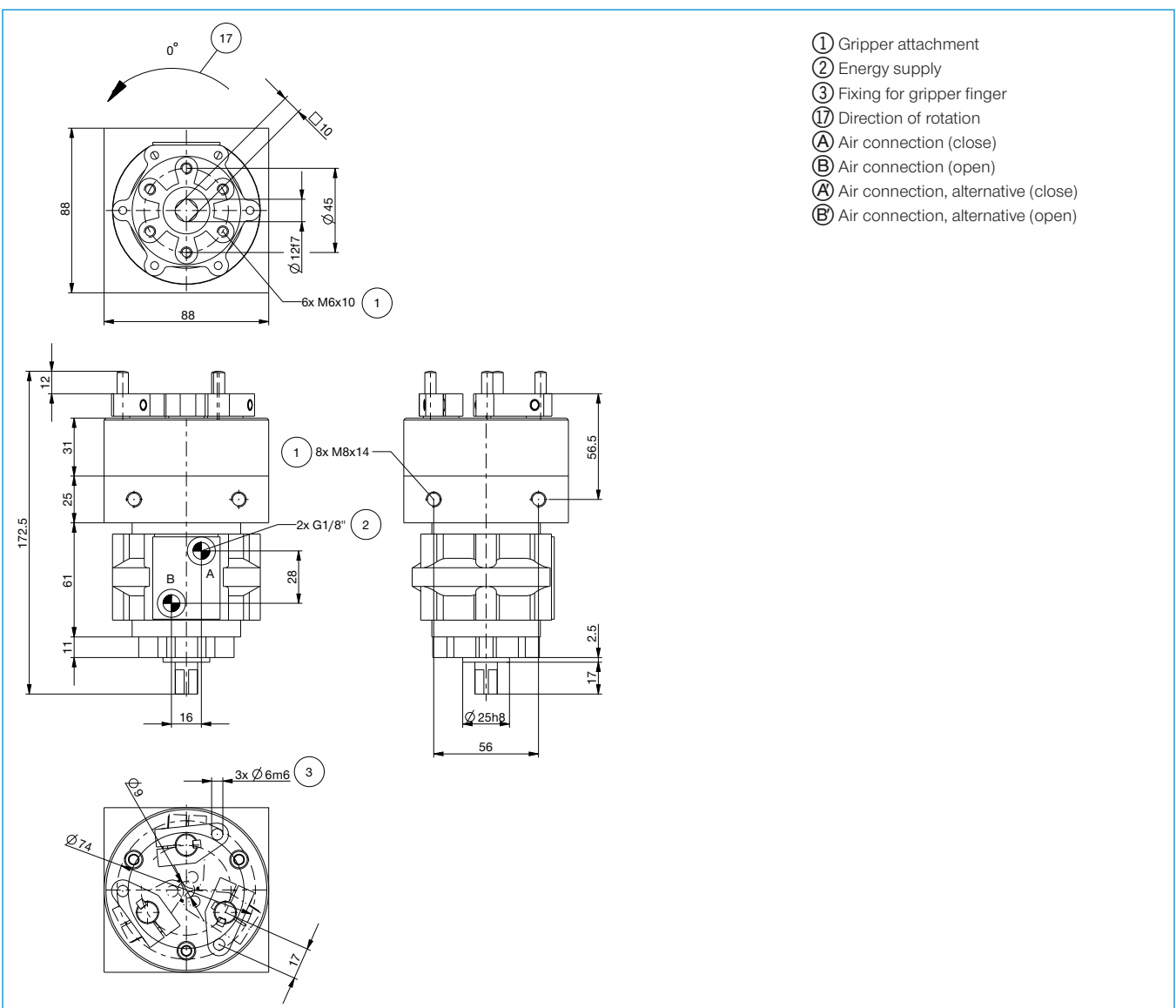


Plug-in connector Straight Cable 5m - Socket M8 (female) KAG500

► Technical Data*

Order no.	GD50
Stroke per jaw [°]	120
Grip diameter in closing min. [mm]	9
Grip diameter in closing max. [mm]	62
Grip diameter in opening min. [mm]	21
Grip diameter in opening max. [mm]	74
Gripping moment in closing [Nm]	9
Gripping moment in opening [Nm]	9
Closing time [s]	0.09
Opening time [s]	0.09
Repetition accuracy +/- [mm]	0.05
Operating pressure min. [bar]	3
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+60
Air volume per cycle [cm ³]	102
Weight [kg]	2

*All data measured at 6 bar



- ① Gripper attachment
- ② Energy supply
- ③ Fixing for gripper finger
- 17 Direction of rotation
- A Air connection (close)
- B Air connection (open)
- A Air connection, alternative (close)
- B Air connection, alternative (open)

3-JAW CONCENTRIC GRIPPERS

SERIES GD300

1

Series GD300 / 3-Jaw Concentric Grippers / pneumatic / Grippers

▶ PRODUCT ADVANTAGES



“The economical”

▶ Concentration on the essentials

The most economic type of gripping: This is how you reduce your production costs

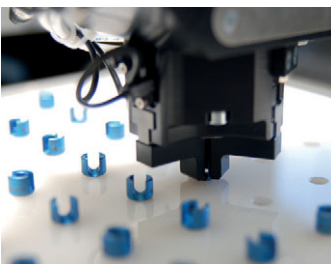
▶ Proven T slot guide

This established and proven guiding technology stands for the highest process reliability like no other

▶ Compact structure

Reduces the interference contours for your application

▶ THE BEST PRODUCT FOR YOUR APPLICATION



▶ Our products love the challenge!

Extreme conditions, all over the world—our tried and tested components and systems give you limitless possibilities:

Find the best product for your specific use:

www.zimmer-group.com

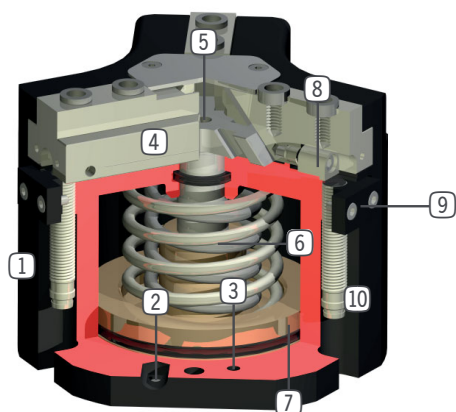
HOW TO ORDER CORRECTLY

▶ The product order numbers are arranged according to this diagram:

Order no.	GD304	<input type="checkbox"/>	<input type="checkbox"/>	-C
Long stroke		N		
High force		S		
For external gripping, self-locking, spring closing			C	
For internal gripping, self-locking, spring opening			O	



► BENEFITS IN DETAIL



- ① **Robust, lightweight housing**
- Hard-coated aluminum alloy
- ② **Energy supply**
- possible from several sides
- ③ **Mounting and positioning**
- mounting possible from several sides for versatile positioning
- ④ **Gripper jaw**
- individual gripper finger mounting
- ⑤ **Wedge hook mechanism**
- synchronized the movement of the gripper jaws
- high force transfer
- ⑥ **Integrated gripping force safety device**
- spring integrated into cylinder as energy storage
- ⑦ **Position sensing**
- permanent magnet for direct monitoring of piston movement
- ⑧ **Integrated, adjustable switch cam**
- for direct position sensing of the gripper jaw
- ⑨ **Mounting block**
- mounting for inductive proximity switch (10)

► SERIES CHARACTERISTICS



Number of installation sizes	9
Stroke per jaw	3 mm - 30 mm
Gripping force	200 N - 34700 N
Weight	0,13 kg - 24 kg
AP class	3



10 million maintenance-free cycles (max.)



High-strength S



Magnetic field sensor



Spring closing C



Inductive sensor



Purged air



Spring opening O



IP40

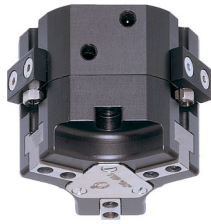
3-JAW CONCENTRIC GRIPPERS

INSTALLATION SIZE GD303

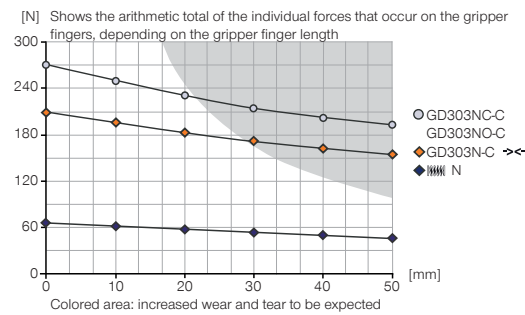
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Installation size GD303 / 3-Jaw Concentric Grippers / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS

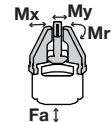


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	6
Mx [Nm]	9
My [Nm]	12
Fa [N]	500

▶ INCLUDED IN DELIVERY



Mounting block

KB3-07



Centering Disc

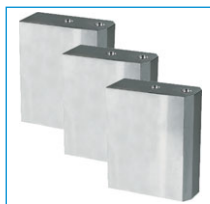
DST40400

▶ RECOMMENDED ACCESSORIES



Universal Jaw Aluminium

UB303



Universal Jaw Steel

UB303ST



Inductive Proximity Switch
Cable 0,3 m - Connector
M8
NJ3-E2SK



Magnetic field sensor
Angled Cable 0,3 m -
Connector M8
MFS103SKHC



Magnetic field sensor
Straight Cable 0,3 m -
Connector M8
MFS204SKHC



Plug-in connector Straight Ca-
ble 5m - Socket M8 (female)

KAG500



Plug-in connector Angled Ca-
ble 5m - Socket M8 (female)

KAW500



Straight Fittings - Quick
Connect Style

GVM5



Angled Fittings - Quick
Connect Style

WVM5



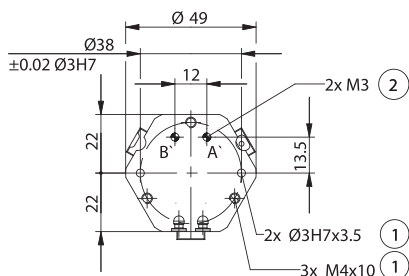
Pressure Safety Valve

DSV1-8

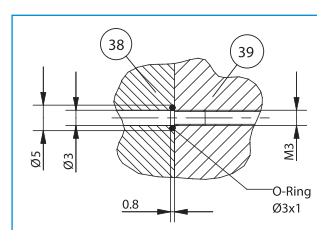
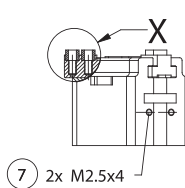
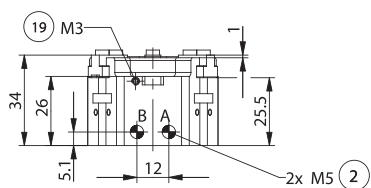
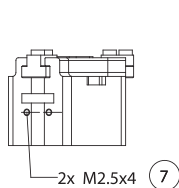
Order no.	Technical Data*		
	GD303N-C	GD303NC-C	GD303NO-C
Stroke per jaw [mm]	3	3	3
Gripping force in closing [N]	200	270	
Gripping force in opening [N]	230		300
Gripping force secured by spring min. [N]		70	70
Closing time [s]	0.02	0.02	0.03
Opening time [s]	0.02	0.03	0.02
Repetition accuracy +/- [mm]	0.05	0.05	0.05
Operating pressure min. [bar]	2	4	4
Operating pressure max. [bar]	8	8	8
Operating temperature min. [°C]	5	5	5
Operating temperature max. [°C]	+80	+80	+80
Air volume per cycle [cm³]	3.5	6.7	6.7
Weight [kg]	0.13	0.16	0.16

*All data measured at 6 bar

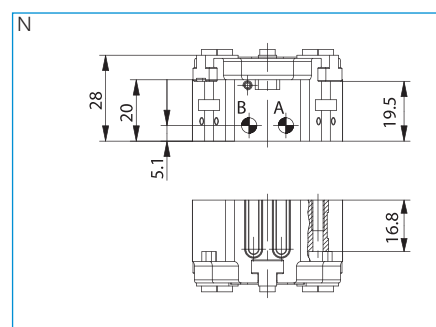
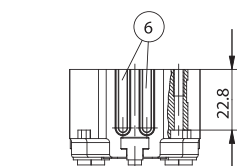
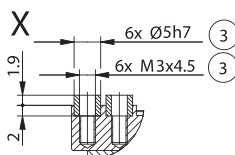
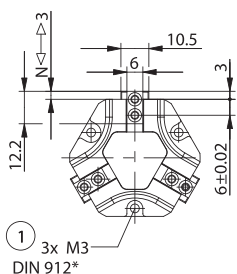
NC / NO



- ① Gripper attachment
- ② Energy supply
- ③ Fixing for gripper finger
- ⑥ Integrated slot for magnetic field sensor
- ⑦ Fixing for mounting block
- ⑰ Air purge connection option
- ⑳ Adapter
- ㉑ Gripper
- Ⓐ Air connection (close)
- Ⓑ Air connection (open)
- Ⓐ Air connection, alternative (close)
- Ⓑ Air connection, alternative (open)



Hoseless air feed-through



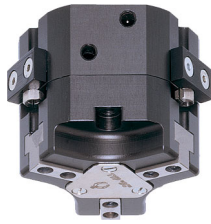
3-JAW CONCENTRIC GRIPPERS

INSTALLATION SIZE GD304

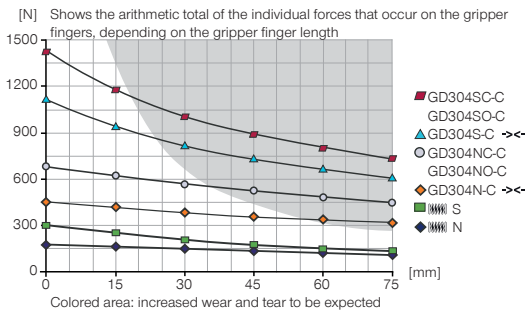
1

Installation size GD304 / 3-Jaw Concentric Grippers / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS

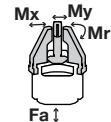


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	8
Mx [Nm]	15
My [Nm]	15
Fa [N]	700

▶ INCLUDED IN DELIVERY



Mounting block

KB3-08



Centering Disc

DST40400

▶ RECOMMENDED ACCESSORIES



Universal Jaw Aluminium

UB304



Universal Jaw Steel

UB304ST



Pressure piece N / S

ADS304N-S



Pressure piece NC / NO / SC / SO

ADS304C-O



Inductive Proximity Switch Cable 0,3 m - Connector M8
NJ3-E2SK



Magnetic field sensor Angled Cable 0,3 m - Connector M8
MFS103SKHC



Magnetic field sensor Straight Cable 0,3 m - Connector M8
MFS204SKHC



Straight Fittings - Quick Connect Style
GVM5



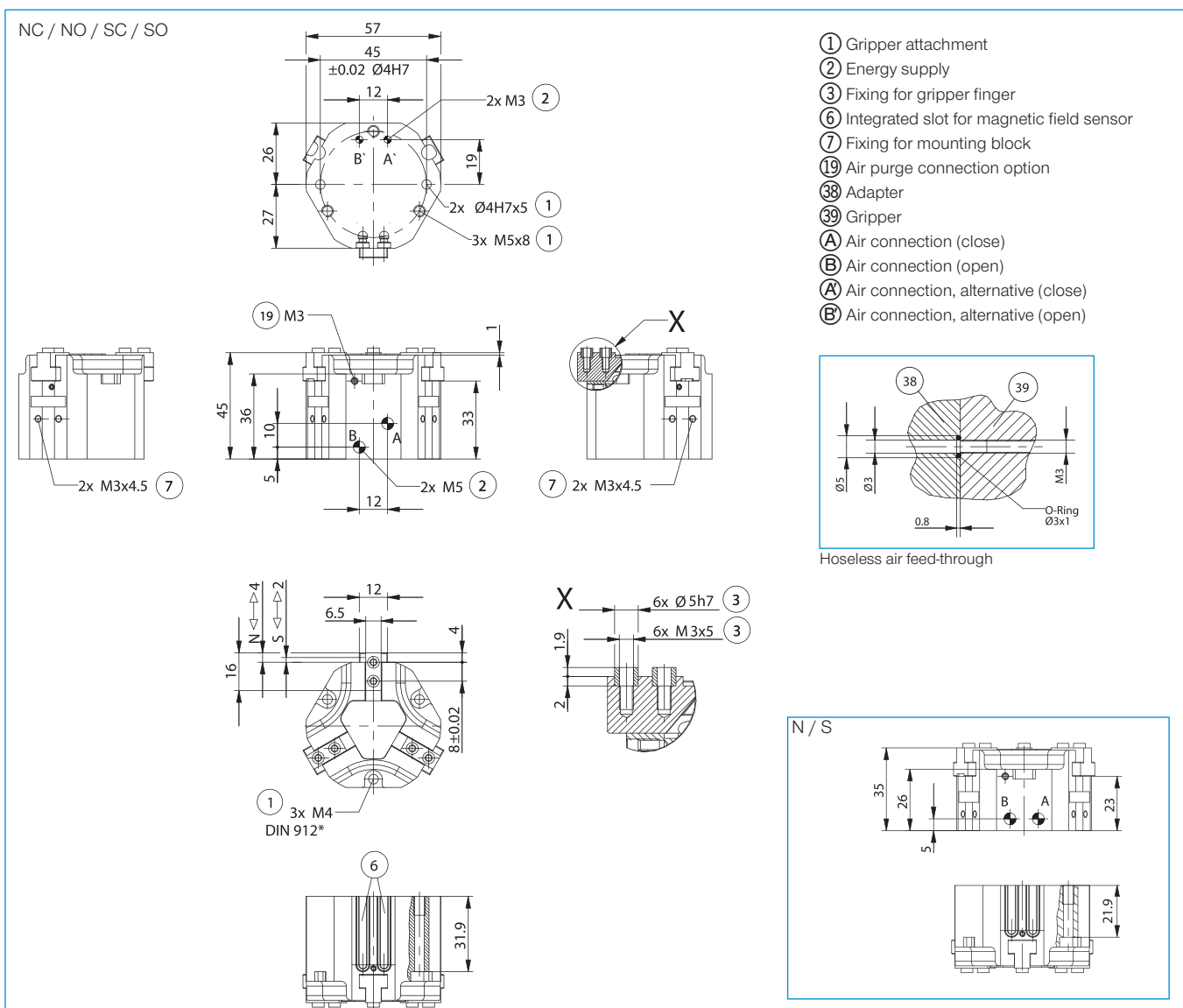
Angled Fittings - Quick Connect Style
WVM5



Pressure Safety Valve
DSV1-8

Order no.	▶ Technical Data*					
	GD304N-C	GD304NC-C	GD304NO-C	GD304S-C	GD304SC-C	GD304SO-C
Stroke per jaw [mm]	4	4	4	2	2	2
Gripping force in closing [N]	450	650		1000	1400	
Gripping force in opening [N]	500		700	1100		1500
Gripping force secured by spring min. [N]		200	200		400	400
Closing time [s]	0.025	0.02	0.03	0.025	0.02	0.03
Opening time [s]	0.025	0.03	0.02	0.025	0.03	0.02
Repetition accuracy +/- [mm]	0.05	0.05	0.05	0.05	0.05	0.05
Operating pressure min. [bar]	2	4	4	2	4	4
Operating pressure max. [bar]	8	8	8	8	8	8
Operating temperature min. [°C]	5	5	5	5	5	5
Operating temperature max. [°C]	+80	+80	+80	+80	+80	+80
Air volume per cycle [cm³]	9.2	19.2	19.2	9.2	19.2	19.2
Weight [kg]	0.22	0.28	0.28	0.22	0.28	0.28

*All data measured at 6 bar

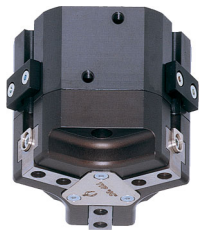


3-JAW CONCENTRIC GRIPPERS

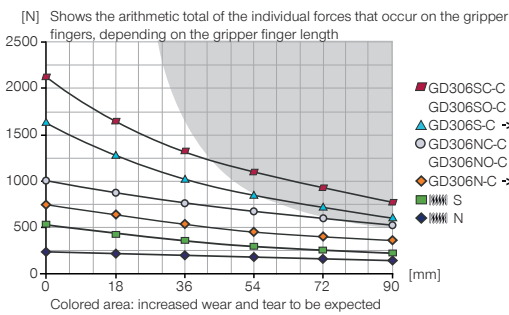
INSTALLATION SIZE GD306

1

▶ PRODUCT SPECIFICATIONS

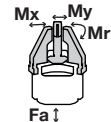


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	35
Mx [Nm]	50
My [Nm]	45
Fa [N]	1200

▶ INCLUDED IN DELIVERY



Mounting block

KB3-39



Centering Disc

DST40600

▶ RECOMMENDED ACCESSORIES



Universal Jaw Aluminium

UB306



Universal Jaw Steel

UB306ST



Pressure piece N / S

ADS306N-S



Pressure piece NC / NO / SC / SO

ADS306C-O



Inductive proximity switch - Connector M8

NJ8-E2S



Magnetic field sensor Angled Cable 0,3 m - Connector M8

MFS103SKHC



Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



Straight Fittings - Quick Connect Style

GVM5



Angled Fittings - Quick Connect Style

WVM5

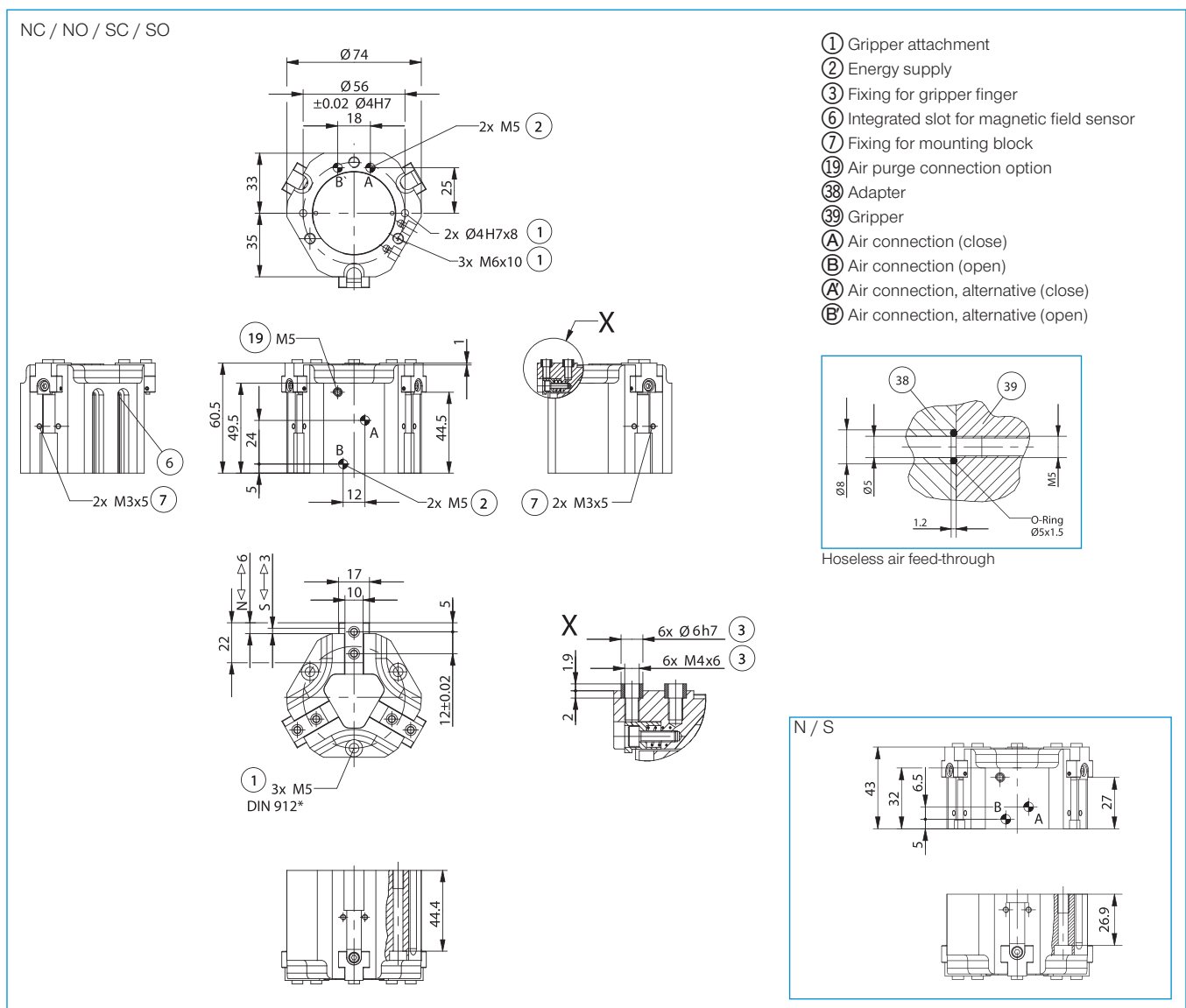


Pressure Safety Valve

DSV1-8

Order no.	▶ Technical Data*					
	GD306N-C	GD306NC-C	GD306NO-C	GD306S-C	GD306SC-C	GD306SO-C
Stroke per jaw [mm]	6	6	6	3	3	3
Gripping force in closing [N]	750	1000		1600	2150	
Gripping force in opening [N]	800		1050	1750		2300
Gripping force secured by spring min. [N]		250	250		550	550
Closing time [s]	0.03	0.03	0.05	0.03	0.03	0.05
Opening time [s]	0.03	0.05	0.03	0.03	0.05	0.03
Repetition accuracy +/- [mm]	0.05	0.05	0.05	0.05	0.05	0.05
Operating pressure min. [bar]	2	4	4	2	4	4
Operating pressure max. [bar]	8	8	8	8	8	8
Operating temperature min. [°C]	5	5	5	5	5	5
Operating temperature max. [°C]	+80	+80	+80	+80	+80	+80
Air volume per cycle [cm³]	21.5	48	48	21.5	48	48
Weight [kg]	0.5	0.65	0.65	0.5	0.65	0.65

*All data measured at 6 bar



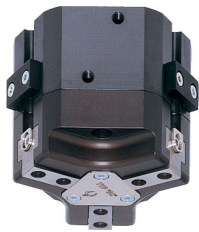
3-JAW CONCENTRIC GRIPPERS

INSTALLATION SIZE GD308

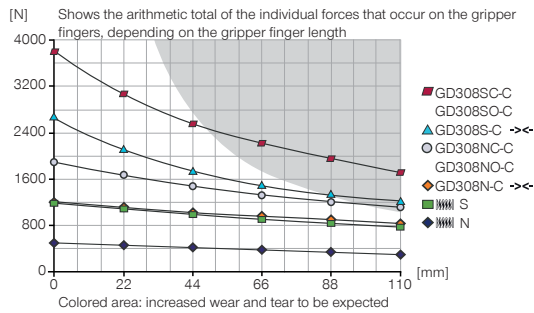
1

Installation size GD308 / 3-Jaw Concentric Grippers / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS

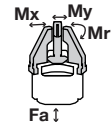


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	50
Mx [Nm]	80
My [Nm]	60
Fa [N]	1800

▶ INCLUDED IN DELIVERY



Mounting block

KB8-30



Centering Disc

DST40800

▶ RECOMMENDED ACCESSORIES



Universal Jaw Aluminium

UB308



Universal Jaw Steel

UB308ST



Pressure piece N / S

ADS308N-S



Pressure piece NC / NO / SC / SO

ADS308C-O



Inductive proximity switch - Connector M8

NJ8-E2S



Magnetic field sensor Angled Cable 0,3 m - Connector M8

MFS103SKHC



Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



Straight Fittings - Quick Connect Style

GV1-8X6



Angled Fittings - Quick Connect Style

WV1-8X6

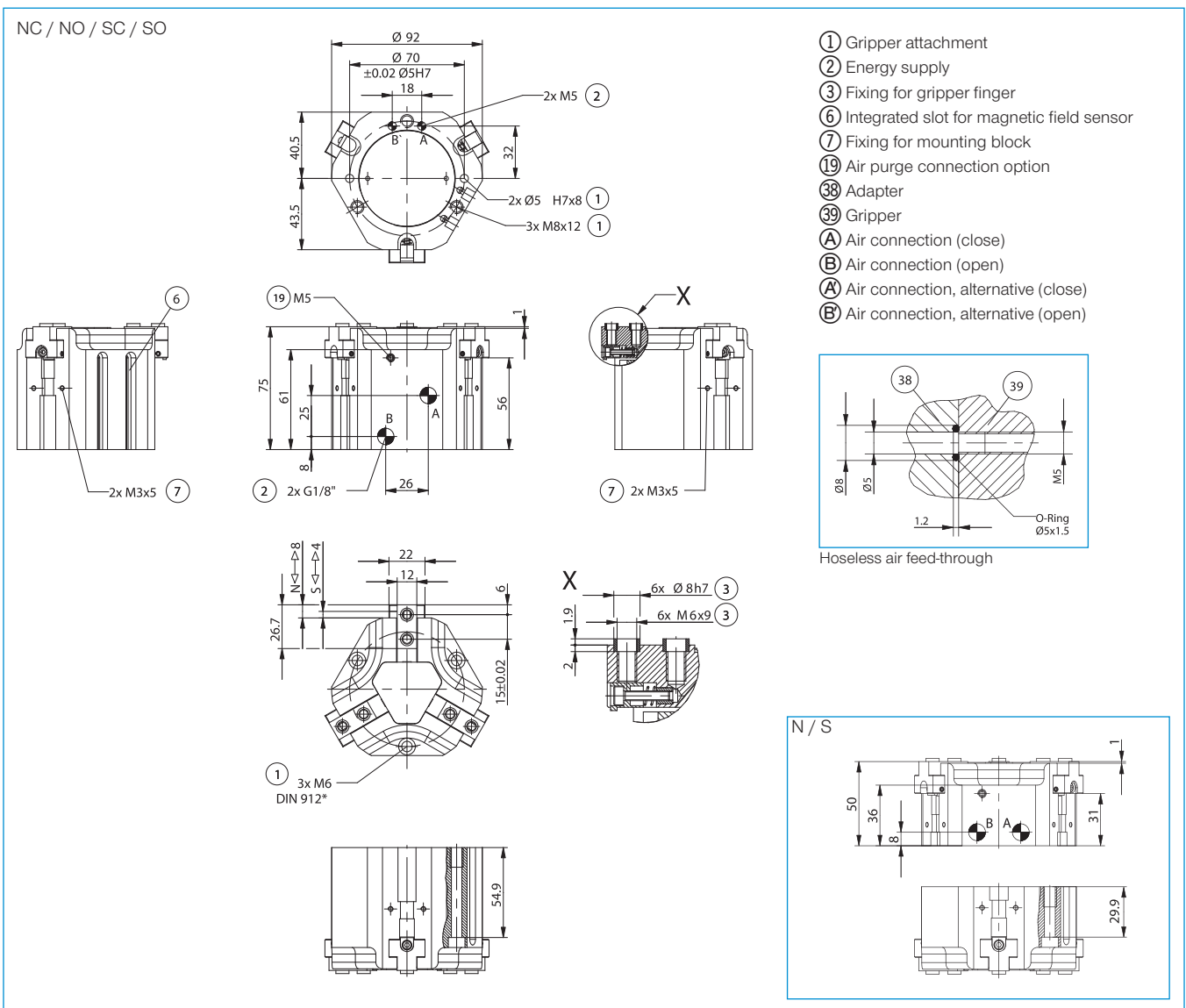


Pressure Safety Valve

DSV1-8

Order no.	► Technical Data*					
	GD308N-C	GD308NC-C	GD308NO-C	GD308S-C	GD308SC-C	GD308SO-C
Stroke per jaw [mm]	8	8	8	4	4	4
Gripping force in closing [N]	1200	1800		2600	3800	
Gripping force in opening [N]	1300		1900	2800		4000
Gripping force secured by spring min. [N]		600	600		1200	1200
Closing time [s]	0.05	0.03	0.06	0.05	0.03	0.06
Opening time [s]	0.05	0.06	0.03	0.05	0.06	0.03
Repetition accuracy +/- [mm]	0.05	0.05	0.05	0.05	0.05	0.05
Operating pressure min. [bar]	2	4	4	2	4	4
Operating pressure max. [bar]	8	8	8	8	8	8
Operating temperature min. [°C]	5	5	5	5	5	5
Operating temperature max. [°C]	+80	+80	+80	+80	+80	+80
Air volume per cycle [cm ³]	47	108	108	47	108	108
Weight [kg]	0.85	1.2	1.2	0.85	1.2	1.2

*All data measured at 6 bar



3-JAW CONCENTRIC GRIPPERS

INSTALLATION SIZE GD310

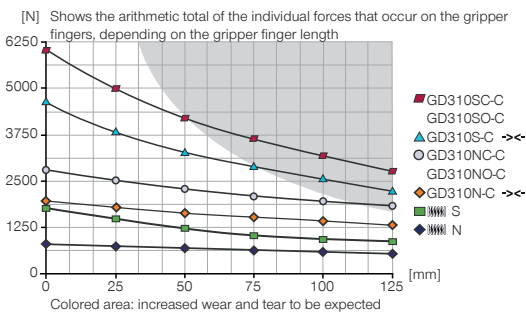
1

Installation size GD310 / 3-Jaw Concentric Grippers / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS

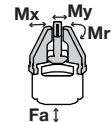


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	75
Mx [Nm]	100
My [Nm]	90
Fa [N]	2500

▶ INCLUDED IN DELIVERY



Centering Disc

DST41000

▶ RECOMMENDED ACCESSORIES



Universal Jaw Aluminium

UB310



Universal Jaw Steel

UB310ST



Pressure piece N / S

ADS310N-S



Pressure piece NC / NO / SC / SO

ADS310C-O



Alternate proximity bracket

KHA310-B-8



Inductive proximity switch - Connector M8

NJ8-E2S



Magnetic field sensor Angled Cable 0,3 m - Connector M8

MFS103SKHC



Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



Straight Fittings - Quick Connect Style

GV1-8X6

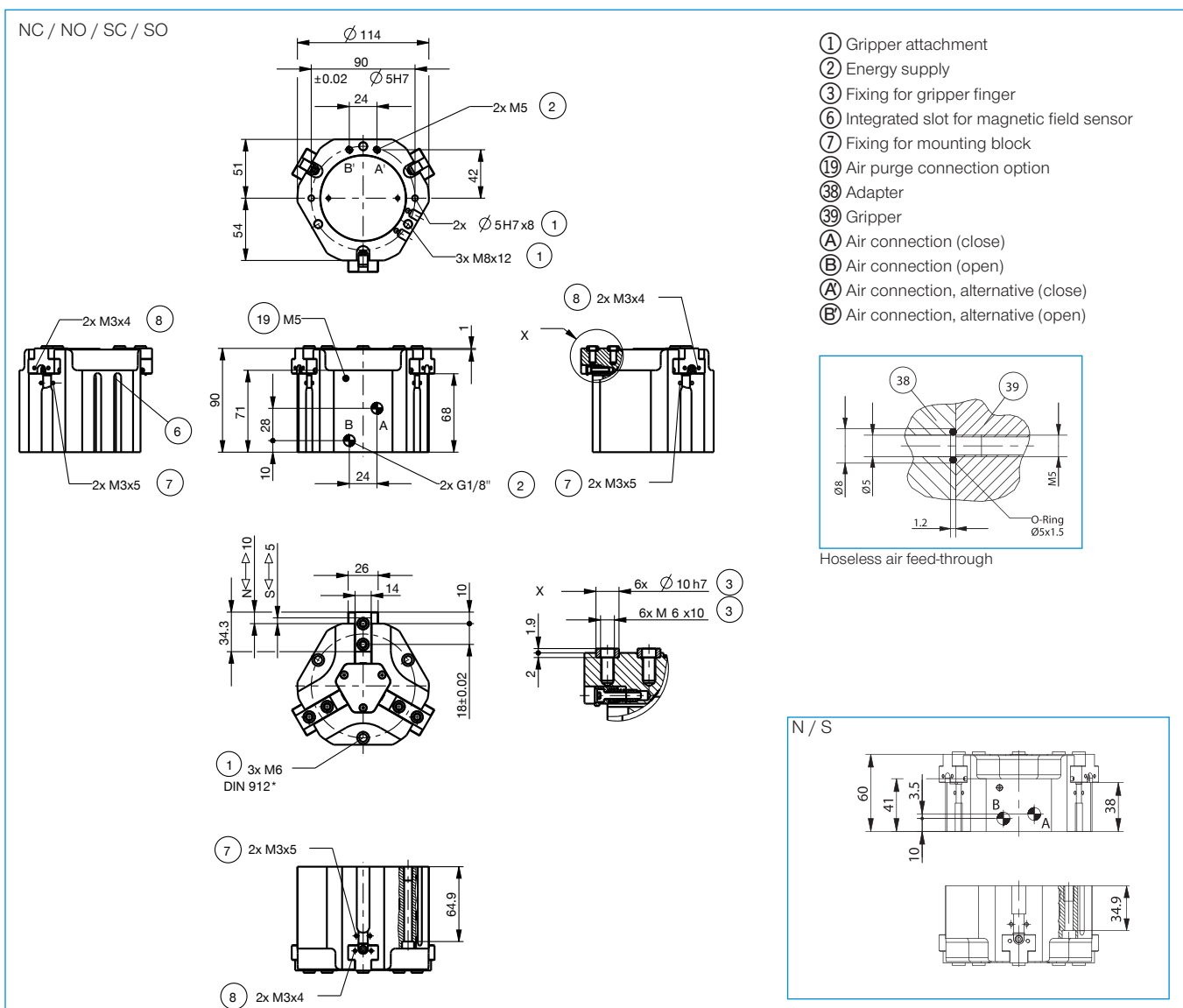


Pressure Safety Valve

DSV1-8

Order no.	Technical Data*					
	GD310N-C	GD310NC-C	GD310NO-C	GD310S-C	GD310SC-C	GD310SO-C
Stroke per jaw [mm]	10	10	10	5	5	5
Gripping force in closing [N]	2000	2800		4400	6200	
Gripping force in opening [N]	2100		2900	4600		6400
Gripping force secured by spring min. [N]		800	800		1800	1800
Closing time [s]	0.1	0.07	0.2	0.1	0.07	0.2
Opening time [s]	0.1	0.2	0.07	0.1	0.2	0.07
Repetition accuracy +/- [mm]	0.05	0.05	0.05	0.05	0.05	0.05
Operating pressure min. [bar]	2	4	4	2	4	4
Operating pressure max. [bar]	8	8	8	8	8	8
Operating temperature min. [°C]	5	5	5	5	5	5
Operating temperature max. [°C]	+80	+80	+80	+80	+80	+80
Air volume per cycle [cm³]	100	220	220	100	220	220
Weight [kg]	1.6	2.2	2.2	1.6	2.2	2.2

*All data measured at 6 bar



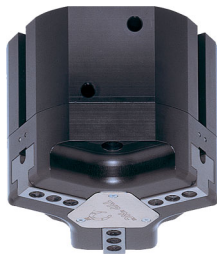
3-JAW CONCENTRIC GRIPPERS

INSTALLATION SIZE GD312

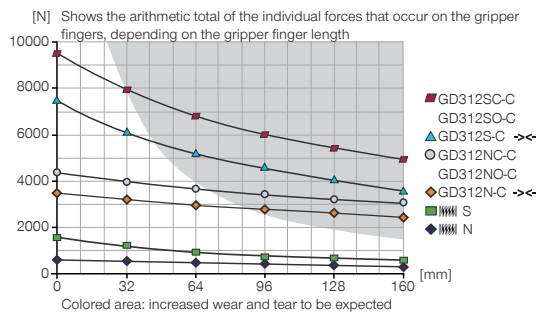
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Installation size GD312 / 3-Jaw Concentric Grippers / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS

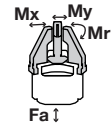


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	100
Mx [Nm]	120
My [Nm]	120
Fa [N]	3200

▶ INCLUDED IN DELIVERY



Mounting block

KB8-32



Centering Disc

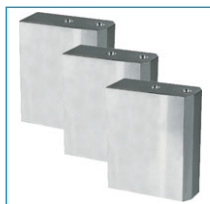
DST41000

▶ RECOMMENDED ACCESSORIES



Universal Jaw Aluminium

UB312



Universal Jaw Steel

UB312ST



Pressure piece N / S

ADS312N-S



Pressure piece NC / NO / SC / SO

ADS312C-O



Alternate proximity bracket

KHA312-B-8



Inductive proximity switch - Connector M8

NJ8-E2S



Magnetic field sensor Angled Cable 0,3 m - Connector M8

MFS103SKHC



Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



Straight Fittings - Quick Connect Style

GV1-8X6

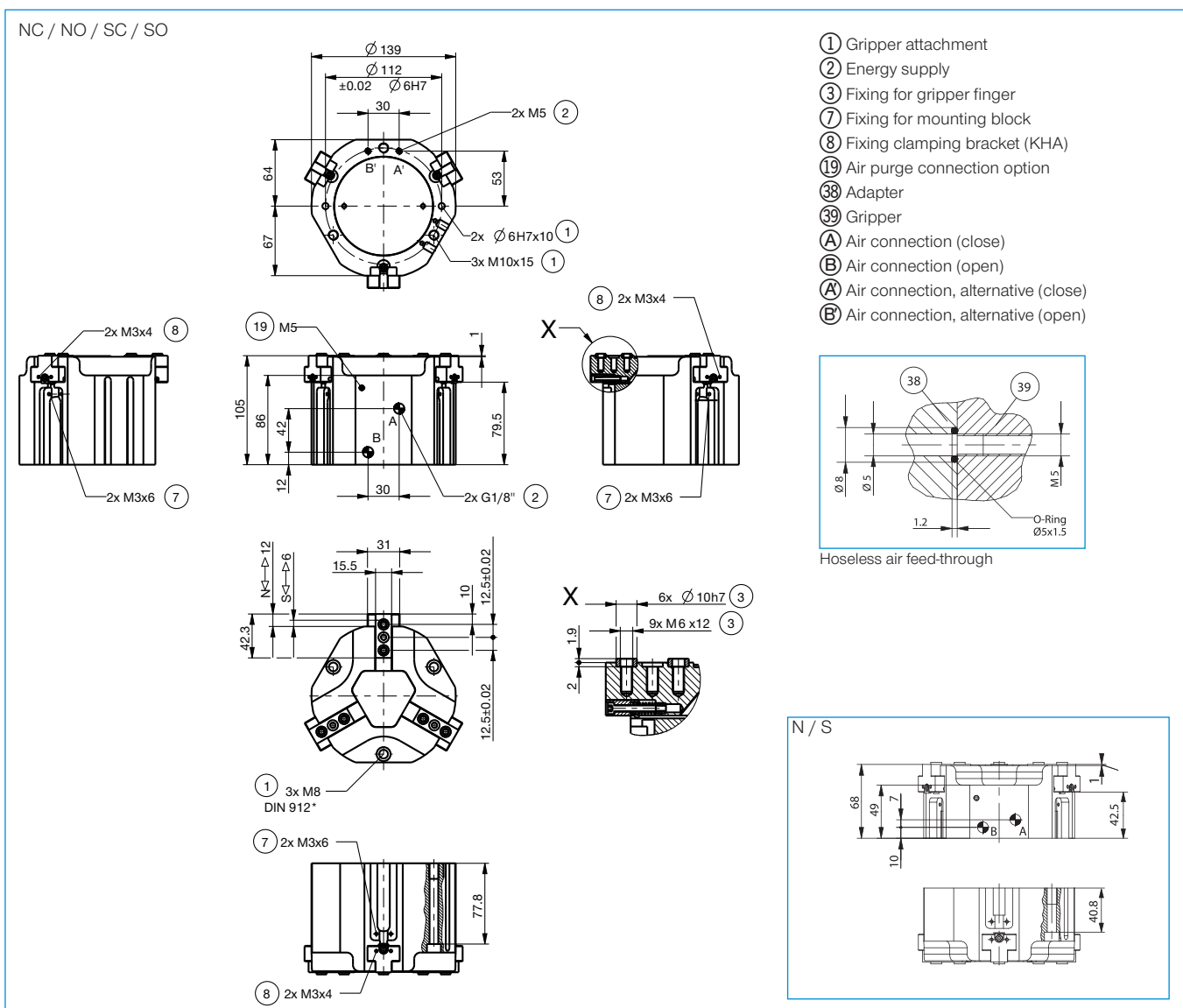


Pressure Safety Valve

DSV1-8

Order no.	Technical Data*					
	GD312N-C	GD312NC-C	GD312NO-C	GD312S-C	GD312SC-C	GD312SO-C
Stroke per jaw [mm]	12	12	12	6	6	6
Gripping force in closing [N]	3500	4150		7600	9000	
Gripping force in opening [N]	3600		4250	7850		9250
Gripping force secured by spring min. [N]		650	650		1400	1400
Closing time [s]	0.2	0.15	0.35	0.2	0.15	0.35
Opening time [s]	0.2	0.35	0.15	0.2	0.35	0.15
Repetition accuracy +/- [mm]	0.05	0.05	0.05	0.05	0.05	0.05
Operating pressure min. [bar]	2	4	4	2	4	4
Operating pressure max. [bar]	8	8	8	8	8	8
Operating temperature min. [°C]	5	5	5	5	5	5
Operating temperature max. [°C]	+80	+80	+80	+80	+80	+80
Air volume per cycle [cm³]	190	420	420	190	420	420
Weight [kg]	2.7	3.8	3.8	2.7	3.8	3.8

*All data measured at 6 bar



3-JAW CONCENTRIC GRIPPERS

INSTALLATION SIZE GD316

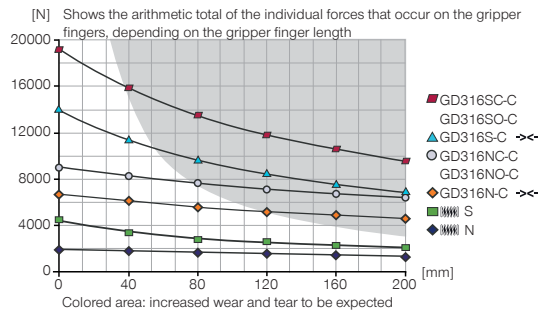
1

Installation size GD316 / 3-Jaw Concentric Grippers / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS

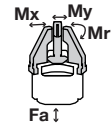


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	140
Mx [Nm]	160
My [Nm]	180
Fa [N]	5000

▶ INCLUDED IN DELIVERY



Mounting block

KB8-33



Centering Disc

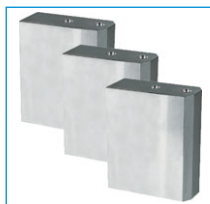
DST41600

▶ RECOMMENDED ACCESSORIES



Universal Jaw Aluminium

UB316



Universal Jaw Steel

UB316ST



Pressure piece N / S

ADS316N-S



Pressure piece NC / NO / SC / SO

ADS316C-O



Alternate proximity bracket

KHA316-B-8



Inductive proximity switch - Connector M8

NJ8-E2S



Magnetic field sensor Angled Cable 0,3 m - Connector M8

MFS103SKHC



Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



Straight Fittings - Quick Connect Style

GV1-8X6



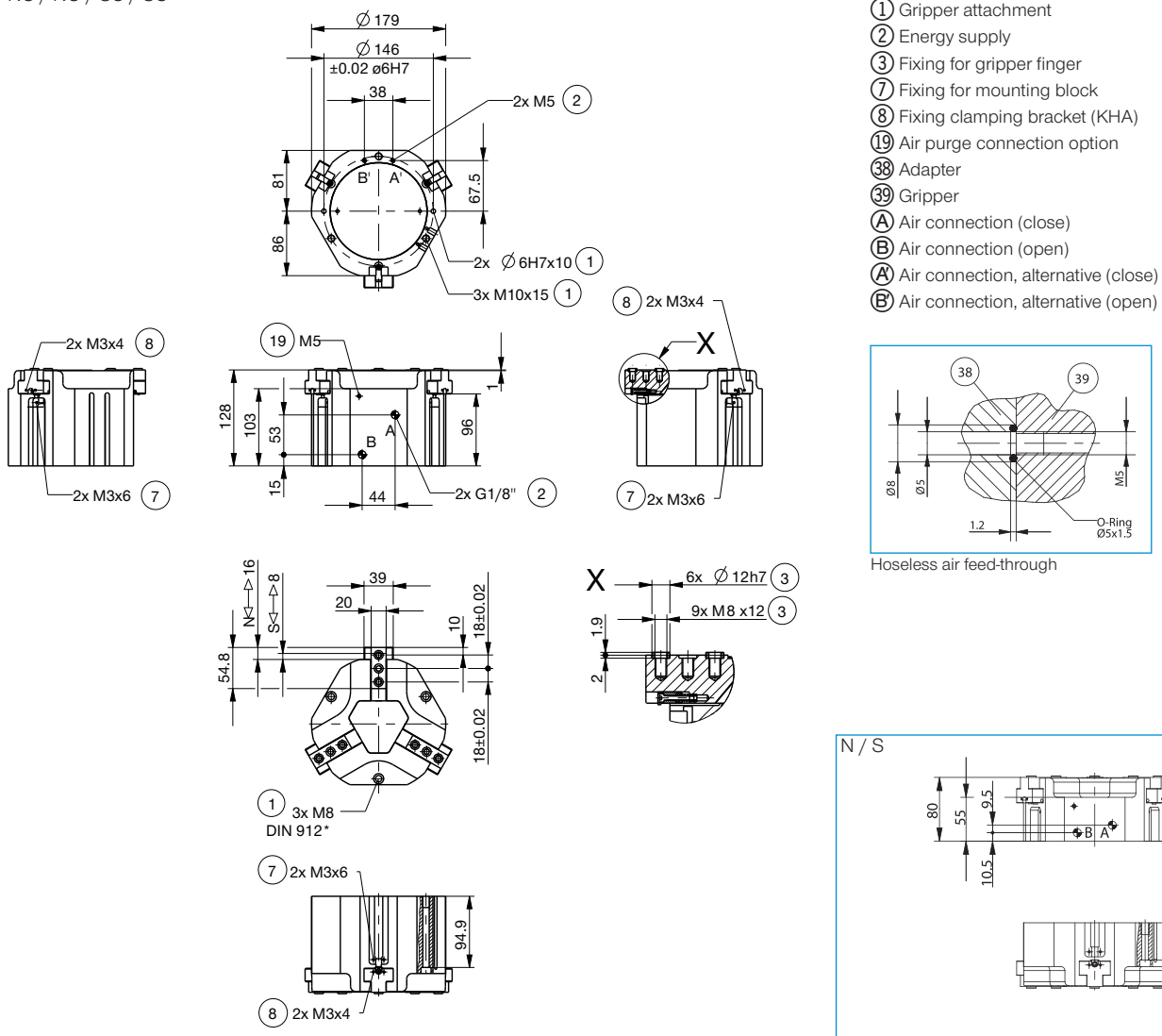
Pressure Safety Valve

DSV1-8

Order no.	▶ Technical Data*					
	GD316N-C	GD316NC-C	GD316NO-C	GD316S-C	GD316SC-C	GD316SO-C
Stroke per jaw [mm]	16	16	16	8	8	8
Gripping force in closing [N]	6500	8600		14000	18700	
Gripping force in opening [N]	6600		8700	14400		19100
Gripping force secured by spring min. [N]		2100	2100		4700	4700
Closing time [s]	0.25	0.2	0.4	0.25	0.2	0.4
Opening time [s]	0.25	0.4	0.2	0.25	0.4	0.2
Repetition accuracy +/- [mm]	0.05	0.05	0.05	0.05	0.05	0.05
Operating pressure min. [bar]	2	4	4	2	4	4
Operating pressure max. [bar]	8	8	8	8	8	8
Operating temperature min. [°C]	5	5	5	5	5	5
Operating temperature max. [°C]	+80	+80	+80	+80	+80	+80
Air volume per cycle [cm³]	470	960	960	470	960	960
Weight [kg]	5.1	8	8	5.1	8	8

*All data measured at 6 bar

NC / NO / SC / SO



3-JAW CONCENTRIC GRIPPERS

INSTALLATION SIZE GD320

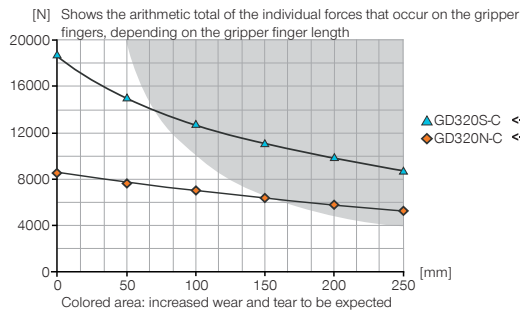
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Installation size GD320 / 3-Jaw Concentric Grippers / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS

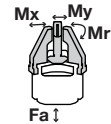


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	170
Mx [Nm]	180
My [Nm]	220
Fa [N]	7000

▶ INCLUDED IN DELIVERY



Mounting block

KB8-34



Centering Disc

DST42000

▶ RECOMMENDED ACCESSORIES



Universal Jaw Aluminium

UB320



Universal Jaw Steel

UB320ST



Pressure piece N / S

ADS320N-S



Pressure piece NC / NO / SC / SO

ADS320C-O



Alternate proximity bracket

KHA320-B-8



Inductive proximity switch - Connector M8

NJ8-E2S



Magnetic field sensor Angled Cable 0,3 m - Connector M8

MFS103SKHC



Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



Straight Fittings - Quick Connect Style

GV1-4X8



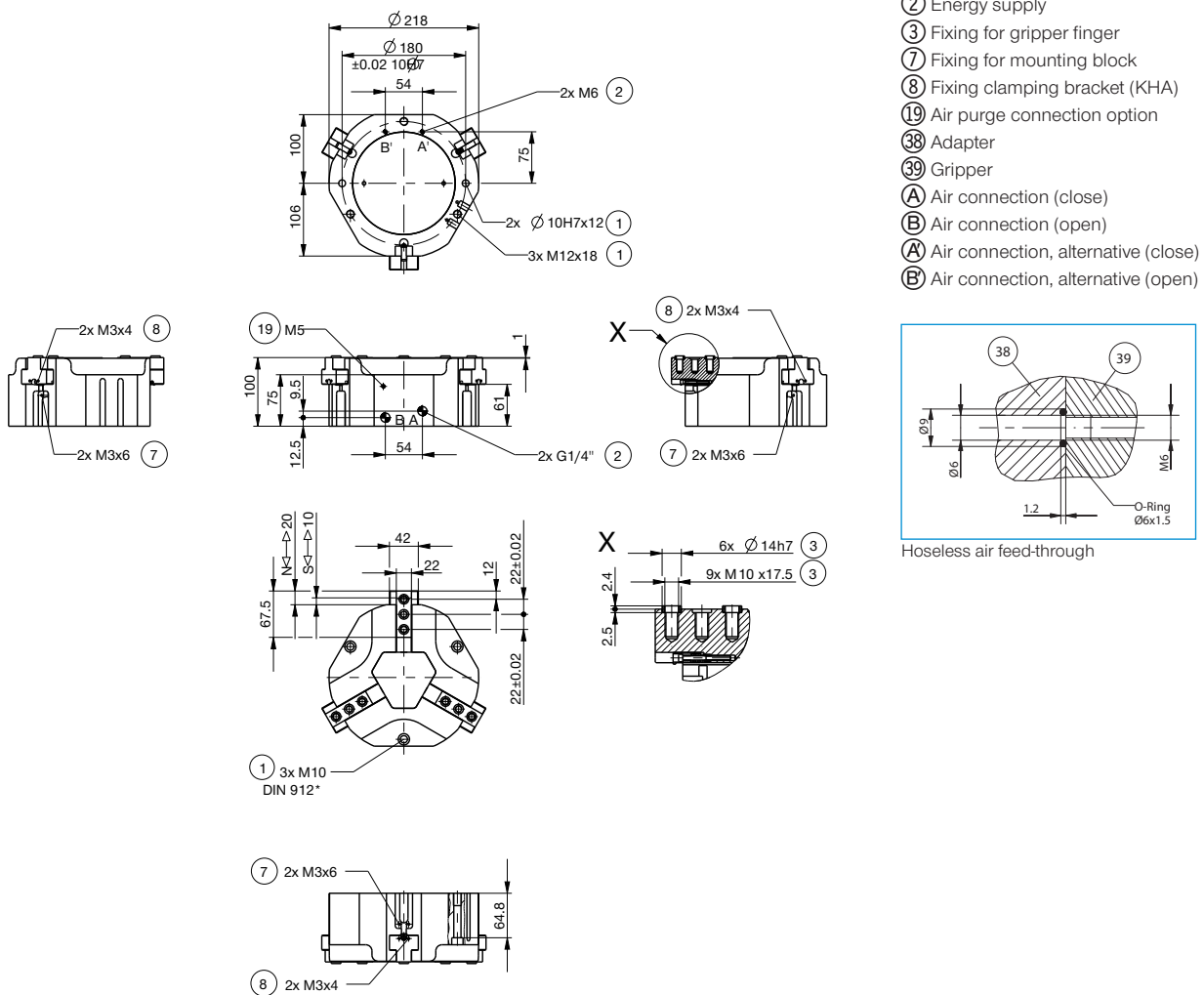
Pressure Safety Valve

DSV1-8

Order no.	Technical Data*	
	GD320N-C	GD320S-C
Stroke per jaw [mm]	20	10
Gripping force in closing [N]	8200	18150
Gripping force in opening [N]	8450	18700
Gripping force secured by spring min. [N]		
Closing time [s]	0.35	0.35
Opening time [s]	0.35	0.35
Repetition accuracy +/- [mm]	0.05	0.05
Operating pressure min. [bar]	2	2
Operating pressure max. [bar]	8	8
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm ³]	825	825
Weight [kg]	9.6	9.6

*All data measured at 6 bar

N/S



- ① Gripper attachment
- ② Energy supply
- ③ Fixing for gripper finger
- ⑦ Fixing for mounting block
- ⑧ Fixing clamping bracket (KHA)
- ⑱ Air purge connection option
- ⑳ Adapter
- ㉑ Gripper
- Ⓐ Air connection (close)
- Ⓑ Air connection (open)
- Ⓐ Air connection, alternative (close)
- Ⓑ Air connection, alternative (open)

3-JAW CONCENTRIC GRIPPERS

INSTALLATION SIZE GD330

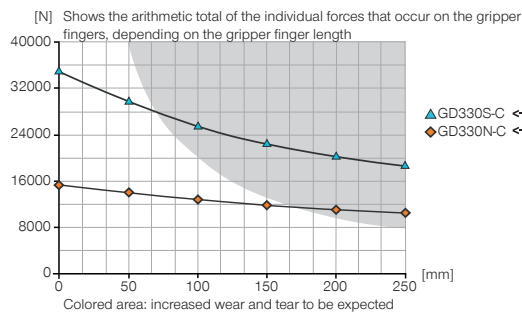
1

Installation size GD330 / 3-Jaw Concentric Grippers / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS

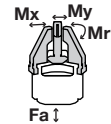


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	200
Mx [Nm]	275
My [Nm]	300
Fa [N]	9000

▶ INCLUDED IN DELIVERY



Mounting block

KB8-34



Centering Disc

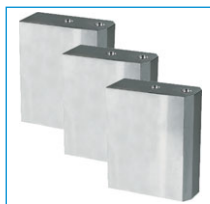
DST43000

▶ RECOMMENDED ACCESSORIES



Universal Jaw Aluminium

UB330



Universal Jaw Steel

UB330ST



Alternate proximity bracket

KHA330-B-8



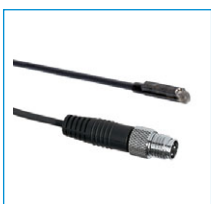
Inductive proximity switch - Connector M8

NJ8-E2S



Magnetic field sensor Angled Cable 0,3 m - Connector M8

MFS103SKHC



Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



Plug-in connector Straight Cable 5m - Socket M8 (female)

KAG500



Straight Fittings - Quick Connect Style

GV1-4X8



Angled Fittings - Quick Connect Style

WV1-4X8



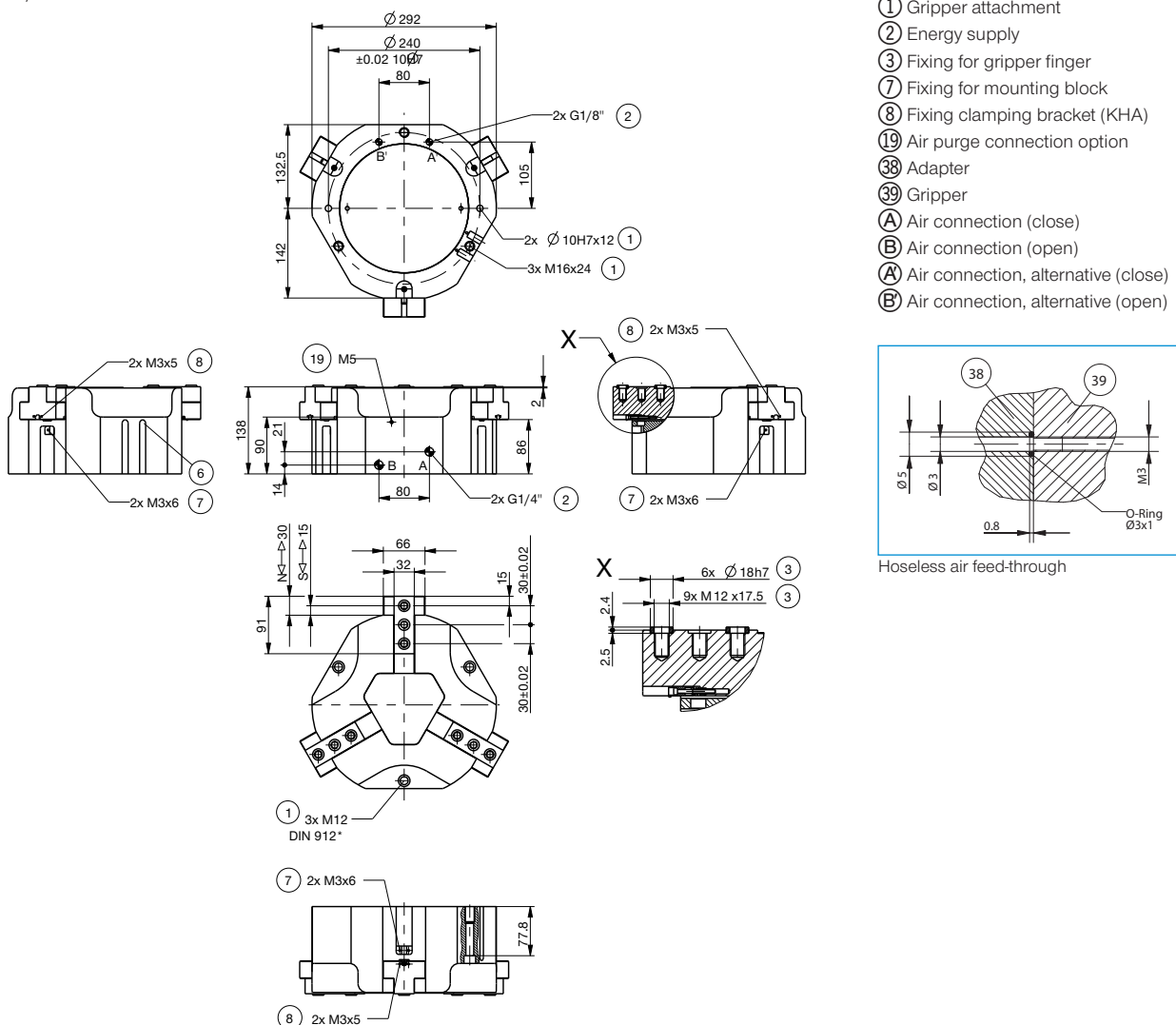
Pressure Safety Valve

DSV1-8

Order no.	► Technical Data*	
	GD330N-C	GD330S-C
Stroke per jaw [mm]	30	15
Gripping force in closing [N]	15300	34150
Gripping force in opening [N]	15550	34700
Gripping force secured by spring min. [N]		
Closing time [s]	0.8	0.8
Opening time [s]	0.8	0.8
Repetition accuracy +/- [mm]	0.05	0.05
Operating pressure min. [bar]	2	2
Operating pressure max. [bar]	8	8
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm³]	2270	2270
Weight [kg]	24	24

*All data measured at 6 bar

N / S



3-JAW CONCENTRIC GRIPPERS

SERIES GPD5000

▶ PRODUCT ADVANTAGES



“The Universal One”

- ▶ Up to 30% more gripping force than the benchmark
- ▶ 10% more static forces and moments than the benchmark
- ▶ Gripper fingers up to 10% longer than the benchmark
- ▶ Gripper fingers weight up to 15% higher than the benchmark
- ▶ Sealed guide IP64 / Protector version IP67 (with purged air)
- ▶ Protected against corrosion
- ▶ Up to 30 million cycles without maintenance

▶ THE BEST PRODUCT FOR YOUR APPLICATION



▶ Our products love the challenge!

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Find the best product for your specific use:

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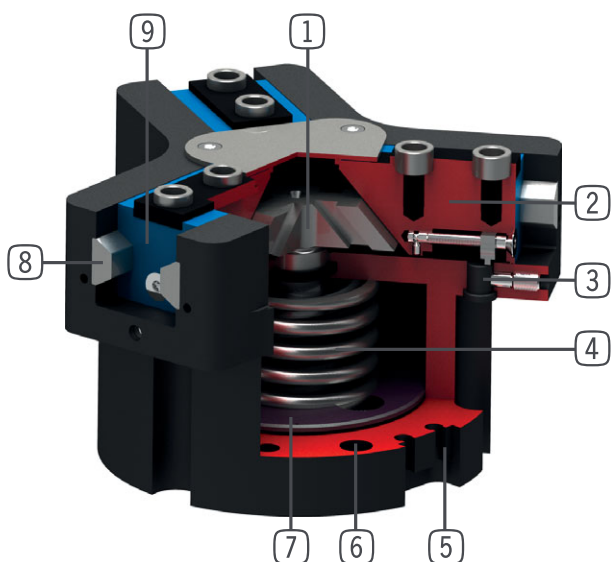
HOW TO ORDER CORRECTLY

- ▶ The product order numbers are arranged according to this diagram:

Order no.	GPD5010	<input type="checkbox"/>	<input type="checkbox"/>	- <input type="checkbox"/>	-A
Basis version	N				
High force	S				
For external gripping, self-locking, spring closing			C		
For internal gripping, self-locking, spring opening			O		
temperature-resistant version to 130 °C					20
Protector version IP67 for use in adverse environments (with purged air)					21
temperature-resistant protector version IP67 for use in adverse environments (with purged air) to 130 °C					24



► BENEFITS IN DETAIL



- ① **Wedge hook mechanism**
 - high forces and moments capacity
 - Synchronized gripper jaw movement
- ② **Gripper jaw**
 - Gripper fingers mounted using removable centring sleeves
 - Lubricated for life via incorporated lubrication slots
- ③ **Mounting block**
 - mounting for inductive proximity switch
- ④ **Integrated gripping force safety device**
 - Spring built into cylinder chamber as an energy store
- ⑤ **Sensing slot**
 - mounting and positioning of magnetic field sensors
- ⑥ **Mounting and positioning**
 - Alternatively, on several sides for customized mounting
 - Pneumatic and electrical versions identical apart from height
- ⑦ **Drive**
 - Double-acting pneumatic rotor cylinder
- ⑧ **Steel Linear Guide**
 - Steel in steel guide
 - Enables use of extremely long gripper fingers
- ⑨ **Dual lip seal**
 - IP64 and up to IP67 (with purged air) for Protector version
 - Prevents grease from being squeezed out, increasing service life

► SERIES CHARACTERISTICS



Number of installation sizes	11
Stroke per jaw	2,5 mm - 45 mm
Gripping force	310 N - 72500 N
Weight	0,14 kg - 88 kg
AP class	5



30 million maintenance-free cycles (max.)



High-strength S



IP67



Temperature-resistant



Spring closing C



Inductive sensor



Corrosion resistance



Purged air



Spring opening O



IP64



Magnetic field sensor

3-JAW CONCENTRIC GRIPPERS

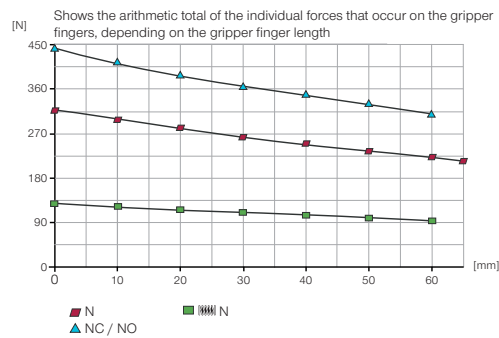
INSTALLATION SIZE GPD5003

1

▶ PRODUCT SPECIFICATIONS

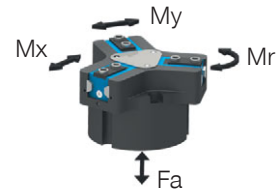


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	7
Mx [Nm]	14
My [Nm]	13
Fa [N]	550

▶ TECHNICAL DATA

▶ Technical Data*

Order no.	GPD5003N-00-A	GPD5003NC-00-A	GPD5003NO-00-A
Stroke per jaw [mm]	2.5	2.5	2.5
Gripping force in closing [N]	310	440	
Gripping force in opening [N]	335		465
Gripping force secured by spring min. [N]		130	130
Closing time [s]	0.015	0.01	0.02
Opening time [s]	0.015	0.02	0.01
Permissible weight per jaw max [kg]	0.12	0.12	0.12
Length of the gripper fingers max. [mm]	65	60	60
Repetition accuracy +/- [mm]	0.01	0.01	0.01
Operating pressure min. [bar]	3	4	4
Operating pressure max. [bar]	8	7	7
Operating temperature [°C]	-10 ... +90	-10 ... +90	10 ... +90
Air volume per cycle [cm³]	4.2	9.5	9.5
Protection to IEC 60529	IP64	IP64	IP64
Weight [kg]	0.14	0.18	0.18

▶ Technical Data - High Temperature Version

Order no.	GPD5003N-20-A	GPD5003NC-20-A	GPD5003NO-20-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130

▶ Technical Data - Protector Version

Order no.	GPD5003N-21-A	GPD5003NC-21-A	GPD5003NO-21-A
Protection to IEC 60529	IP67**	IP67**	IP67**
Weight [kg]	0.18	0.22	0.22

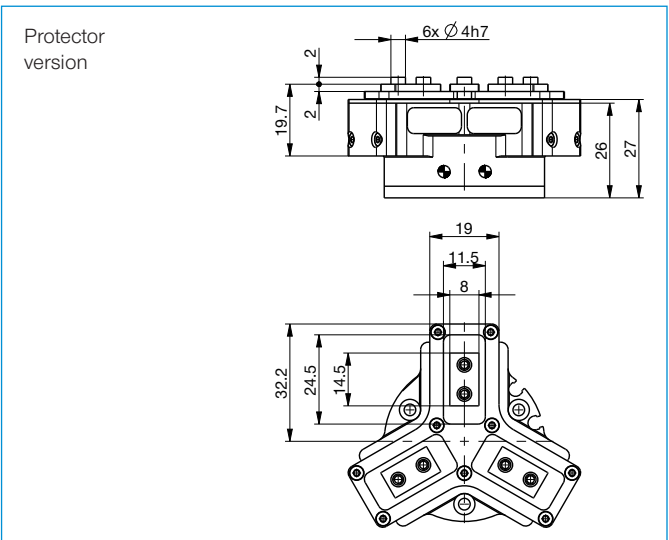
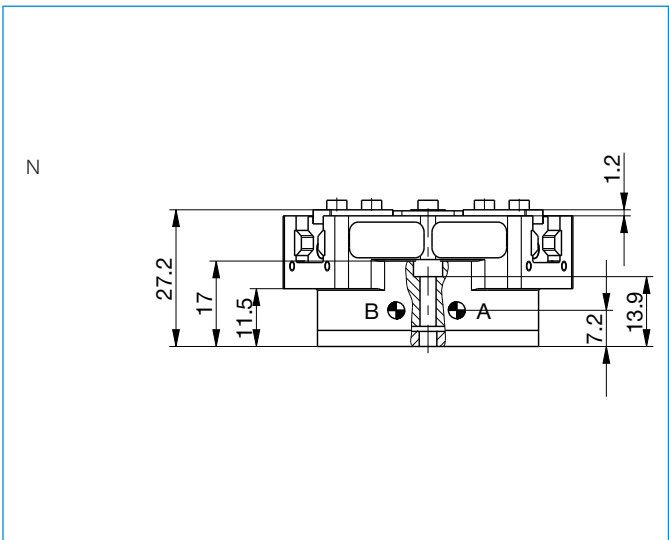
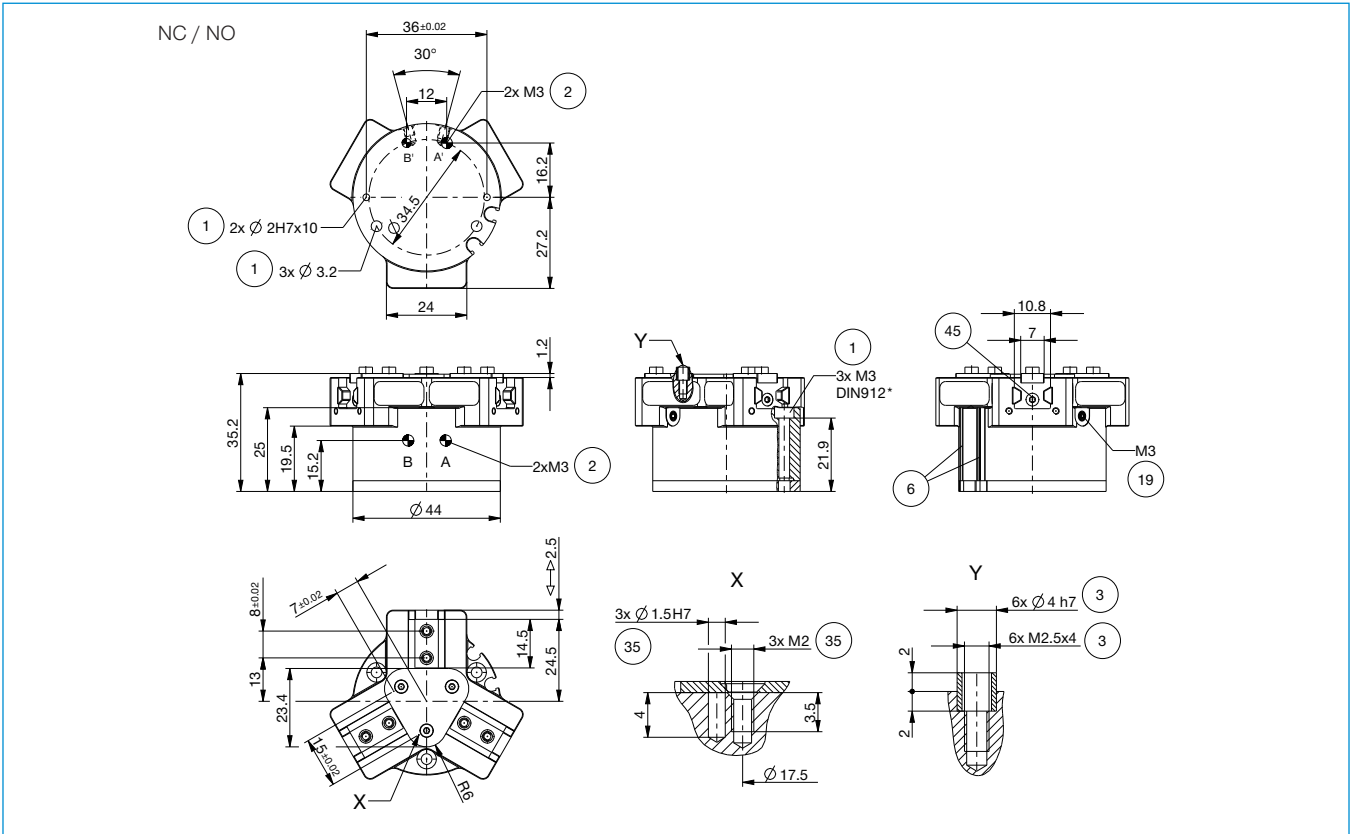
▶ Technical Data - High Temperature Protector Version

Order no.	GPD5003N-24-A	GPD5003NC-24-A	GPD5003NO-24-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130
Protection to IEC 60529	IP67**	IP67**	IP67**
Weight [kg]	0.18	0.22	0.22

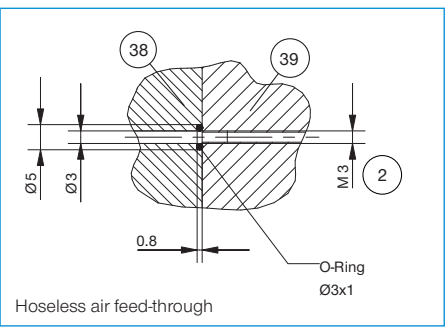
*All data measured at 6 bar

** with purged air (max. 0,5 bar)

▶ TECHNICAL DRAWINGS



- ① Gripper attachment
- ② Energy supply
- ③ Fixing for gripper finger
- ⑥ Integrated slot for magnetic field sensor
- ⑱ Air purge connection option
- ⑳ Attachment option for customer-specific fittings
- ㉔ Adapter
- ㉙ Gripper
- ④⑤ Switch cam adjustment
- Ⓐ Air connection (close)
- Ⓑ Air connection (open)
- Ⓐ Air connection, alternative (close)
- Ⓑ Air connection, alternative (open)

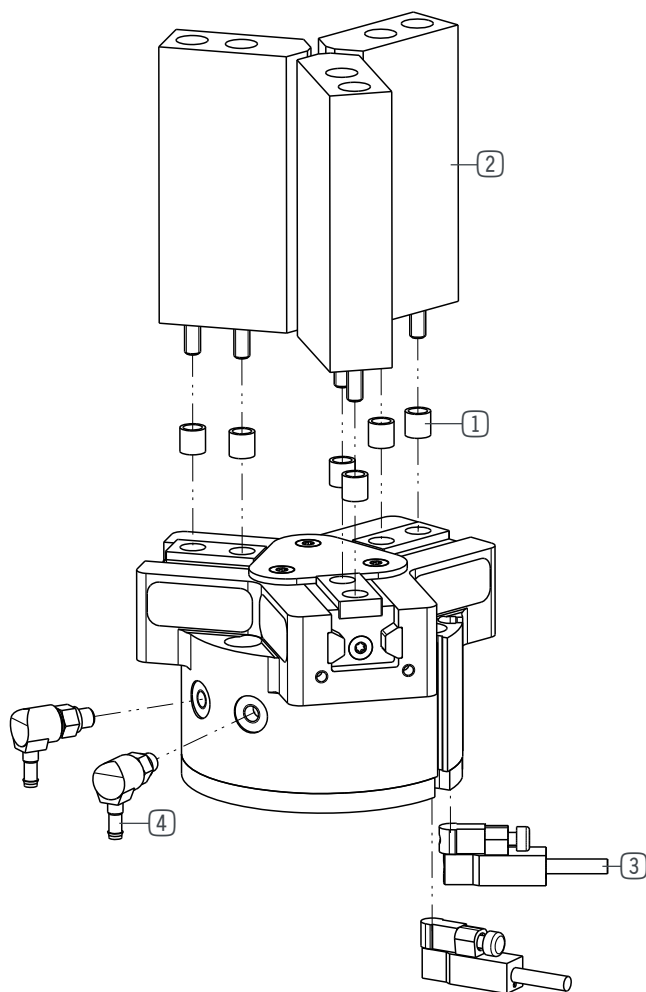


3-JAW CONCENTRIC GRIPPERS

INSTALLATION SIZE GPD5003

1

Installation size GPD5003 / 3-Jaw Concentric Grippers / pneumatic / Grippers



► INCLUDED IN DELIVERY



Centering Disc

DST06510

► RECOMMENDED ACCESSORIES



Universal jaw aluminium

UB5003AL



Universal jaw steel

UB5003ST



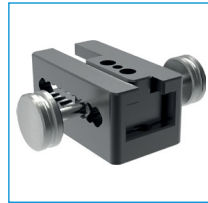
Rubber Coated Tape Knobbed

KF50N



Aluminum adjustment jaw

EB5003AL



Steel adjustment jaw

EB5003ST



Pressure piece N / S

ADS5003-01



Pressure piece NC / NO / SC / SO

ADS5003-02



Magnetic field sensor Angled Cable 0,3 m - Connector M8

MFS103SKHC



Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



2-Position-Sensor Cable 0,3 m - Connector M8

MFSP2SKHC-02



Plug-in connector Straight Cable 5m - Socket M8 (female)

KAG500



Plug-in connector customizable Straight - Connector M12

S12-G-3



Straight Fittings - Barb Style Connection

GVM3



Angled Fittings - Barb Style Connection

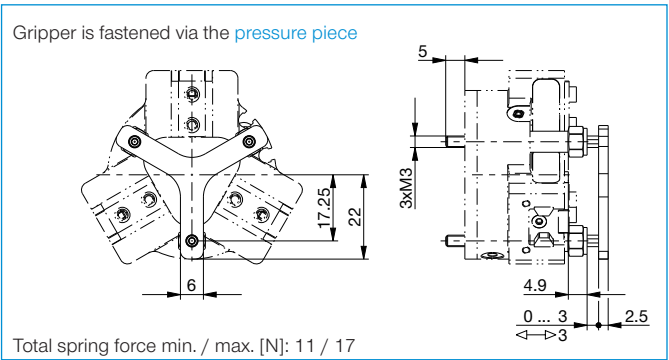
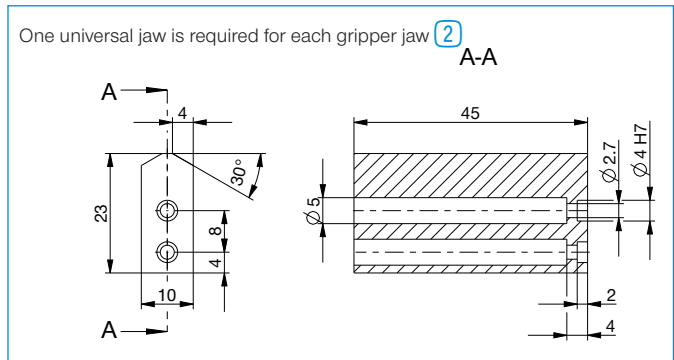
WVM3



Pressure Safety Valve

DSV1-8

► TECHNICAL DRAWINGS ACCESSORIES



3-JAW CONCENTRIC GRIPPERS

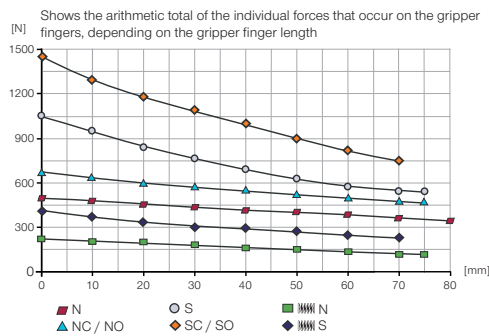
INSTALLATION SIZE GPD5004

1

PRODUCT SPECIFICATIONS

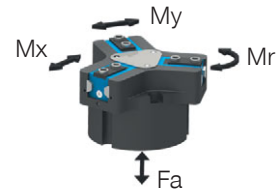


Gripping force diagram



Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	14
Mx [Nm]	29
My [Nm]	23
Fa [N]	750

TECHNICAL DATA

Technical Data*

Order no.	GPD5004N-00-A	GPD5004NC-00-A	GPD5004NO-00-A	GPD5004S-00-A	GPD5004SC-00-A	GPD5004SO-00-A
Stroke per jaw [mm]	4	4	4	2	2	2
Gripping force in closing [N]	460	650		1010	1430	
Gripping force in opening [N]	500		690	1100		1520
Gripping force secured by spring min. [N]		190	190		420	420
Closing time [s]	0.025	0.018	0.028	0.025	0.018	0.028
Opening time [s]	0.025	0.028	0.018	0.025	0.028	0.018
Permissible weight per jaw max [kg]	0.2	0.2	0.2	0.2	0.2	0.2
Length of the gripper fingers max. [mm]	80	75	75	75	70	70
Repetition accuracy +/- [mm]	0.01	0.01	0.01	0.01	0.01	0.01
Operating pressure min. [bar]	3	4	4	3	4	4
Operating pressure max. [bar]	8	7	7	8	7	7
Operating temperature [°C]	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90
Air volume per cycle [cm³]	11	21	21	11	21	21
Protection to IEC 60529	IP64	IP64	IP64	IP64	IP64	IP64
Weight [kg]	0.27	0.33	0.33	0.27	0.33	0.33

Technical Data - High Temperature Version

Order no.	GPD5004N-20-A	GPD5004NC-20-A	GPD5004NO-20-A	GPD5004S-20-A	GPD5004SC-20-A	GPD5004SO-20-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130

Technical Data - Protector Version

Order no.	GPD5004N-21-A	GPD5004NC-21-A	GPD5004NO-21-A	GPD5004S-21-A	GPD5004SC-21-A	GPD5004SO-21-A
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	0.35	0.41	0.41	0.35	0.41	0.41

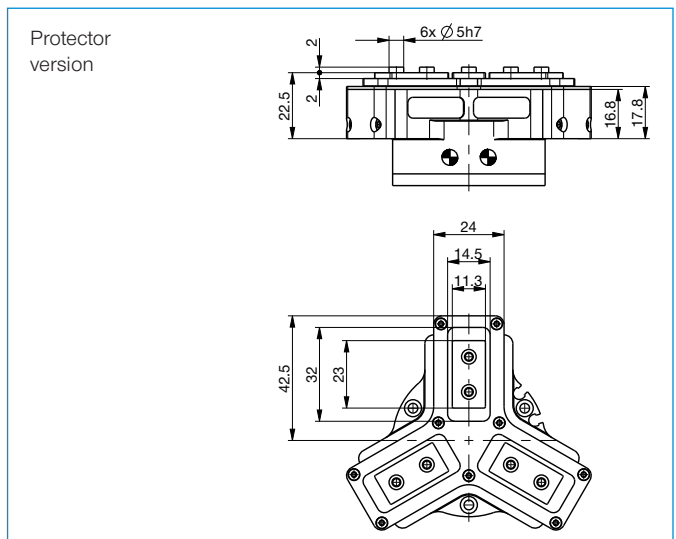
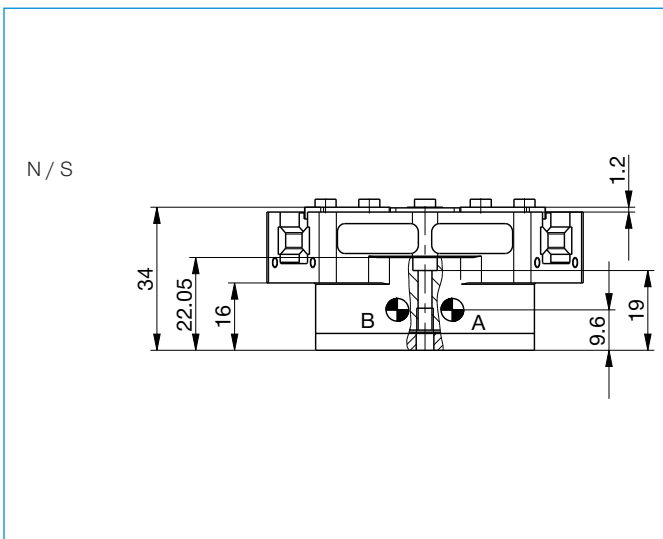
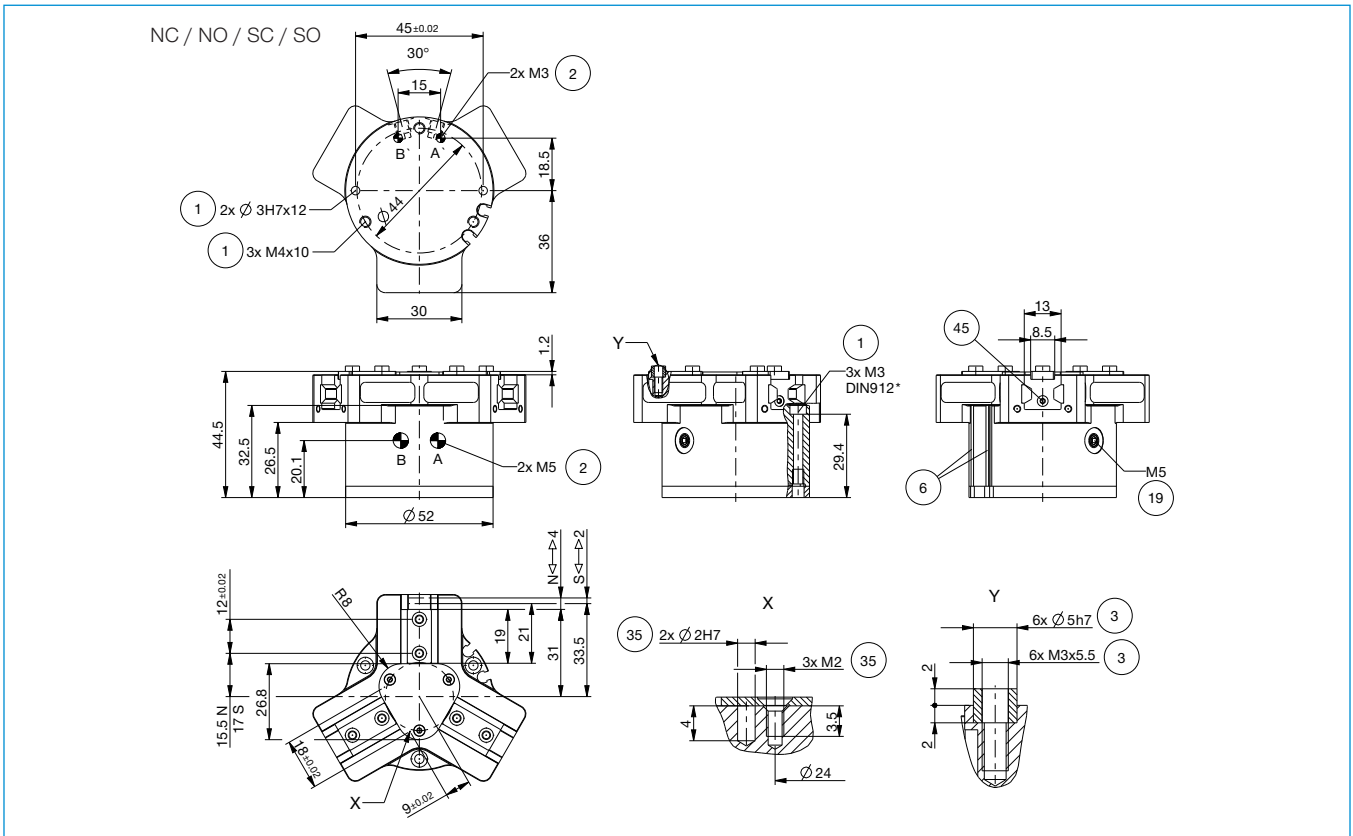
Technical Data - High Temperature Protector Version

Order no.	GPD5004N-24-A	GPD5004NC-24-A	GPD5004NO-24-A	GPD5004S-24-A	GPD5004SC-24-A	GPD5004SO-24-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	0.35	0.41	0.41	0.35	0.41	0.41

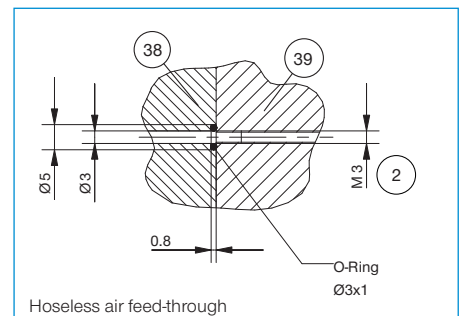
*All data measured at 6 bar

** with purged air (max. 0,5 bar)

TECHNICAL DRAWINGS



- ① Gripper attachment
- ② Energy supply
- ③ Fixing for gripper finger
- ⑥ Integrated slot for magnetic field sensor
- ⑱ Air purge connection option
- ⑳ Attachment option for customer-specific fittings
- ㉔ Adapter
- ㉙ Gripper
- ④⑤ Switch cam adjustment
- Ⓐ Air connection (close)
- Ⓑ Air connection (open)
- Ⓐ Air connection, alternative (close)
- Ⓑ Air connection, alternative (open)

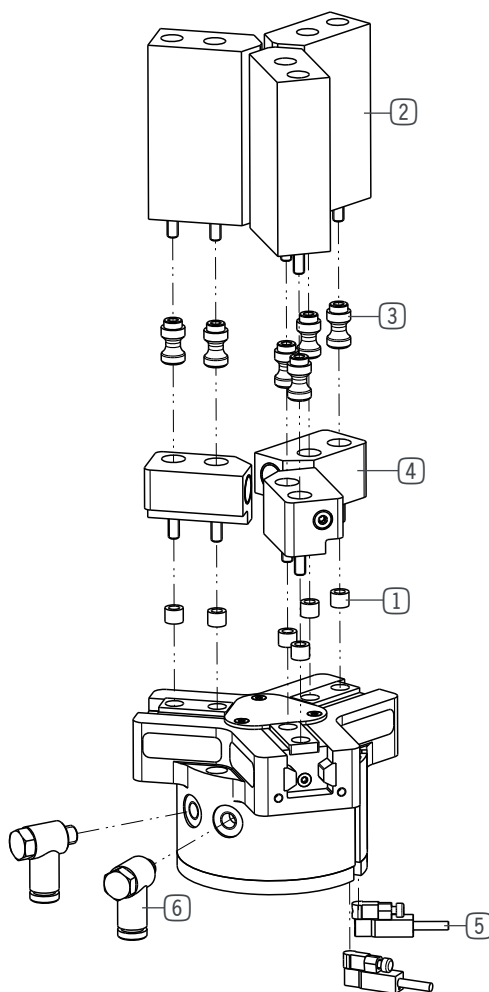


3-JAW CONCENTRIC GRIPPERS

INSTALLATION SIZE GPD5004

1

Installation size GPD5004 / 3-Jaw Concentric Grippers / pneumatic / Grippers



► INCLUDED IN DELIVERY



Centering Disc

015761

▶ RECOMMENDED ACCESSORIES



Universal jaw aluminium

UB5004AL



Universal jaw steel

UB5004ST



Aluminum adjustment jaw

EB5004AL



Steel adjustment jaw

EB5004ST



Pressure piece N / S

ADS5004-01



Pressure piece NC / NO / SC / SO

ADS5004-02



Changeable jaw, loose-part-set

WB5004L



Changeable jaw, fix-part

WB5004F



Magnetic field sensor Angled Cable 0,3 m - Connector M8

MFS103SKHC



Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



2-Position-Sensor Cable 0,3 m - Connector M8

MFSP2SKHC-02



Plug-in connector Straight Cable 5m - Socket M8 (female)

KAG500



Straight Fittings - Quick Connect Style

GVM5



Angled Fittings - Quick Connect Style

WVM5

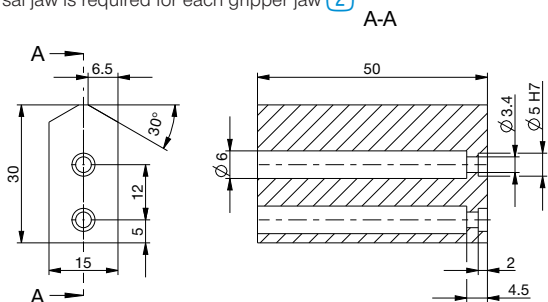


Pressure Safety Valve

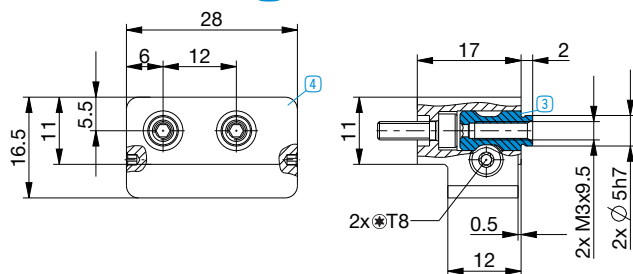
DSV1-8

▶ TECHNICAL DRAWINGS ACCESSORIES

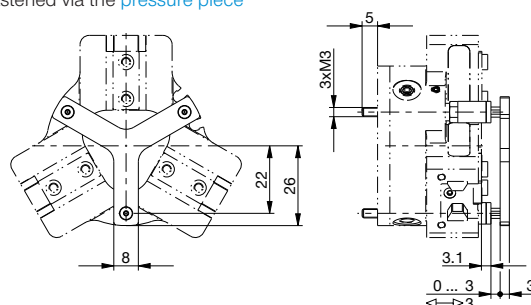
One universal jaw is required for each gripper jaw ⁽²⁾



For each gripper jaw, one interchangeable jaw loose part set ⁽³⁾ and one interchangeable jaw fixed part ⁽⁴⁾ are needed



Gripper is fastened via the pressure piece



Total spring force min. / max. [N]: 17 / 41

3-JAW CONCENTRIC GRIPPERS

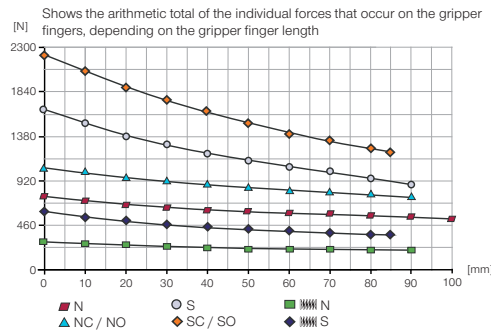
INSTALLATION SIZE GPD5006

1

PRODUCT SPECIFICATIONS

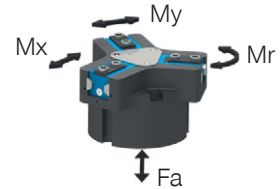


Gripping force diagram



Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	43
Mx [Nm]	70
My [Nm]	46
Fa [N]	1250

TECHNICAL DATA

Technical Data*

Order no.	GPD5006N-00-A	GPD5006NC-00-A	GPD5006NO-00-A	GPD5006S-00-A	GPD5006SC-00-A	GPD5006SO-00-A
Stroke per jaw [mm]	6	6	6	3	3	3
Gripping force in closing [N]	740	1020		1620	2240	
Gripping force in opening [N]	800		1080	1750		2370
Gripping force secured by spring min. [N]		280	280		620	620
Closing time [s]	0.028	0.018	0.038	0.028	0.018	0.038
Opening time [s]	0.028	0.038	0.018	0.028	0.038	0.018
Permissible weight per jaw max [kg]	0.4	0.4	0.4	0.4	0.4	0.4
Length of the gripper fingers max. [mm]	100	90	90	90	85	85
Repetition accuracy +/- [mm]	0.01	0.01	0.01	0.01	0.01	0.01
Operating pressure min. [bar]	3	4	4	3	4	4
Operating pressure max. [bar]	8	7	7	8	7	7
Operating temperature [°C]	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90
Air volume per cycle [cm³]	22	43	43	22	43	43
Protection to IEC 60529	IP64	IP64	IP64	IP64	IP64	IP64
Weight [kg]	0.48	0.58	0.58	0.48	0.58	0.58

Technical Data - High Temperature Version

Order no.	GPD5006N-20-A	GPD5006NC-20-A	GPD5006NO-20-A	GPD5006S-20-A	GPD5006SC-20-A	GPD5006SO-20-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130

Technical Data - Protector Version

Order no.	GPD5006N-21-A	GPD5006NC-21-A	GPD5006NO-21-A	GPD5006S-21-A	GPD5006SC-21-A	GPD5006SO-21-A
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	0.61	0.71	0.71	0.61	0.71	0.71

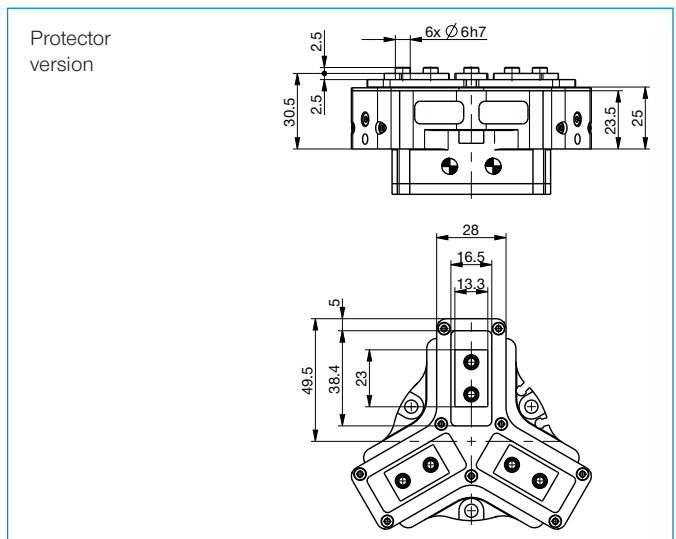
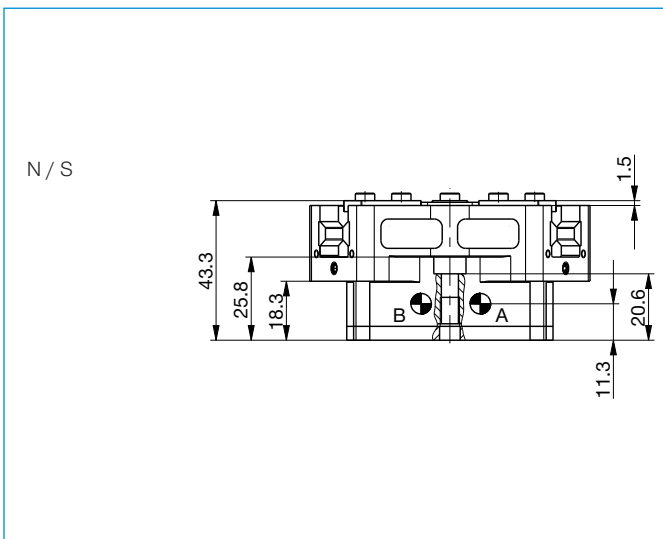
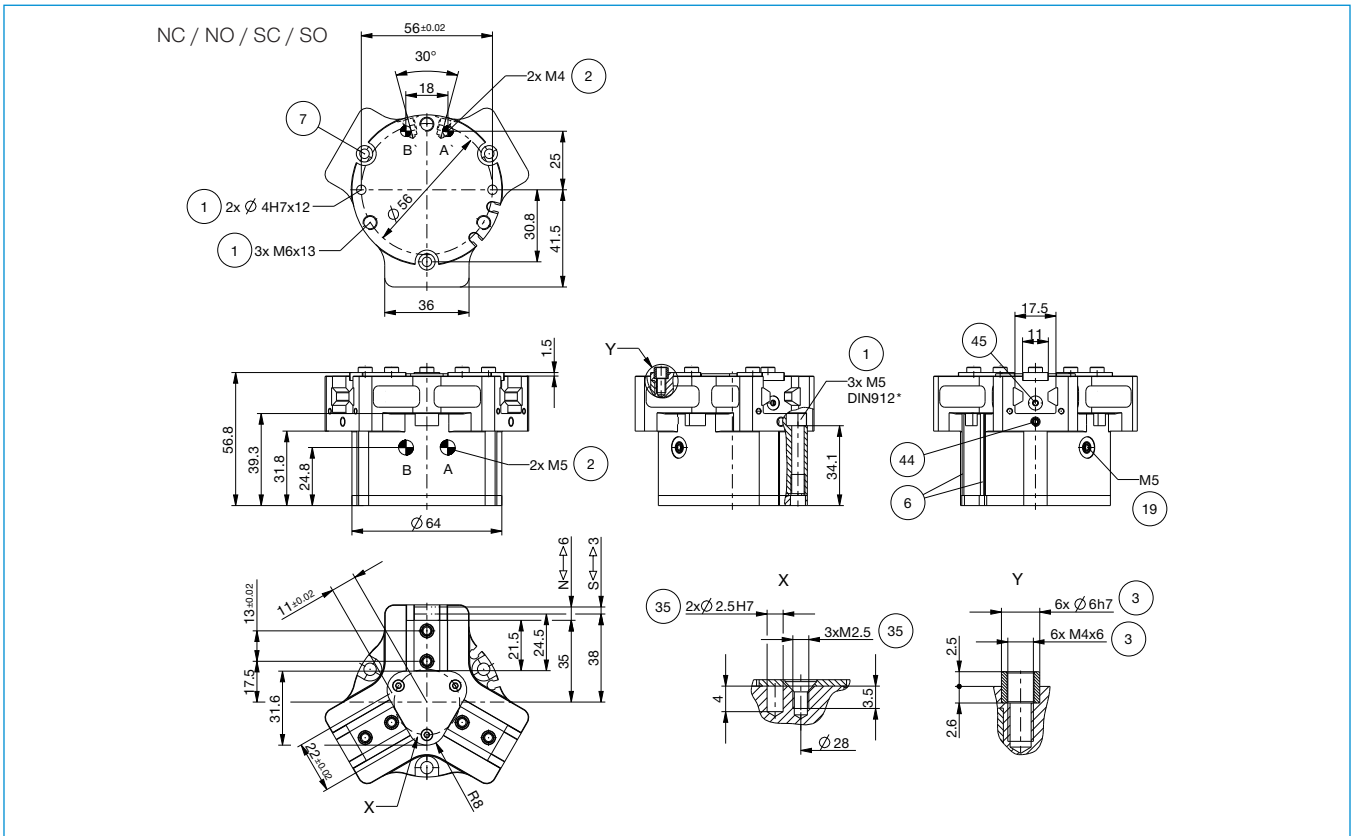
Technical Data - High Temperature Protector Version

Order no.	GPD5006N-24-A	GPD5006NC-24-A	GPD5006NO-24-A	GPD5006S-24-A	GPD5006SC-24-A	GPD5006SO-24-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	0.61	0.71	0.71	0.61	0.71	0.71

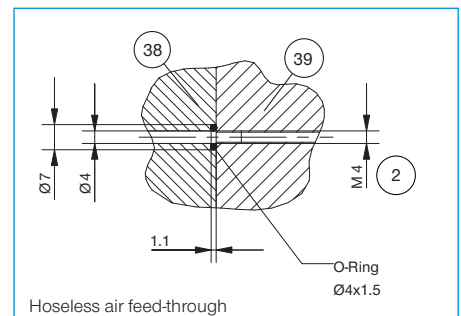
*All data measured at 6 bar

** with purged air (max. 0,5 bar)

TECHNICAL DRAWINGS



- ① Gripper attachment
- ② Energy supply
- ③ Fixing for gripper finger
- ⑥ Integrated slot for magnetic field sensor
- ⑦ Mounting block
- ⑱ Air purge connection option
- ⑳ Attachment option for customer-specific fittings
- ㉔ Adapter
- ㉙ Gripper
- ㉜ Clamp for sensor
- ㉝ Switch cam adjustment
- Ⓐ Air connection (close)
- Ⓑ Air connection (open)
- Ⓐ Air connection, alternative (close)
- Ⓑ Air connection, alternative (open)

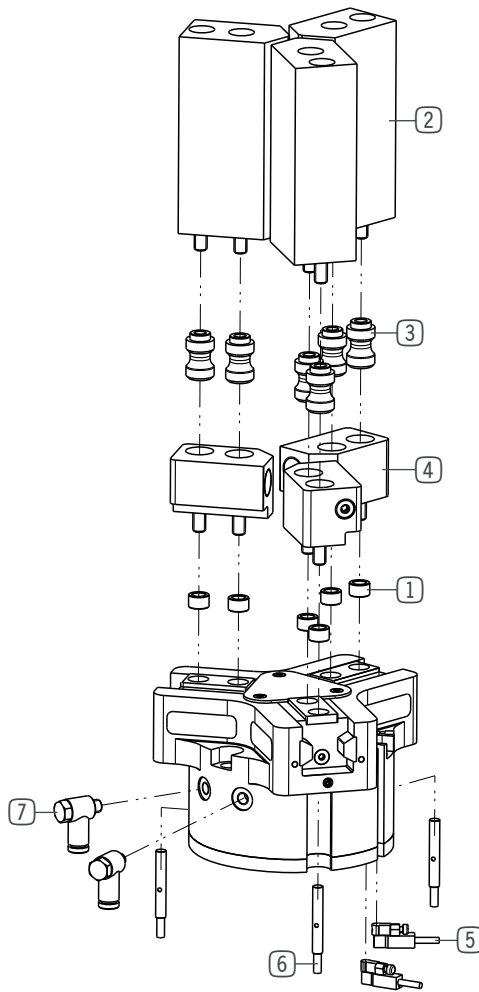


3-JAW CONCENTRIC GRIPPERS

INSTALLATION SIZE GPD5006

1

Installation size GPD5006 / 3-Jaw Concentric Grippers / pneumatic / Grippers


















▶ INCLUDED IN DELIVERY



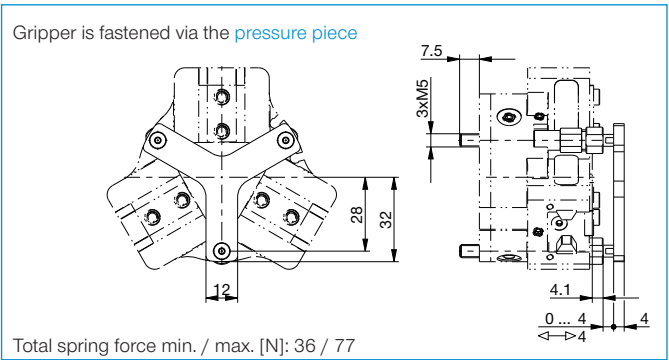
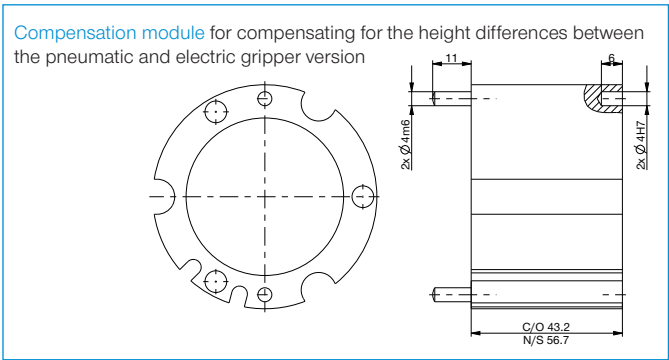
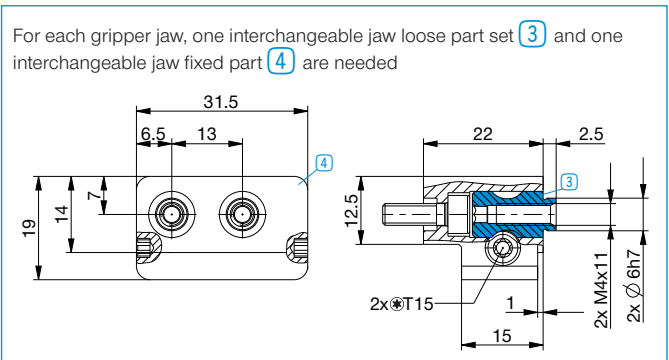
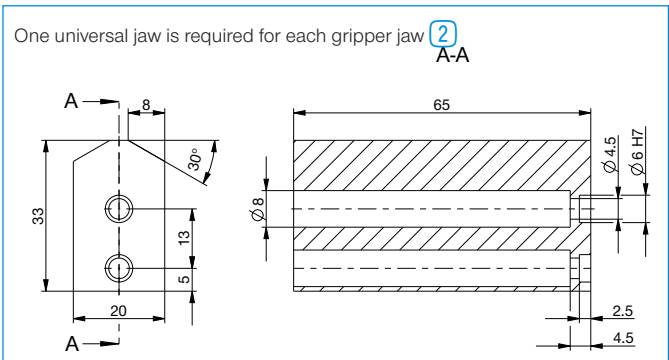
Centering Disc

024230

▶ RECOMMENDED ACCESSORIES

 <p>2 Universal jaw aluminium UB5006AL</p>	 <p>2 Universal jaw steel UB5006ST</p>	 <p>Aluminum adjustment jaw EB5006AL</p>	 <p>Steel adjustment jaw EB5006ST</p>	 <p>3 Changeable jaw, loose-part-set WB5006L</p>
 <p>4 Changeable jaw, fix-part WB5006F</p>	 <p>Pressure piece N / S ADS5006-01</p>	 <p>Pressure piece NC / NO / SC / SO ADS5006-02</p>	 <p>6 Inductive Proximity Switch Cable 0,3 m - Connector M8 NJ4-E2SK-01</p>	 <p>5 Magnetic field sensor Angled Cable 0,3 m - Connector M8 MFS103SKHC</p>
 <p>5 Magnetic field sensor Straight Cable 0,3 m - Connector M8 MFS204SKHC</p>	 <p>5 2-Position-Sensor Cable 0,3 m - Connector M8 MFSP2SKHC-02</p>	 <p>7 Angled Fittings - Quick Connect Style WVM5</p>	 <p>Compensation module N / S ZUB5006DNS</p>	 <p>Compensation module NC / NO / SC / SO ZUB5006DCO</p>

▶ TECHNICAL DRAWINGS ACCESSORIES



3-JAW CONCENTRIC GRIPPERS

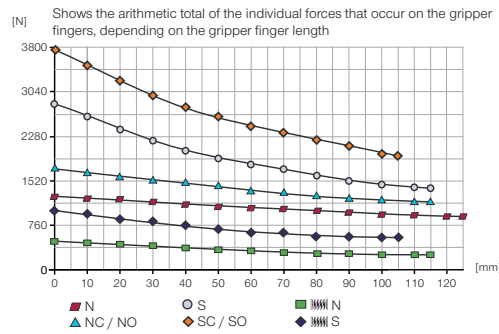
INSTALLATION SIZE GPD5008

1

PRODUCT SPECIFICATIONS

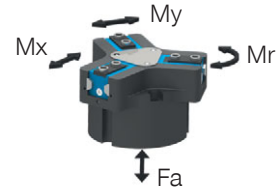


Gripping force diagram



Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	60
Mx [Nm]	105
My [Nm]	65
Fa [N]	1900

TECHNICAL DATA

Technical Data*

Order no.	GPD5008N-00-A	GPD5008NC-00-A	GPD5008NO-00-A	GPD5008S-00-A	GPD5008SC-00-A	GPD5008SO-00-A
Stroke per jaw [mm]	8	8	8	4	4	4
Gripping force in closing [N]	1260	1690		2780	3730	
Gripping force in opening [N]	1340		1770	2960		3910
Gripping force secured by spring min. [N]		430	430		950	950
Closing time [s]	0.048	0.035	0.055	0.048	0.035	0.055
Opening time [s]	0.048	0.055	0.035	0.048	0.055	0.035
Permissible weight per jaw max [kg]	0.7	0.7	0.7	0.7	0.7	0.7
Length of the gripper fingers max. [mm]	125	115	115	115	105	105
Repetition accuracy +/- [mm]	0.01	0.01	0.01	0.01	0.01	0.01
Operating pressure min. [bar]	3	4	4	3	4	4
Operating pressure max. [bar]	8	7	7	8	7	7
Operating temperature [°C]	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90
Air volume per cycle [cm³]	51	90	90	51	90	90
Protection to IEC 60529	IP64	IP64	IP64	IP64	IP64	IP64
Weight [kg]	0.83	1	1	0.83	1	1

Technical Data - High Temperature Version

Order no.	GPD5008N-20-A	GPD5008NC-20-A	GPD5008NO-20-A	GPD5008S-20-A	GPD5008SC-20-A	GPD5008SO-20-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130

Technical Data - Protector Version

Order no.	GPD5008N-21-A	GPD5008NC-21-A	GPD5008NO-21-A	GPD5008S-21-A	GPD5008SC-21-A	GPD5008SO-21-A
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	1.03	1.2	1.2	1.03	1.2	1.2

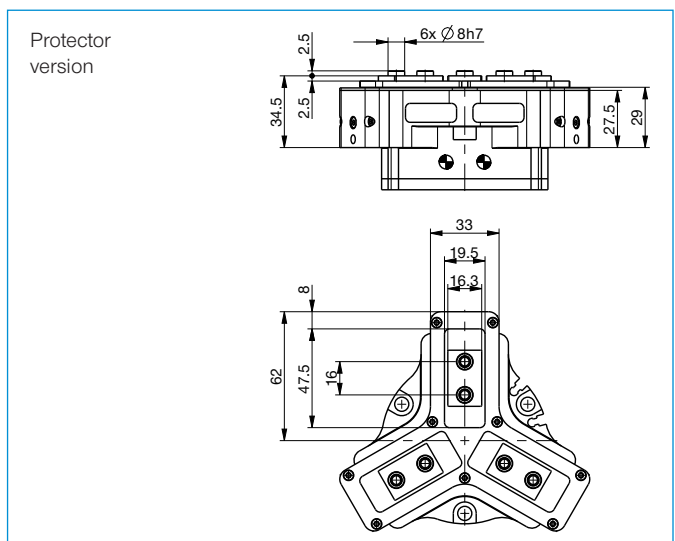
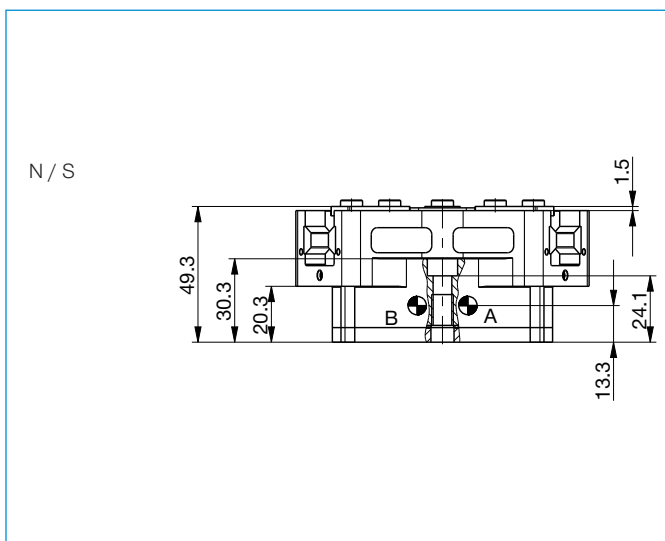
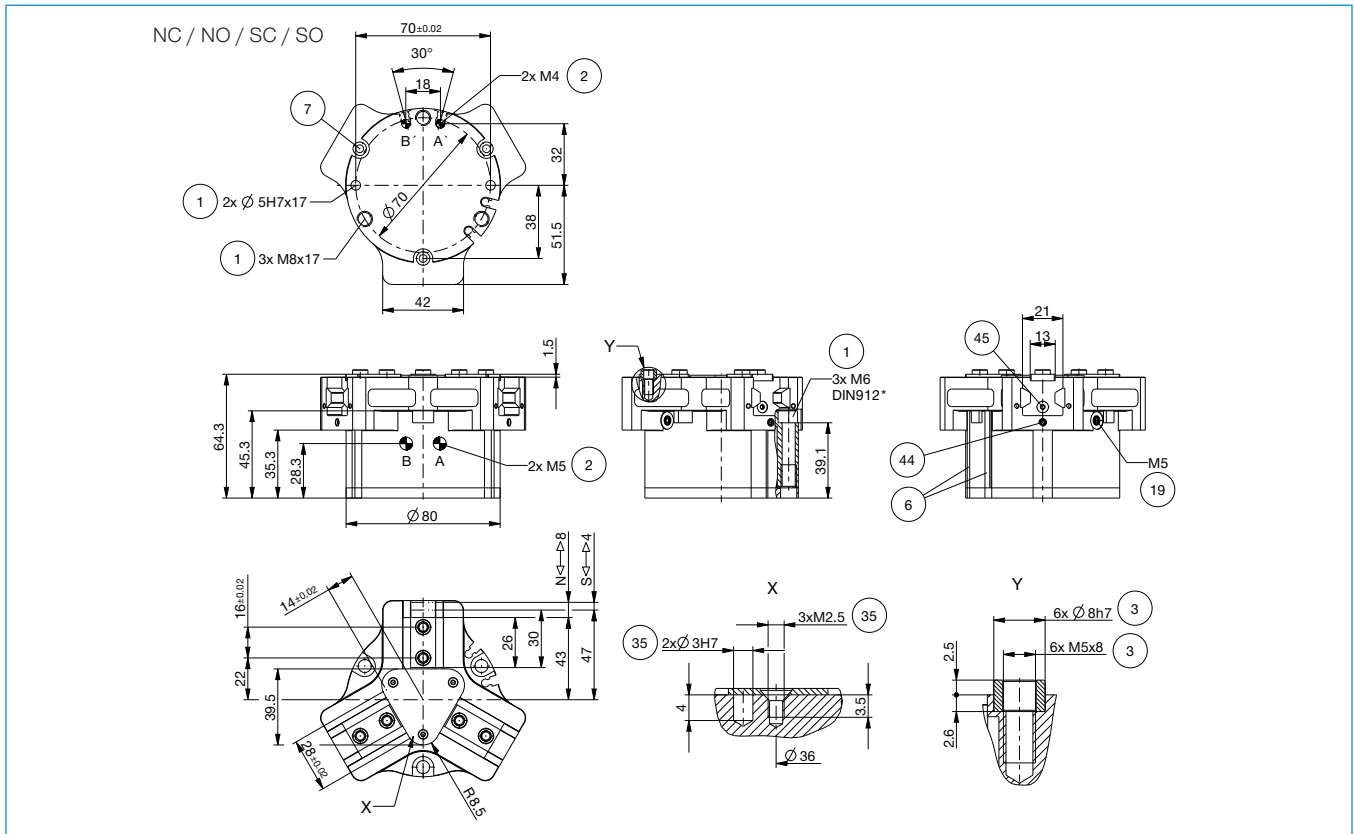
Technical Data - High Temperature Protector Version

Order no.	GPD5008N-24-A	GPD5008NC-24-A	GPD5008NO-24-A	GPD5008S-24-A	GPD5008SC-24-A	GPD5008SO-24-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	1.03	1.2	1.2	1.03	1.2	1.2

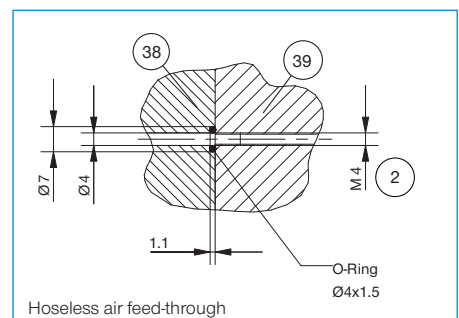
*All data measured at 6 bar

** with purged air (max. 0,5 bar)

TECHNICAL DRAWINGS



- | | |
|----------------------------------------------------|---------------------------------------|
| ① Gripper attachment | ③⑨ Gripper |
| ② Energy supply | ④④ Clamp for sensor |
| ③ Fixing for gripper finger | ⑤ Switch cam adjustment |
| ⑥ Integrated slot for magnetic field sensor | ⑥ Air connection (close) |
| ⑦ Mounting block | ⑦ Air connection (open) |
| ⑧ Air purge connection option | ⑧ Air connection, alternative (close) |
| ⑨ Attachment option for customer-specific fittings | ⑨ Air connection, alternative (open) |
| ⑩ Adapter | |

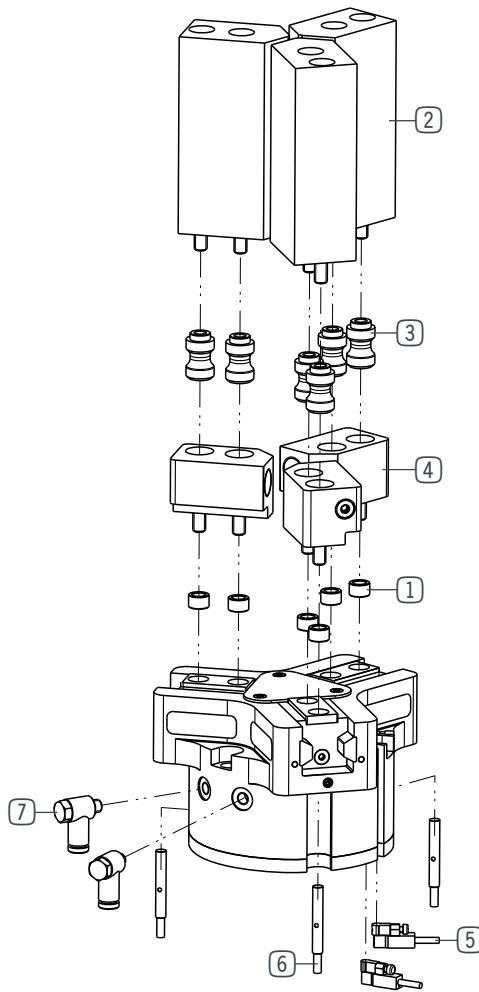


3-JAW CONCENTRIC GRIPPERS

INSTALLATION SIZE GPD5008

1

Installation size GPD5008 / 3-Jaw Concentric Grippers / pneumatic / Grippers



▶ INCLUDED IN DELIVERY



Centering Disc

024231

▶ RECOMMENDED ACCESSORIES



Universal jaw aluminium

UB5008AL



Universal jaw steel

UB5008ST



Aluminum adjustment jaw

EB5008AL



Steel adjustment jaw

EB5008ST



Changeable jaw, loose-part-set

WB5008L



Changeable jaw, fix-part

WB5008F



Pressure piece N / S

ADS5008-01



Pressure piece NC / NO / SC / SO

ADS5008-02



Inductive Proximity Switch Cable 0,3 m - Connector M8

NJ4-E2SK-01



Magnetic field sensor Angled Cable 0,3 m - Connector M8

MFS103SKHC



Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



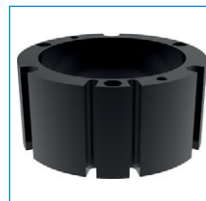
2-Position-Sensor Cable 0,3 m - Connector M8

MFSP2SKHC-02



Angled Fittings - Quick Connect Style

WVM5



Compensation module N / S

ZUB5008DNS

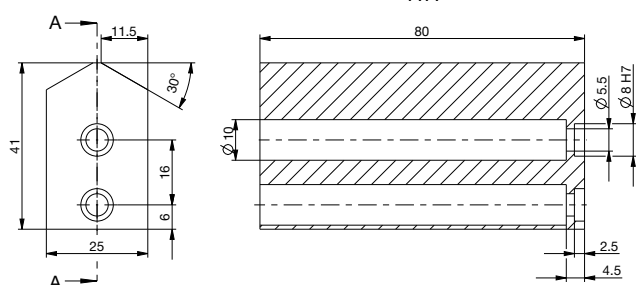


Compensation module NC / NO / SC / SO

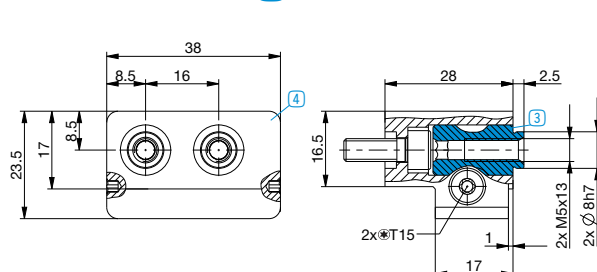
ZUB5008DCO

▶ TECHNICAL DRAWINGS ACCESSORIES

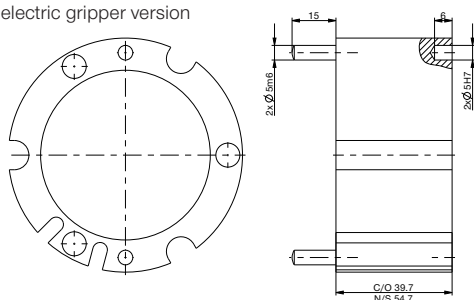
One universal jaw is required for each gripper jaw ² **A-A**



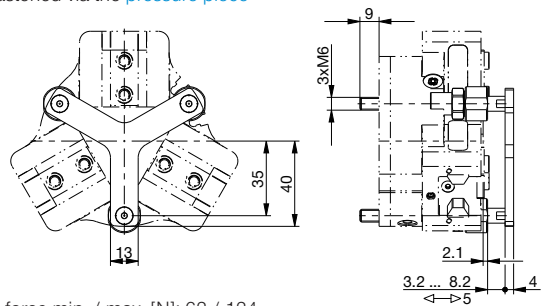
For each gripper jaw, one interchangeable jaw loose part set ³ and one interchangeable jaw fixed part ⁴ are needed



Compensation module for compensating for the height differences between the pneumatic and electric gripper version



Gripper is fastened via the pressure piece



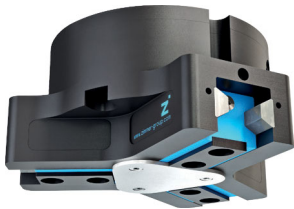
Total spring force min. / max. [N]: 62 / 124

3-JAW CONCENTRIC GRIPPERS

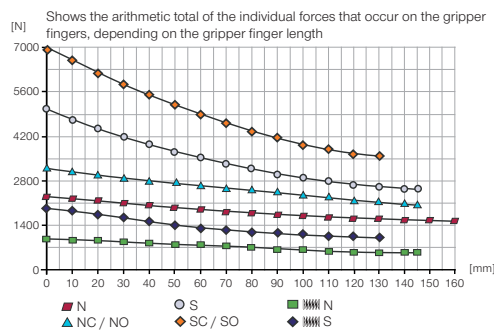
INSTALLATION SIZE GPD5010

1

PRODUCT SPECIFICATIONS

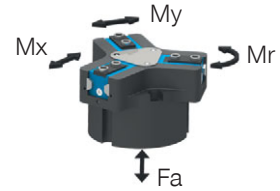


Gripping force diagram



Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	75
Mx [Nm]	125
My [Nm]	95
Fa [N]	2700

TECHNICAL DATA

Technical Data*

Order no.	GPD5010N-00-A	GPD5010NC-00-A	GPD5010NO-00-A	GPD5010S-00-A	GPD5010SC-00-A	GPD5010SO-00-A
Stroke per jaw [mm]	10	10	10	5	5	5
Gripping force in closing [N]	2290	3140		5050	6930	
Gripping force in opening [N]	2400		3250	5280		7160
Gripping force secured by spring min. [N]		850	850		1880	1880
Closing time [s]	0.095	0.095	0.19	0.095	0.095	0.19
Opening time [s]	0.095	0.19	0.095	0.095	0.19	0.095
Permissible weight per jaw max [kg]	1.3	1.3	1.3	1.3	1.3	1.3
Length of the gripper fingers max. [mm]	160	145	145	145	130	130
Repetition accuracy +/- [mm]	0.01	0.01	0.01	0.01	0.01	0.01
Operating pressure min. [bar]	3	4	4	3	4	4
Operating pressure max. [bar]	8	7	7	8	7	7
Operating temperature [°C]	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90
Air volume per cycle [cm³]	100	200	200	100	200	200
Protection to IEC 60529	IP64	IP64	IP64	IP64	IP64	IP64
Weight [kg]	1.45	1.9	1.9	1.45	1.9	1.9

Technical Data - High Temperature Version

Order no.	GPD5010N-20-A	GPD5010NC-20-A	GPD5010NO-20-A	GPD5010S-20-A	GPD5010SC-20-A	GPD5010SO-20-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130

Technical Data - Protector Version

Order no.	GPD5010N-21-A	GPD5010NC-21-A	GPD5010NO-21-A	GPD5010S-21-A	GPD5010SC-21-A	GPD5010SO-21-A
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	1.8	2.23	2.23	1.8	2.23	2.23

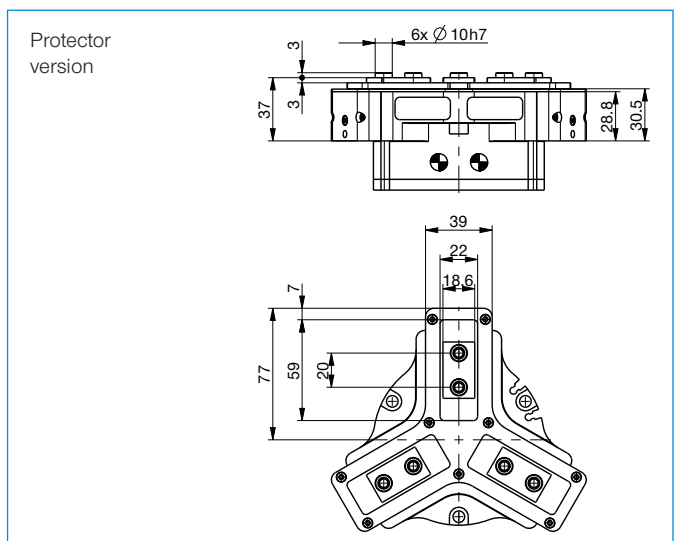
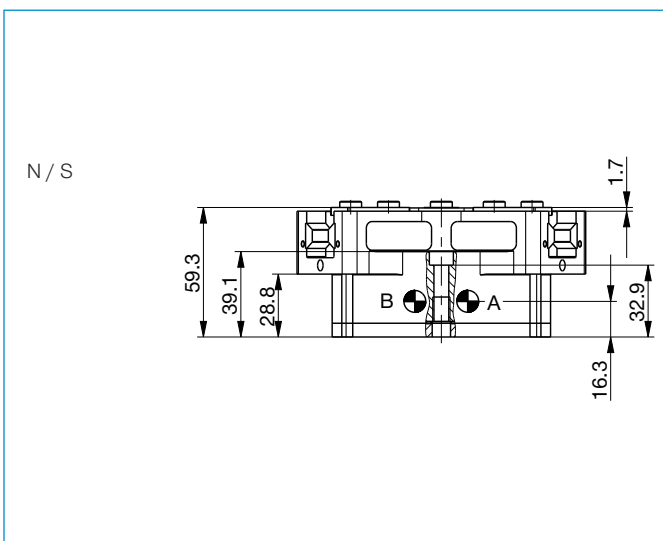
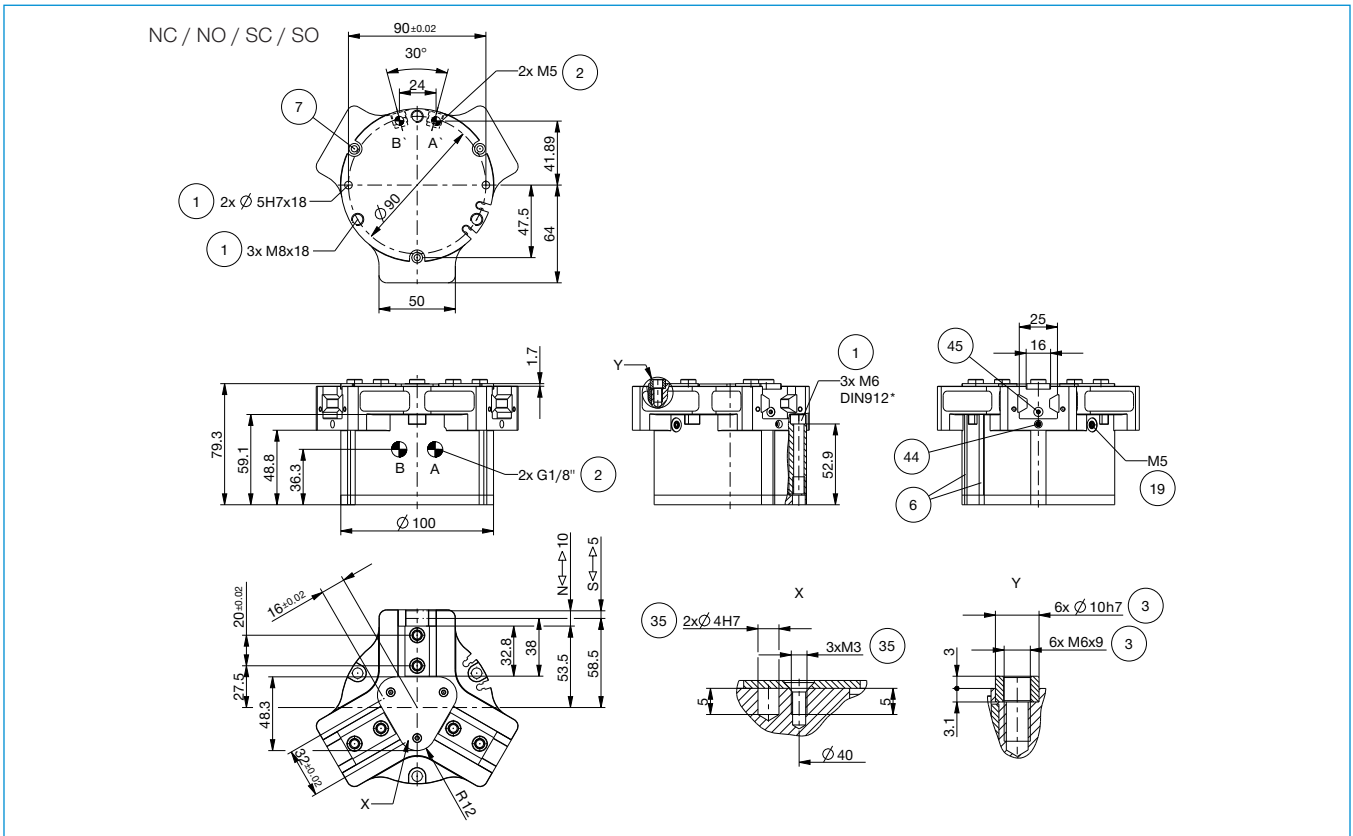
Technical Data - High Temperature Protector Version

Order no.	GPD5010N-24-A	GPD5010NC-24-A	GPD5010NO-24-A	GPD5010S-24-A	GPD5010SC-24-A	GPD5010SO-24-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +90
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	1.8	2.23	2.23	1.8	2.23	2.23

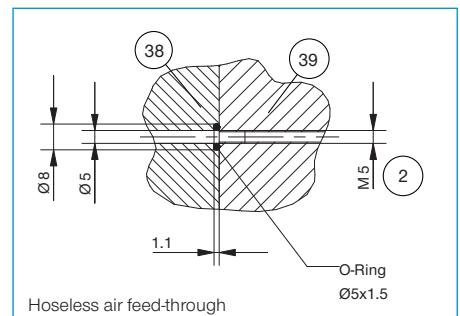
*All data measured at 6 bar

** with purged air (max. 0,5 bar)

TECHNICAL DRAWINGS



- ① Gripper attachment
- ② Energy supply
- ③ Fixing for gripper finger
- ⑥ Integrated slot for magnetic field sensor
- ⑦ Mounting block
- ⑱ Air purge connection option
- ⑳ Attachment option for customer-specific fittings
- ㉔ Adapter
- ㉙ Gripper
- ㉚ Clamp for sensor
- ㉛ Switch cam adjustment
- Ⓐ Air connection (close)
- Ⓑ Air connection (open)
- Ⓐ Air connection, alternative (close)
- Ⓑ Air connection, alternative (open)

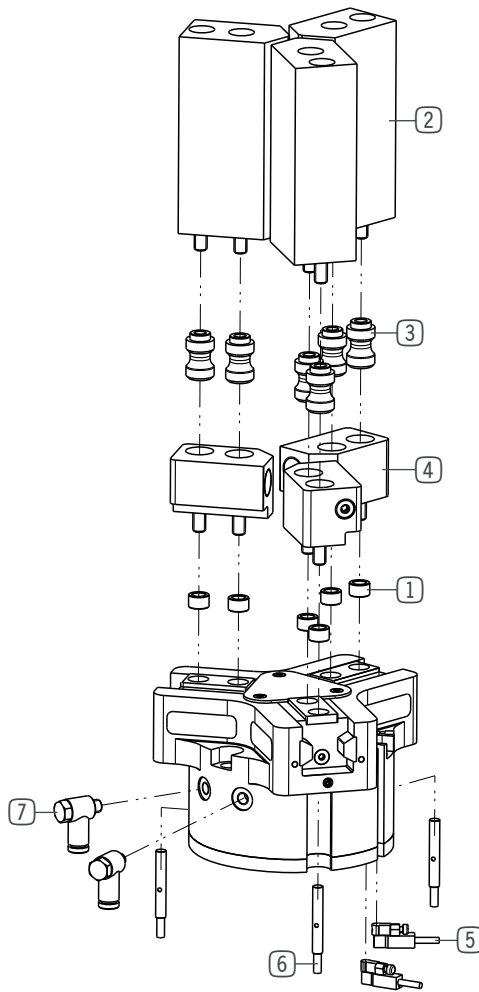


3-JAW CONCENTRIC GRIPPERS

INSTALLATION SIZE GPD5010

1

Installation size GPD5010 / 3-Jaw Concentric Grippers / pneumatic / Grippers



▶ INCLUDED IN DELIVERY



Centering Disc

018187

▶ RECOMMENDED ACCESSORIES



Universal jaw aluminium

UB5010AL



Universal jaw steel

UB5010ST



Aluminum adjustment jaw

EB5010AL



Steel adjustment jaw

EB5010ST



Changeable jaw, loose-part-set

WB5010L



Changeable jaw, fix-part

WB5010F



Pressure piece N / S

ADS5010-01



Pressure piece NC / NO / SC / SO

ADS5010-02



Inductive Proximity Switch Cable 0,3 m - Connector M8

NJ4-E2SK-01



Magnetic field sensor Angled Cable 0,3 m - Connector M8

MFS103SKHC



Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



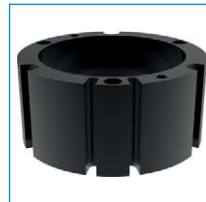
2-Position-Sensor Cable 0,3 m - Connector M8

MFSP2SKHC-02



Angled Fittings - Quick Connect Style

WV1-8X6



Compensation module N / S

ZUB5010DNS

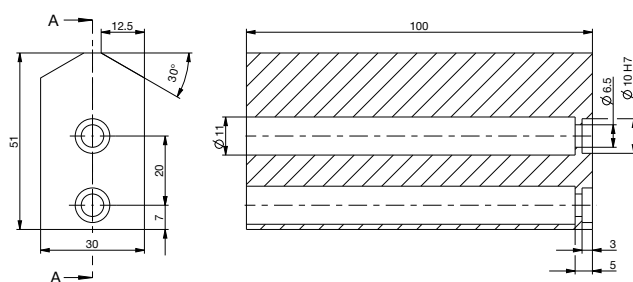


Compensation module NC / NO / SC / SO

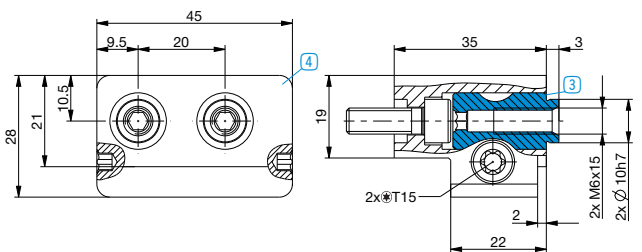
ZUB5010DCO

▶ TECHNICAL DRAWINGS ACCESSORIES

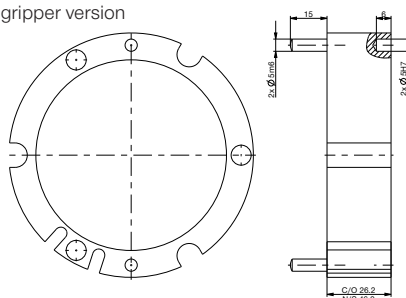
One universal jaw is required for each gripper jaw ⁽²⁾



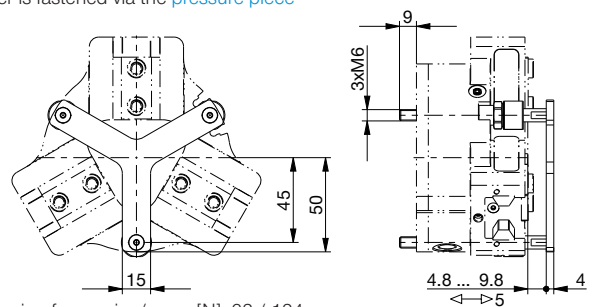
For each gripper jaw, one interchangeable jaw loose part set ⁽³⁾ and one interchangeable jaw fixed part ⁽⁴⁾ are needed



Compensation module for compensating for the height differences between the pneumatic and electric gripper version



Gripper is fastened via the pressure piece



Total spring force min. / max. [N]: 62 / 124

3-JAW CONCENTRIC GRIPPERS

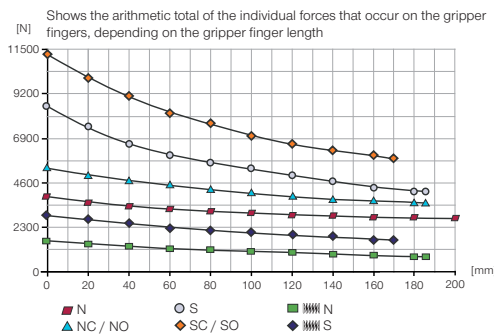
INSTALLATION SIZE GPD5013

1

PRODUCT SPECIFICATIONS

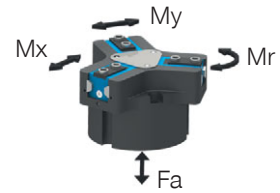


Gripping force diagram



Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	110
Mx [Nm]	150
My [Nm]	130
Fa [N]	3300

TECHNICAL DATA

Technical Data*

Order no.	GPD5013N-00-A	GPD5013NC-00-A	GPD5013NO-00-A	GPD5013S-00-A	GPD5013SC-00-A	GPD5013SO-00-A
Stroke per jaw [mm]	13	13	13	6	6	6
Gripping force in closing [N]	3770	5060		8310	11160	
Gripping force in opening [N]	3910		5200	8600		11450
Gripping force secured by spring min. [N]		1290	1290		2850	2850
Closing time [s]	0.19	0.15	0.25	0.19	0.15	0.25
Opening time [s]	0.19	0.25	0.15	0.19	0.25	0.15
Permissible weight per jaw max [kg]	2.4	2.4	2.4	2.4	2.4	2.4
Length of the gripper fingers max. [mm]	200	185	185	185	170	170
Repetition accuracy +/- [mm]	0.01	0.01	0.01	0.01	0.01	0.01
Operating pressure min. [bar]	3	4	4	3	4	4
Operating pressure max. [bar]	8	7	7	8	7	7
Operating temperature [°C]	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90
Air volume per cycle [cm³]	230	415	415	230	415	415
Protection to IEC 60529	IP64	IP64	IP64	IP64	IP64	IP64
Weight [kg]	2.6	3.7	3.7	2.6	3.7	3.7

Technical Data - High Temperature Version

Order no.	GPD5013N-20-A	GPD5013NC-20-A	GPD5013NO-20-A	GPD5013S-20-A	GPD5013SC-20-A	GPD5013SO-20-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130

Technical Data - Protector Version

Order no.	GPD5013N-21-A	GPD5013NC-21-A	GPD5013NO-21-A	GPD5013S-21-A	GPD5013SC-21-A	GPD5013SO-21-A
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	3.15	4.3	4.3	3.15	4.3	4.3

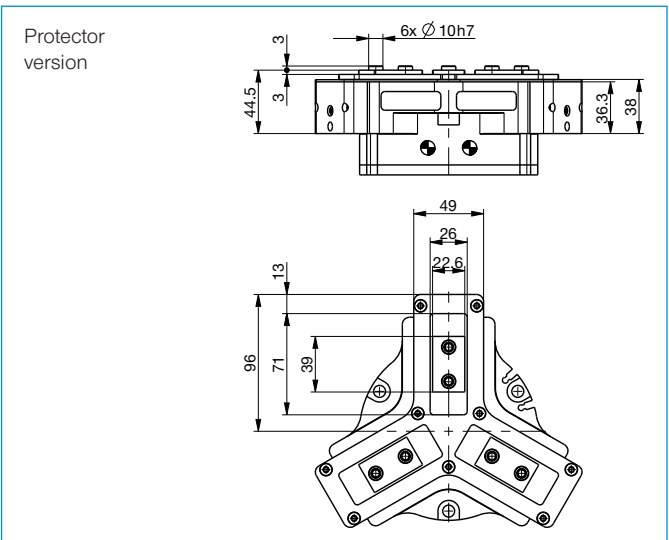
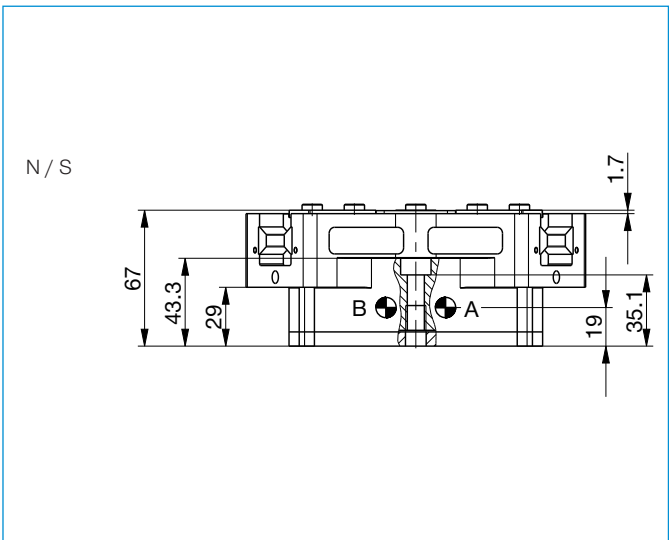
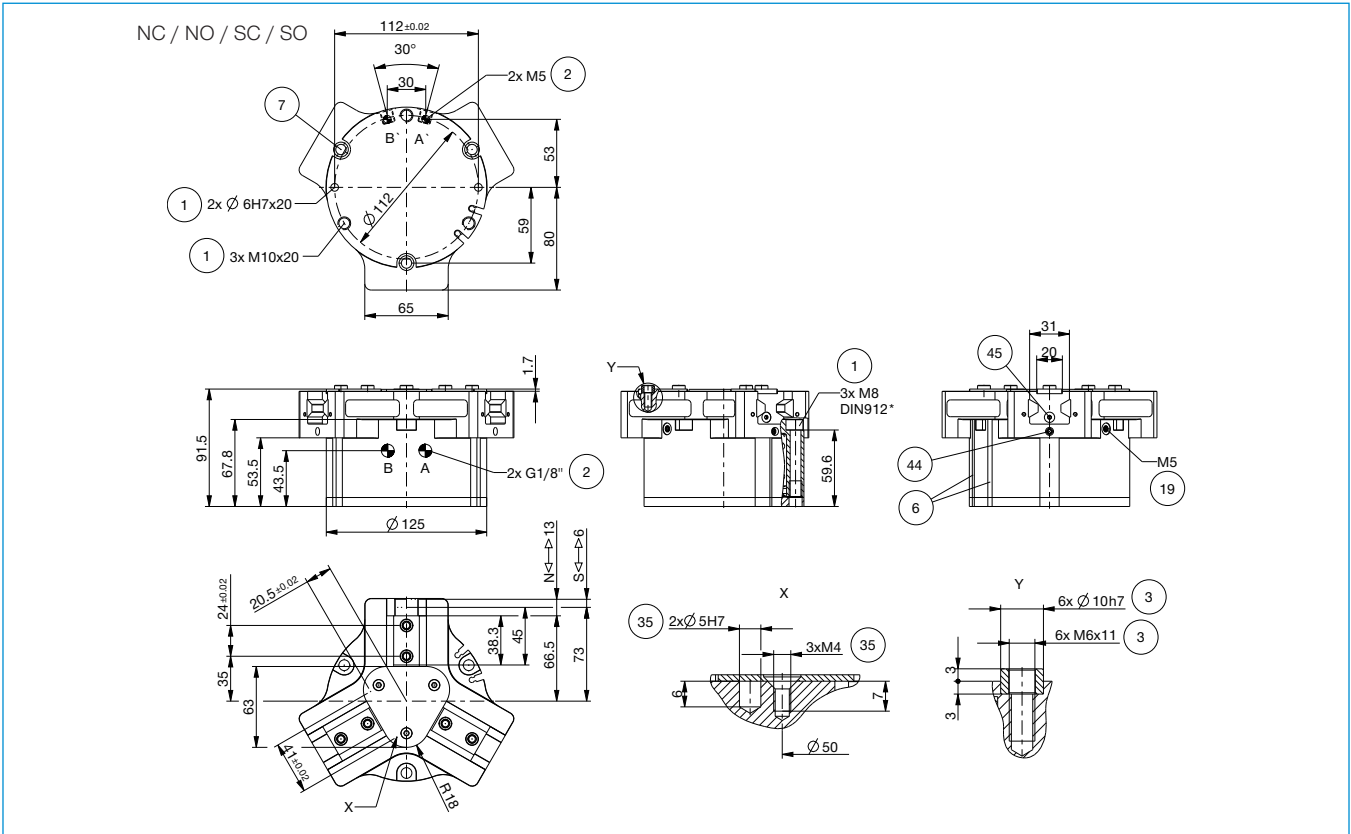
Technical Data - High Temperature Protector Version

Order no.	GPD5013N-24-A	GPD5013NC-24-A	GPD5013NO-24-A	GPD5013S-24-A	GPD5013SC-24-A	GPD5013SO-24-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	3.15	4.3	4.3	3.15	4.3	4.3

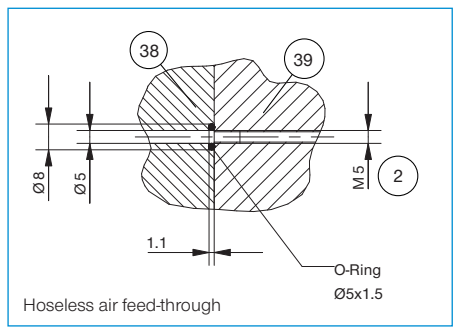
*All data measured at 6 bar

** with purged air (max. 0,5 bar)

▶ TECHNICAL DRAWINGS



- ① Gripper attachment
- ② Energy supply
- ③ Fixing for gripper finger
- ⑥ Integrated slot for magnetic field sensor
- ⑦ Mounting block
- ⑱ Air purge connection option
- ⑳ Attachment option for customer-specific fittings
- ㉔ Adapter
- ㉙ Gripper
- ㉚ Clamp for sensor
- ㉛ Switch cam adjustment
- Ⓐ Air connection (close)
- Ⓑ Air connection (open)
- Ⓐ Air connection, alternative (close)
- Ⓑ Air connection, alternative (open)

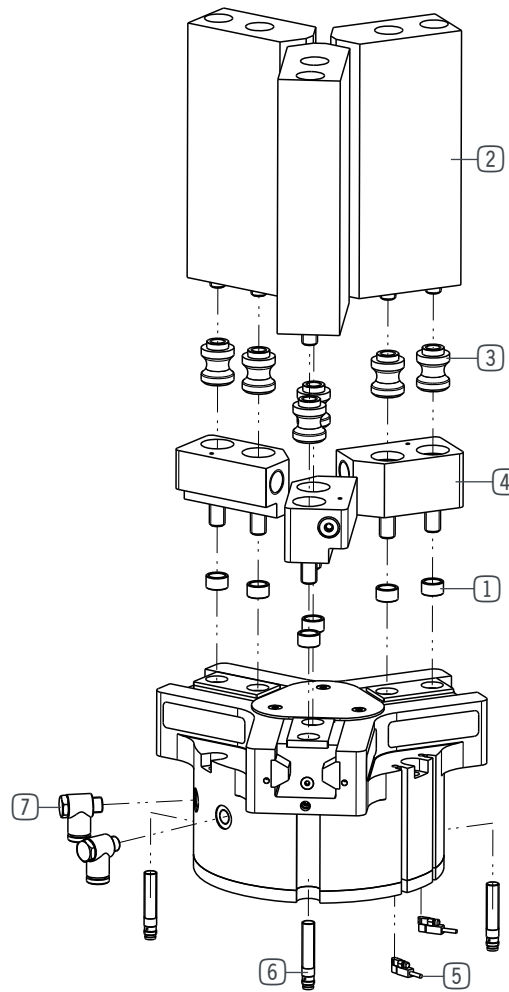


3-JAW CONCENTRIC GRIPPERS

INSTALLATION SIZE GPD5013

1

Installation size GPD5013 / 3-Jaw Concentric Grippers / pneumatic / Grippers



▶ INCLUDED IN DELIVERY



Centering Disc

018187

▶ RECOMMENDED ACCESSORIES



Universal jaw aluminium

UB5013AL



Universal jaw steel

UB5013ST



Aluminum adjustment jaw

EB5013AL



Steel adjustment jaw

EB5013ST



Changeable jaw, loose-part-set

WB5013L



Changeable jaw, fix-part

WB5013F



Pressure piece N / S

ADS5013-01



Pressure piece NC / NO / SC / SO

ADS5013-02



Inductive proximity switch - Connector M8

NJ8-E2S



Magnetic field sensor Angled Cable 0,3 m - Connector M8

MFS103SKHC



Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



2-Position-Sensor Cable 0,3 m - Connector M8

MFSP2SKHC-02



Plug-in connector Straight Cable 5m - Socket M8 (female)

KAG500



Angled Fittings - Quick Connect Style

WV1-8X6

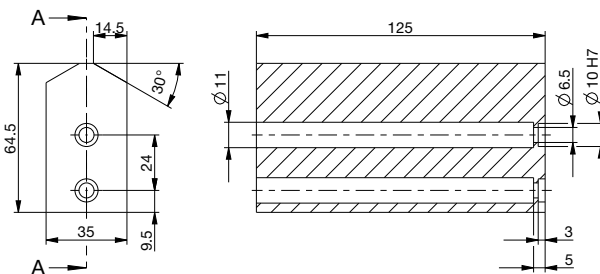


Pressure Safety Valve

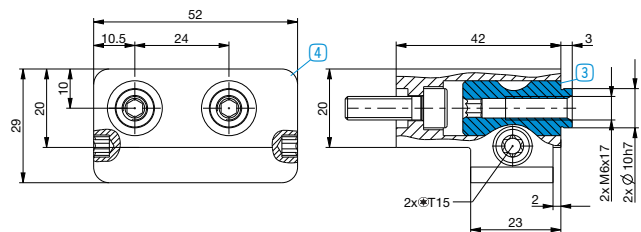
DSV1-8

▶ TECHNICAL DRAWINGS ACCESSORIES

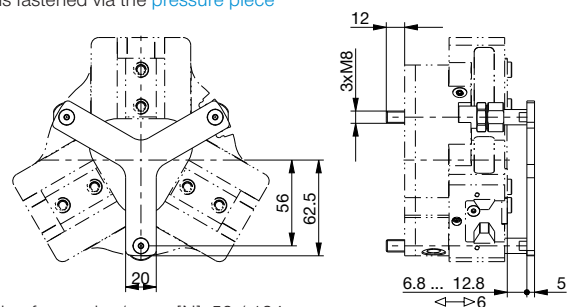
One universal jaw is required for each gripper jaw ⁽²⁾
A-A



For each gripper jaw, one interchangeable jaw loose part set ⁽³⁾ and one interchangeable jaw fixed part ⁽⁴⁾ are needed



Gripper is fastened via the pressure piece



Total spring force min. / max. [N]: 50 / 124

3-JAW CONCENTRIC GRIPPERS

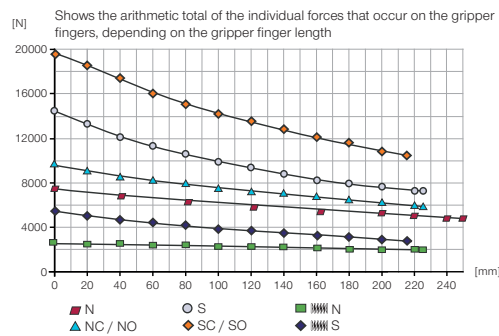
INSTALLATION SIZE GPD5016

1

PRODUCT SPECIFICATIONS

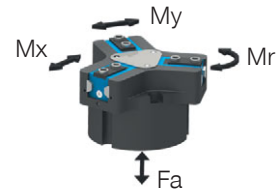


Gripping force diagram



Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	145
Mx [Nm]	195
My [Nm]	185
Fa [N]	5200

TECHNICAL DATA

Technical Data*

Order no.	GPD5016N-00-A	GPD5016NC-00-A	GPD5016NO-00-A	GPD5016S-00-A	GPD5016SC-00-A	GPD5016SO-00-A
Stroke per jaw [mm]	16	16	16	8	8	8
Gripping force in closing [N]	6870	9240		14700	19780	
Gripping force in opening [N]	7120		9490	15250		20330
Gripping force secured by spring min. [N]		2370	2370		5080	5080
Closing time [s]	0.4	0.3	0.5	0.4	0.3	0.5
Opening time [s]	0.4	0.5	0.3	0.4	0.5	0.3
Permissible weight per jaw max [kg]	3.8	3.8	3.8	3.8	3.8	3.8
Length of the gripper fingers max. [mm]	245	225	225	225	215	215
Repetition accuracy +/- [mm]	0.02	0.02	0.02	0.02	0.02	0.02
Operating pressure min. [bar]	3	4	4	3	4	4
Operating pressure max. [bar]	8	7	7	8	7	7
Operating temperature [°C]	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90
Air volume per cycle [cm³]	525	925	925	525	925	925
Protection to IEC 60529	IP64	IP64	IP64	IP64	IP64	IP64
Weight [kg]	6.3	8.1	8.1	6.3	8.1	8.1

Technical Data - High Temperature Version

Order no.	GPD5016N-20-A	GPD5016NC-20-A	GPD5016NO-20-A	GPD5016S-20-A	GPD5016SC-20-A	GPD5016SO-20-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130

Technical Data - Protector Version

Order no.	GPD5016N-21-A	GPD5016NC-21-A	GPD5016NO-21-A	GPD5016S-21-A	GPD5016SC-21-A	GPD5016SO-21-A
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	7.4	9.2	9.2	7.4	9.2	9.2

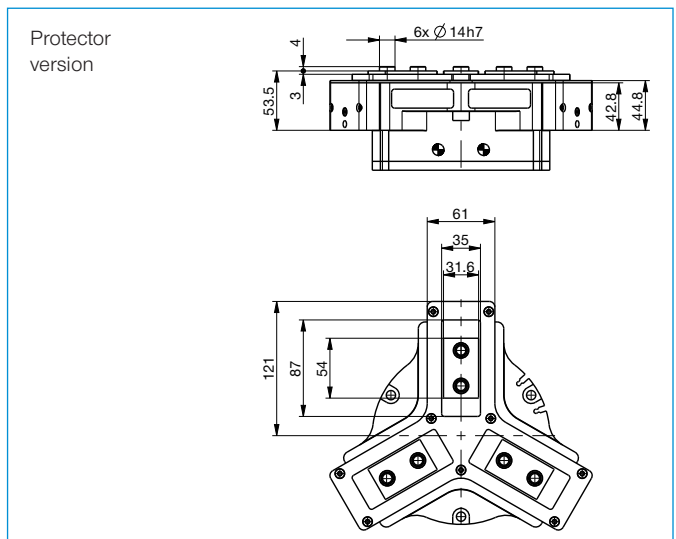
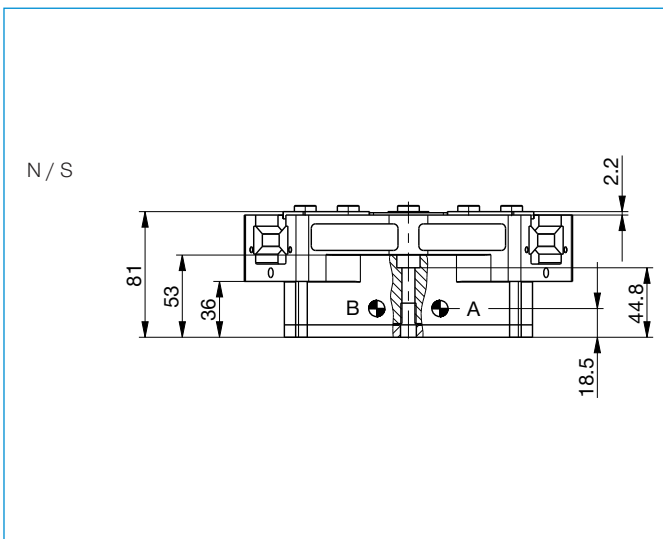
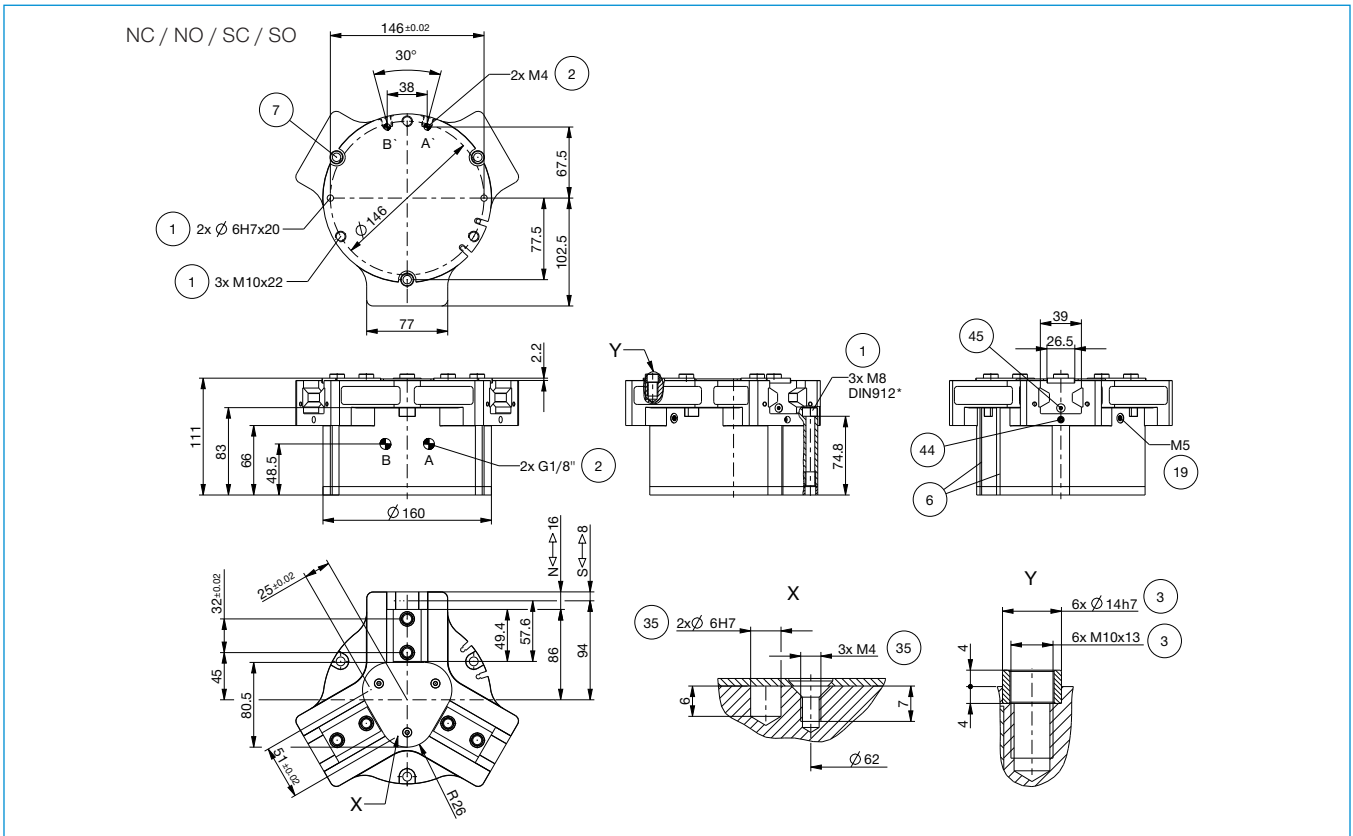
Technical Data - High Temperature Protector Version

Order no.	GPD5016N-24-A	GPD5016NC-24-A	GPD5016NO-24-A	GPD5016S-24-A	GPD5016SC-24-A	GPD5016SO-24-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	7.4	9.2	9.2	7.4	9.2	9.2

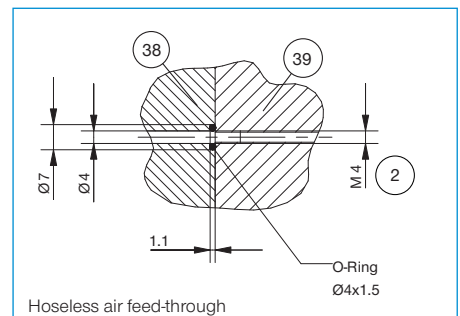
*All data measured at 6 bar

** with purged air (max. 0,5 bar)

TECHNICAL DRAWINGS



- ① Gripper attachment
- ② Energy supply
- ③ Fixing for gripper finger
- ⑥ Integrated slot for magnetic field sensor
- ⑦ Mounting block
- ⑱ Air purge connection option
- ⑳ Attachment option for customer-specific fittings
- ㉑ Adapter
- ㉒ Gripper
- ㉓ Clamp for sensor
- ㉔ Switch cam adjustment
- Ⓐ Air connection (close)
- Ⓑ Air connection (open)
- Ⓐ Air connection, alternative (close)
- Ⓑ Air connection, alternative (open)

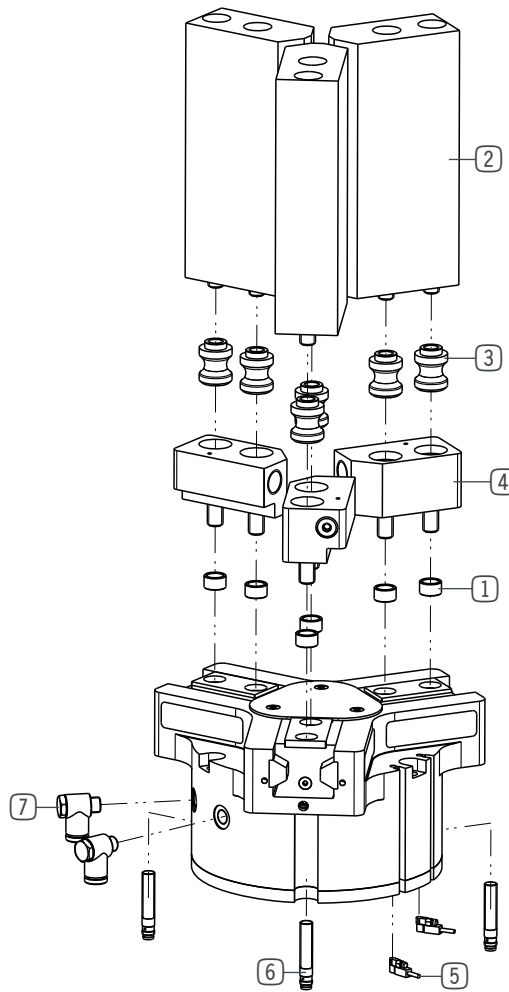


3-JAW CONCENTRIC GRIPPERS

INSTALLATION SIZE GPD5016

1

Installation size GPD5016 / 3-Jaw Concentric Grippers / pneumatic / Grippers



▶ INCLUDED IN DELIVERY



Centering Disc

019387

► RECOMMENDED ACCESSORIES



Universal jaw aluminium

UB5016AL



Universal jaw steel

UB5016ST



Aluminum adjustment jaw

EB5016AL



Steel adjustment jaw

EB5016ST



Changeable jaw, loose-part-set

WB5016L



Changeable jaw, fix-part

WB5016F



Pressure piece N / S

ADS5016-01



Pressure piece NC / NO / SC / SO

ADS5016-02



Inductive proximity switch - Connector M8

NJ8-E2S



Magnetic field sensor Angled Cable 0,3 m - Connector M8

MFS103SKHC



Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



2-Position-Sensor Cable 0,3 m - Connector M8

MFSP2SKHC-02



Plug-in connector Straight Cable 5m - Socket M8 (female)

KAG500



Angled Fittings - Quick Connect Style

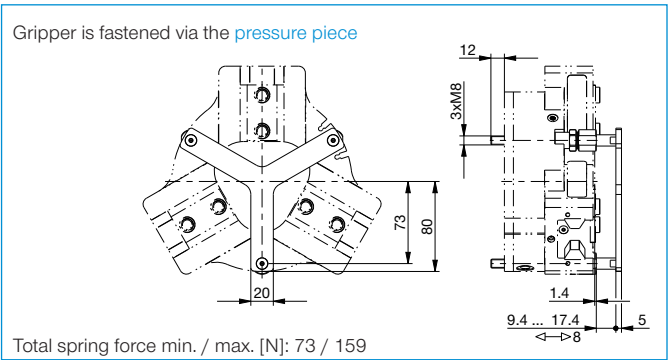
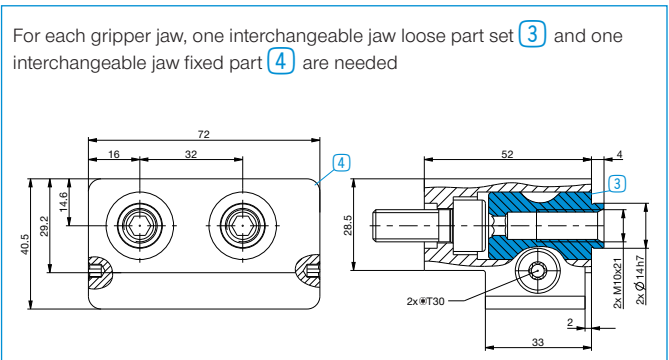
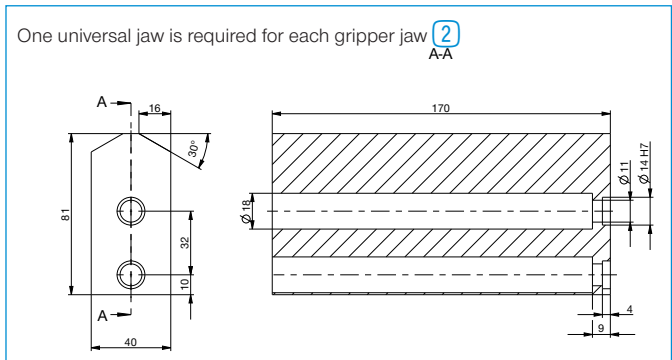
WV1-8X8



Pressure Safety Valve

DSV1-8

► TECHNICAL DRAWINGS ACCESSORIES



3-JAW CONCENTRIC GRIPPERS

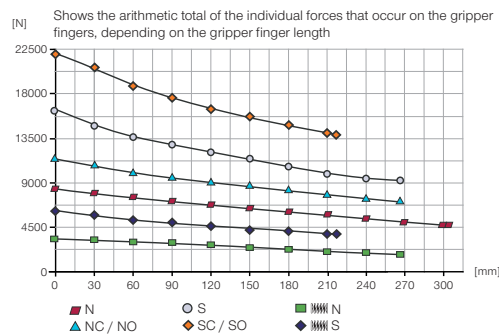
INSTALLATION SIZE GPD5025

1

PRODUCT SPECIFICATIONS

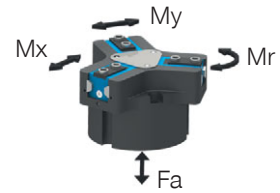


Gripping force diagram



Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	180
Mx [Nm]	205
My [Nm]	225
Fa [N]	7500

TECHNICAL DATA

Technical Data*

Order no.	GPD5025N-00-A	GPD5025NC-00-A	GPD5025NO-00-A	GPD5025S-00-A	GPD5025SC-00-A	GPD5025SO-00-A
Stroke per jaw [mm]	25	25	25	14	14	14
Gripping force in closing [N]	8430	11560		16240	22270	
Gripping force in opening [N]	8730		11860	16820		22850
Gripping force secured by spring min. [N]		3130	3130		6030	6030
Closing time [s]	0.6	0.6	1.0	0.6	0.6	1.0
Opening time [s]	0.6	1.0	0.6	0.6	1.0	0.6
Permissible weight per jaw max [kg]	7	7	7	7	7	7
Length of the gripper fingers max. [mm]	310	265	265	265	220	220
Repetition accuracy +/- [mm]	0.05	0.05	0.05	0.05	0.05	0.05
Operating pressure min. [bar]	3	4	4	3	4	4
Operating pressure max. [bar]	8	7	7	8	7	7
Operating temperature [°C]	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90
Air volume per cycle [cm³]	1025	1750	1750	1025	1750	1750
Protection to IEC 60529	IP64	IP64	IP64	IP64	IP64	IP64
Weight [kg]	11.8	15.4	15.4	11.8	15.4	15.4

Technical Data - High Temperature Version

Order no.	GPD5025N-20-A	GPD5025NC-20-A	GPD5025NO-20-A	GPD5025S-20-A	GPD5025SC-20-A	GPD5025SO-20-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130

Technical Data - Protector Version

Order no.	GPD5025N-21-A	GPD5025NC-21-A	GPD5025NO-21-A	GPD5025S-21-A	GPD5025SC-21-A	GPD5025SO-21-A
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	14	17.6	17.6	14	17.6	17.6

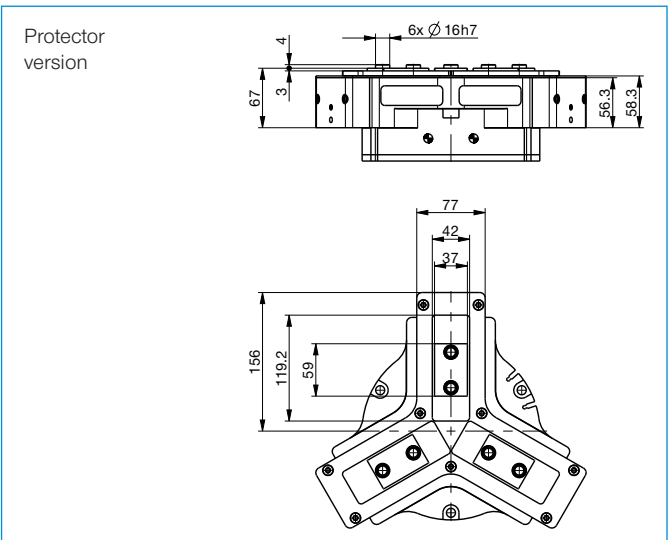
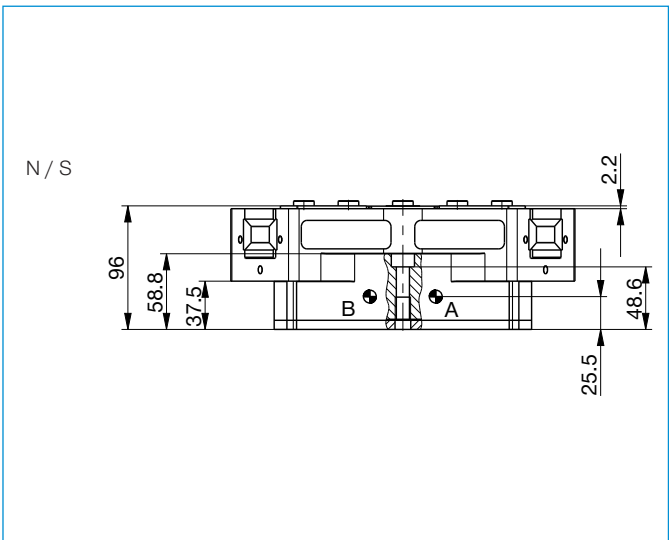
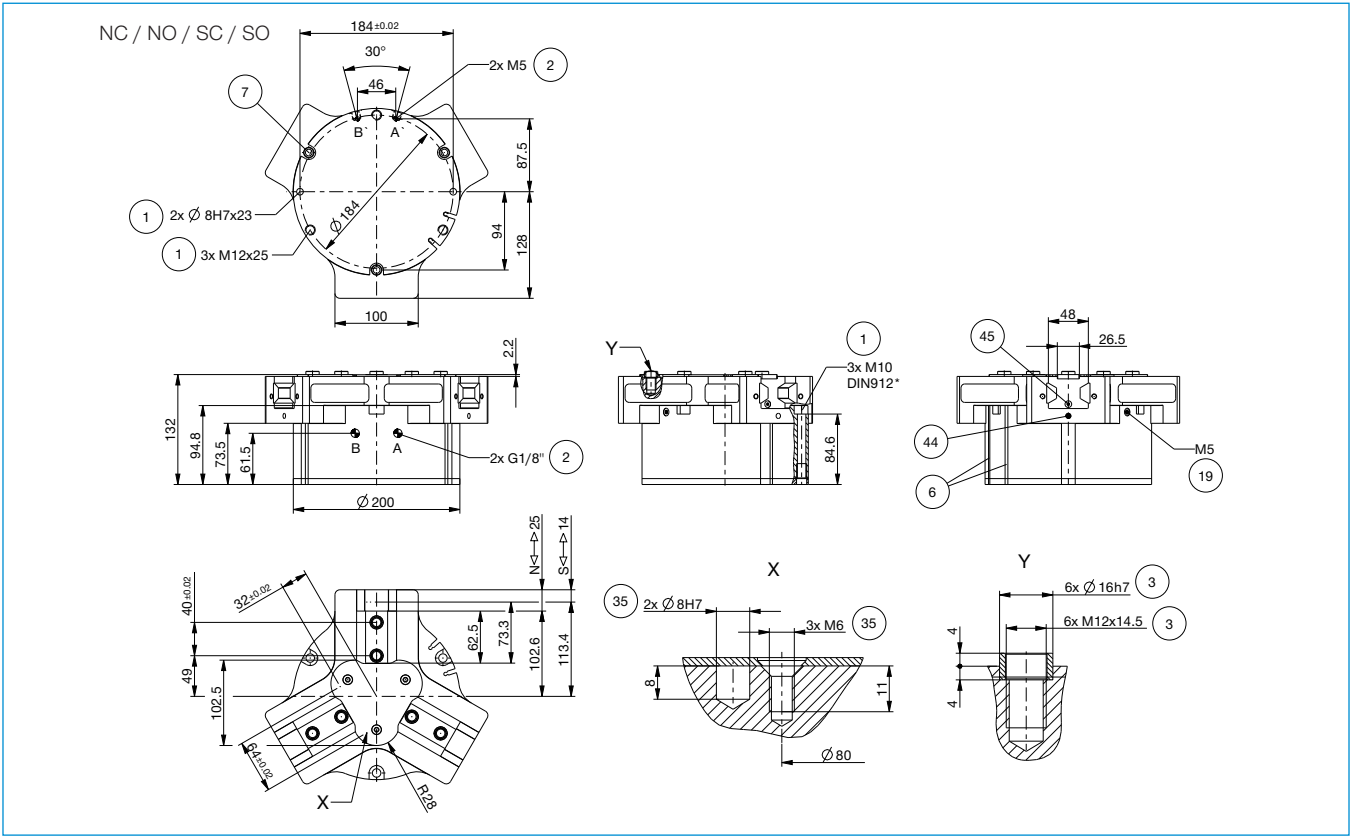
Technical Data - High Temperature Protector Version

Order no.	GPD5025N-24-A	GPD5025NC-24-A	GPD5025NO-24-A	GPD5025S-24-A	GPD5025SC-24-A	GPD5025SO-24-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	14	17.6	17.6	14	17.6	17.6

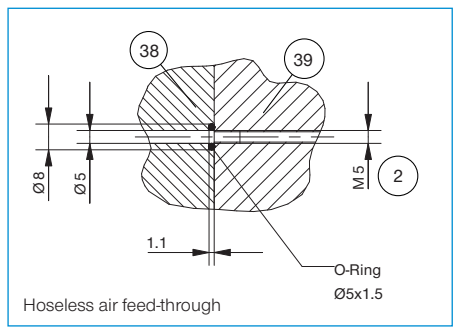
*All data measured at 6 bar

** with purged air (max. 0,5 bar)

▶ TECHNICAL DRAWINGS



- ① Gripper attachment
- ② Energy supply
- ③ Fixing for gripper finger
- ⑥ Integrated slot for magnetic field sensor
- ⑦ Mounting block
- ⑱ Air purge connection option
- ⑳ Attachment option for customer-specific fittings
- ㉔ Adapter
- ㉙ Gripper
- ㉚ Clamp for sensor
- ㉛ Switch cam adjustment
- Ⓐ Air connection (close)
- Ⓑ Air connection (open)
- Ⓒ Air connection, alternative (close)
- Ⓓ Air connection, alternative (open)

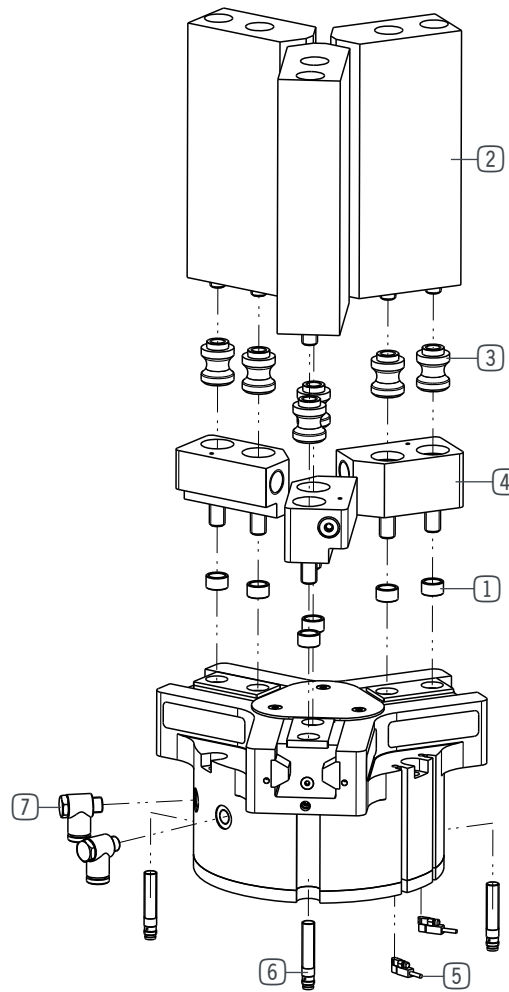


3-JAW CONCENTRIC GRIPPERS

INSTALLATION SIZE GPD5025

1

Installation size GPD5025 / 3-Jaw Concentric Grippers / pneumatic / Grippers



▶ INCLUDED IN DELIVERY



Centering Disc

030529

▶ RECOMMENDED ACCESSORIES



Universal jaw aluminium
UB5025AL



Universal jaw steel
UB5025ST



Aluminum adjustment jaw
EB5025AL



Steel adjustment jaw
EB5025ST



Changeable jaw, loose-part-set
WB5025L



Changeable jaw, fix-part
WB5025F



Pressure piece N / S
ADS5025-01



Pressure piece NC / NO / SC / SO
ADS5025-02



Inductive proximity switch - Connector M8
NJ8-E2S



Magnetic field sensor Angled Cable 0,3 m - Connector M8
MFS103SKHC



Magnetic field sensor Straight Cable 0,3 m - Connector M8
MFS204SKHC



2-Position-Sensor Cable 0,3 m - Connector M8
MFSP2SKHC-02



Plug-in connector Straight Cable 5m - Socket M8 (female)
KAG500

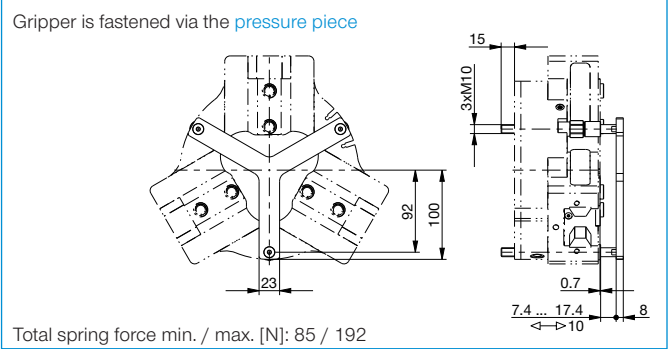
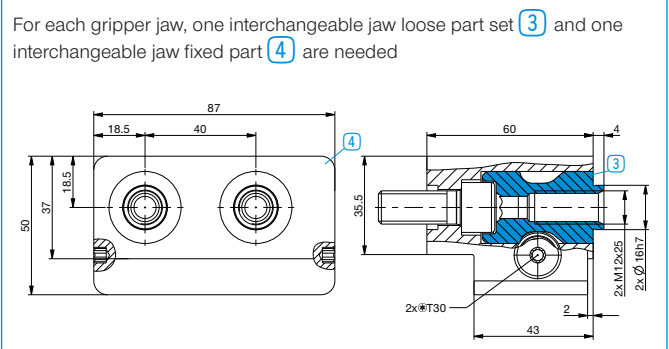
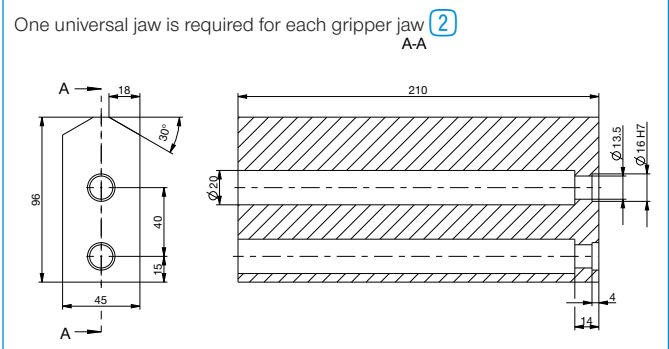


Angled Fittings - Quick Connect Style
WV1-8X8



Pressure Safety Valve
DSV1-8

▶ TECHNICAL DRAWINGS ACCESSORIES



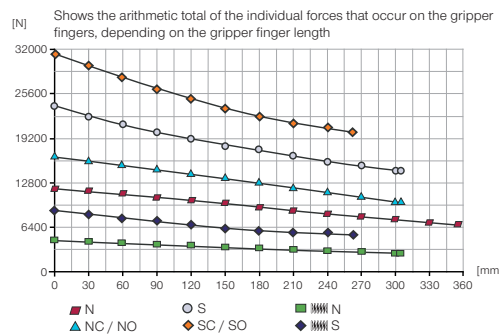
3-JAW CONCENTRIC GRIPPERS

INSTALLATION SIZE GPD5030

PRODUCT SPECIFICATIONS

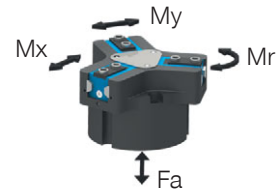


Gripping force diagram



Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	210
Mx [Nm]	290
My [Nm]	310
Fa [N]	9500

TECHNICAL DATA

Technical Data*

Order no.	GPD5030N-00-A	GPD5030NC-00-A	GPD5030NO-00-A	GPD5030S-00-A	GPD5030SC-00-A	GPD5030SO-00-A
Stroke per jaw [mm]	30	30	30	17	17	17
Gripping force in closing [N]	12130	16560		23150	31620	
Gripping force in opening [N]	12540		16970	23930		32400
Gripping force secured by spring min. [N]		4430	4430		8470	8470
Closing time [s]	1.13	1.0	1.9	1.13	1.0	1.9
Opening time [s]	1.13	1.9	1.0	1.13	1.9	1.0
Permissible weight per jaw max [kg]	9.5	9.5	9.5	9.5	9.5	9.5
Length of the gripper fingers max. [mm]	355	305	305	305	260	260
Repetition accuracy +/- [mm]	0.05	0.05	0.05	0.05	0.05	0.05
Operating pressure min. [bar]	3	4	4	3	4	4
Operating pressure max. [bar]	8	7	7	8	7	7
Operating temperature [°C]	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90
Air volume per cycle [cm³]	1780	3000	3000	1780	3000	3000
Protection to IEC 60529	IP64	IP64	IP64	IP64	IP64	IP64
Weight [kg]	21	27.5	27.5	21	27.5	27.5

Technical Data - High Temperature Version

Order no.	GPD5030N-20-A	GPD5030NC-20-A	GPD5030NO-20-A	GPD5030S-20-A	GPD5030SC-20-A	GPD5030SO-20-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130

Technical Data - Protector Version

Order no.	GPD5030N-21-A	GPD5030NC-21-A	GPD5030NO-21-A	GPD5030S-21-A	GPD5030SC-21-A	GPD5030SO-21-A
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	24	30.5	30.5	24	30.5	30.5

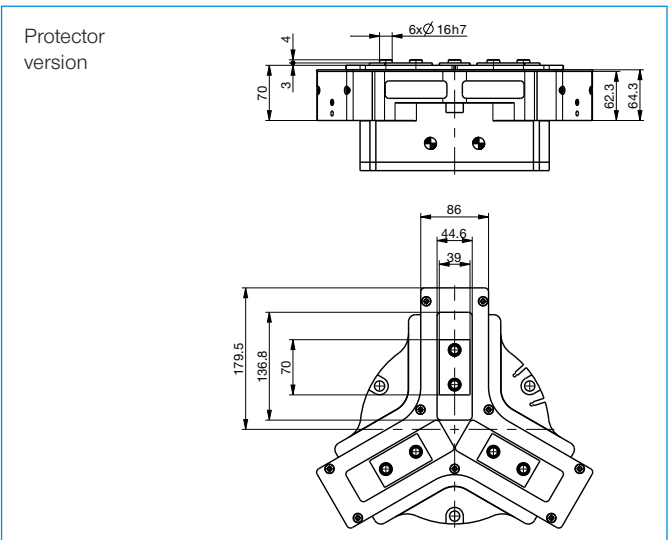
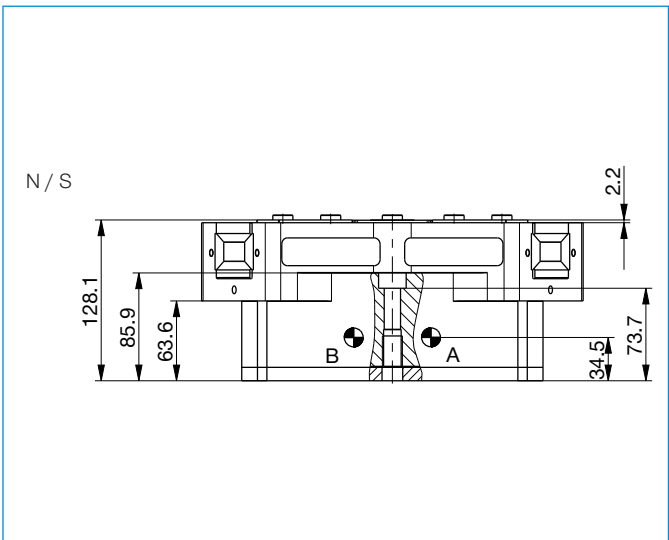
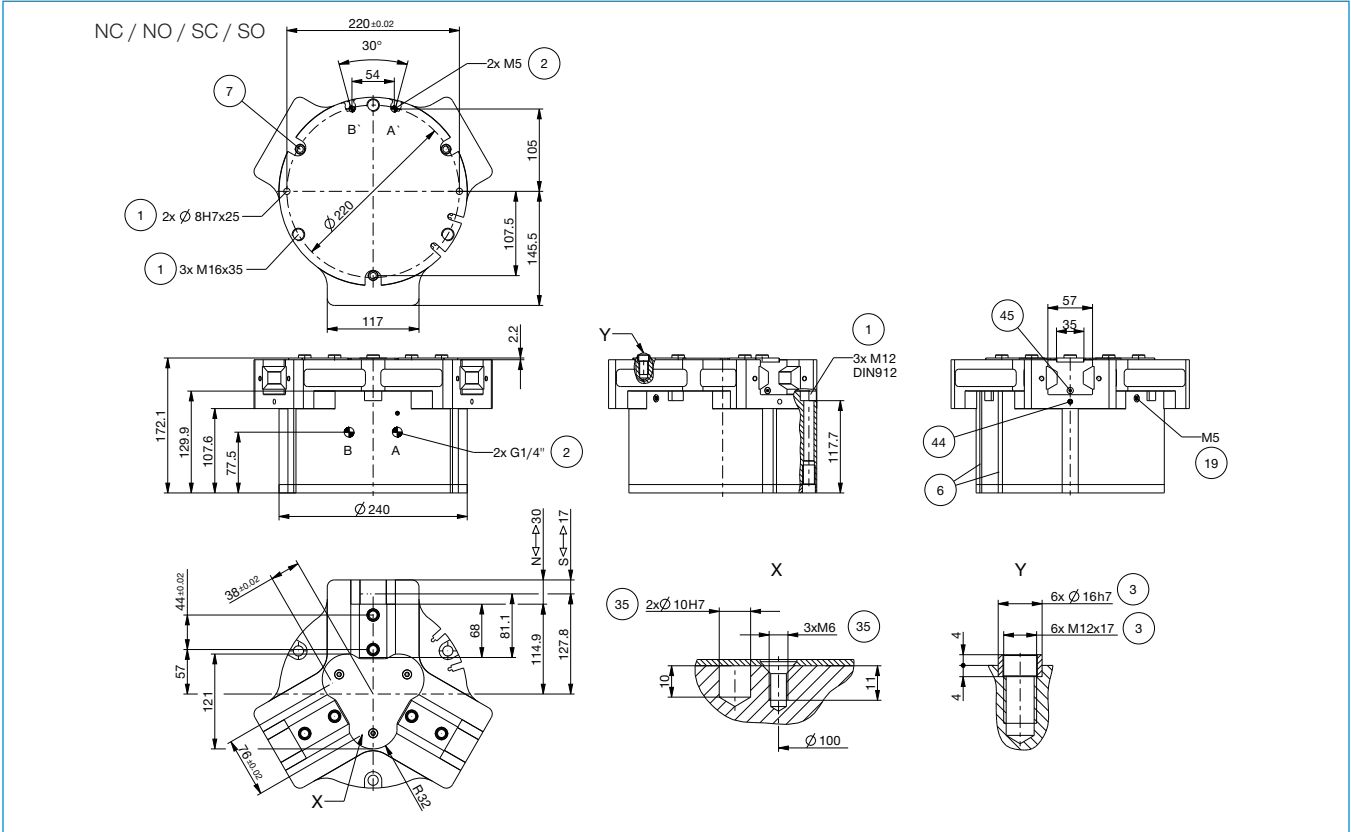
Technical Data - High Temperature Protector Version

Order no.	GPD5030N-24-A	GPD5030NC-24-A	GPD5030NO-24-A	GPD5030S-24-A	GPD5030SC-24-A	GPD5030SO-24-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	24	30.5	30.5	24	30.5	30.5

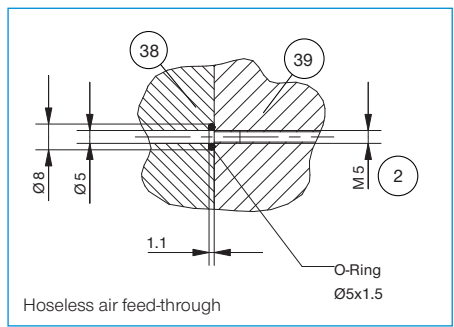
*All data measured at 6 bar

** with purged air (max. 0,5 bar)

▶ TECHNICAL DRAWINGS



- ① Gripper attachment
- ② Energy supply
- ③ Fixing for gripper finger
- ④ Integrated slot for magnetic field sensor
- ⑤ Mounting block
- ⑥ Air purge connection option
- ⑦ Attachment option for customer-specific fittings
- ⑧ Adapter
- ⑨ Gripper
- ⑩ Clamp for sensor
- ⑪ Switch cam adjustment
- ⑫ Air connection (close)
- ⑬ Air connection (open)
- ⑭ Air connection, alternative (close)
- ⑮ Air connection, alternative (open)

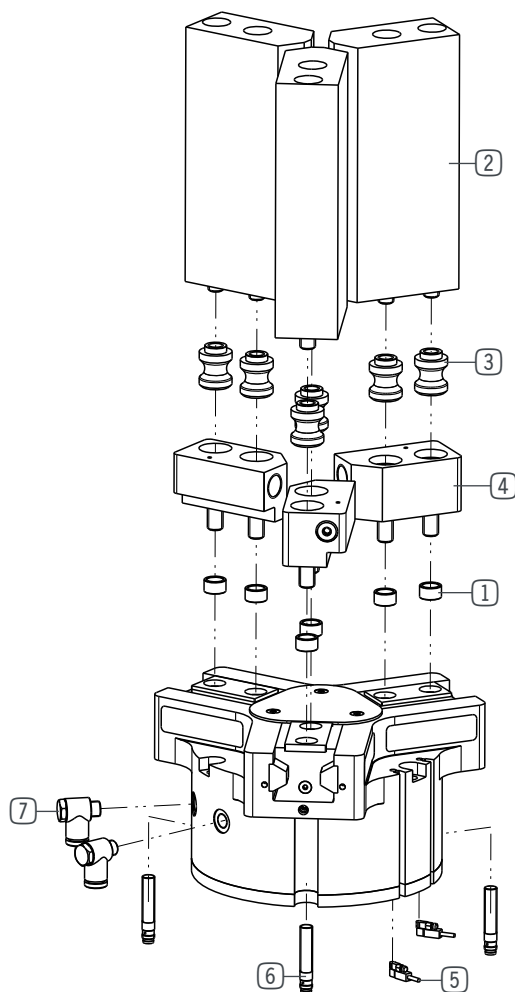


3-JAW CONCENTRIC GRIPPERS

INSTALLATION SIZE GPD5030

1

Installation size GPD5030 / 3-Jaw Concentric Grippers / pneumatic / Grippers



▶ INCLUDED IN DELIVERY



Centering Disc

030529

▶ RECOMMENDED ACCESSORIES



Universal jaw aluminium

UB5030AL



Universal jaw steel

UB5030ST



Aluminum adjustment jaw

EB5030AL



Steel adjustment jaw

EB5030ST



Changeable jaw, loose-part-set

WB5030L



Changeable jaw, fix-part

WB5030F



Pressure piece N / S

ADS5030-01



Pressure piece NC / NO / SC / SO

ADS5030-02



Inductive proximity switch - Connector M8

NJ8-E2S



Magnetic field sensor Angled Cable 0,3 m - Connector M8

MFS103SKHC



Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



2-Position-Sensor Cable 0,3 m - Connector M8

MFSP2SKHC-02



Plug-in connector Straight Cable 5m - Socket M8 (female)

KAG500



Angled Fittings - Quick Connect Style

WV1-4X8

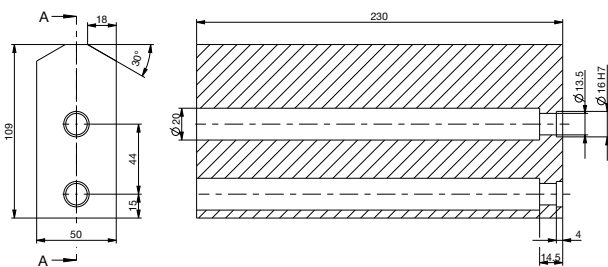


Pressure Safety Valve

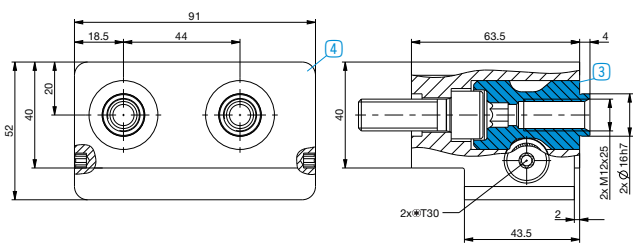
DSV1-8

▶ TECHNICAL DRAWINGS ACCESSORIES

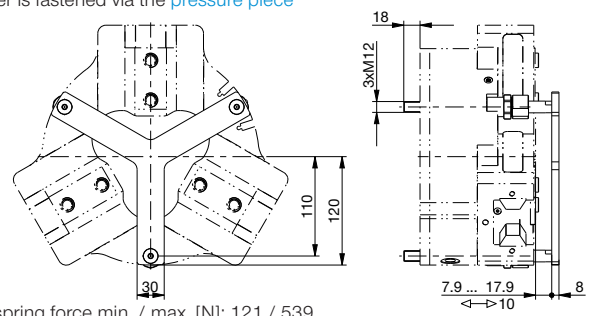
One universal jaw is required for each gripper jaw **2**



For each gripper jaw, one interchangeable jaw loose part set **3** and one interchangeable jaw fixed part **4** are needed



Gripper is fastened via the pressure piece



Total spring force min. / max. [N]: 121 / 539

3-JAW CONCENTRIC GRIPPERS

INSTALLATION SIZE GPD5035

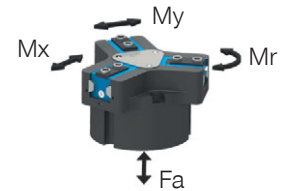
COMING
SOON

▶ PRODUCT SPECIFICATIONS



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	260
Mx [Nm]	430
My [Nm]	450
Fa [N]	10400

▶ TECHNICAL DATA

Order no.	▶ Technical Data*					
	GPD5035N-00-A	GPD5035NC-00-A	GPD5035NO-00-A	GPD5035S-00-A	GPD5035SC-00-A	GPD5035SO-00-A
Stroke per jaw [mm]	35	35	35	20	20	20
Gripping force in closing [N]	16600	23300		31500	44200	
Gripping force in opening [N]	17100		23800	32500		45200
Gripping force secured by spring min. [N]		6700	6700		12700	12700
Closing time [s]	1.2	1.1	2.3	1.2	1.1	2.3
Opening time [s]	1.2	2.3	1.2	1.2	2.3	1.2
Permissible weight per jaw max [kg]	12.5	12.5	12.5	12.5	12.5	12.5
Length of the gripper fingers max. [mm]	250	225	225	225	200	200
Repetition accuracy +/- [mm]	0.05	0.05	0.05	0.05	0.05	0.05
Operating pressure min. [bar]	3	4	4	3	4	4
Operating pressure max. [bar]	8	6.5	6.5	8	6.5	6.5
Operating temperature [°C]	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90
Air volume per cycle [cm³]	2904	5477	5477	2904	5477	5477
Protection to IEC 60529	IP64	IP64	IP64	IP64	IP64	IP64
Weight [kg]	37.8	42	42	37.8	42	42

Order no.	▶ Technical Data - High Temperature Version					
	GPD5035N-20-A	GPD5035NC-20-A	GPD5035NO-20-A	GPD5035S-20-A	GPD5035SC-20-A	GPD5035SO-20-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130

Order no.	▶ Technical Data - Protector Version					
	GPD5035N-21-A	GPD5035NC-21-A	GPD5035NO-21-A	GPD5035S-21-A	GPD5035SC-21-A	GPD5035SO-21-A
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	43.8	48	48	43.8	48	48

Order no.	▶ Technical Data - High Temperature Protector Version					
	GPD5035N-24-A	GPD5035NC-24-A	GPD5035NO-24-A	GPD5035S-24-A	GPD5035SC-24-A	GPD5035SO-24-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	43.8	48	48	43.8	48	48

*All data measured at 6 bar

** with purged air (max. 0,5 bar)

3-JAW CONCENTRIC GRIPPERS

INSTALLATION SIZE GPD5045

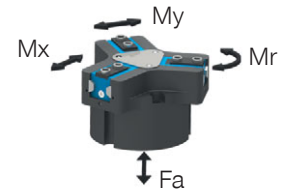
COMING
SOON

▶ PRODUCT SPECIFICATIONS



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	390
Mx [Nm]	580
My [Nm]	600
Fa [N]	11500

▶ TECHNICAL DATA

Order no.	▶ Technical Data*					
	GPD5045N-00-A	GPD5045NC-00-A	GPD5045NO-00-A	GPD5045S-00-A	GPD5045SC-00-A	GPD5045SO-00-A
Stroke per jaw [mm]	45	45	45	26	26	26
Gripping force in closing [N]	27900	36900		53500	70600	
Gripping force in opening [N]	28850		37850	55400		72500
Gripping force secured by spring min. [N]		9000	9000		17100	17100
Closing time [s]	2.0	1.7	2.8	2.0	1.7	2.8
Opening time [s]	2.0	2.8	1.7	2.0	2.8	1.7
Permissible weight per jaw max [kg]	12.5	12.5	12.5	12.5	12.5	12.5
Length of the gripper fingers max. [mm]	250	225	225	225	200	200
Repetition accuracy +/- [mm]	0.05	0.05	0.05	0.05	0.05	0.05
Operating pressure min. [bar]	3	4	4	3	4	4
Operating pressure max. [bar]	8	6.5	6.5	8	6.5	6.5
Operating temperature [°C]	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90	-10 ... +90
Air volume per cycle [cm³]	6500	12400	12400	6500	12400	12400
Protection to IEC 60529	IP64	IP64	IP64	IP64	IP64	IP64
Weight [kg]	78.6	86.5	86.5	80	88	88

Order no.	▶ Technical Data - High Temperature Version					
	GPD5045N-20-A	GPD5045NC-20-A	GPD5045NO-20-A	GPD5045S-20-A	GPD5045SC-20-A	GPD5045SO-20-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130

Order no.	▶ Technical Data - Protector Version					
	GPD5045N-21-A	GPD5045NC-21-A	GPD5045NO-21-A	GPD5045S-21-A	GPD5045SC-21-A	GPD5045SO-21-A
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	90.5	98.4	98.4	91.9	99.9	99.9

Order no.	▶ Technical Data - High Temperature Protector Version					
	GPD5045N-24-A	GPD5045NC-24-A	GPD5045NO-24-A	GPD5045S-24-A	GPD5045SC-24-A	GPD5045SO-24-A
Operating temperature [°C]	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130	-10 ... +130
Protection to IEC 60529	IP67**	IP67**	IP67**	IP67**	IP67**	IP67**
Weight [kg]	90.5	98.4	98.4	91.9	99.9	99.9

*All data measured at 6 bar

** with purged air (max. 0,5 bar)

3-JAW CONCENTRIC GRIPPERS

OVERVIEW OF SERIES

1

Overview of Series / 3-Jaw Concentric Grippers



▶ ELECTRICAL

	Series GED1300	336
	Series GED5000	342

3-JAW CONCENTRIC GRIPPERS

SERIES GED1300

1

Series GED1300 / 3-Jaw Concentric Grippers / electric / Grippers

▶ PRODUCT ADVANTAGES



“The robust”

▶ Proven T slot guide

This established and proven guiding technology stands for the highest process reliability like no other

▶ Integrated position sensing

You can detect the gripper status safely via the motor current using your control system

▶ The simplest activation

The included control unit is controlled easily via plus and minus buttons, while you can optionally adjust the gripping force using the potentiometer

▶ THE BEST PRODUCT FOR YOUR APPLICATION



▶ Our products love the challenge!

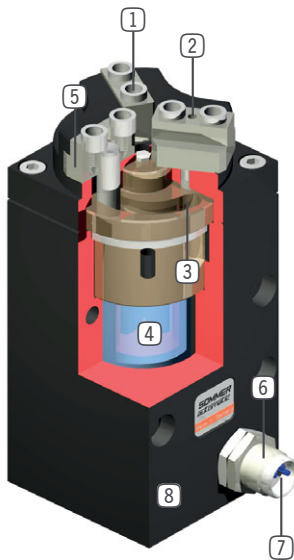
Extreme conditions, all over the world—our tried and tested components and systems give you limitless possibilities:

Find the best product for your specific use:

www.zimmer-group.com



► BENEFITS IN DETAIL



- ① **Removable centering sleeves**
 - quick and economical positioning of the gripper fingers
- ② **Gripper jaw**
 - hardened steel
 - individual gripper finger mounting
- ③ **Positively driven curve disc**
 - synchronized the movement of the gripper jaws
 - high force transfer
 - rapid stroke and force stroke (version with 6 mm stroke per jaw)
- ④ **Drive**
 - electric drive by 24 VDC step motor
- ⑤ **Guide**
 - precise T-Slot guide for high forces and moments capacity
- ⑥ **Position sensing**
 - measured at the end of stroke via power increase on the motor
- ⑦ **Energy supply**
 - standardized interface M8 round plug connection signal control line (use only cable without diode)
- ⑧ **Robust, lightweight housing**
 - Hard-coated aluminum alloy

► SERIES CHARACTERISTICS



Number of installation sizes	2
Stroke per jaw	2 mm - 6 mm
Gripping force	140 N - 350 N
Weight	0,25 mm - 1,7 mm
AP class	3



5 million maintenance-free cycles (max.)

IP 40

IP40

3-JAW CONCENTRIC GRIPPERS

INSTALLATION SIZE GED1302

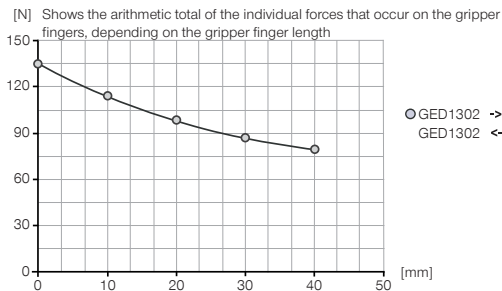
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Installation size GED1302 / 3-Jaw Concentric Grippers / electric / Grippers

▶ PRODUCT SPECIFICATIONS

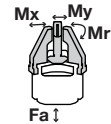


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	5
Mx [Nm]	5
My [Nm]	4
Fa [N]	120

▶ INCLUDED IN DELIVERY



Centering Disc

DST02900



Control

ELEGR01

▶ RECOMMENDED ACCESSORIES



Plug-in connector Straight
Cable 5m - Socket M8
(female)

KAG500

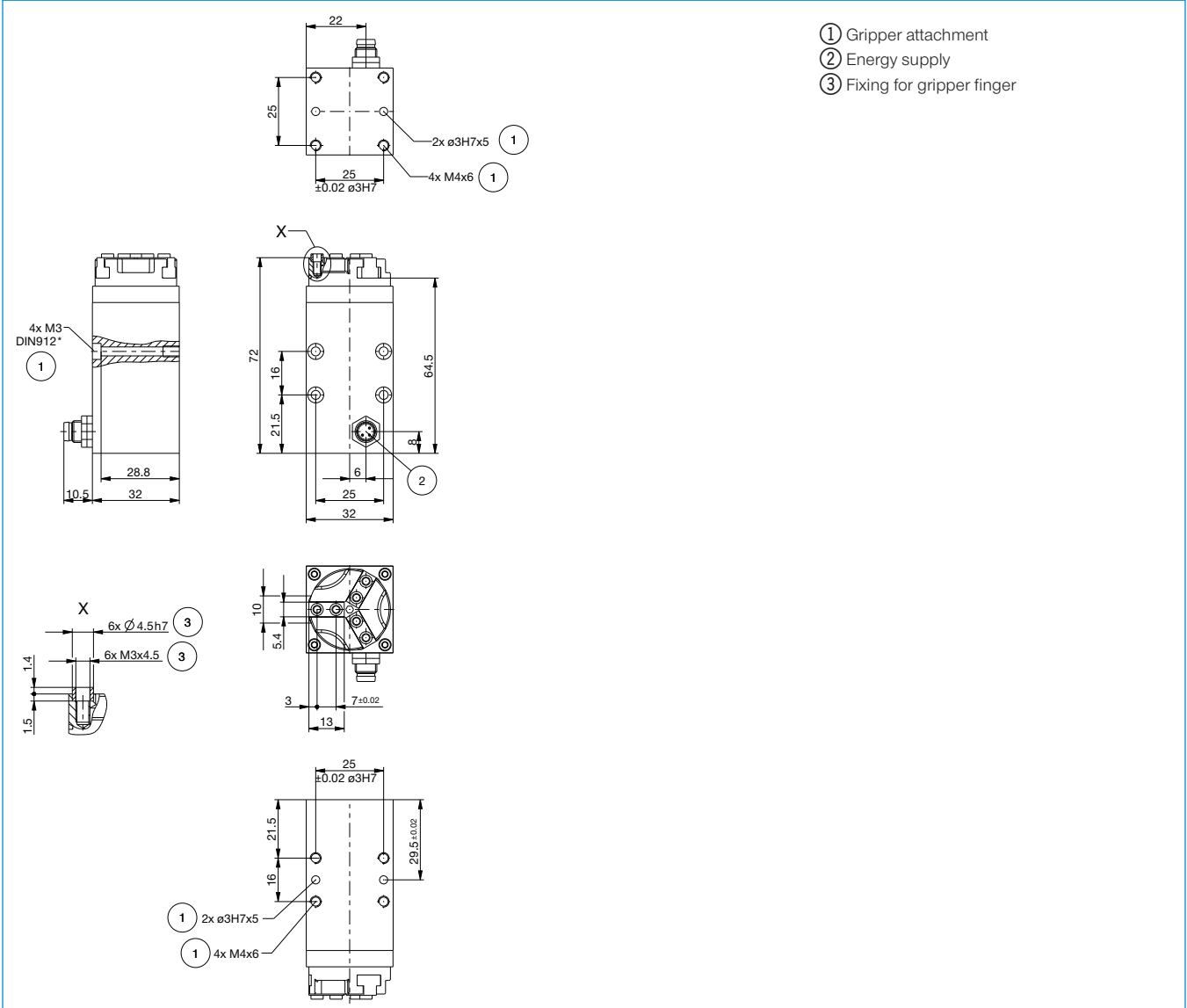


Plug-in connector Angled
Cable 5m - Socket M8
(female)

KAW500

Order no.	GED1302
Stroke per jaw [mm]	2
Gripping force in closing (adjustable) max. [N]	140
Gripping force in opening (adjustable) max. [N]	140
Closing time [s]	0.2
Opening time [s]	0.2
Repetition accuracy +/- [mm]	0.1
Voltage [V]	24
Max. current regulable by potentiometer [mA]	140
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Protection to IEC 60529	IP40
Weight [kg]	0.25

► Technical Data



3-JAW CONCENTRIC GRIPPERS

INSTALLATION SIZE GED1306

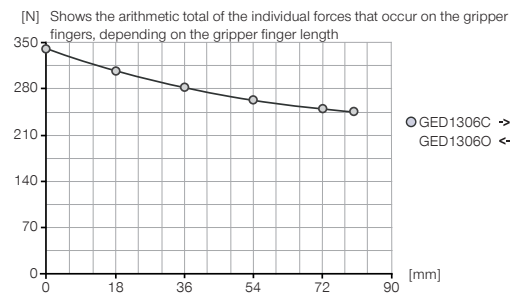
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Installation size GED1306 / 3-Jaw Concentric Grippers / electric / Grippers

▶ PRODUCT SPECIFICATIONS

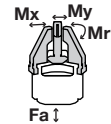


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	30
Mx [Nm]	25
My [Nm]	20
Fa [N]	800

▶ INCLUDED IN DELIVERY



Centering Disc

DST40800



Control

ELEGR04

▶ RECOMMENDED ACCESSORIES



Plug-in connector Straight
Cable 5m - Socket M8
(female)

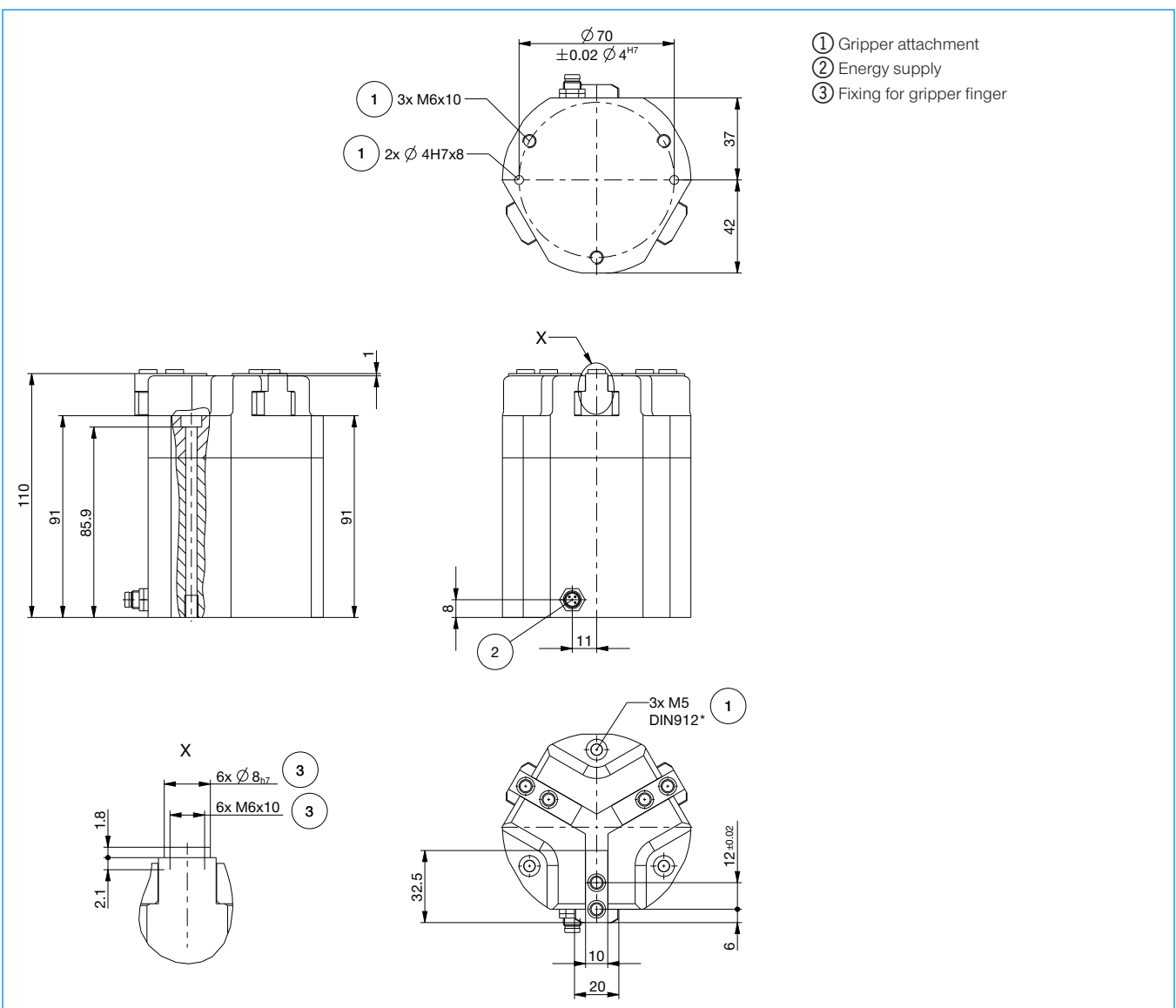
KAG500



Plug-in connector Angled
Cable 5m - Socket M8
(female)

KAW500

Order no.	▶ Technical Data	
	GED1306C	GED1306O
Stroke per jaw [mm]	6	6
Gripping force in closing (adjustable) max. [N]	350	
Gripping force in opening (adjustable) max. [N]		350
Closing time [s]	0.4	0.4
Opening time [s]	0.4	0.4
Repetition accuracy +/- [mm]	0.02	0.02
Voltage [V]	24	24
Max. current regulable by potentiometer [mA]	210	210
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Protection to IEC 60529	IP40	IP40
Weight [kg]	1.7	1.7



3-JAW CONCENTRIC GRIPPERS

SERIES GED5000

▶ PRODUCT ADVANTAGES



“ALL in ONE”

- ▶ Approximately the same gripping force as a comparable pneumatic gripper
- ▶ Self locking mechanism in case of power drop
- ▶ Same connection hole patterns as a comparable pneumatic gripper
- ▶ Plug and play – single-cable solution, supports incredibly easy control using I/O signals or IO-Link
- ▶ Integrated ACM control module - option of configuring gripping force, travel time and switching points
- ▶ Protected from corrosion and sealed in accordance with IP64
- ▶ Brushless DC motor – up to 30 million cycles without maintenance

▶ THE BEST PRODUCT FOR YOUR APPLICATION



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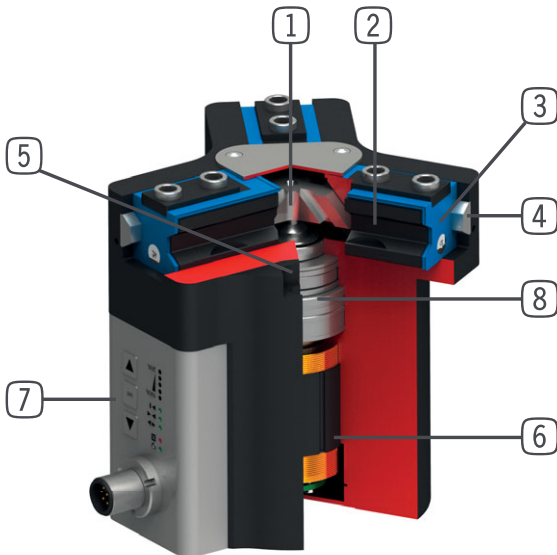
HOW TO ORDER CORRECTLY

- ▶ The product order numbers are arranged according to this diagram:

Order no.	GED5008	<input type="checkbox"/>	-00	-A
Digital control		IO		
IO-Link control		IL		



► BENEFITS IN DETAIL



- 1 Wedge hook mechanism**
 - high forces and moments capacity
 - Synchronized gripper jaw movement
- 2 Gripper jaw**
 - Gripper fingers mounted using removable centring sleeves
 - Lubricated for life via incorporated lubrication slots
- 3 Dual lip seal**
 - Enables IP64
 - Prevents grease from being squeezed out, increasing service life
- 4 Steel Linear Guide**
 - Steel in steel guide
 - Enables use of extremely long gripper fingers
- 5 Mounting and positioning**
 - Alternatively, on several sides for customized mounting
 - Pneumatic and electrical versions identical apart from height
- 6 BLDC motor**
 - Wear-resistant brushless DC motor
- 7 Advanced control module**
 - Integrated control module with single-cable solution
 - Gripping force, travel time and query programmable via the control panel on the housing
- 8 Drive train**
 - Combination of trapezoidal spindle and gear
 - Durable and robust

► SERIES CHARACTERISTICS



Number of installation sizes	3
Stroke per jaw	6 mm - 10 mm
Gripping force	540 N - 1900 N
Weight	1,09 kg - 2,33 kg
AP class	5



30 million maintenance-free cycles (max.)



Integrated sensing



IP64



Corrosion resistance



Self locking mechanism



Purged air

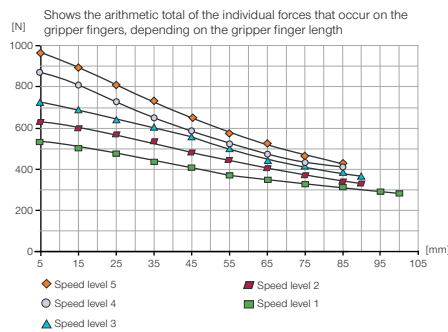
3-JAW CONCENTRIC GRIPPERS

INSTALLATION SIZE GED5006

▶ PRODUCT SPECIFICATIONS



▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	43
Mx [Nm]	70
My [Nm]	46
Fa [N]	1250

▶ TECHNICAL DATA - BASIC VERSION

Order no.	▶ Technical Data	
	GED5006IO-00-A	GED5006IL-00-A
Control	IO	IO-Link
Stroke per jaw [mm]	6	6
Drive	BLDC motor	BLDC motor
Self locking mechanism	mechanical	mechanical
Control time [s]	0.035	0.035
Permissible weight per jaw max [kg]	0.4	0.4
Length of the gripper fingers max. [mm]	100	100
Repetition accuracy +/- [mm]	0.01	0.01
Voltage [V]	24	24
Current consumption max. [A]	5	5
Operating temperature [°C]	5 ... 50	5 ... 50
Protection to IEC 60529	IP64	IP64
Weight [kg]	1.09	1.09

▶ TECHNICAL DATA - MODES

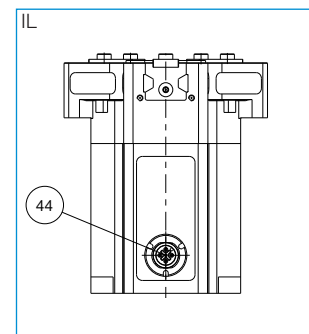
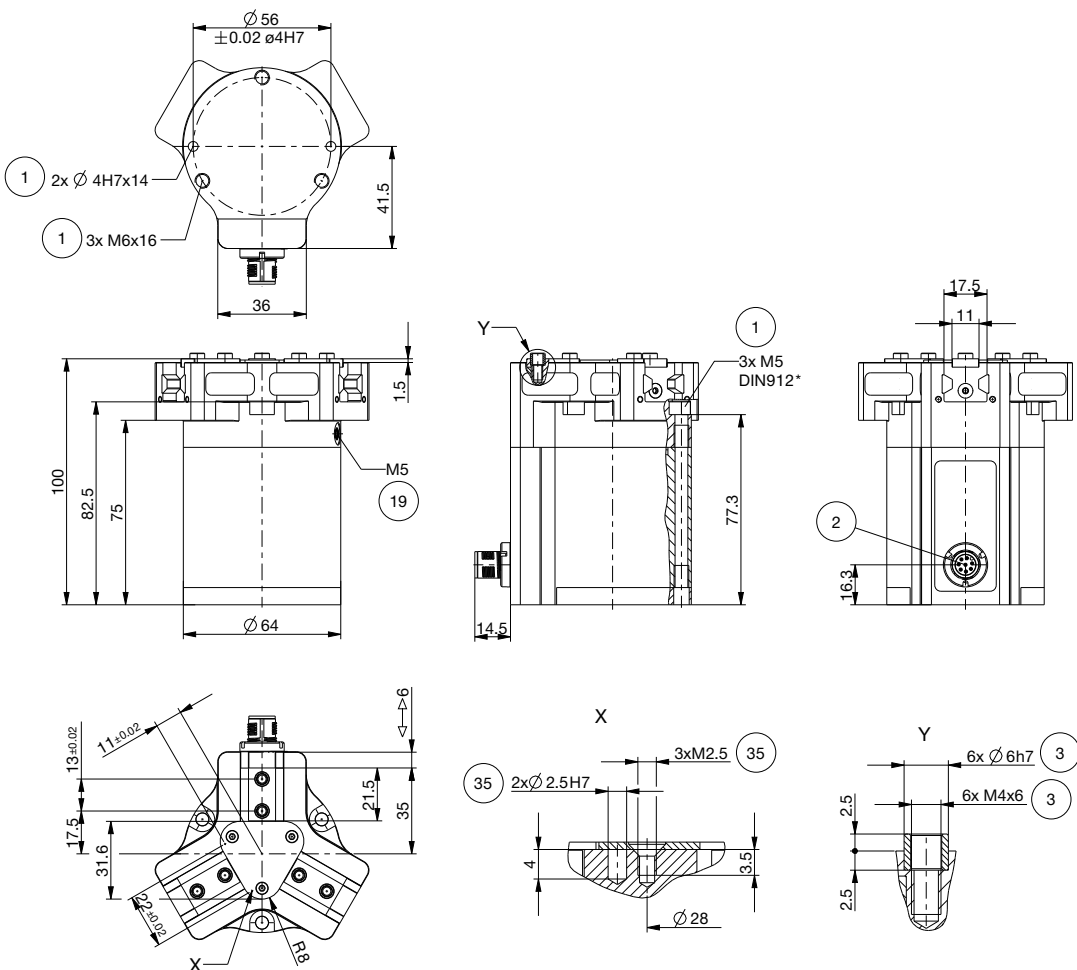
Order no.	▶ Technical data - N mode	
	GED5006IO-00-A	GED5006IL-00-A
Gripping force → ← min. / max. [N]	540 / 960	540 / 960
Gripping force ↔ min. / max. [N]	540 / 960	540 / 960
Travel time → ← min. / max. [s]	0,15 / 0,22	0,15 / 0,22
Travel time ↔ min. / max. [s]	0,15 / 0,22	0,15 / 0,22

Order no.	▶ Technical data - NC mode	
	GED5006IO-00-A	GED5006IL-00-A
Gripping force → ← min. / max. [N]	540 / 960	540 / 960
Gripping force ↔ min. / max. [N]	-	-
Travel time → ← min. / max. [s]	0,15 / 0,22	0,15 / 0,22
Travel time ↔ min. / max. [s]	0,13	0,13

Order no.	▶ Technical data - NO mode	
	GED5006IO-00-A	GED5006IL-00-A
Gripping force → ← min. / max. [N]	-	-
Gripping force ↔ min. / max. [N]	540 / 960	540 / 960
Travel time → ← min. / max. [s]	0,13	0,13
Travel time ↔ min. / max. [s]	0,15 / 0,22	0,15 / 0,22

TECHNICAL DRAWINGS

- ① Gripper attachment
- ② Energy supply (M12, 8-pole)
- ③ Fixing for gripper finger
- ⑱ Air purge connection option
- ⑳ Attachment option for customer-specific fittings
- ④④ Energy supply IO-Link (M12, 5-pole)

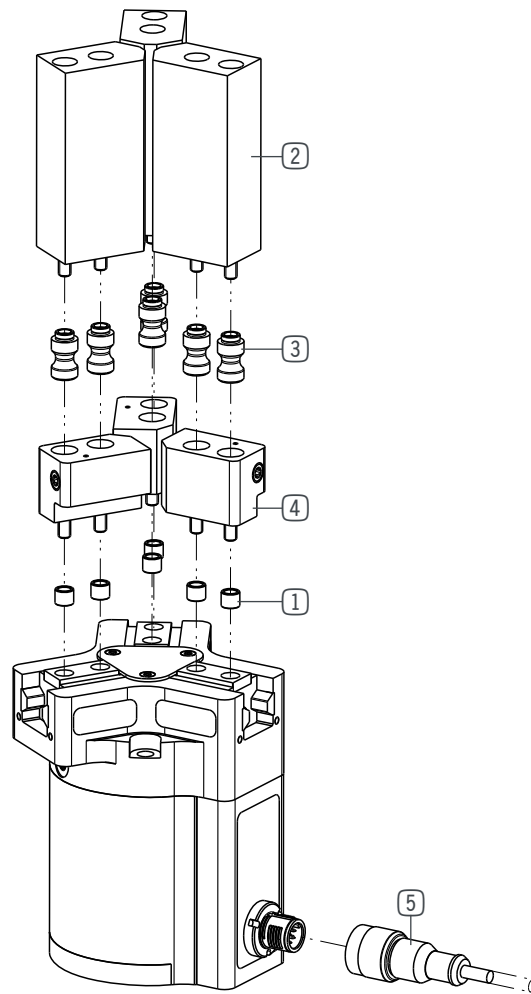


3-JAW CONCENTRIC GRIPPERS

INSTALLATION SIZE GED5006

1

Installation size GED5006 / 3-Jaw Concentric Grippers / electric / Grippers



▶ INCLUDED IN DELIVERY



Centering Disc

024230

► RECOMMENDED ACCESSORIES



Universal jaw aluminium

UB5006AL



Universal jaw steel

UB5006ST



Aluminum adjustment jaw

EB5006AL



Steel adjustment jaw

EB5006ST



Changeable jaw, loose-part-set

WB5006L



Changeable jaw, fix-part

WB5006F



Pressure piece

ADS5006-05



Plug-in Connector Straight Cable 10 m - Female M12

KAG1000B8



Plug-in Connector Angled Cable 10 m - Female M12

KAW1000B8



Plug-in connector straight 5m - plug / socket M12

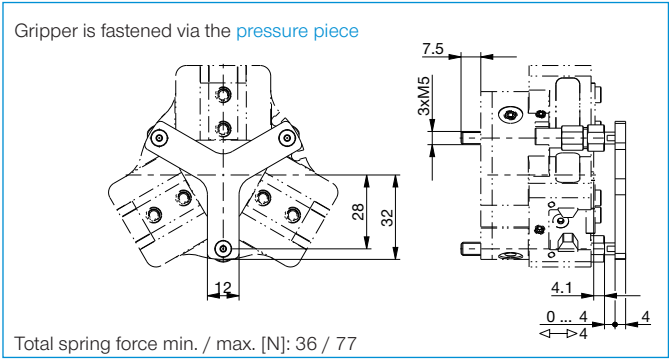
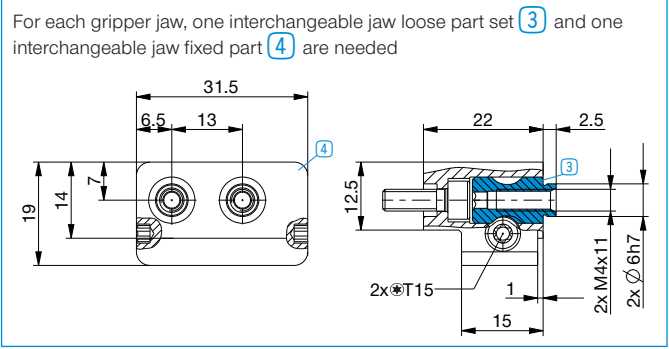
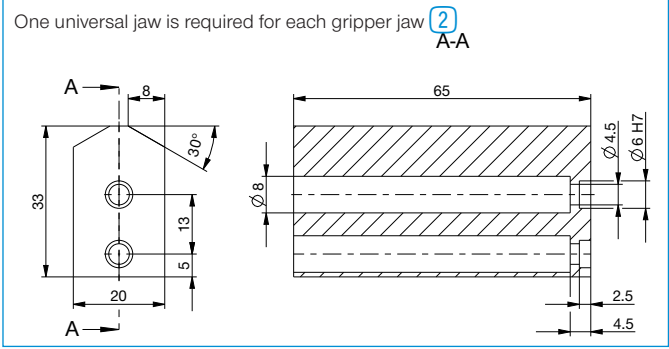
KAG500IL



Y-Plug-in Connector

B12-Y-5IL

► TECHNICAL DRAWINGS ACCESSORIES



3-JAW CONCENTRIC GRIPPERS

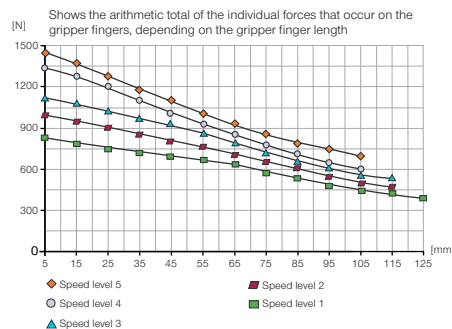
INSTALLATION SIZE GED5008

1

▶ PRODUCT SPECIFICATIONS



▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	60
Mx [Nm]	105
My [Nm]	65
Fa [N]	1900

▶ TECHNICAL DATA - BASIC VERSION

Order no.	▶ Technical Data	
	GED5008IO-00-A	GED5008IL-00-A
Control	IO	IO-Link
Stroke per jaw [mm]	8	8
Drive	BLDC motor	BLDC motor
Self locking mechanism	mechanical	mechanical
Control time [s]	0.035	0.035
Permissible weight per jaw max [kg]	0.7	0.7
Length of the gripper fingers max. [mm]	125	125
Repetition accuracy +/- [mm]	0.01	0.01
Voltage [V]	24	24
Current consumption max. [A]	5	5
Operating temperature [°C]	5 ... 50	5 ... 50
Protection to IEC 60529	IP64	IP64
Weight [kg]	1.66	1.66

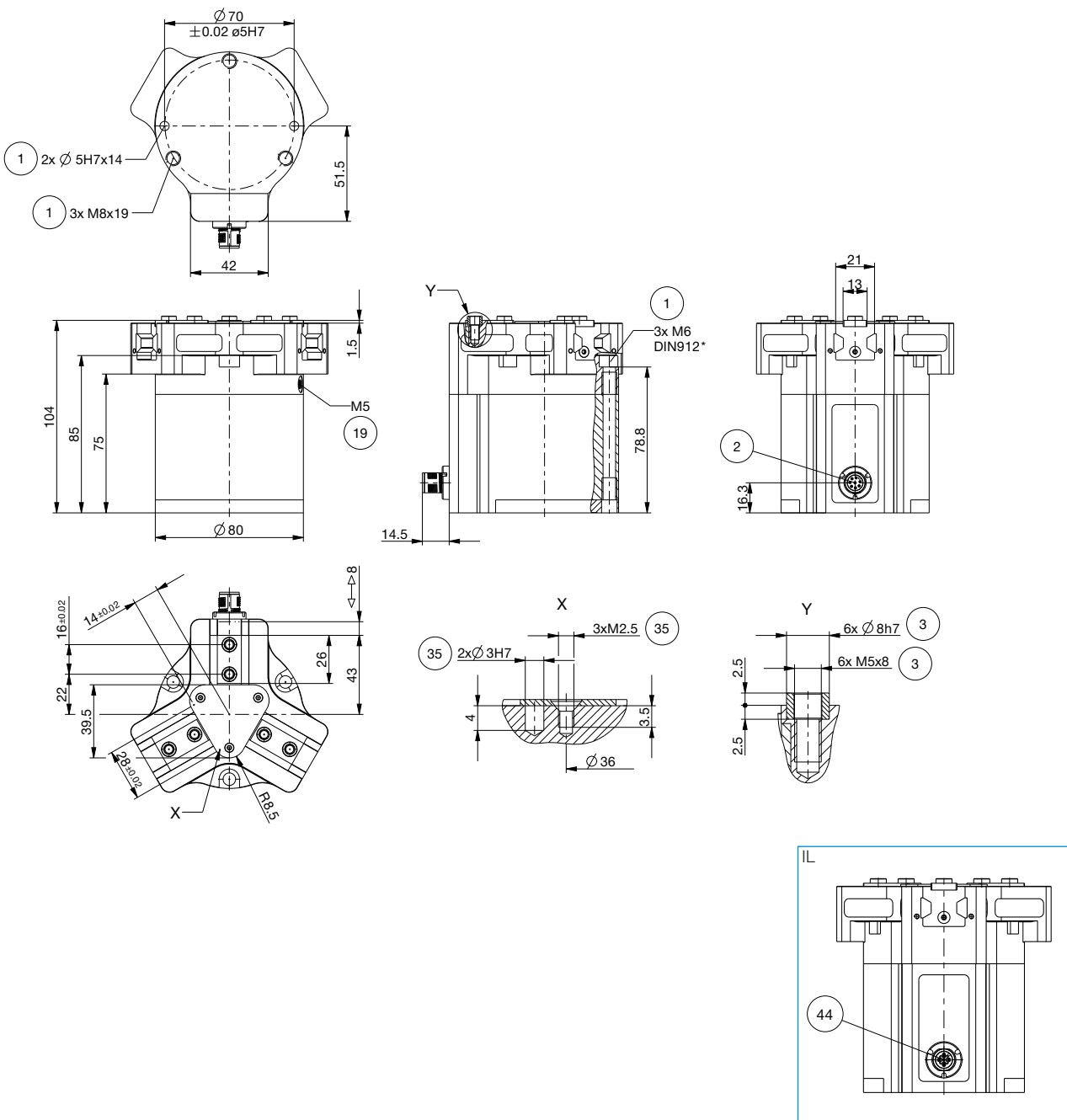
▶ TECHNICAL DATA - MODES

Order no.	▶ Technical data - N mode	
	GED5008IO-00-A	GED5008IL-00-A
Gripping force → ← min. / max. [N]	800 / 1450	800 / 1450
Gripping force ↔ min. / max. [N]	800 / 1450	800 / 1450
Travel time → ← min. / max. [s]	0,18 / 0,29	0,18 / 0,29
Travel time ↔ min. / max. [s]	0,18 / 0,29	0,18 / 0,29

Order no.	▶ Technical data - NC mode	
	GED5008IO-00-A	GED5008IL-00-A
Gripping force → ← min. / max. [N]	800 / 1450	800 / 1450
Gripping force ↔ min. / max. [N]	-	-
Travel time → ← min. / max. [s]	0,18 / 0,29	0,18 / 0,29
Travel time ↔ min. / max. [s]	0,15	0,15

Order no.	▶ Technical data - NO mode	
	GED5008IO-00-A	GED5008IL-00-A
Gripping force → ← min. / max. [N]	-	-
Gripping force ↔ min. / max. [N]	800 / 1450	800 / 1450
Travel time → ← min. / max. [s]	0,15	0,15
Travel time ↔ min. / max. [s]	0,18 / 0,29	0,18 / 0,29

TECHNICAL DRAWINGS



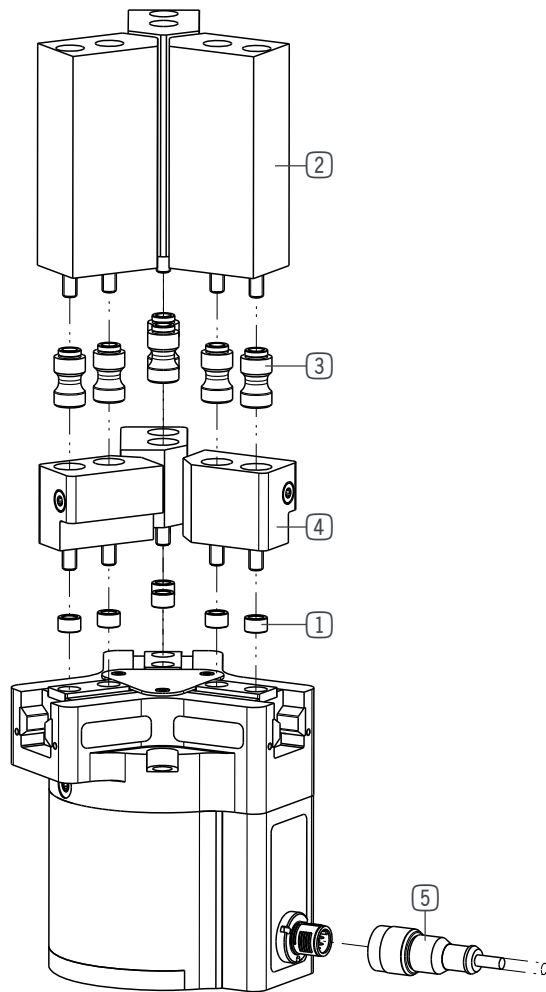
- ① Gripper attachment
- ② Energy supply (M12, 8-pole)
- ③ Fixing for gripper finger
- ⑱ Air purge connection option
- ⑳ Attachment option for customer-specific fittings
- ④④ Energy supply IO-Link (M12, 5-pole)

3-JAW CONCENTRIC GRIPPERS

INSTALLATION SIZE GED5008

1

Installation size GED5008 / 3-Jaw Concentric Grippers / electric / Grippers



▶ INCLUDED IN DELIVERY



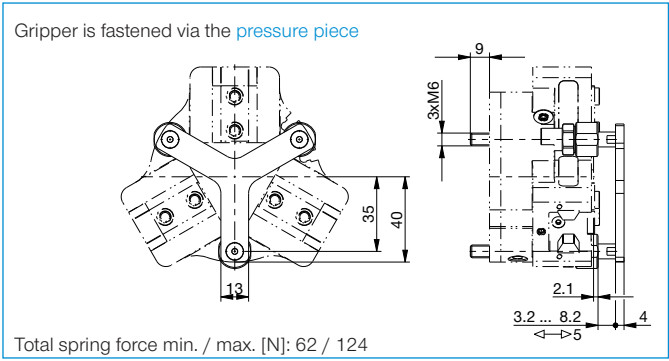
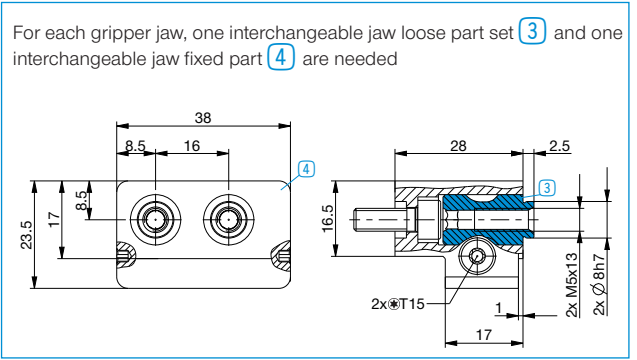
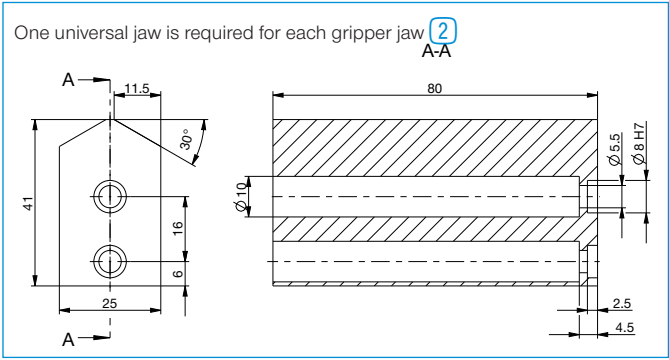
Centering Disc

024231

► RECOMMENDED ACCESSORIES

 <p>2</p>	 <p>2</p>			 <p>3</p>
<p>Universal jaw aluminium</p> <p>UB5008AL</p>	<p>Universal jaw steel</p> <p>UB5008ST</p>	<p>Aluminum adjustment jaw</p> <p>EB5008AL</p>	<p>Steel adjustment jaw</p> <p>EB5008ST</p>	<p>Changeable jaw, loose-part-set</p> <p>WB5008L</p>
 <p>4</p>		 <p>5</p>	 <p>5</p>	 <p>IO-Link</p>
<p>Changeable jaw, fix-part</p> <p>WB5008F</p>	<p>Pressure piece</p> <p>ADS5008-05</p>	<p>Plug-in Connector Straight Cable 10 m - Female M12</p> <p>KAG1000B8</p>	<p>Plug-in Connector Angled Cable 10 m - Female M12</p> <p>KAW1000B8</p>	<p>Plug-in connector straight 5m - plug / socket M12</p> <p>KAG500IL</p>
 <p>IO-Link</p>				
<p>Y-Plug-in Connector</p> <p>B12-Y-5IL</p>				

► TECHNICAL DRAWINGS ACCESSORIES



3-JAW CONCENTRIC GRIPPERS

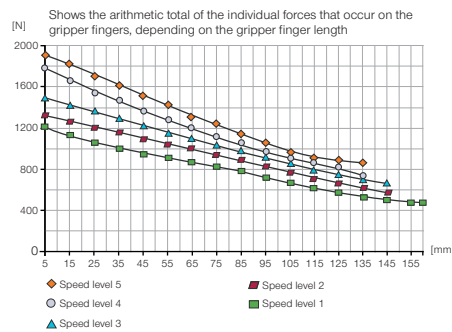
INSTALLATION SIZE GED5010

1

▶ PRODUCT SPECIFICATIONS



▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	75
Mx [Nm]	125
My [Nm]	95
Fa [N]	2700

▶ TECHNICAL DATA - BASIC VERSION

Order no.	▶ Technical Data	
	GED5010IO-00-A	GED5010IL-00-A
Control	IO	IO-Link
Stroke per jaw [mm]	10	10
Drive	BLDC motor	BLDC motor
Self locking mechanism	mechanical	mechanical
Control time [s]	0.035	0.035
Permissible weight per jaw max [kg]	1.3	1.3
Length of the gripper fingers max. [mm]	160	160
Repetition accuracy +/- [mm]	0.01	0.01
Voltage [V]	24	24
Current consumption max. [A]	5	5
Operating temperature [°C]	5 ... 50	5 ... 50
Protection to IEC 60529	IP64	IP64
Weight [kg]	2.33	2.33

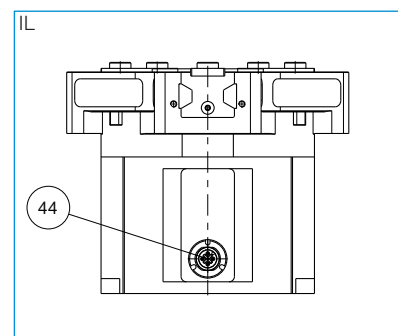
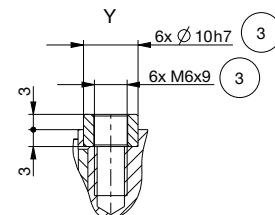
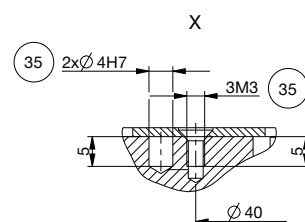
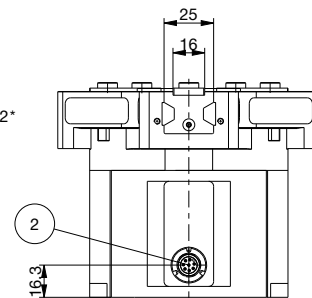
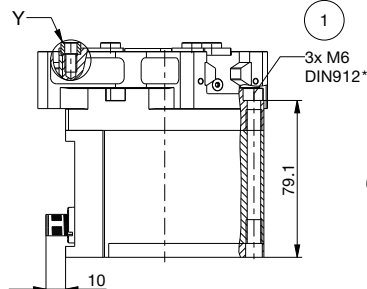
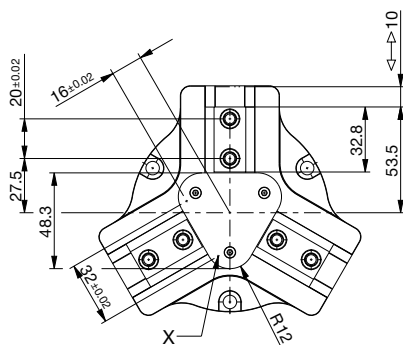
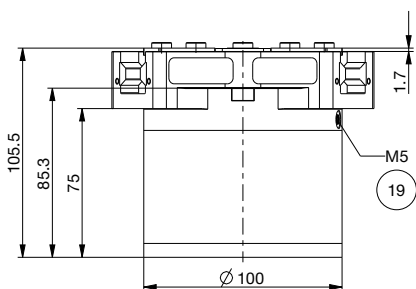
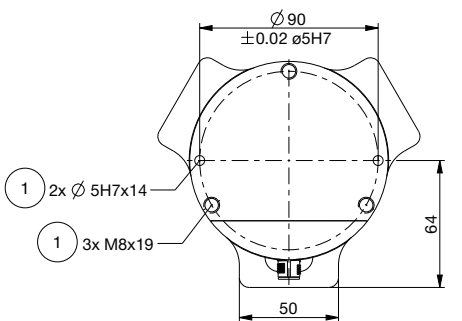
▶ TECHNICAL DATA - MODES

Order no.	▶ Technical data - N mode	
	GED5010IO-00-A	GED5010IL-00-A
Gripping force → ← min. / max. [N]	1200 / 1900	1200 / 1900
Gripping force ↔ min. / max. [N]	1200 / 1900	1200 / 1900
Travel time → ← min. / max. [s]	0,21 / 0,32	0,21 / 0,32
Travel time ↔ min. / max. [s]	0,21 / 0,32	0,21 / 0,32

Order no.	▶ Technical data - NC mode	
	GED5010IO-00-A	GED5010IL-00-A
Gripping force → ← min. / max. [N]	1200 / 1900	1200 / 1900
Gripping force ↔ min. / max. [N]	-	-
Travel time → ← min. / max. [s]	0,21 / 0,32	0,21 / 0,32
Travel time ↔ min. / max. [s]	0,16	0,16

Order no.	▶ Technical data - NO mode	
	GED5010IO-00-A	GED5010IL-00-A
Gripping force → ← min. / max. [N]	-	-
Gripping force ↔ min. / max. [N]	1200 / 1900	1200 / 1900
Travel time → ← min. / max. [s]	0,16	0,16
Travel time ↔ min. / max. [s]	0,21 / 0,32	0,21 / 0,32

TECHNICAL DRAWINGS



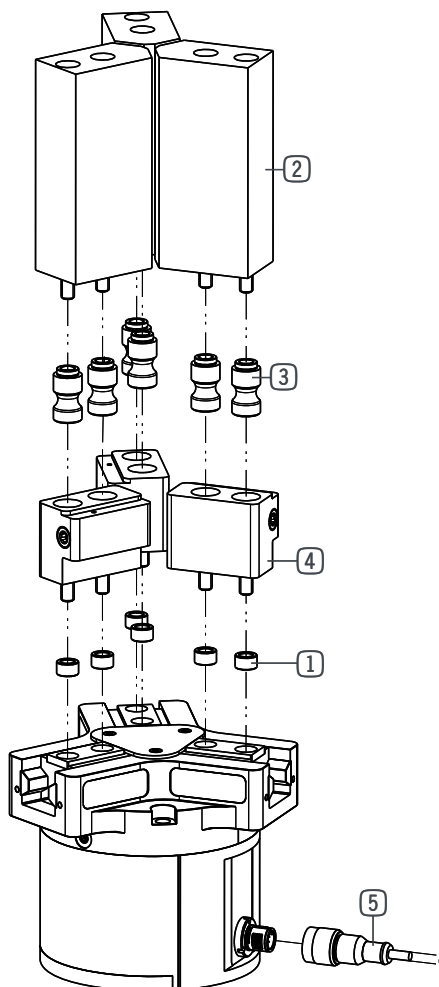
- ① Gripper attachment
- ② Energy supply (M12, 8-pole)
- ③ Fixing for gripper finger
- ⑱ Air purge connection option
- ⑳ Attachment option for customer-specific fittings
- ④④ Energy supply IO-Link (M12, 5-pole)

3-JAW CONCENTRIC GRIPPERS

INSTALLATION SIZE GED5010

1

Installation size GED5010 / 3-Jaw Concentric Grippers / electric / Grippers



▶ INCLUDED IN DELIVERY



Centering Disc

018187

► RECOMMENDED ACCESSORIES



Universal jaw aluminium

UB5010AL



Universal jaw steel

UB5010ST



Aluminum adjustment jaw

EB5010AL



Steel adjustment jaw

EB5010ST



Changeable jaw, loose part-set

WB5010L



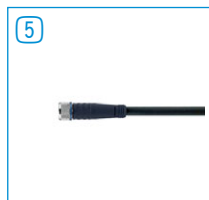
Changeable jaw, fix-part

WB5010F



Pressure piece

ADS5010-05



Plug-in Connector Straight Cable 10 m - Female M12

KAG1000B8



Plug-in Connector Angled Cable 10 m - Female M12

KAW1000B8



Plug-in connector straight 5m - plug / socket M12

KAG500IL

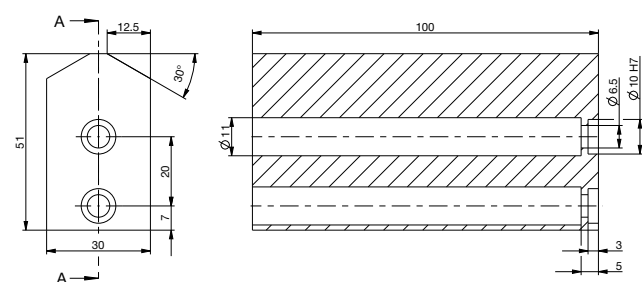


Y-Plug-in Connector

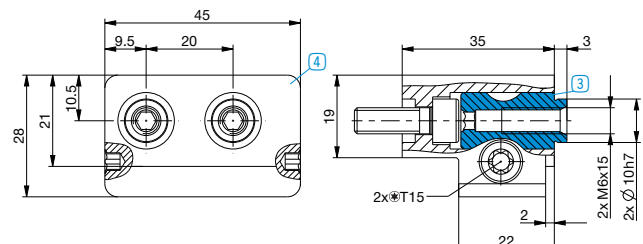
B12-Y-5IL

► TECHNICAL DRAWINGS ACCESSORIES

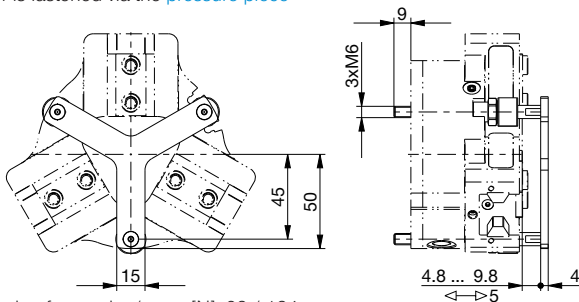
One universal jaw is required for each gripper jaw **2**



For each gripper jaw, one interchangeable jaw loose part set **3** and one interchangeable jaw fixed part **4** are needed



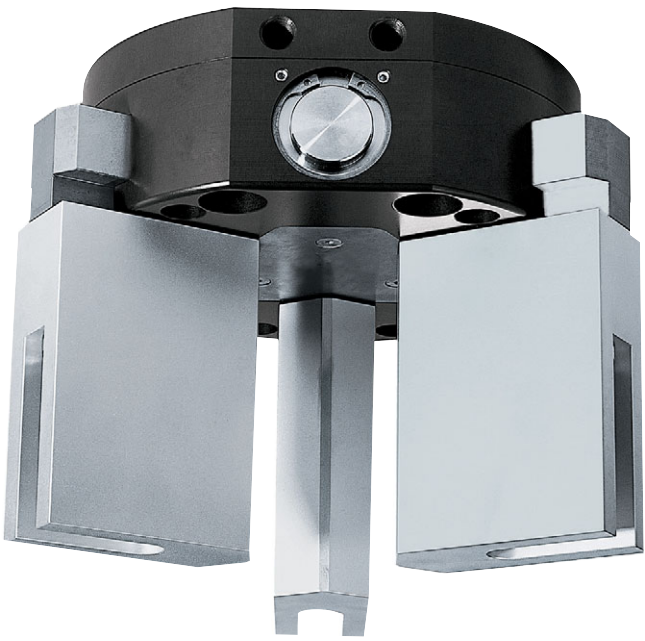
Gripper is fastened via the pressure piece



Total spring force min. / max. [N]: 62 / 124

3-JAW CONCENTRIC GRIPPERS WITH LONG STROKE

OVERVIEW OF SERIES



▶ PNEUMATIC



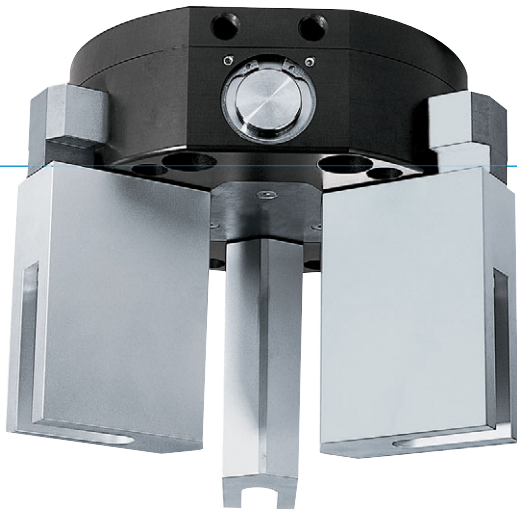
Series GD500

358

3-JAW CONCENTRIC GRIPPERS WITH LONG STROKE SERIES GD500

1

▶ PRODUCT ADVANTAGES



“The flat”

- ▶ **Reduced installation height due to horizontal drive**
Reduces the interference contours for your application
- ▶ **Proven T slot guide**
This established and proven guiding technology stands for the highest process reliability like no other
- ▶ **Failure-free continuous operation**
Our uncompromising “Made in Germany” quality guarantees up to 10 million maintenance-free gripping cycles

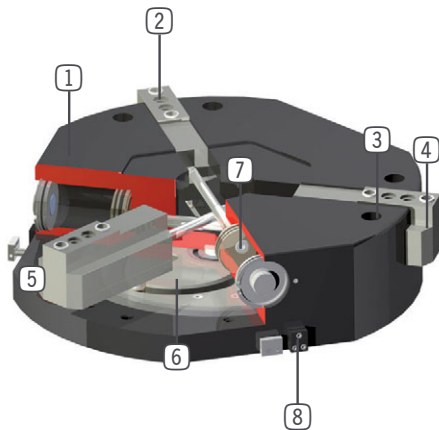
▶ THE BEST PRODUCT FOR YOUR APPLICATION



- ▶ **Our products love the challenge!**
Extreme conditions, all over the world—our tried and tested components and systems give you limitless possibilities:
Find the best product for your specific use:
www.zimmer-group.com



► BENEFITS IN DETAIL



- ① **Robust, lightweight housing**
 - Hard-coated aluminum alloy
- ② **Removable centering sleeves**
 - quick and economical positioning of the gripper fingers
- ③ **Mounting and positioning**
- ④ **Gripper jaw**
 - ground, hardened steel
 - individual gripper finger mounting
- ⑤ **Precise T-Slot guide**
 - high forces and moments capacity
- ⑥ **Cam**
 - synchronized jaw movement
- ⑦ **Drive**
 - three double-acting pneumatic cylinders
- ⑧ **Mounting block**
 - mounting for inductive proximity switch

► SERIES CHARACTERISTICS



Number of installation sizes	3
Stroke per jaw	30 mm - 60 mm
Gripping force	1300 N - 2480 N
Weight	7,4 kg - 29 kg
AP class	3



10 million maintenance-free cycles (max.)



Inductive sensor



IP40

3-JAW CONCENTRIC GRIPPERS WITH LONG STROKE INSTALLATION SIZE GD530

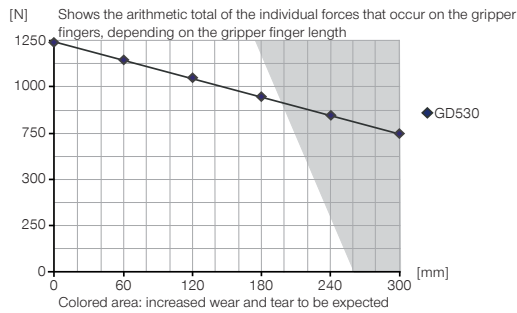
1

Installation size GD530 / 3-Jaw Concentric Grippers with Long Stroke / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS

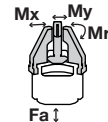


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	300
Mx [Nm]	200
My [Nm]	300
Fa [N]	8000

▶ INCLUDED IN DELIVERY



Mounting block

KB8K



Centering Disc

DST41600

▶ RECOMMENDED ACCESSORIES



Inductive proximity switch - Cable 5m

NJ8-E2



Inductive proximity switch - Connector M8

NJ8-E2S



Plug-in connector Straight Cable 5m - Socket M8 (female)

KAG500



Plug-in connector Angled Cable 5m - Socket M8 (female)

KAW500



Straight Fittings - Quick Connect Style

GV1-4X8



Angled Fittings - Quick Connect Style

WV1-4X8



Quick Exhaust Valve

DEV08



Pressure Safety Valve

DSV1-8



Plug-in connector customizable Straight - Connector M8

S8-G-3

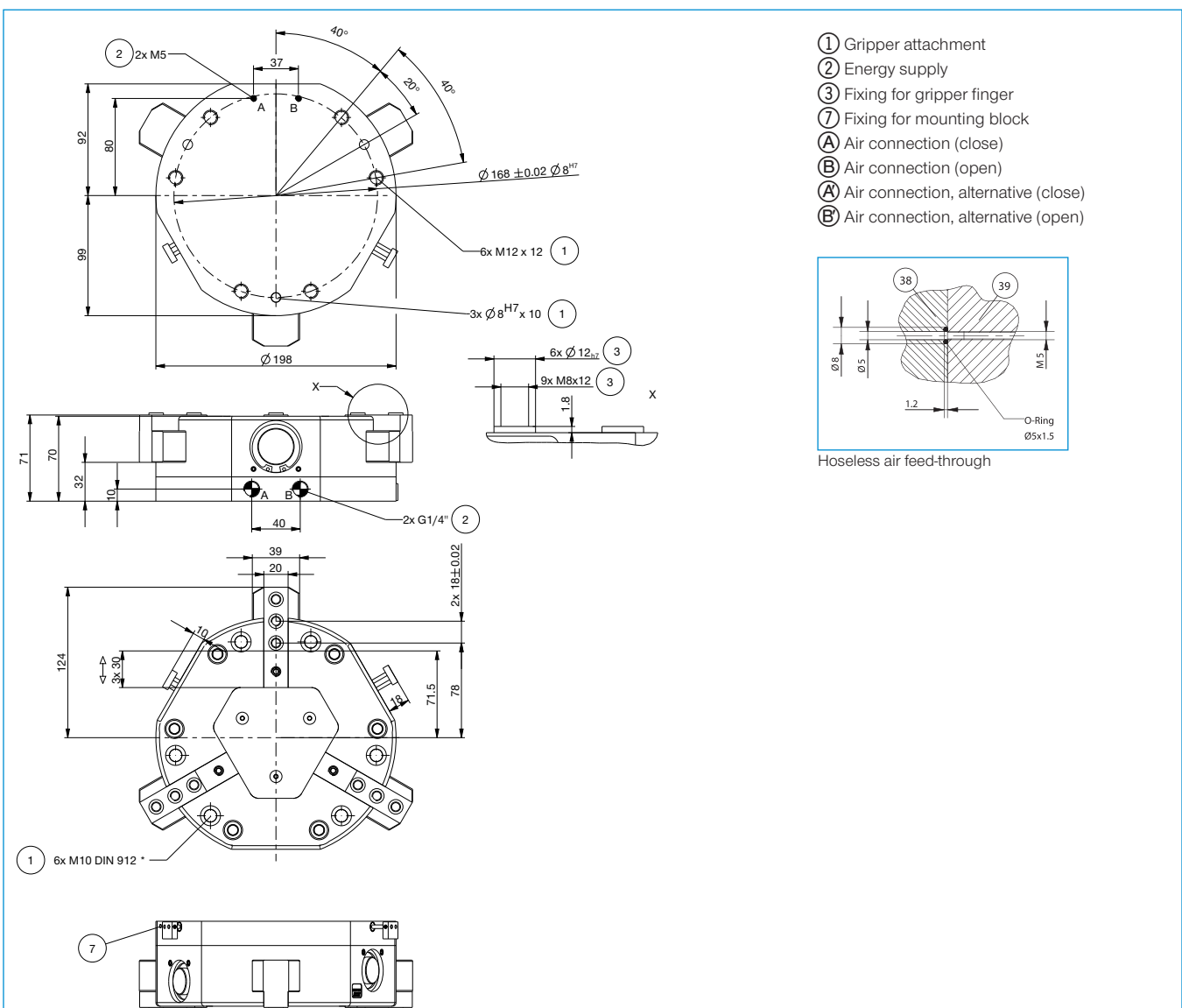


Plug-in connector customizable Straight - Connector M12

S12-G-3

Order no.	GD530
Stroke per jaw [mm]	30
Gripping force in closing [N]	1300
Gripping force in opening [N]	1300
Closing time [s]	0.3
Opening time [s]	0.3
Repetition accuracy +/- [mm]	0.05
Operating pressure min. [bar]	3
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm ³]	170
Weight [kg]	7.4

*All data measured at 6 bar



3-JAW CONCENTRIC GRIPPERS WITH LONG STROKE INSTALLATION SIZE GD540

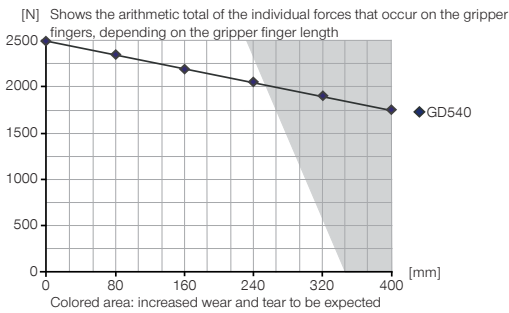
1

Installation size GD540 / 3-Jaw Concentric Grippers with Long Stroke / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS

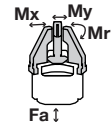


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	300
Mx [Nm]	200
My [Nm]	300
Fa [N]	8000

▶ INCLUDED IN DELIVERY



Mounting block

KB8K



Centering Disc

DST42000

▶ RECOMMENDED ACCESSORIES



Inductive proximity switch - Cable 5 m

NJ8-E2



Inductive proximity switch - Connector M8

NJ8-E2S



Plug-in connector Straight Cable 5m - Socket M8 (female)

KAG500



Plug-in connector Angled Cable 5m - Socket M8 (female)

KAW500



Straight Fittings - Quick Connect Style

GV1-4X8



Angled Fittings - Quick Connect Style

WV1-4X8



Quick Exhaust Valve

DEV08



Pressure Safety Valve

DSV1-8



Plug-in connector customizable Straight - Connector M8

S8-G-3

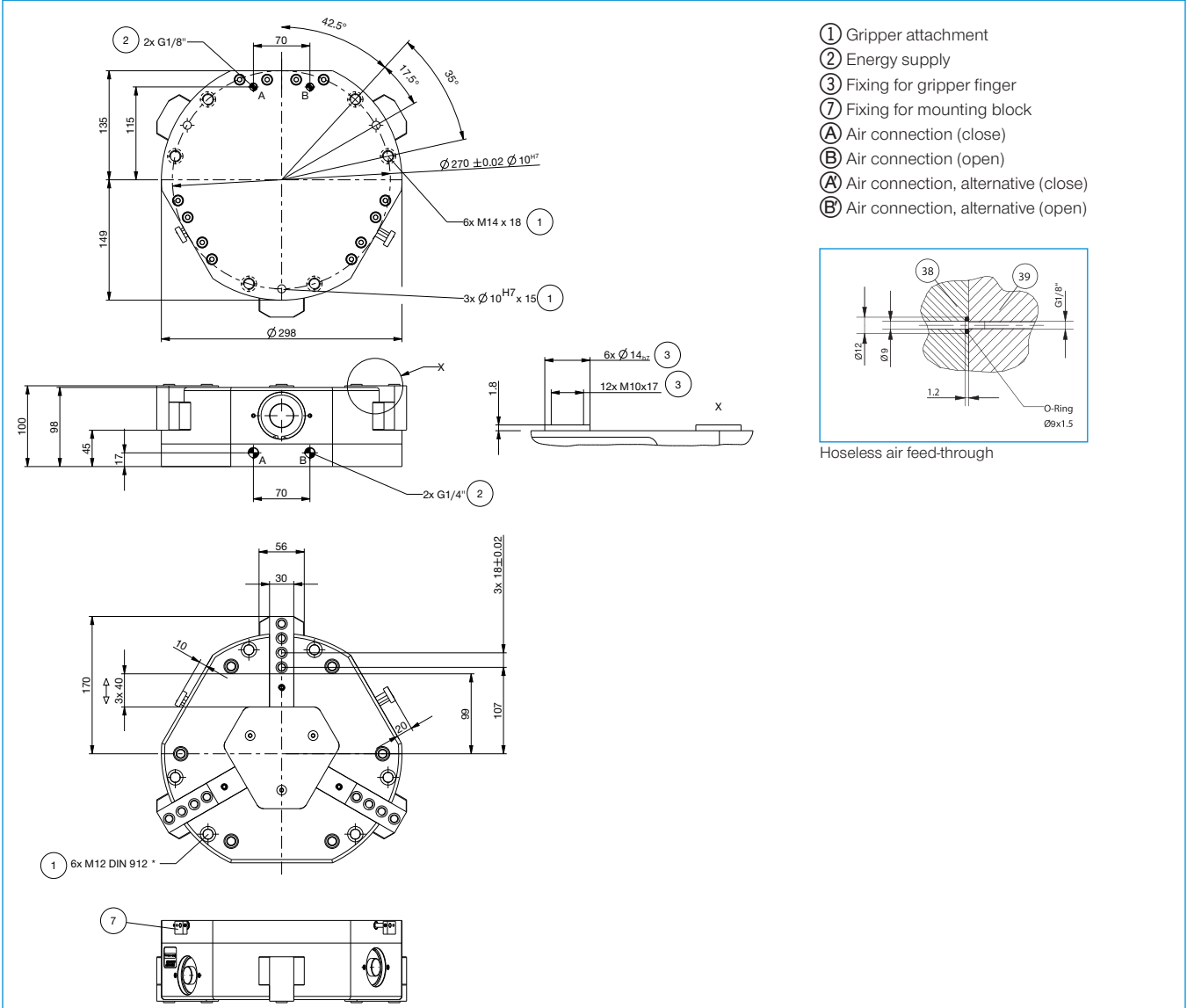


Plug-in connector customizable Straight - Connector M12

S12-G-3

Order no.	GD540
Stroke per jaw [mm]	40
Gripping force in closing [N]	2480
Gripping force in opening [N]	2480
Closing time [s]	0.35
Opening time [s]	0.35
Repetition accuracy +/- [mm]	0.05
Operating pressure min. [bar]	3
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm ³]	440
Weight [kg]	19

*All data measured at 6 bar



3-JAW CONCENTRIC GRIPPERS WITH LONG STROKE INSTALLATION SIZE GD560

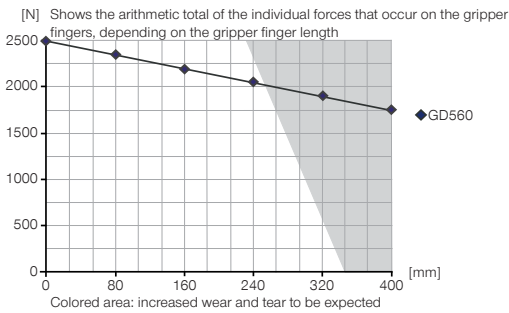
1

Installation size GD560 / 3-Jaw Concentric Grippers with Long Stroke / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS

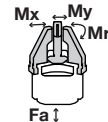


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	300
Mx [Nm]	200
My [Nm]	300
Fa [N]	8000

▶ INCLUDED IN DELIVERY



Mounting block

KB8K



Centering Disc

DST42000

▶ RECOMMENDED ACCESSORIES



Inductive proximity switch - Cable 5m

NJ8-E2



Inductive proximity switch - Connector M8

NJ8-E2S



Plug-in connector Straight Cable 5m - Socket M8 (female)

KAG500



Plug-in connector Angled Cable 5m - Socket M8 (female)

KAW500



Straight Fittings - Quick Connect Style

GV1-4X8



Angled Fittings - Quick Connect Style

WV1-4X8



Quick Exhaust Valve

DEV08



Pressure Safety Valve

DSV1-8



Plug-in connector customizable Straight - Connector M8

S8-G-3

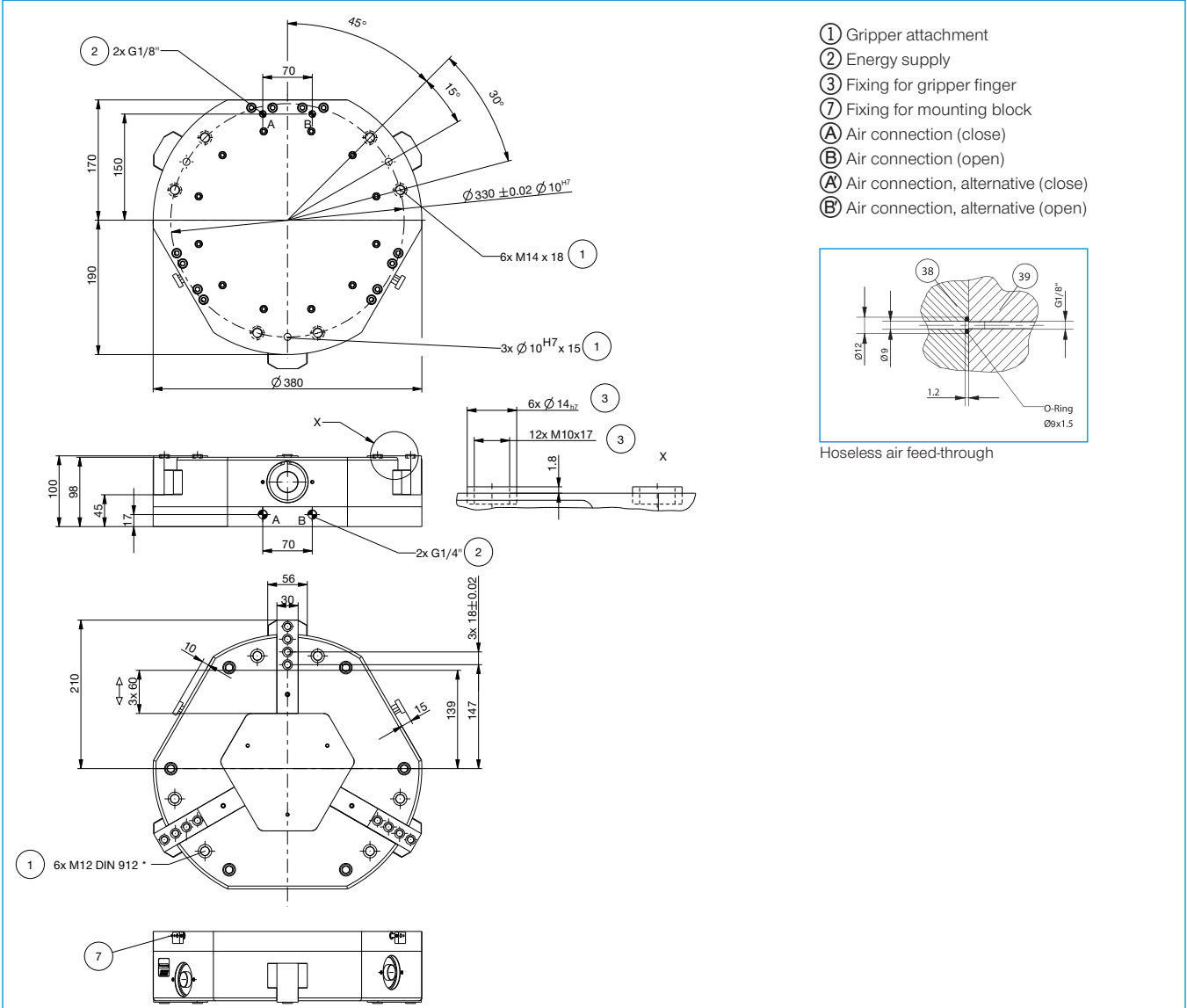


Plug-in connector customizable Straight - Connector M12

S12-G-3

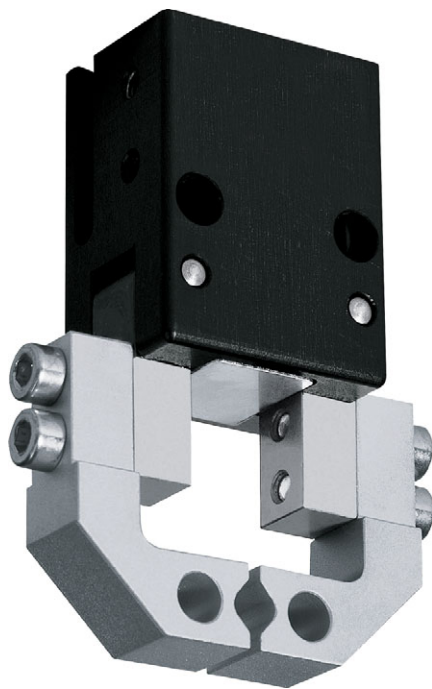
Order no.	GD560
Stroke per jaw [mm]	60
Gripping force in closing [N]	2480
Gripping force in opening [N]	2480
Closing time [s]	0.45
Opening time [s]	0.45
Repetition accuracy +/- [mm]	0.05
Operating pressure min. [bar]	3
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm³]	650
Weight [kg]	29

* All data measured at 6 bar



2-JAW ANGULAR GRIPPERS

OVERVIEW OF SERIES

**▶ PNEUMATIC**

Series GZ1000

368



Series MGW800

376



Series GG1000

394



Series GPW5000

404

2-JAW ANGULAR GRIPPERS

SERIES GZ1000

1

Series GZ1000 / 2-Jaw Angular Grippers / pneumatic / Grippers

▶ PRODUCT ADVANTAGES



“The top of the line”

▶ Unique quality meets functionality

This is one of the best angular grippers on the market, enabling you to make your application more cost-effective and functional

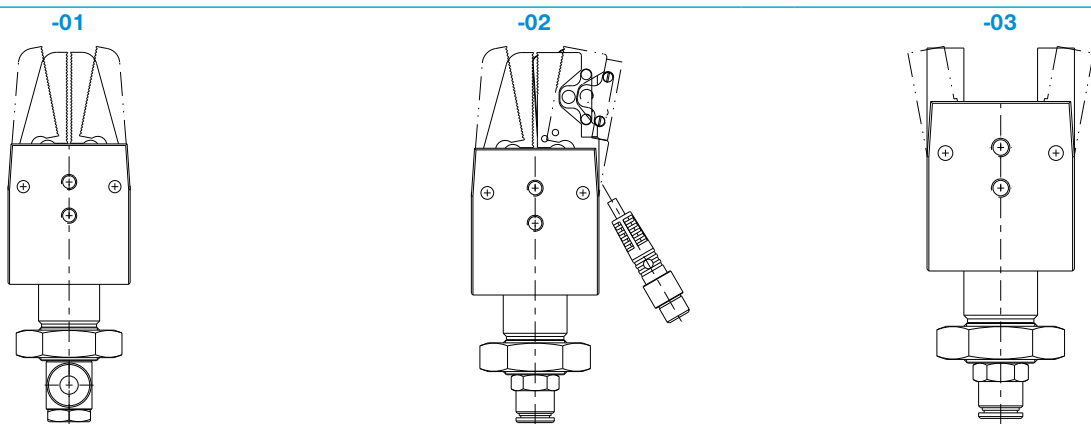
▶ Variable attachment

Decide for yourself whether you want use screws, lock-nuts or a toolkit clamping system for fastening

▶ Sensing with process reliability

Unlike many other established products on the market, you can even differentiate between “Component present” and “Component not present”

▶ VERSIONS



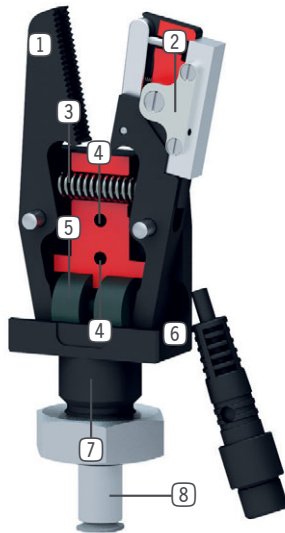
HOW TO ORDER CORRECTLY

▶ The product order numbers are arranged according to this diagram:

Order no.	GZ1030	<input type="checkbox"/>		
Saw tooth jaw without query		-01		
Saw tooth jaw with query		-02		
Version for attaching customer-specific gripper fingers		-03		



► BENEFITS IN DETAIL



- ① **Gripper jaw**
- available in different versions
- ② **Position sensing**
- via inductive proximity switch
- ③ **Return spring**
- to open the gripper jaws
- ④ **Mounting and positioning**
- via thread / through-hole
- ⑤ **Drive**
- single-acting pneumatic cylinder
- ⑥ **Housing**
- hard coated surface for increased durability
- ⑦ **Mounting and positioning**
- via fit, thread and lock nut
- ⑧ **Energy supply**

► SERIES CHARACTERISTICS



Number of installation sizes	3
Stroke per jaw	8° - 10°
Gripping force	62 N - 315 N
Weight	0,015 kg - 0,125 kg
AP class	1



10 million maintenance-free cycles (max.)



Inductive sensor



IP30

2-JAW ANGULAR GRIPPERS

INSTALLATION SIZE GZ1020

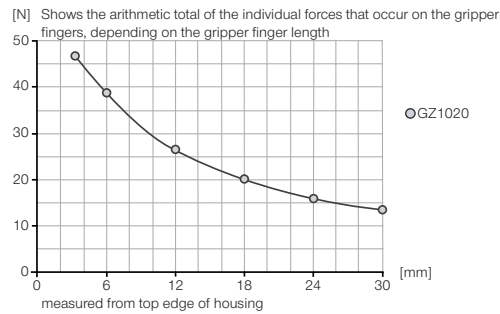
1

Installation size GZ1020 / 2-Jaw Angular Grippers / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS

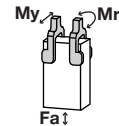


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	1
My [Nm]	0.6
Fa [N]	60

▶ INCLUDED IN DELIVERY



Locking nut

C093610009

▶ RECOMMENDED ACCESSORIES



Plug-in connector Straight Cable 5m - Socket M8 (female)
KAG500



Straight Fittings - Quick Connect Style
GVM5



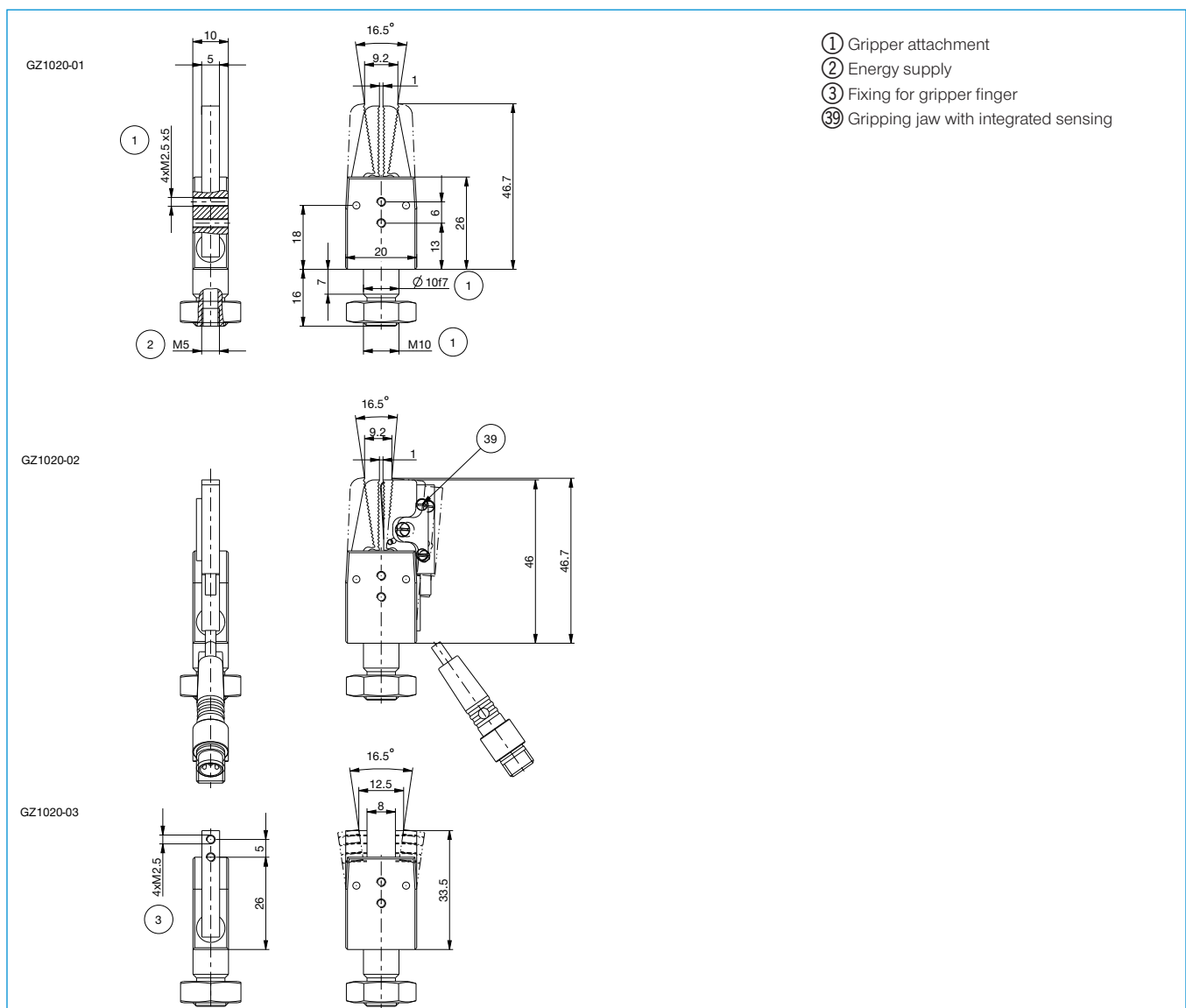
Plug-in connector customizable Straight - Connector M8
S8-G-3



Plug-in connector customizable Straight - Connector M12
S12-G-3

Order no.	▶ Technical Data*		
	GZ1020-01	GZ1020-02	GZ1020-03
Stroke per jaw [°]	8	8	8
Gripping force in closing [N]	62	62	62
Closing moment [Nm]	0.5	0.5	0.5
Closing time [s]	0.01	0.01	0.01
Opening time [s]	0.02	0.02	0.02
Operating pressure min. [bar]	2	2	2
Operating pressure max. [bar]	6	6	6
Operating temperature min. [°C]	5	5	5
Operating temperature max. [°C]	+80	+80	+80
Air volume per cycle [cm ³]	0.25	0.25	0.25
Gripper finger with integrated sensor	No	Yes	No
Weight [kg]	0.017	0.03	0.015

*All data measured at 6 bar



2-JAW ANGULAR GRIPPERS

INSTALLATION SIZE GZ1030

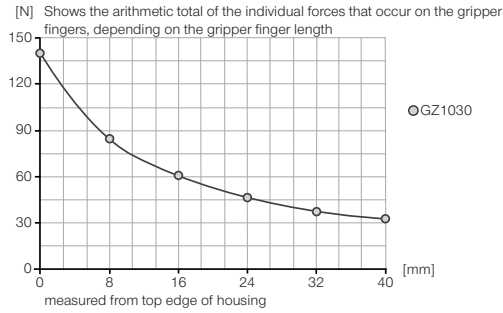
1

Installation size GZ1030 / 2-Jaw Angular Grippers / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS

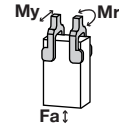


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	1.5
My [Nm]	1
Fa [N]	110

▶ INCLUDED IN DELIVERY



Locking nut

C093614159

▶ RECOMMENDED ACCESSORIES



Plug-in connector Straight Cable 5m - Socket M8 (female)
KAG500



Straight Fittings - Quick Connect Style
GVM5



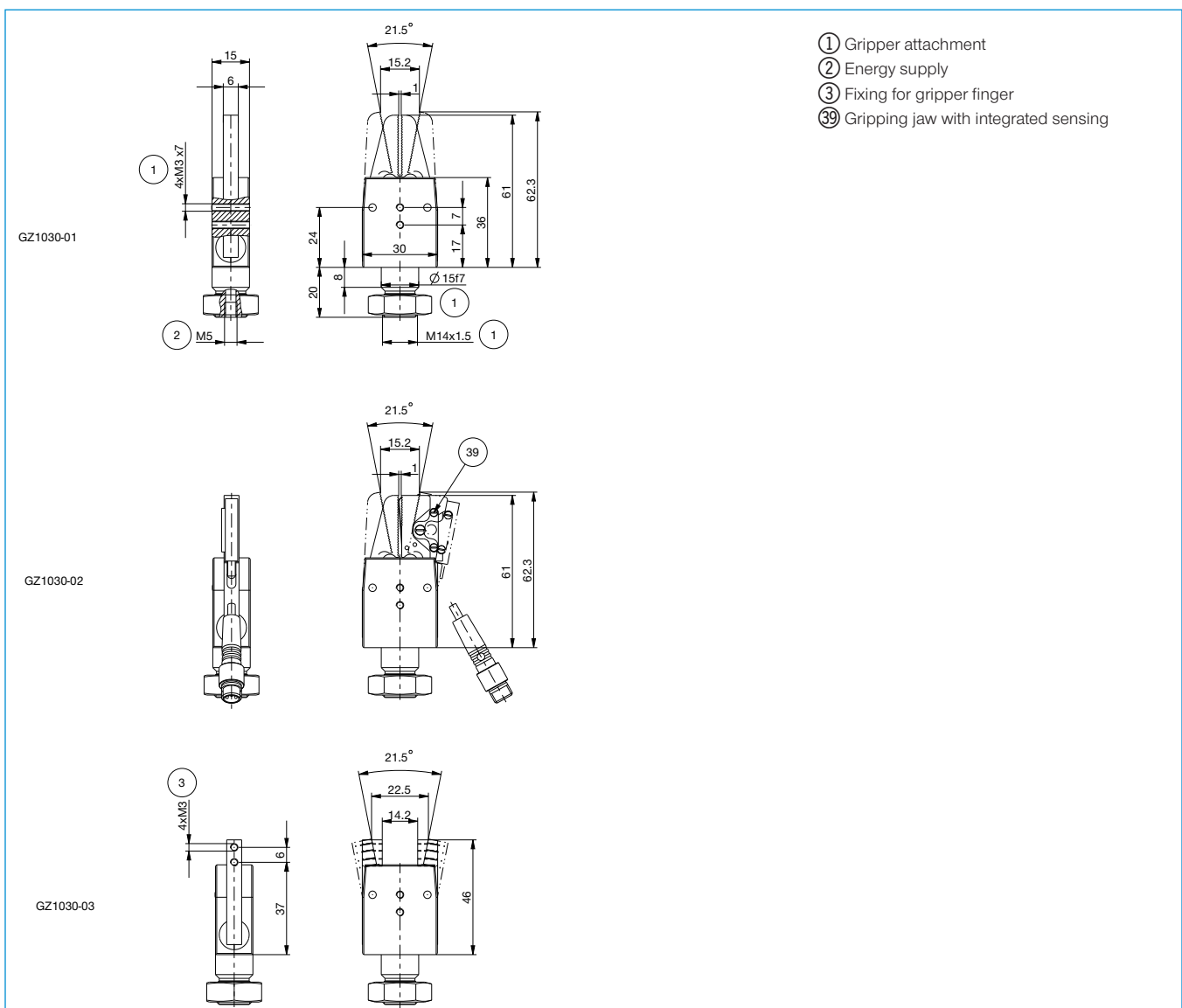
Plug-in connector customizable Straight - Connector M8
S8-G-3



Plug-in connector customizable Straight - Connector M12
S12-G-3

Order no.	Technical Data*		
	GZ1030-01	GZ1030-02	GZ1030-03
Stroke per jaw [°]	11	11	11
Gripping force in closing [N]	130	130	130
Closing moment [Nm]	1.6	1.6	1.6
Closing time [s]	0.02	0.02	0.02
Opening time [s]	0.03	0.03	0.03
Operating pressure min. [bar]	2	2	2
Operating pressure max. [bar]	6	6	6
Operating temperature min. [°C]	5	5	5
Operating temperature max. [°C]	+80	+80	+80
Air volume per cycle [cm³]	0.9	0.9	0.9
Gripper finger with integrated sensor	No	Yes	No
Weight [kg]	0.05	0.063	0.046

*All data measured at 6 bar



2-JAW ANGULAR GRIPPERS

INSTALLATION SIZE GZ1040

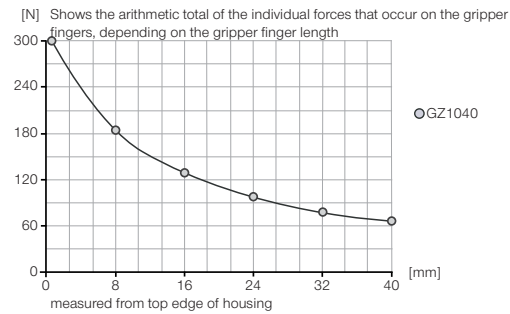
1

Installation size GZ1040 / 2-Jaw Angular Grippers / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS

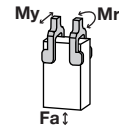


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	2.5
My [Nm]	2
Fa [N]	200

▶ INCLUDED IN DELIVERY



Locking nut

C093620159

▶ RECOMMENDED ACCESSORIES



Plug-in connector Straight Cable 5m - Socket M8 (female)
KAG500



Straight Fittings - Quick Connect Style
GV1-8X6



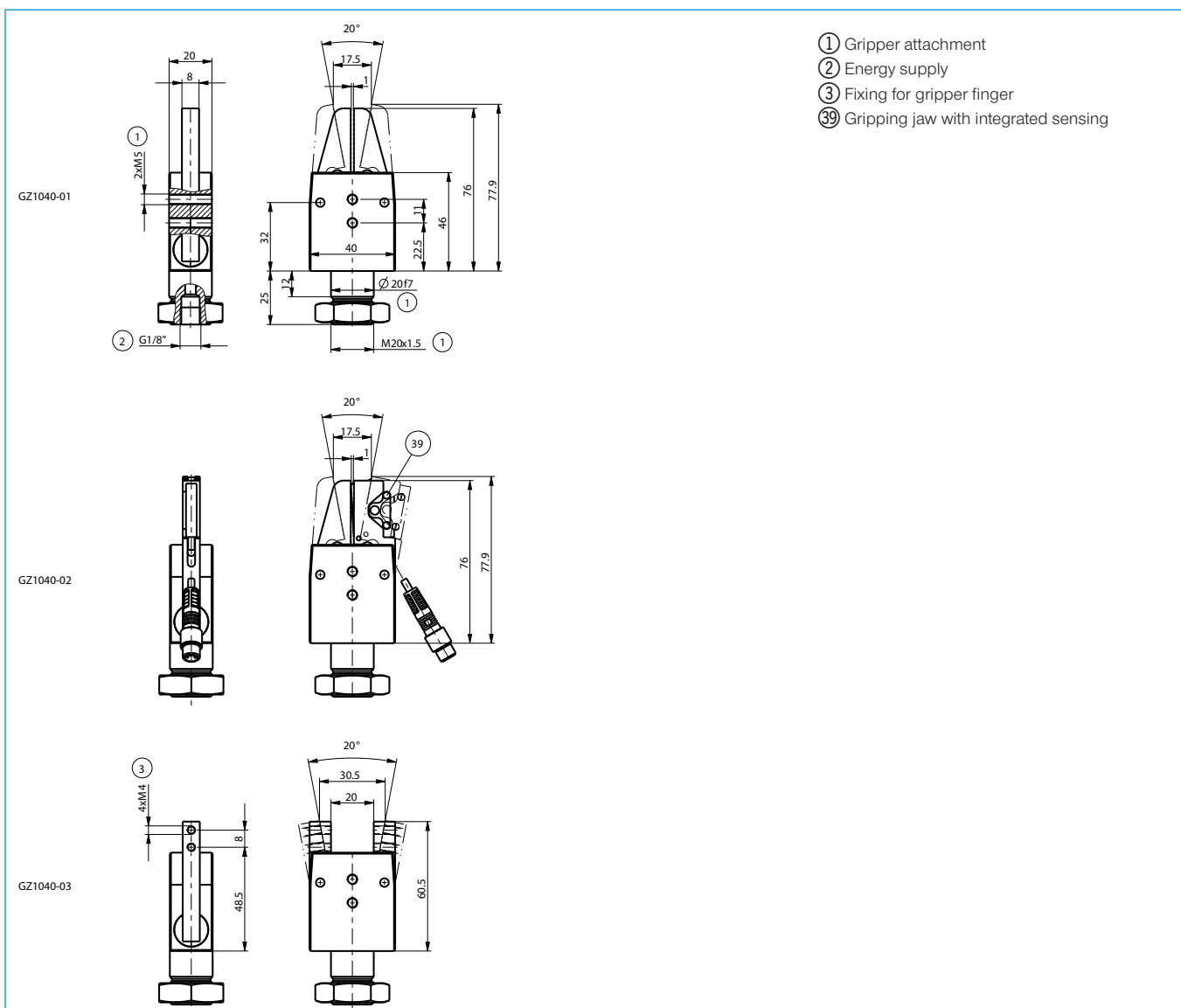
Plug-in connector customizable Straight - Connector M8
S8-G-3



Plug-in connector customizable Straight - Connector M12
S12-G-3

Order no.	Technical Data*		
	GZ1040-01	GZ1040-02	GZ1040-03
Stroke per jaw [°]	10	10	10
Gripping force in closing [N]	315	315	315
Closing moment [Nm]	4.4	4.4	4.4
Closing time [s]	0.02	0.02	0.02
Opening time [s]	0.04	0.04	0.04
Operating pressure min. [bar]	2	2	2
Operating pressure max. [bar]	6	6	6
Operating temperature min. [°C]	5	5	5
Operating temperature max. [°C]	+80	+80	+80
Air volume per cycle [cm ³]	2	2	2
Gripper finger with integrated sensor	No	Yes	No
Weight [kg]	0.11	0.125	0.105

*All data measured at 6 bar



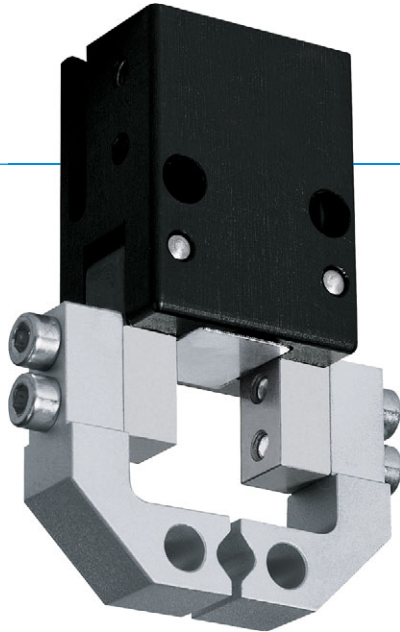
2-JAW ANGULAR GRIPPERS

SERIES MGW800

1

Series MGW800 / 2-Jaw Angular Grippers / pneumatic / Grippers

▶ PRODUCT ADVANTAGES



“The economical”

▶ Concentration on the essentials

The most economic type of gripping: This is how you reduce your production costs

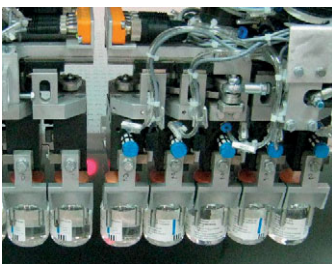
▶ High moment load

The optimally designed angular gear box provides the highest durability for your application

▶ Failure-free continuous operation

Our uncompromising “Made in Germany” quality guarantees up to 10 million maintenance-free gripping cycles

▶ THE BEST PRODUCT FOR YOUR APPLICATION



▶ Our products love the challenge!

Extreme conditions, all over the world—our tried and tested components and systems give you limitless possibilities:

Find the best product for your specific use:

www.zimmer-group.com

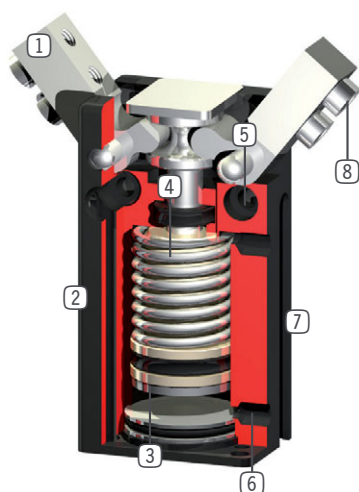
HOW TO ORDER CORRECTLY

- ▶ The product order numbers are arranged according to this diagram:

Order no.	MGW803N	<input type="checkbox"/>		
For external gripping, self-locking, spring closing		C		



► BENEFITS IN DETAIL



- ① **Gripper jaw**
- individual gripper finger mounting
- ② **Robust, lightweight housing**
- Hard-coated aluminum alloy
- ③ **Position sensing**
- permanent magnet for direct monitoring of piston movement
- ④ **Integrated gripping force safety device**
- spring integrated into cylinder as energy storage (from size 803 upwards)
- ⑤ **Mounting and positioning**
- mounting possible from several sides for versatile positioning
- ⑥ **Energy supply**
- possible from several sides
- ⑦ **Sensing slot**
- mounting and positioning of magnetic field sensors
- ⑧ **Removable centering sleeves**
- quick and economical positioning of the gripper fingers

► SERIES CHARACTERISTICS



Number of installation sizes	8
Stroke per jaw	37,5°
Gripping force	5 N - 325 N
Weight	0,01 kg - 0,45 kg
AP class	2



10 million maintenance-free cycles (max.)



Spring closing C



IP30



Magnetic field sensor

2-JAW ANGULAR GRIPPERS

INSTALLATION SIZE MGW801

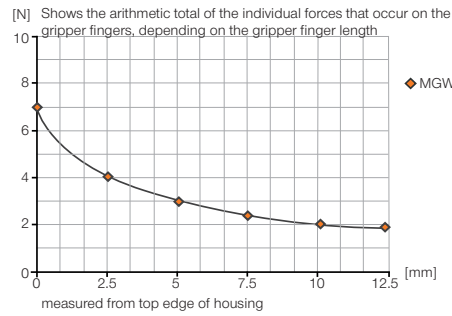
1

Installation size MGW801 / 2-Jaw Angular Grippers / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS

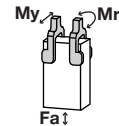


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	0.2
My [Nm]	0.2
Fa [N]	37

▶ INCLUDED IN DELIVERY



Centering Disc

DST80100

▶ RECOMMENDED ACCESSORIES



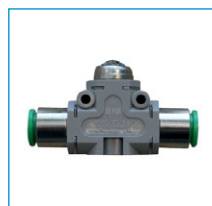
Straight Fittings - Barb Style Connection

GVM3



Angled Fittings - Barb Style Connection

WVM3

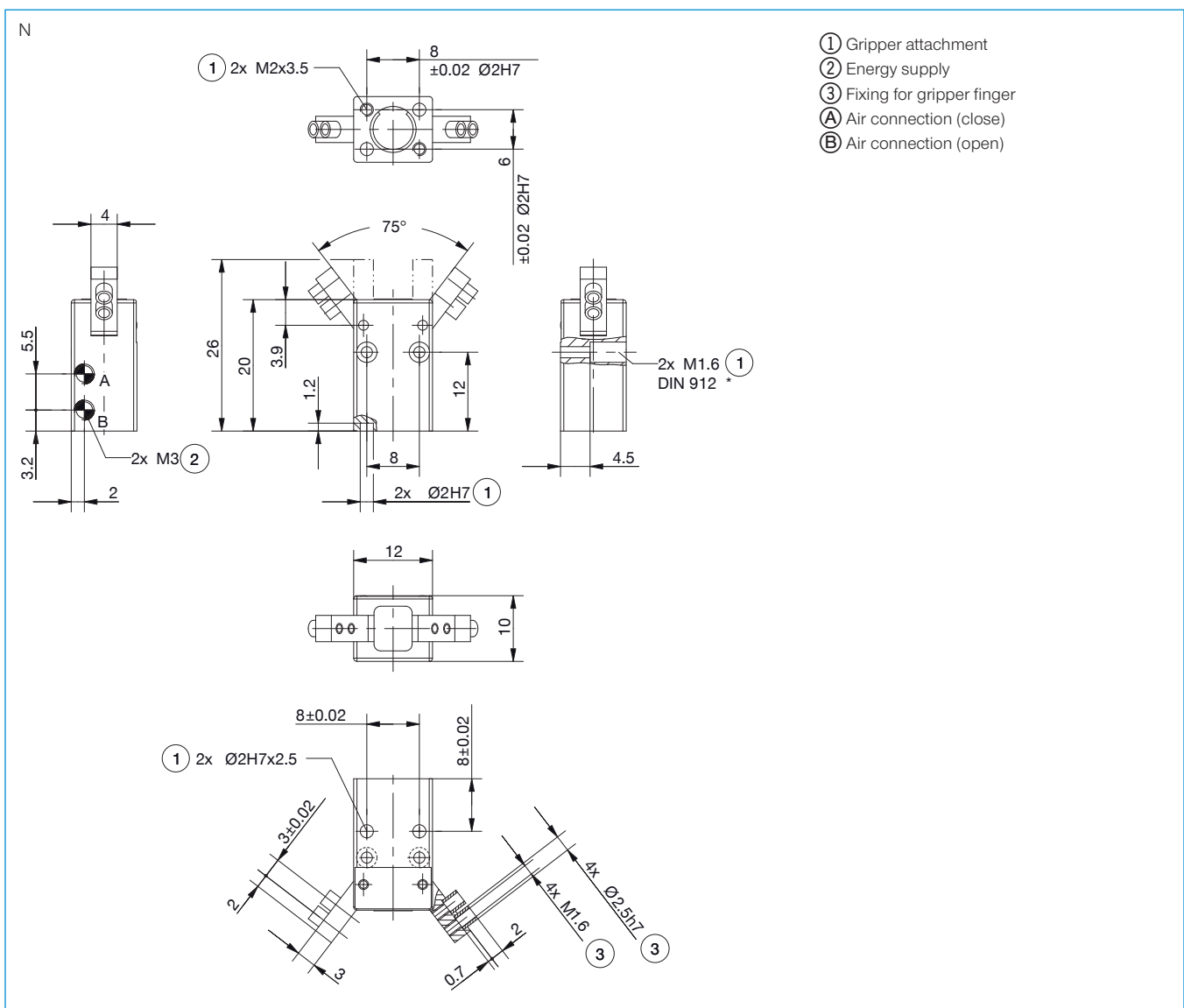


Quick Exhaust Valve

DEV04

Order no.	MGW801N
Stroke per jaw [°]	37.5
Gripping moment in closing [Nm]	0.025
Gripping moment in opening [Nm]	0.03
Gripping moment secured by spring min. [Nm]	
Gripping force in closing [N]	5
Gripping force in opening [N]	7.5
Closing time [s]	0.01
Opening time [s]	0.01
Repetition accuracy +/- [mm]	0.05
Operating pressure min. [bar]	3
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm ³]	0.14
Weight [kg]	0.01

*All data measured at 6 bar



2-JAW ANGULAR GRIPPERS

INSTALLATION SIZE MGW802

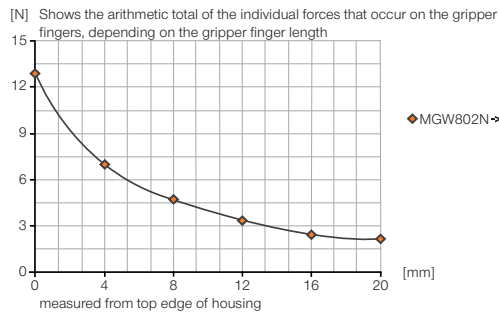
1

Installation size MGW802 / 2-Jaw Angular Grippers / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS

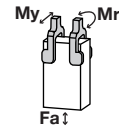


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	0.3
My [Nm]	0.3
Fa [N]	60

▶ INCLUDED IN DELIVERY



Centering Disc

DST80200

▶ RECOMMENDED ACCESSORIES



Straight Fittings - Barb Style Connection

GVM3



Angled Fittings - Barb Style Connection

WVM3

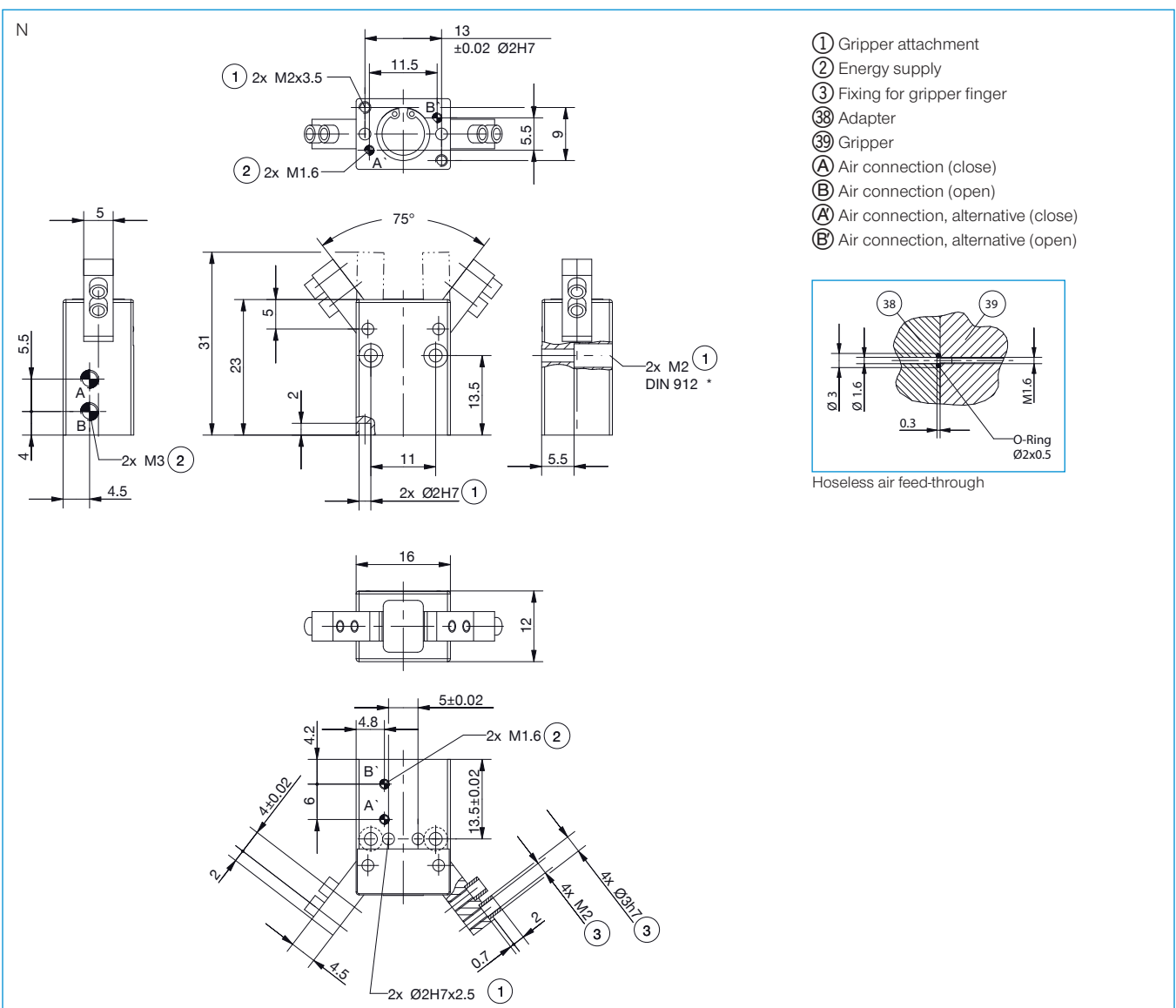


Quick Exhaust Valve

DEV04

Order no.	MGW802N
Stroke per jaw [°]	37.5
Gripping moment in closing [Nm]	0.045
Gripping moment in opening [Nm]	0.05
Gripping moment secured by spring min. [Nm]	
Gripping force in closing [N]	9
Gripping force in opening [N]	10
Closing time [s]	0.01
Opening time [s]	0.01
Repetition accuracy +/- [mm]	0.05
Operating pressure min. [bar]	3
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm³]	0.22
Weight [kg]	0.015

*All data measured at 6 bar



2-JAW ANGULAR GRIPPERS

INSTALLATION SIZE MGW803

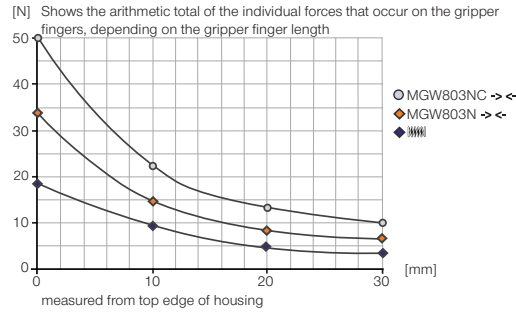
1

Installation size MGW803 / 2-Jaw Angular Grippers / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS

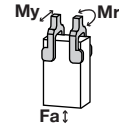


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	0.4
My [Nm]	0.4
Fa [N]	90

▶ INCLUDED IN DELIVERY



Centering Disc

DST80320

▶ RECOMMENDED ACCESSORIES



Magnetic field sensor
Angled Cable 5 m

MFS103KHC



Magnetic field sensor
Angled Cable 0,3 m -
Connector M8

MFS103SKHC



Magnetic field sensor
Straight Cable 5 m

MFS204KHC



Magnetic field sensor
Straight Cable 0,3 m -
Connector M8

MFS204SKHC



Straight Fittings - Barb
Style Connection

GVM3



Angled Fittings - Barb
Style Connection

WVM3

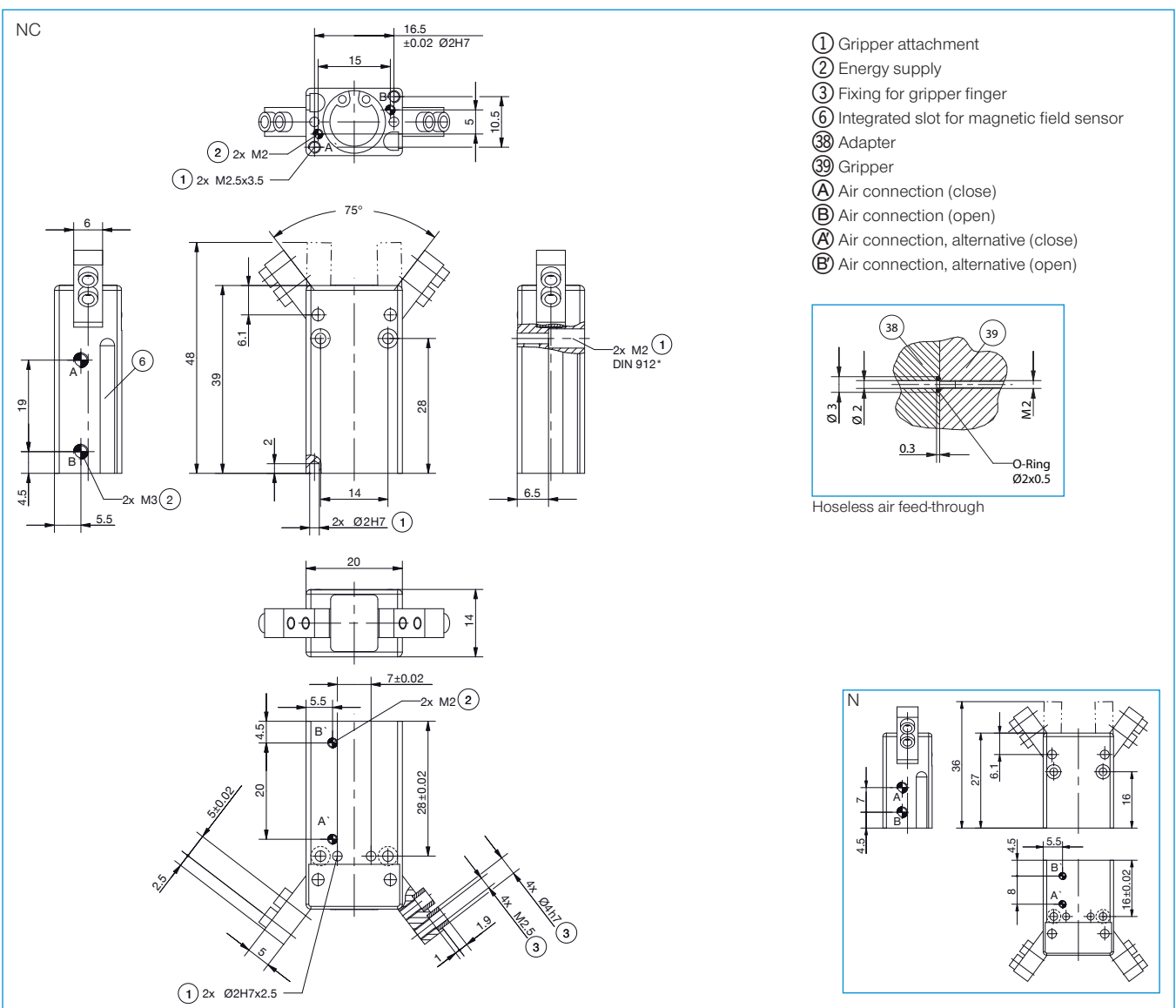


Quick Exhaust Valve

DEV04

Order no.	Technical Data*	
	MGW803N	MGW803NC
Stroke per jaw [°]	37.5	37.5
Gripping moment in closing [Nm]	0.2	0.3
Gripping moment in opening [Nm]	0.23	
Gripping moment secured by spring min. [Nm]		0.1
Gripping force in closing [N]	33	49
Gripping force in opening [N]	38	
Closing time [s]	0.01	0.01
Opening time [s]	0.01	0.02
Repetition accuracy +/- [mm]	0.05	0.05
Operating pressure min. [bar]	3	4
Operating pressure max. [bar]	8	8
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm³]	0.64	1
Weight [kg]	0.025	0.04

*All data measured at 6 bar



2-JAW ANGULAR GRIPPERS

INSTALLATION SIZE MGW804

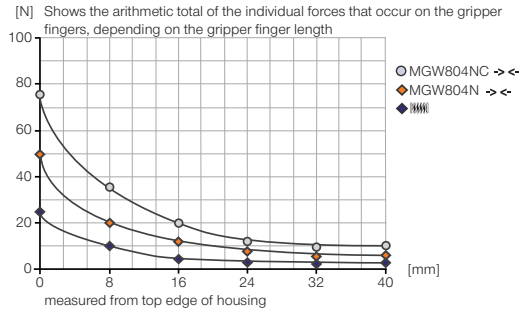
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Installation size MGW804 / 2-Jaw Angular Grippers / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS

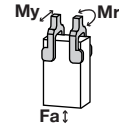


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	0.5
My [Nm]	0.5
Fa [N]	150

▶ INCLUDED IN DELIVERY



Centering Disc

DST40400

▶ RECOMMENDED ACCESSORIES



Magnetic field sensor
Angled Cable 5 m

MFS103KHC



Magnetic field sensor
Angled Cable 0,3 m -
Connector M8

MFS103SKHC



Magnetic field sensor
Straight Cable 5 m

MFS204KHC



Magnetic field sensor
Straight Cable 0,3 m -
Connector M8

MFS204SKHC



Straight Fittings - Barb
Style Connection

GVM3



Angled Fittings - Barb
Style Connection

WVM3

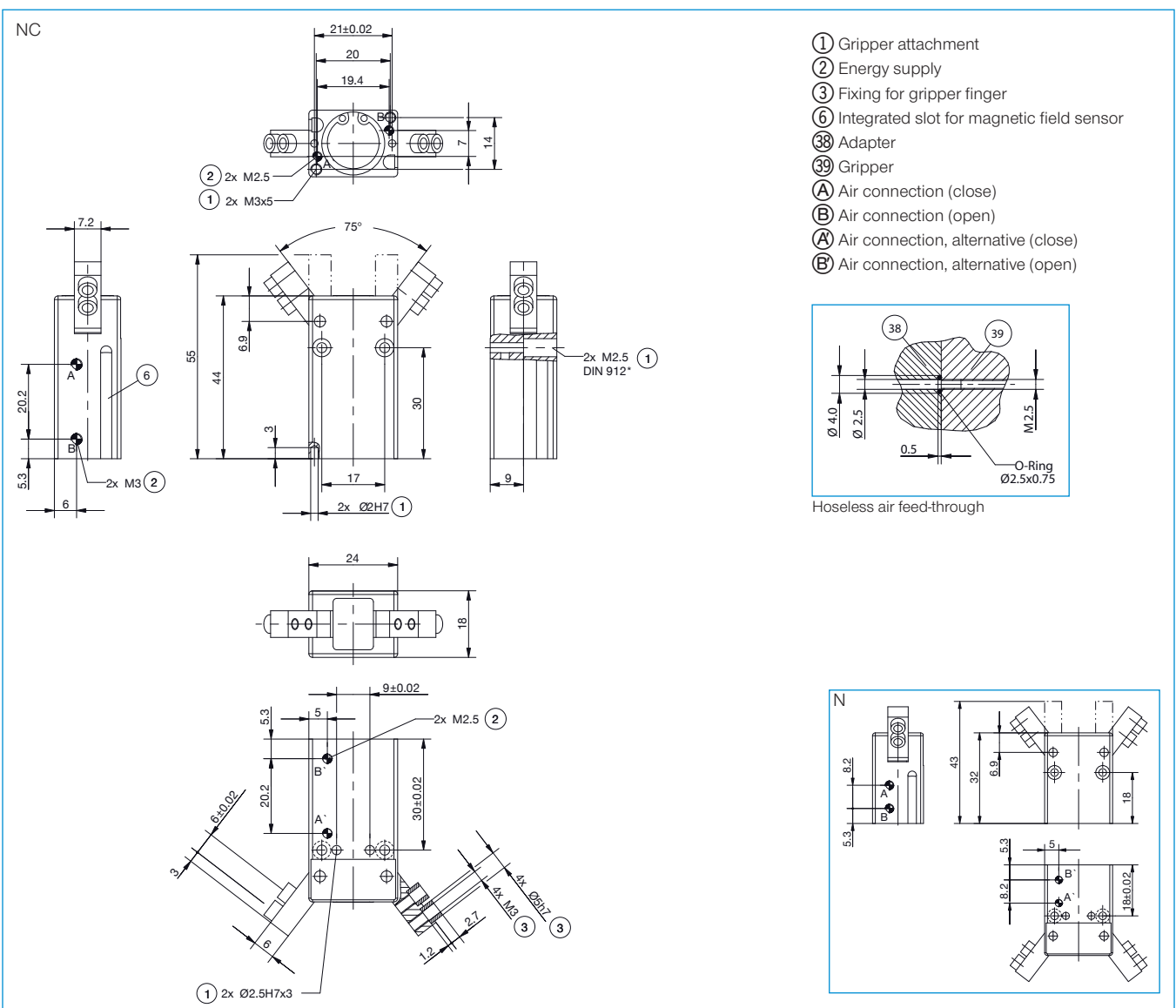


Quick Exhaust Valve

DEV04

Order no.	Technical Data*	
	MGW804N	MGW804NC
Stroke per jaw [°]	37.5	37.5
Gripping moment in closing [Nm]	0.35	0.5
Gripping moment in opening [Nm]	0.41	
Gripping moment secured by spring min. [Nm]		
Gripping force in closing [N]	51	72
Gripping force in opening [N]	59	
Closing time [s]	0.02	0.02
Opening time [s]	0.02	0.03
Repetition accuracy +/- [mm]	0.05	0.05
Operating pressure min. [bar]	3	4
Operating pressure max. [bar]	8	8
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm³]	1.4	2
Weight [kg]	0.05	0.08

*All data measured at 6 bar



2-JAW ANGULAR GRIPPERS

INSTALLATION SIZE MGW806

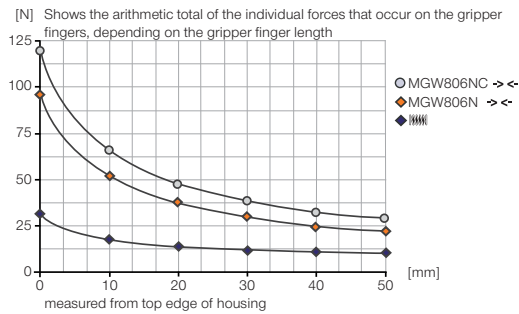
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Installation size MGW806 / 2-Jaw Angular Grippers / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS

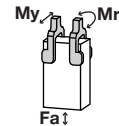


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	0.7
My [Nm]	0.7
Fa [N]	260

▶ INCLUDED IN DELIVERY



Centering Disc

DST40600

▶ RECOMMENDED ACCESSORIES



Magnetic field sensor
Angled Cable 5 m

MFS103KHC



Magnetic field sensor
Angled Cable 0,3 m -
Connector M8

MFS103SKHC



Magnetic field sensor
Straight Cable 5 m

MFS204KHC



Magnetic field sensor
Straight Cable 0,3 m -
Connector M8

MFS204SKHC



Straight Fittings - Barb
Style Connection

GVM3



Angled Fittings - Barb
Style Connection

WVM3

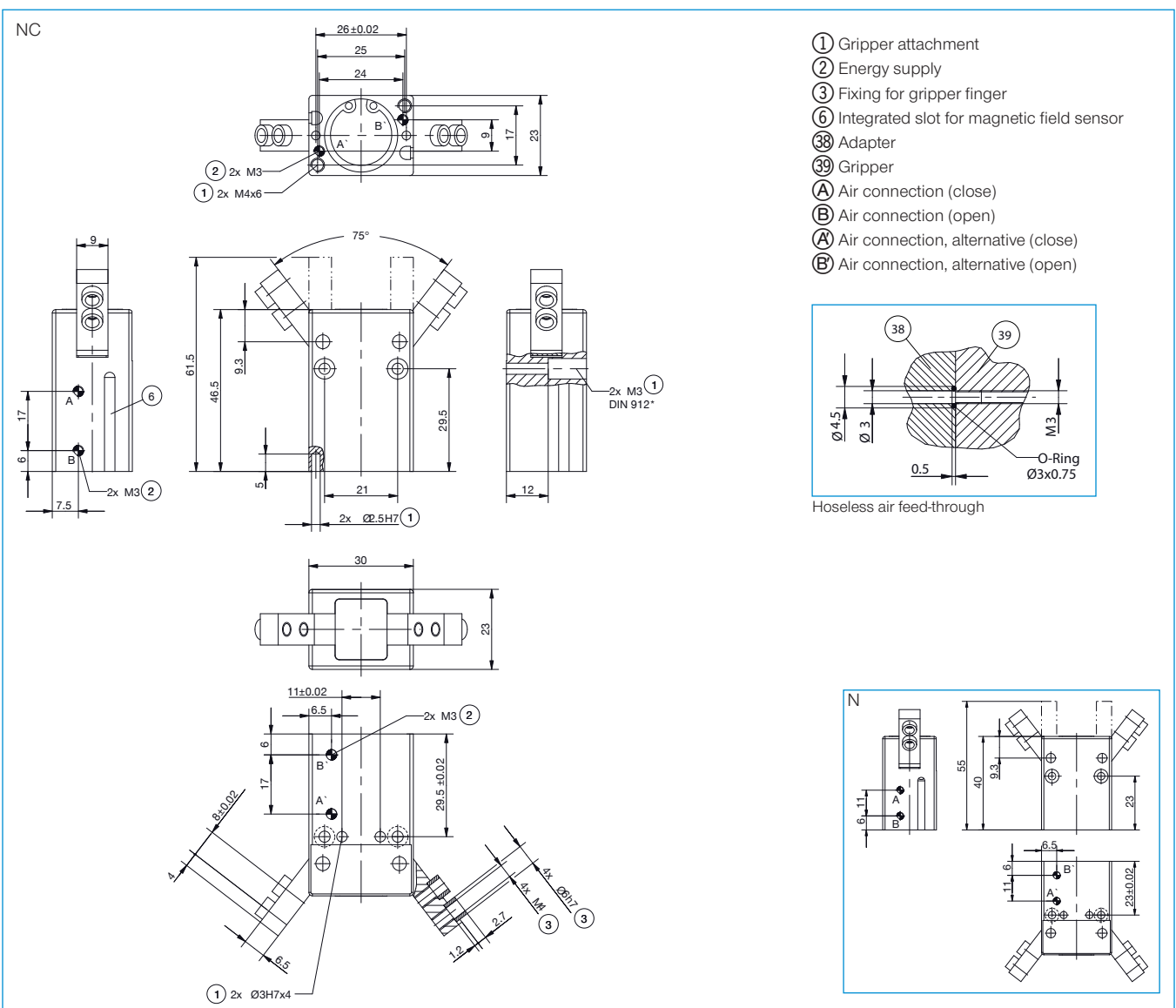


Quick Exhaust Valve

DEV04

Order no.	▶ Technical Data*	
	MGW806N	MGW806NC
Stroke per jaw [°]	37.5	37.5
Gripping moment in closing [Nm]	0.85	1.1
Gripping moment in opening [Nm]	1.02	
Gripping moment secured by spring min. [Nm]		0.25
Gripping force in closing [N]	91	118
Gripping force in opening [N]	110	
Closing time [s]	0.02	0.02
Opening time [s]	0.02	0.04
Repetition accuracy +/- [mm]	0.05	0.05
Operating pressure min. [bar]	3	4
Operating pressure max. [bar]	8	8
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm³]	2.4	3.4
Weight [kg]	0.1	0.12

*All data measured at 6 bar



2-JAW ANGULAR GRIPPERS

INSTALLATION SIZE MGW808

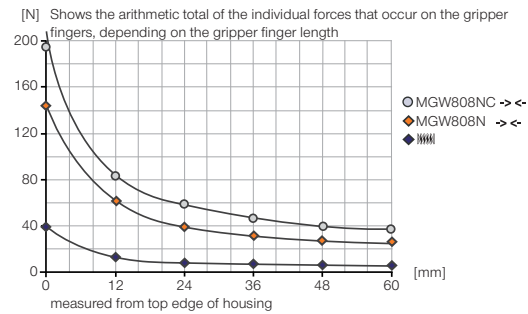
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Installation size MGW808 / 2-Jaw Angular Grippers / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS

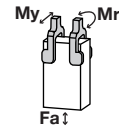


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	1.3
My [Nm]	1.3
Fa [N]	430

▶ INCLUDED IN DELIVERY



Centering Disc

DST40600

▶ RECOMMENDED ACCESSORIES



Magnetic field sensor
Angled Cable 5 m

MFS103KHC



Magnetic field sensor
Angled Cable 0,3 m -
Connector M8

MFS103SKHC



Magnetic field sensor
Straight Cable 5 m

MFS204KHC



Magnetic field sensor
Straight Cable 0,3 m -
Connector M8

MFS204SKHC



Straight Fittings - Barb
Style Connection

GVM3



Angled Fittings - Barb
Style Connection

WVM3

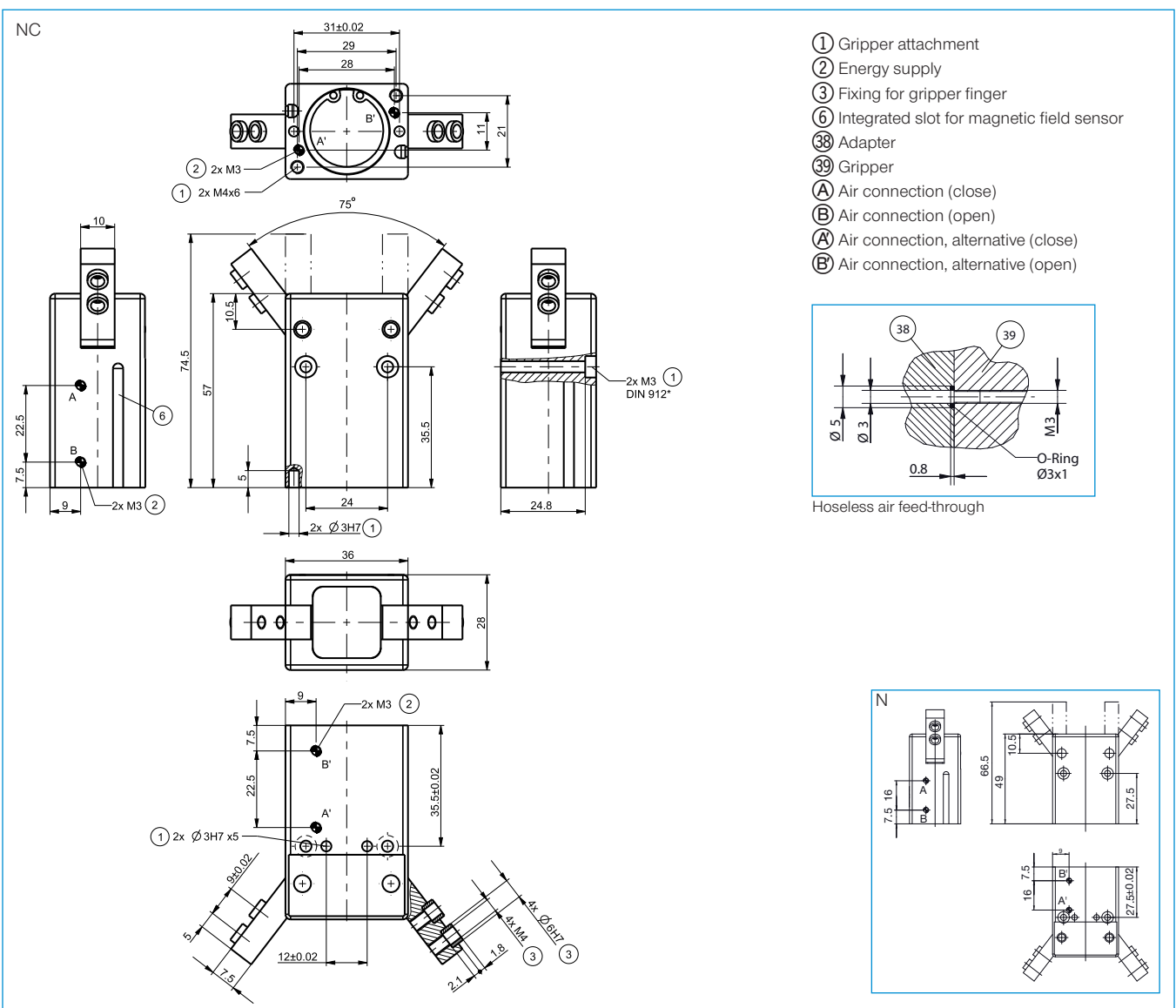


Quick Exhaust Valve

DEV04

Order no.	Technical Data*	
	MGW808N	MGW808NC
Stroke per jaw [°]	37.5	37.5
Gripping moment in closing [Nm]	1.55	2
Gripping moment in opening [Nm]	1.76	
Gripping moment secured by spring min. [Nm]		0.45
Gripping force in closing [N]	148	190
Gripping force in opening [N]	168	
Closing time [s]	0.02	0.02
Opening time [s]	0.02	0.04
Repetition accuracy +/- [mm]	0.05	0.05
Operating pressure min. [bar]	3	4
Operating pressure max. [bar]	8	8
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm³]	8.1	10.5
Weight [kg]	0.18	0.19

*All data measured at 6 bar



2-JAW ANGULAR GRIPPERS

INSTALLATION SIZE MGW810

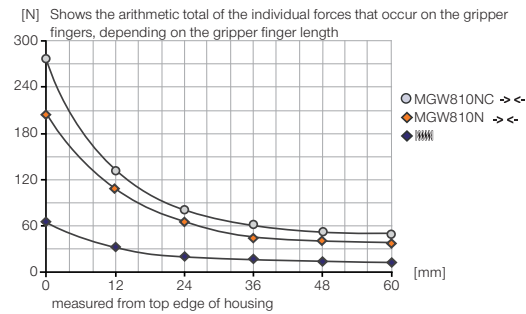
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Installation size MGW810 / 2-Jaw Angular Grippers / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS

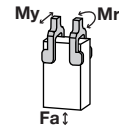


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	1.6
My [Nm]	1.6
Fa [N]	500

▶ INCLUDED IN DELIVERY



Centering Disc

DST07540

▶ RECOMMENDED ACCESSORIES



Magnetic field sensor
Angled Cable 5 m

MFS103KHC



Magnetic field sensor
Angled Cable 0,3 m -
Connector M8

MFS103SKHC



Magnetic field sensor
Straight Cable 5 m

MFS204KHC



Magnetic field sensor
Straight Cable 0,3 m -
Connector M8

MFS204SKHC



Straight Fittings - Quick
Connect Style

GVM5



Angled Fittings - Quick
Connect Style

WVM5



Quick Exhaust Valve

DEV04

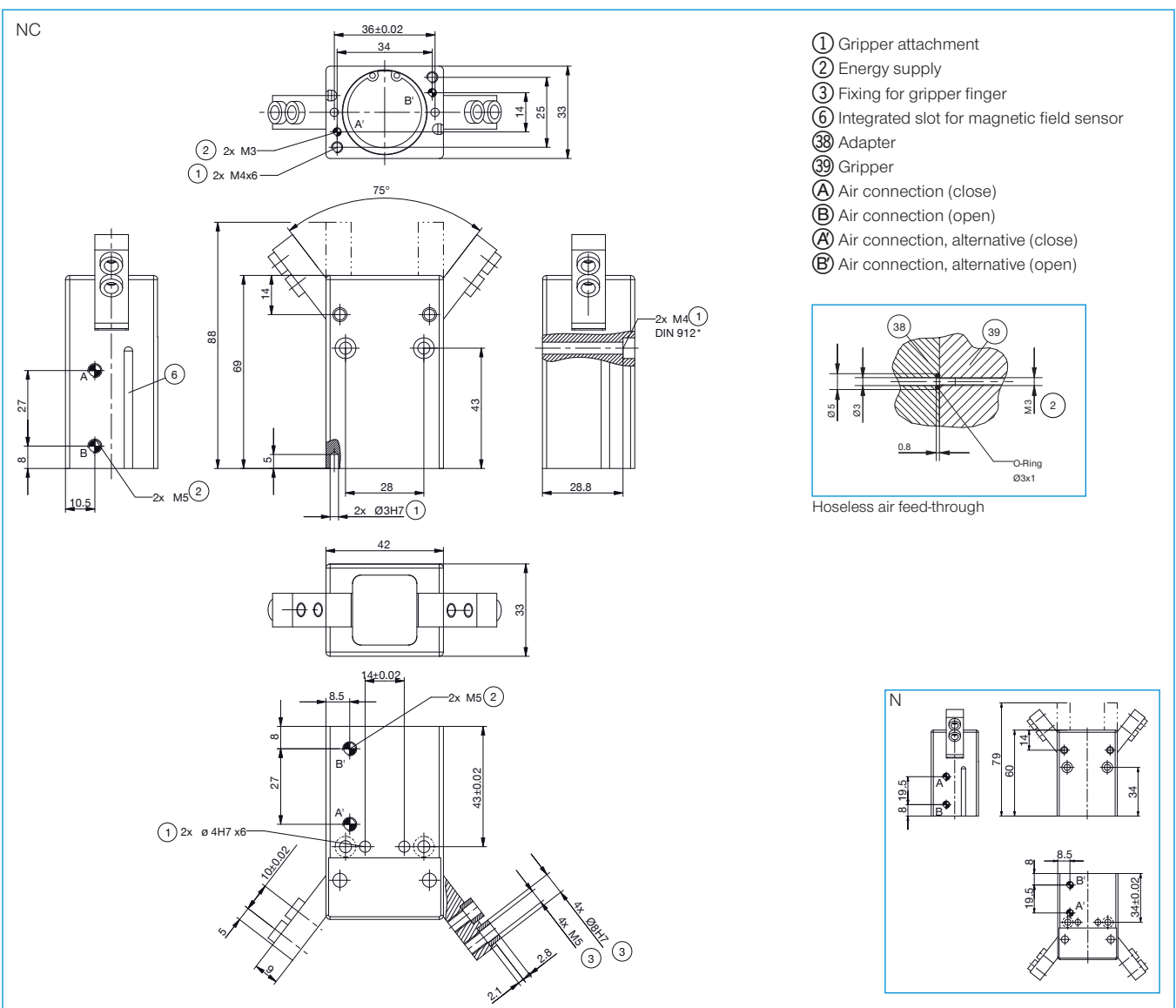


Pressure Safety Valve

DSV1-8

Order no.	▶ Technical Data*	
	MGW810N	MGW810NC
Stroke per jaw [°]	37.5	37.5
Gripping moment in closing [Nm]	2.9	3.8
Gripping moment in opening [Nm]	3.3	
Gripping moment secured by spring min. [Nm]		0.9
Gripping force in closing [N]	205	270
Gripping force in opening [N]	235	
Closing time [s]	0.03	0.03
Opening time [s]	0.03	0.06
Repetition accuracy +/- [mm]	0.05	0.05
Operating pressure min. [bar]	3	4
Operating pressure max. [bar]	8	8
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm³]	14.1	18.4
Weight [kg]	0.28	0.31

*All data measured at 6 bar



2-JAW ANGULAR GRIPPERS

INSTALLATION SIZE MGW812

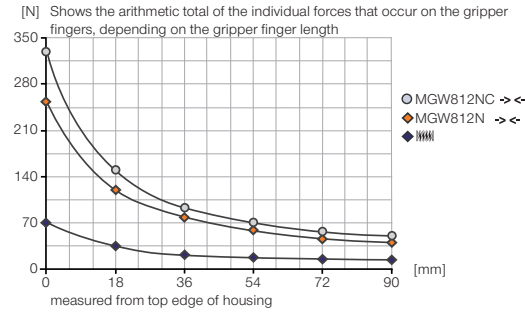
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Installation size MGW812 / 2-Jaw Angular Grippers / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS

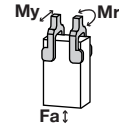


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	2.3
My [Nm]	2.3
Fa [N]	720

▶ INCLUDED IN DELIVERY



Centering Disc

DST07540

▶ RECOMMENDED ACCESSORIES



Magnetic field sensor
Angled Cable 5 m

MFS103KHC



Magnetic field sensor
Angled Cable 0,3 m -
Connector M8

MFS103SKHC



Magnetic field sensor
Straight Cable 5 m

MFS204KHC



Magnetic field sensor
Straight Cable 0,3 m -
Connector M8

MFS204SKHC



Straight Fittings - Quick
Connect Style

GVM5



Angled Fittings - Quick
Connect Style

WVM5



Quick Exhaust Valve

DEV04



Pressure Safety Valve

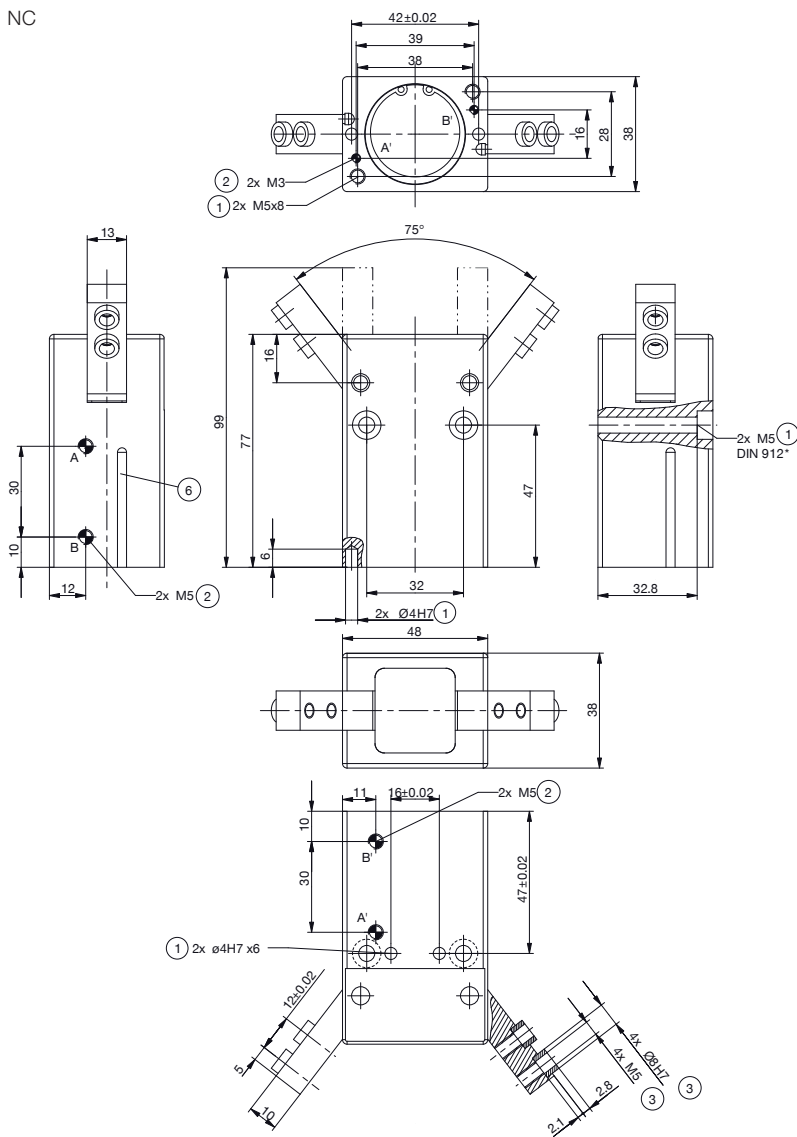
DSV1-8

► Technical Data*

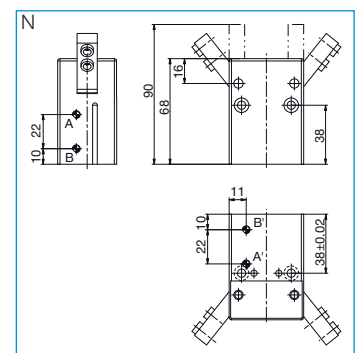
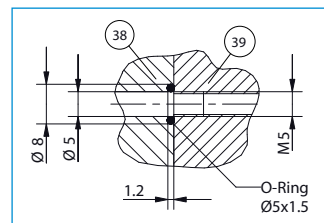
Order no.	MGW812N	MGW812NC
Stroke per jaw [°]	37.5	37.5
Gripping moment in closing [Nm]	4.1	5.2
Gripping moment in opening [Nm]	4.55	
Gripping moment secured by spring min. [Nm]		1.1
Gripping force in closing [N]	255	325
Gripping force in opening [N]	285	
Closing time [s]	0.03	0.03
Opening time [s]	0.03	0.06
Repetition accuracy +/- [mm]	0.05	0.05
Operating pressure min. [bar]	3	4
Operating pressure max. [bar]	8	8
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm ³]	22.1	27.6
Weight [kg]	0.4	0.45

*All data measured at 6 bar

NC



- ① Gripper attachment
- ② Energy supply
- ③ Fixing for gripper finger
- ⑥ Integrated slot for magnetic field sensor
- ③⑧ Adapter
- ③⑨ Gripper
- Ⓐ Air connection (close)
- Ⓑ Air connection (open)
- Ⓐ Air connection, alternative (close)
- Ⓑ Air connection, alternative (open)



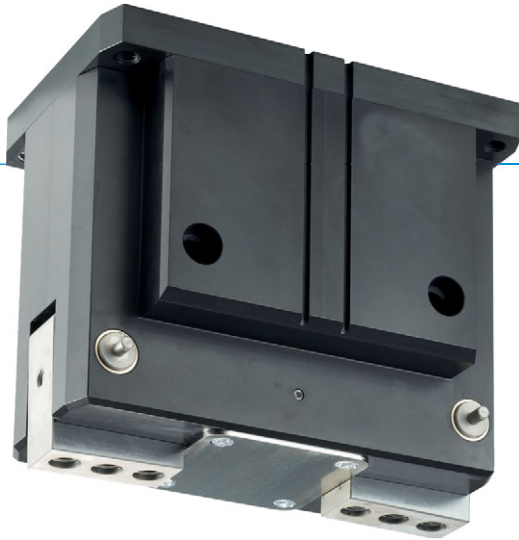
2-JAW ANGULAR GRIPPERS

SERIES GG1000

1

Series GG1000 / 2-Jaw Angular Grippers / pneumatic / Grippers

▶ PRODUCT ADVANTAGES



“The strong”

▶ High gripping force

Using the high gripping force, you can safely handle even the heaviest workpieces

▶ High moment load

The generously scaled angular gear box provides the highest possible durability for your application

▶ Failure-free continuous operation

Our uncompromising “Made in Germany” quality guarantees up to 10 million maintenance-free gripping cycles

▶ THE BEST PRODUCT FOR YOUR APPLICATION



▶ Our products love the challenge!

Extreme conditions, all over the world—our tried and tested components and systems give you limitless possibilities:

Find the best product for your specific use:

www.zimmer-group.com

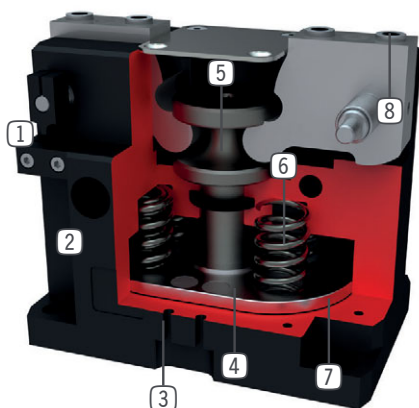
HOW TO ORDER CORRECTLY

- ▶ The product order numbers are arranged according to this diagram:

Order no.	GG1065	<input type="checkbox"/>	NC	
Gripper jaws with mounting possibility on the side		F		



► BENEFITS IN DETAIL



- ① **Cam-switch and mounting block**
- for position sensing
- ② **Robust, lightweight housing**
- Hard-coated aluminum alloy
- ③ **Sensing slot**
- groove for positioning of the magnetic field sensor
- ④ **Permanent magnet**
- sensing of the piston setting position via magnetic field sensors
- ⑤ **Positively driven lever mechanism**
- synchronized the movement of the gripper jaws
- ⑥ **Integrated gripping force safety device**
- spring integrated into cylinder as energy storage
- ⑦ **Drive**
- double-acting pneumatic cylinder
- ⑧ **Removable centering sleeves**
- quick and economical positioning of the gripper fingers

► SERIES CHARACTERISTICS



Number of installation sizes	4
Stroke per jaw	20°
Gripping force	2910 N - 29110 N
Weight	1,3 kg - 13 kg
AP class	3



10 million maintenance-free cycles (max.)



IP40



Spring closing C



Magnetic field sensor



Inductive sensor



Purged air

2-JAW ANGULAR GRIPPERS

INSTALLATION SIZE GG1065

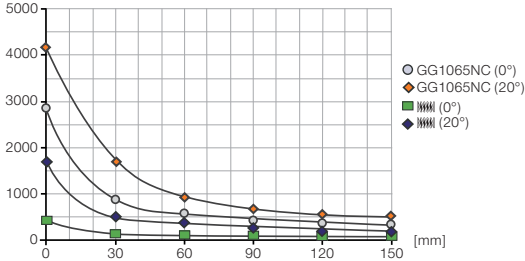
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▶ PRODUCT SPECIFICATIONS



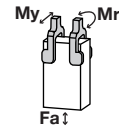
▶ Gripping force diagram

Shows the arithmetic total of the individual forces that occur on the gripper fingers, depending on the gripper finger length



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	20
My [Nm]	20
Fa [N]	330

▶ INCLUDED IN DELIVERY



Centering Disc

DST40800

▶ RECOMMENDED ACCESSORIES



Stroke adjustment screw

HES0009



Mounting block

KB8-43



Alternate proximity bracket

KHA1065-8



Inductive proximity switch - Connector M8

NJ8-E2S



Magnetic field sensor Angled Cable 0,3 m - Connector M8

MFS103SKHC



Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



2-Position-Sensor Cable 0,3 m - Connector M8

MFSP2SKHC-02



Plug-in connector Straight Cable 5m - Socket M8 (female)

KAG500



Plug-in connector Angled Cable 5m - Socket M8 (female)

KAW500



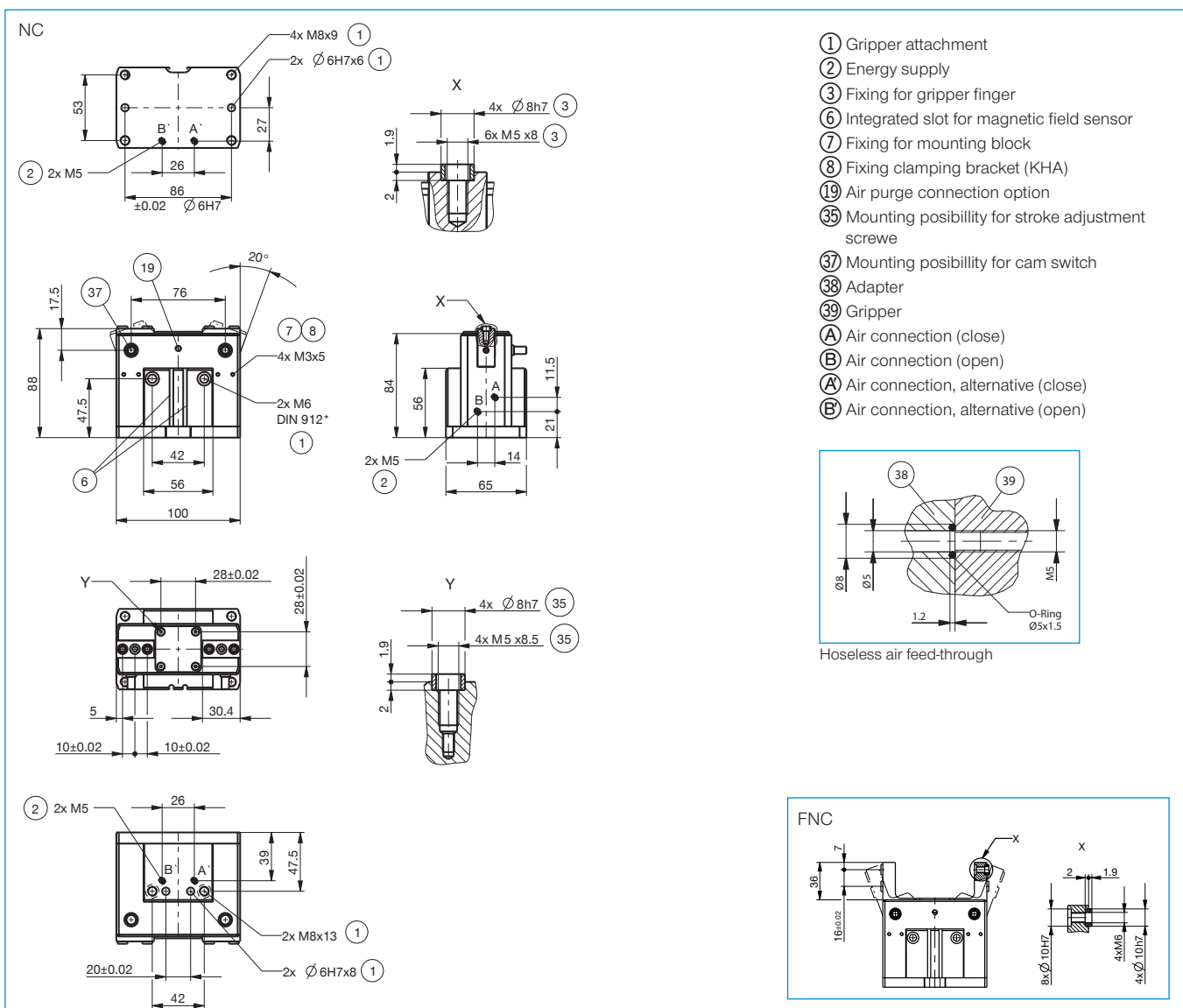
Straight Fittings - Quick Connect Style

GVM5

Order no.	► Technical Data*	
	GG1065NC	GG1065FNC
Stroke per jaw [°]	20	20
Gripping moment in closing max. [Nm]	39	39
Gripping moment secured by spring min. [Nm]	6.5	6.5
Gripping force in closing max. (at 0°) [N]**	2910	2910
Gripping force in closing max. (at 20°) [N]**	4160	4160
Gripping force secured by spring (at 0°) [N]	490	490
Gripping force secured by spring (at 20°) [N]	1745	1745
Closing time [s]	0.04	0.04
Opening time [s]	0.07	0.07
Repetition accuracy +/- [mm]	0.05	0.05
Operating pressure min. [bar]	4	4
Operating pressure max. [bar]	8	8
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm ³]	68	68
Weight [kg]	1.3	1.4

*All data measured at 6 bar

** Measured from top edge of jaws



2-JAW ANGULAR GRIPPERS

INSTALLATION SIZE GG1085

1

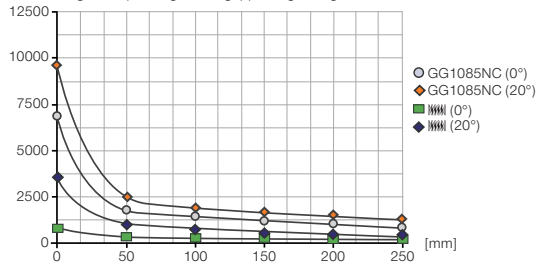
Installation size GG1085 / 2-Jaw Angular Grippers / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS



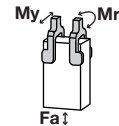
▶ Gripping force diagram

Shows the arithmetic total of the individual forces that occur on the gripper fingers, depending on the gripper finger length



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	40
My [Nm]	50
Fa [N]	600

▶ INCLUDED IN DELIVERY



Centering Disc

DST41000

▶ RECOMMENDED ACCESSORIES



Stroke adjustment screw

HES0006



Mounting block

KB8-43



Alternate proximity bracket

KHA1085-8



Inductive proximity switch - Connector M8

NJ8-E2S



Magnetic field sensor Angled Cable 0,3 m - Connector M8

MFS103SKHC



Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



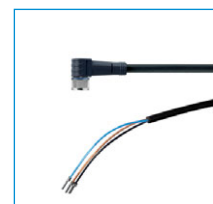
2-Position-Sensor Cable 0,3 m - Connector M8

MFSP2SKHC-02



Plug-in connector Straight Cable 5m - Socket M8 (female)

KAG500



Plug-in connector Angled Cable 5m - Socket M8 (female)

KAW500



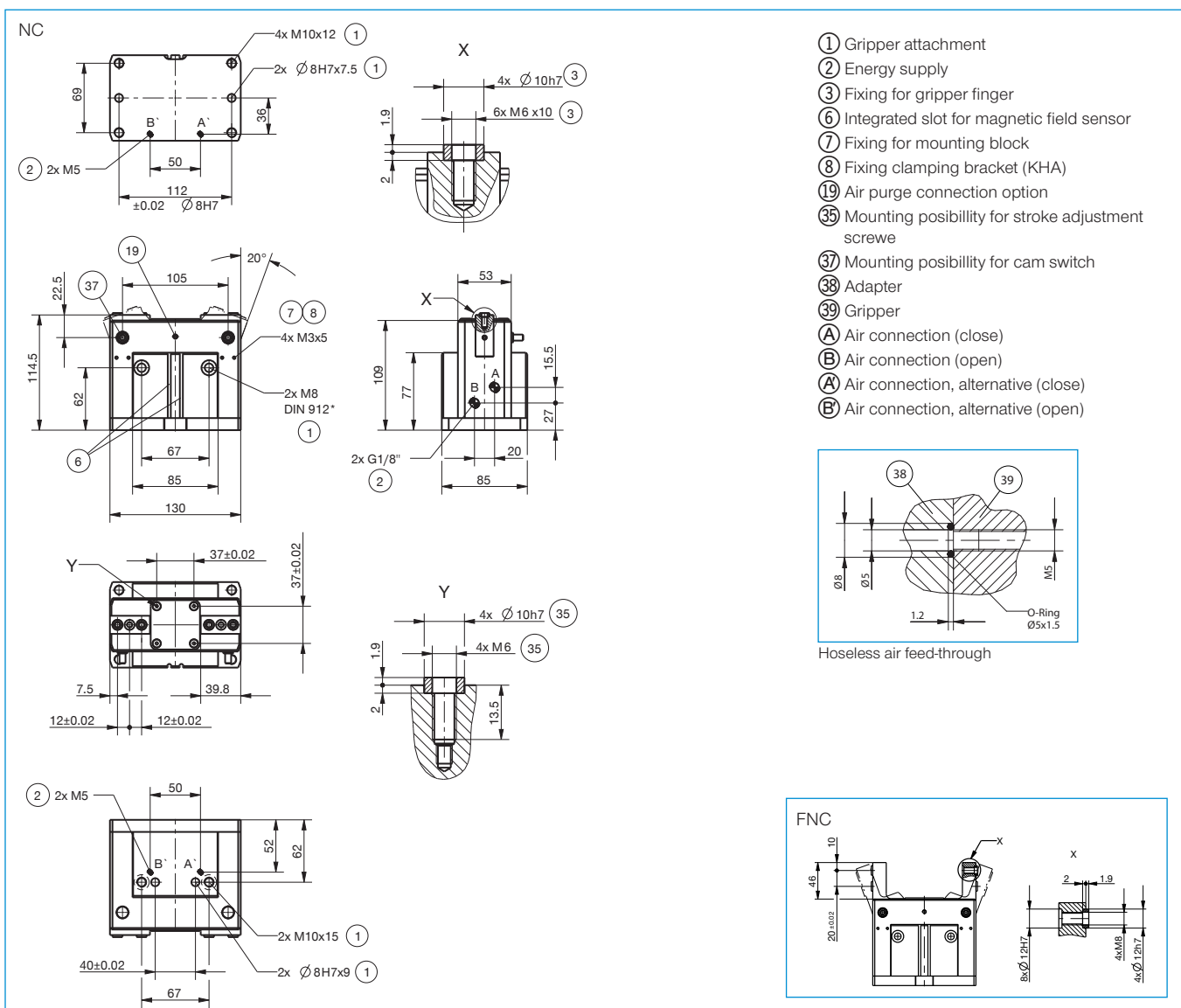
Straight Fittings - Quick Connect Style

GV1-8X6

Order no.	Technical Data*	
	GG1085NC	GG1085FNC
Stroke per jaw [°]	20	20
Gripping moment in closing max. [Nm]	120	120
Gripping moment secured by spring min. [Nm]	18	18
Gripping force in closing max. (at 0°) [N]**	7120	7120
Gripping force in closing max. (at 20°) [N]**	9670	9670
Gripping force secured by spring (at 0°) [N]	1040	1040
Gripping force secured by spring (at 20°) [N]	3600	3600
Closing time [s]	0.05	0.05
Opening time [s]	0.1	0.1
Repetition accuracy +/- [mm]	0.05	0.05
Operating pressure min. [bar]	4	4
Operating pressure max. [bar]	8	8
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm³]	145	145
Weight [kg]	2.8	3.2

* All data measured at 6 bar

** Measured from top edge of jaws



2-JAW ANGULAR GRIPPERS

INSTALLATION SIZE GG1110

1

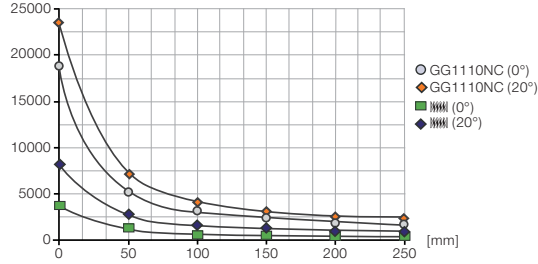
Installation size GG1110 / 2-Jaw Angular Grippers / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS



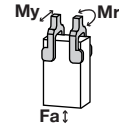
▶ Gripping force diagram

Shows the arithmetic total of the individual forces that occur on the gripper fingers, depending on the gripper finger length



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	60
My [Nm]	65
Fa [N]	1000

▶ INCLUDED IN DELIVERY



Centering Disc

DST41600

▶ RECOMMENDED ACCESSORIES



Stroke adjustment screw

HES0007



Mounting block

KB8-43



Alternate proximity bracket

KHA1110-8



Inductive proximity switch - Connector M8

NJ8-E2S



Magnetic field sensor Angled Cable 0,3 m - Connector M8

MFS103SKHC



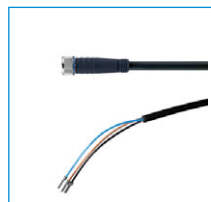
Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



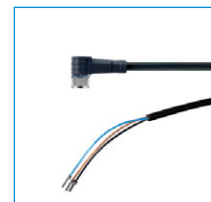
2-Position-Sensor Cable 0,3 m - Connector M8

MFSP2SKHC-02



Plug-in connector Straight Cable 5m - Socket M8 (female)

KAG500



Plug-in connector Angled Cable 5m - Socket M8 (female)

KAW500



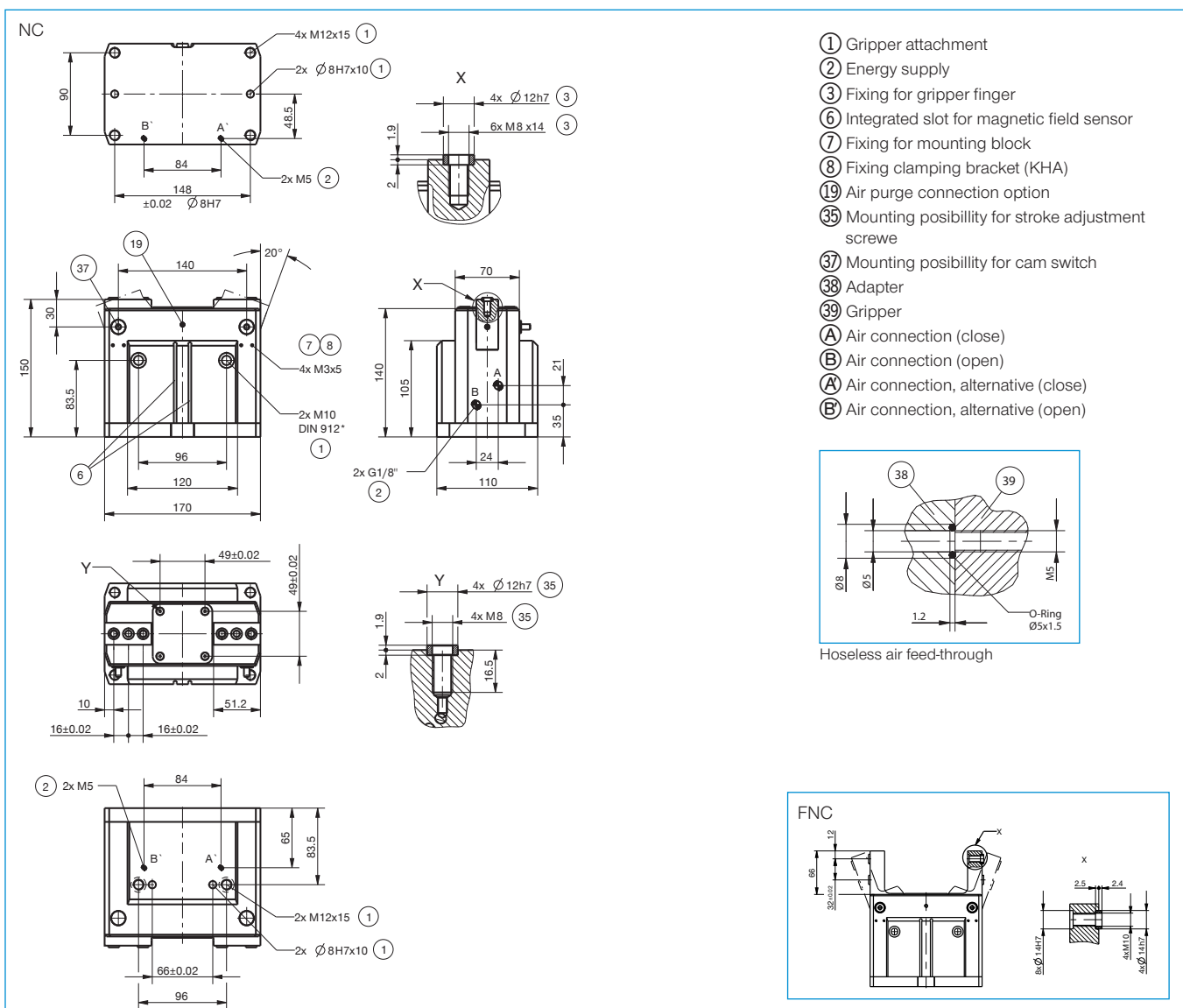
Straight Fittings - Quick Connect Style

GV1-8X6

Order no.	Technical Data*	
	GG1110NC	GG1110FNC
Stroke per jaw [°]	20	20
Gripping moment in closing max. [Nm]	370	370
Gripping moment secured by spring min. [Nm]	75	75
Gripping force in closing max. (at 0°) [N]**	18665	18665
Gripping force in closing max. (at 20°) [N]**	23240	23240
Gripping force secured by spring (at 0°) [N]	3760	3760
Gripping force secured by spring (at 20°) [N]	8340	8340
Closing time [s]	0.16	0.16
Opening time [s]	0.27	0.27
Repetition accuracy +/- [mm]	0.05	0.05
Operating pressure min. [bar]	4	4
Operating pressure max. [bar]	8	8
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm³]	455	455
Weight [kg]	6.3	6.7

* All data measured at 6 bar

** Measured from top edge of jaws



2-JAW ANGULAR GRIPPERS

INSTALLATION SIZE GG1140

1

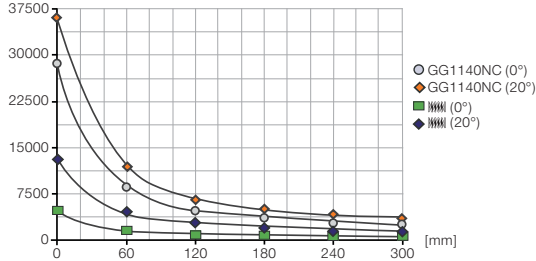
Installation size GG1140 / 2-Jaw Angular Grippers / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS



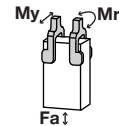
▶ Gripping force diagram

Shows the arithmetic total of the individual forces that occur on the gripper fingers, depending on the gripper finger length



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	110
My [Nm]	120
Fa [N]	1500

▶ INCLUDED IN DELIVERY



Centering Disc

DST42000

▶ RECOMMENDED ACCESSORIES



Stroke adjustment screw

HES0008



Mounting block

KB8-43



Alternate proximity bracket

KHA1140-8



Inductive proximity switch - Connector M8

NJ8-E2S



Magnetic field sensor Angled Cable 0,3 m - Connector M8

MFS103SKHC



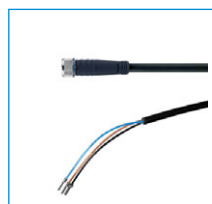
Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



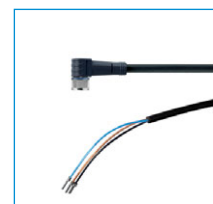
2-Position-Sensor Cable 0,3 m - Connector M8

MFSP2SKHC-02



Plug-in connector Straight Cable 5m - Socket M8 (female)

KAG500



Plug-in connector Angled Cable 5m - Socket M8 (female)

KAW500



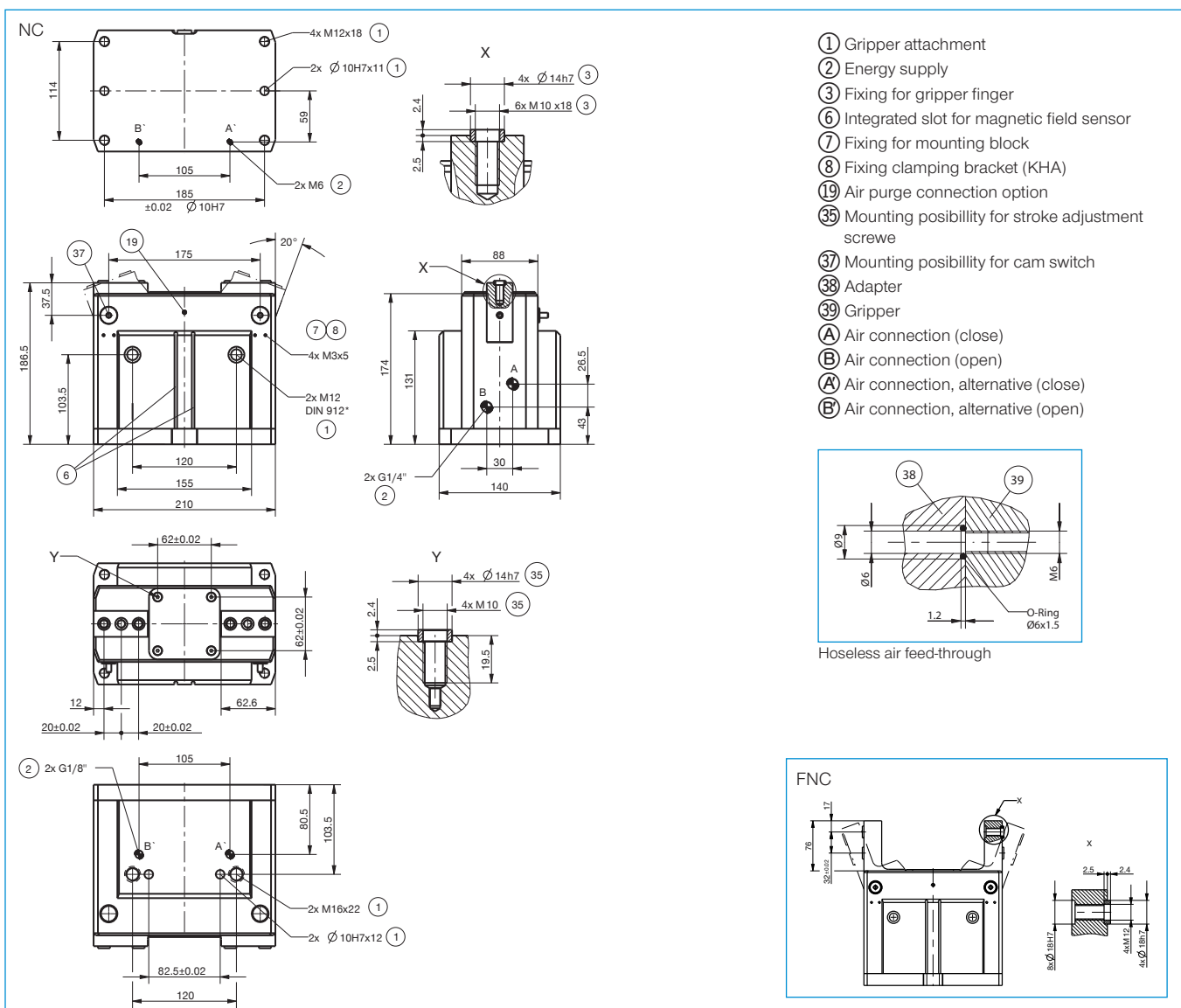
Straight Fittings - Quick Connect Style

GV1-4X8

Order no.	Technical Data*	
	GG1140NC	GG1140FNC
Stroke per jaw [°]	20	20
Gripping moment in closing max. [Nm]	725	725
Gripping moment secured by spring min. [Nm]	143	143
Gripping force in closing max. (at 0°) [N]**	29110	29110
Gripping force in closing max. (at 20°) [N]**	36470	36470
Gripping force secured by spring (at 0°) [N]	5740	5740
Gripping force secured by spring (at 20°) [N]	13110	13110
Closing time [s]	0.25	0.25
Opening time [s]	0.5	0.5
Repetition accuracy +/- [mm]	0.05	0.05
Operating pressure min. [bar]	4	4
Operating pressure max. [bar]	8	8
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm³]	760	760
Weight [kg]	12.4	13

*All data measured at 6 bar

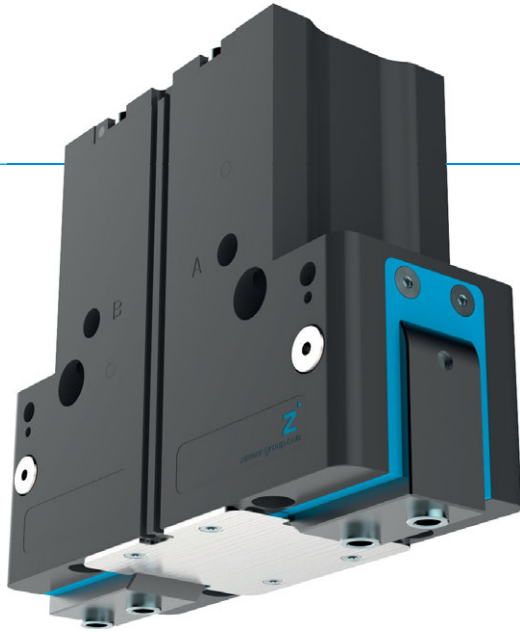
** Measured from top edge of jaws



2-JAW ANGULAR GRIPPERS

SERIES GPW5000

▶ PRODUCT ADVANTAGES



“The Universal One”

- ▶ **Highest performance with the smallest dimensions**
Features a one-of-a-kind ratio of net mass to gripper finger length and gripping moment. The performance of your machine is increased as a result.
- ▶ **Versatile applicability**
Thanks to standard functionality such as IP64 and corrosion protection, you are able to use these grippers in almost any of your applications. Even the toughest environments are no problem.
- ▶ **Robust and process-reliable**
Thanks to a maintenance-free design up to 30 million cycles and the most solid force transmission possible, process assurance is maximized.

▶ THE BEST PRODUCT FOR YOUR APPLICATION



- ▶ **Our products love the challenge!**
Extreme conditions, all over the world—our tried and tested components and systems give you limitless possibilities:
Find the best product for your specific use:
www.zimmer-group.com

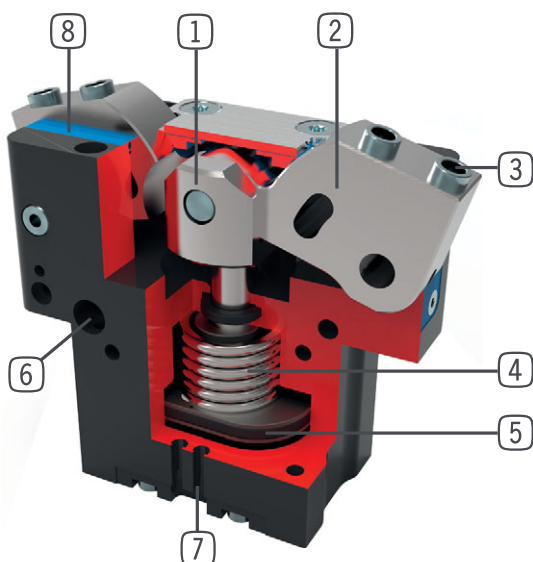
HOW TO ORDER CORRECTLY

- ▶ The product order numbers are arranged according to this diagram:

Order no.	GPW5013	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-A
Basis version		N			
For external gripping, self-locking, spring closing			C		
Temperature-resistant version up to 130°C				20	



► BENEFITS IN DETAIL



- ① **Positively driven lever mechanism**
 - synchronized the movement of the gripper jaws
- ② **Gripper jaw**
 - Gripper fingers mounted using removable centring sleeves
- ③ **Removable centering sleeves**
 - quick and economical positioning of the gripper fingers
- ④ **Integrated gripping force safety device**
 - Spring built into cylinder chamber as an energy store
- ⑤ **Drive**
 - Double-acting pneumatic rotor cylinder
- ⑥ **Mounting and positioning**
 - Alternatively, on several sides for customized mounting
- ⑦ **Sensing slot**
 - mounting and positioning of magnetic field sensors
- ⑧ **Dual lip seal**
 - IP64
 - Prevents grease from being squeezed out, increasing service life

► SERIES CHARACTERISTICS



Number of installation sizes	3
Stroke per jaw	+15° / -2°
Gripping force	1330 N - 14500 N
Weight	0,9 kg - 12,1 kg
AP class	5



30 million maintenance-free cycles (max.)



IP64



Temperature-resistant



Spring closing C



Corrosion resistance



Purged air



Inductive sensor



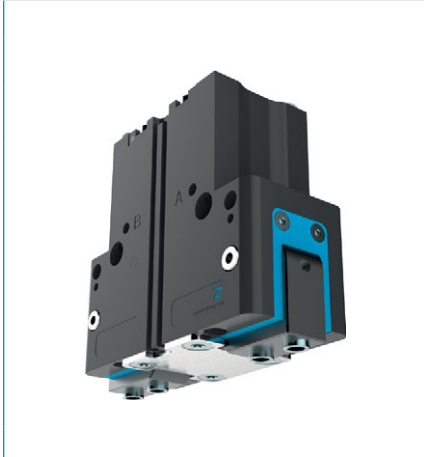
Magnetic field sensor

2-JAW ANGULAR GRIPPERS

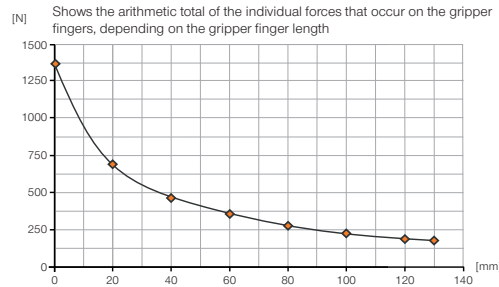
INSTALLATION SIZE GPW5008

1

▶ PRODUCT SPECIFICATIONS

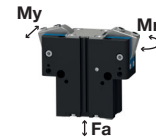


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	65
My [Nm]	60
Fa [N]	1900

▶ TECHNICAL DATA

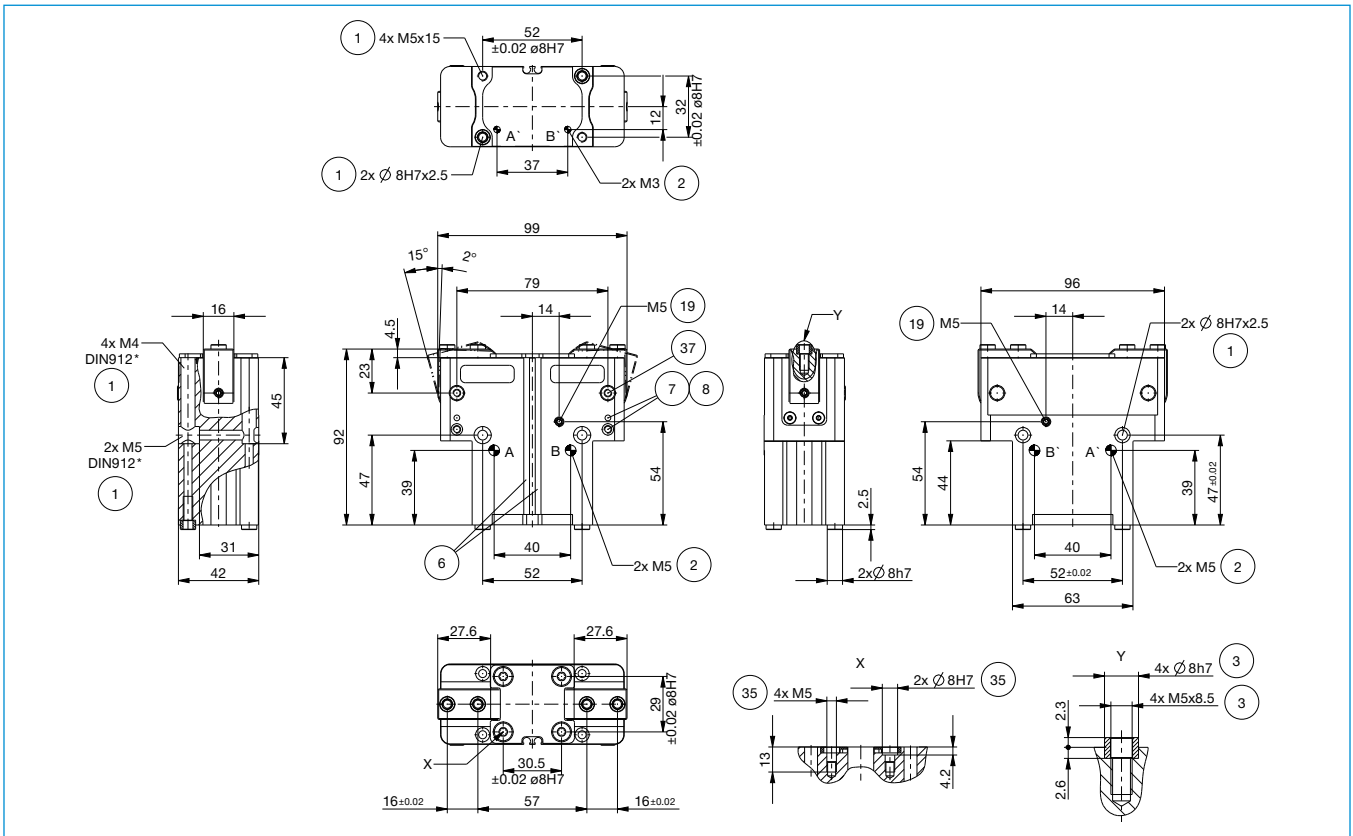
Order no.	Technical Data*
Stroke per jaw [°]	+15/-2
Gripping moment in closing max. [Nm]	33
Gripping moment secured by spring min. [Nm]	7.5
Gripping force in closing max. (at 0°) [N]*	1450
Length of the gripper fingers max. [mm]	115
Permissible weight per jaw max [kg]	0.7
Closing time [s]	0.1
Opening time [s]	0.17
Repetition accuracy +/- [mm]	0.01
Operating pressure [bar]	4 ... 8
Operating temperature [°C]	-10 ... +90
Air volume per cycle [cm³]	35
Protection to IEC 60529	IP64
Weight [kg]	0.9

Order no.	Technical Data - High Temperature Version
Operating temperature [°C]	-10 ... +130

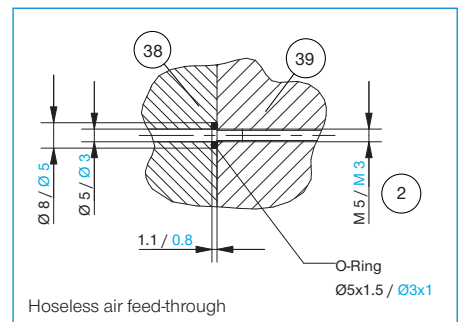
* All data measured at 6 bar

** Measured from top edge of housing

TECHNICAL DRAWINGS

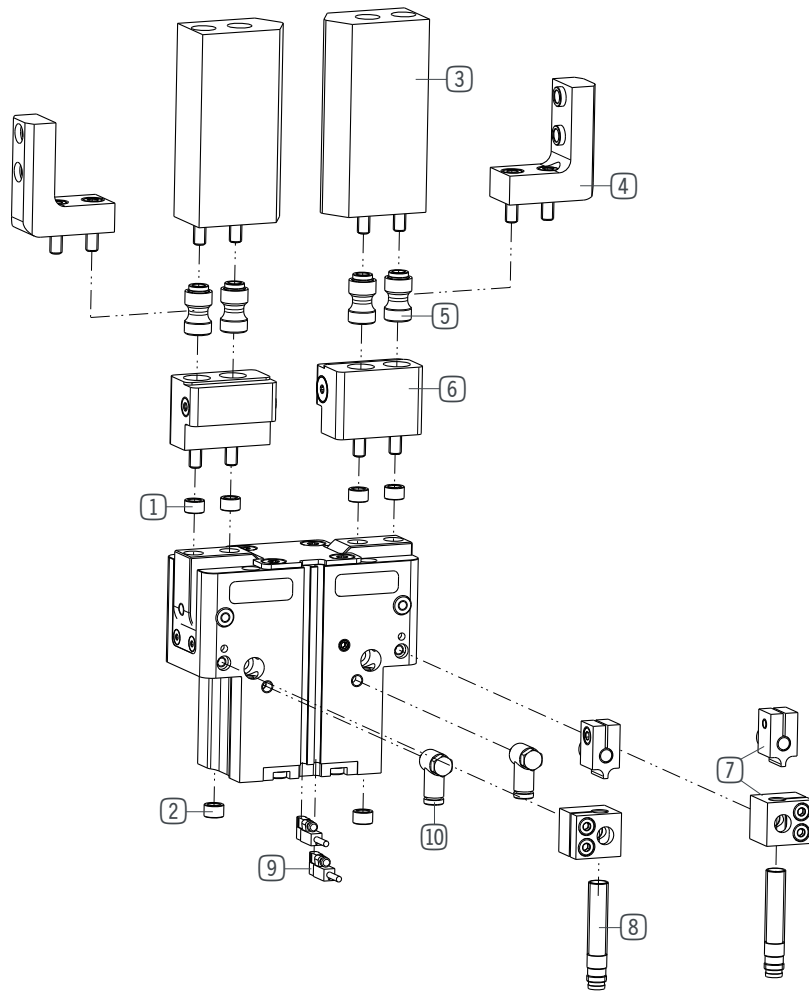


- | | |
|----------------------------------------------|----------------------------------------|
| ① Gripper attachment | screwe |
| ② Energy supply | ③⑦ Mounting possibility for cam switch |
| ③ Fixing for gripper finger | ③⑧ Adapter |
| ⑥ Integrated slot for magnetic field sensor | ③⑨ Gripper |
| ⑦ Fixing for mounting block | Ⓐ Air connection (close) |
| ⑧ Fixing clamping bracket (KHA) | Ⓑ Air connection (open) |
| ⑱ Air purge connection option | Ⓐ Air connection, alternative (close) |
| ⑳ Mounting possibility for stroke adjustment | Ⓑ Air connection, alternative (open) |



2-JAW ANGULAR GRIPPERS

INSTALLATION SIZE GPW5008



▶ INCLUDED IN DELIVERY



Centering Disc

024231

▶ RECOMMENDED ACCESSORIES



Universal jaw aluminium

UB5008AL



Universal jaw steel

UB5008ST



L-jaw

LB5008



Changeable jaw, loose-part-set

WB5008L



Changeable jaw, fix-part

WB5008F



Attachment Kit for Inductive Proximity Switch

ANS0084



Inductive proximity switch - Connector M8

NJ8-E2S



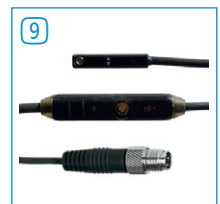
Magnetic field sensor Angled Cable 0,3 m - Connector M8

MFS103SKHC



Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



2-Position-Sensor Cable 0,3 m - Connector M8

MFSP2SKHC-02



Plug-in connector Straight Cable 5m - Socket M8 (female)

KAG500



Angled Fittings - Quick Connect Style

WVM5

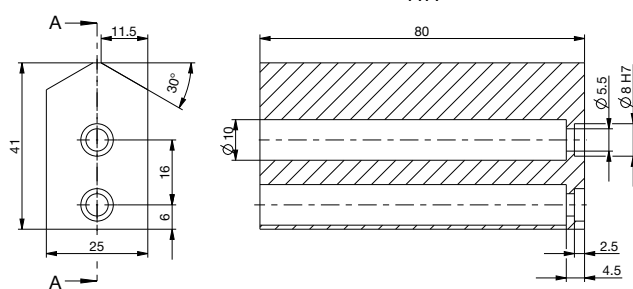


Pressure Safety Valve

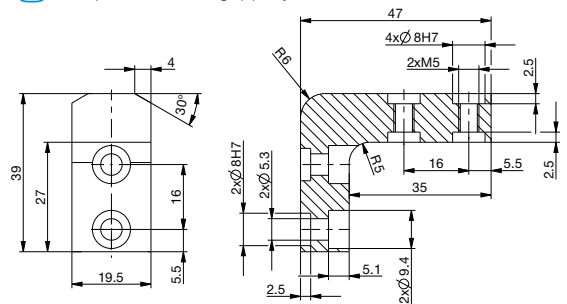
DSV1-8

▶ TECHNICAL DRAWINGS ACCESSORIES

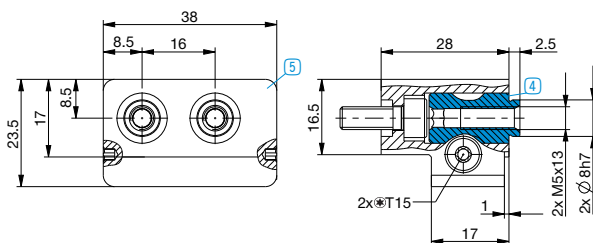
One universal jaw is required for each gripper jaw **3**



One L-jaw **4** is required for each gripper jaw



For each gripper jaw, one interchangeable jaw loose part set **5** and one interchangeable jaw fixed part **6** are needed



2-JAW ANGULAR GRIPPERS

INSTALLATION SIZE GPW5013

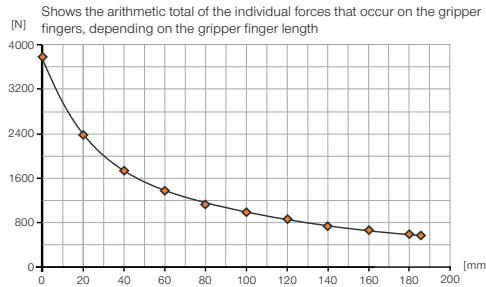
1

Installation size GPW5013 / 2-Jaw Angular Grippers / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS

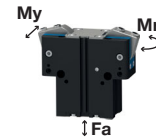


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	110
My [Nm]	130
Fa [N]	3300

▶ TECHNICAL DATA

Order no.	GPW5013NC-00-A
Stroke per jaw [°]	+15/-2
Gripping moment in closing max. [Nm]	130
Gripping moment secured by spring min. [Nm]	39.5
Gripping force in closing max. (at 0°) [N]	4200
Length of the gripper fingers max. [mm]	185
Permissible weight per jaw max [kg]	2.4
Closing time [s]	0.08
Opening time [s]	0.12
Repetition accuracy +/- [mm]	0.01
Operating pressure [bar]	4 ... 8
Operating temperature [°C]	-10 ... +90
Air volume per cycle [cm³]	160
Protection to IEC 60529	IP64
Weight [kg]	3

▶ Technical Data*

GPW5013NC-00-A

▶ Technical Data - High Temperature Version

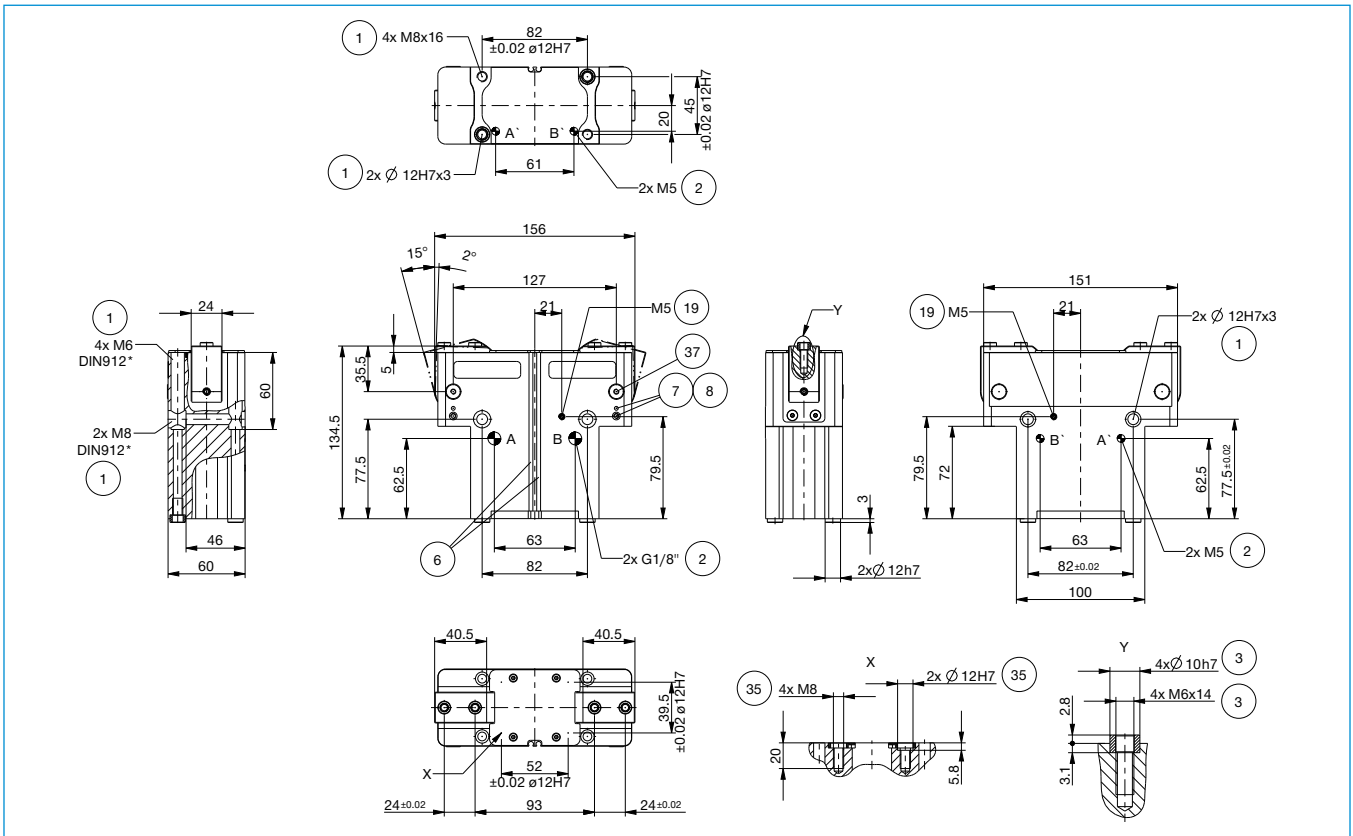
GPW5013NC-20-A

Order no.	GPW5013NC-20-A
Operating temperature [°C]	-10 ... +130

*All data measured at 6 bar

** Measured from top edge of housing

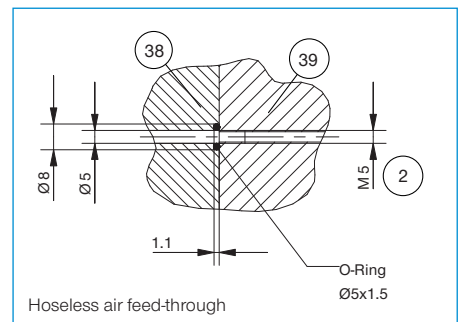
TECHNICAL DRAWINGS



- ① Gripper attachment
- ② Energy supply
- ③ Fixing for gripper finger
- ⑥ Integrated slot for magnetic field sensor
- ⑦ Fixing for mounting block
- ⑧ Fixing clamping bracket (KHA)
- ⑱ Air purge connection option
- ⑳ Mounting possibility for stroke adjustment

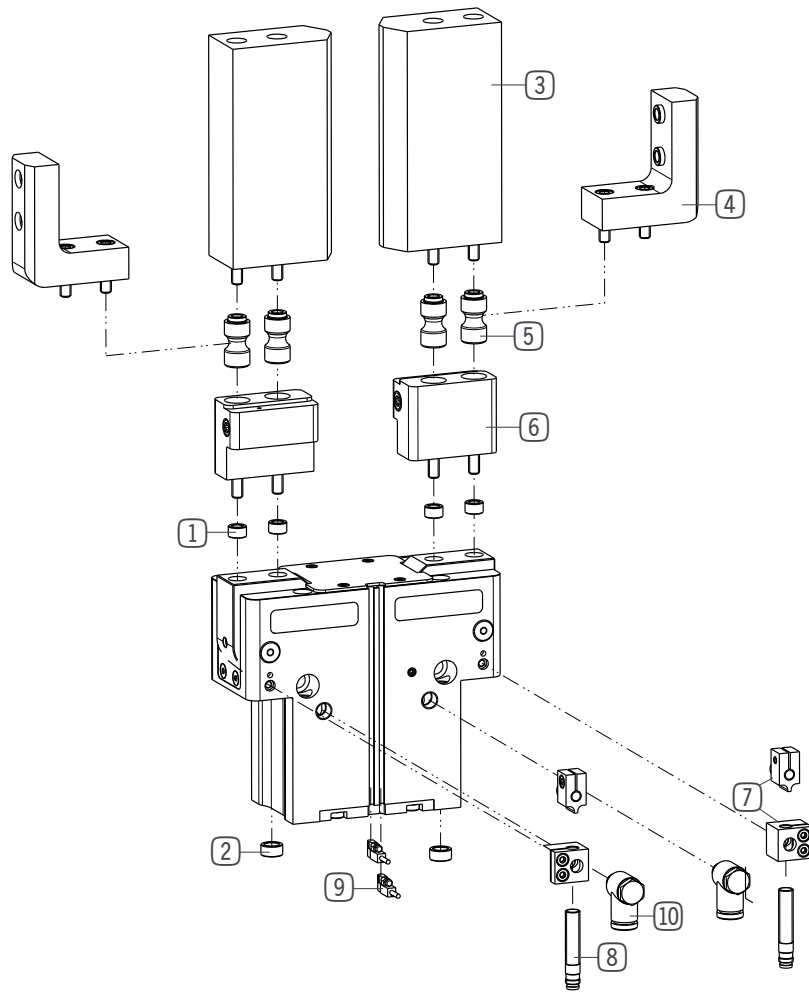
screwe

- ⑳ Mounting possibility for cam switch
- ㉑ Adapter
- ㉒ Gripper
- Ⓐ Air connection (close)
- Ⓑ Air connection (open)
- Ⓐ Air connection, alternative (close)
- Ⓑ Air connection, alternative (open)



2-JAW ANGULAR GRIPPERS

INSTALLATION SIZE GPW5013



► INCLUDED IN DELIVERY



Centering Disc

018187



Centering Disc

019280

▶ RECOMMENDED ACCESSORIES



Universal jaw aluminium

UB5013AL



Universal jaw steel

UB5013ST



L-jaw

LB5013



Changeable jaw, loose-part-set

WB5013L



Changeable jaw, fix-part

WB5013F



Attachment Kit for Inductive Proximity Switch

ANS0084



Inductive proximity switch - Connector M8

NJ8-E2S



Magnetic field sensor Angled Cable 0,3 m - Connector M8

MFS103SKHC



Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



2-Position-Sensor Cable 0,3 m - Connector M8

MFSP2SKHC-02



Plug-in connector Straight Cable 5m - Socket M8 (female)

KAG500



Angled Fittings - Quick Connect Style

WV1-8X6

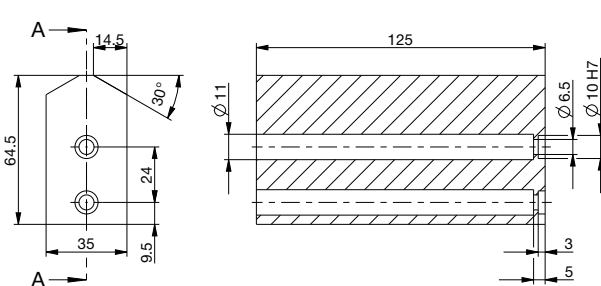


Pressure Safety Valve

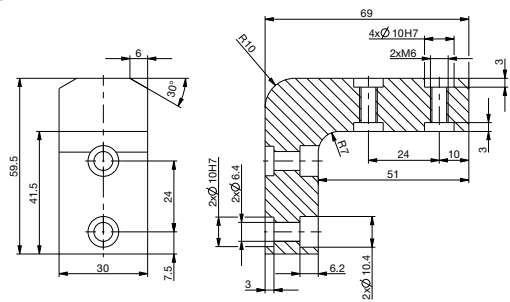
DSV1-8

▶ TECHNICAL DRAWINGS ACCESSORIES

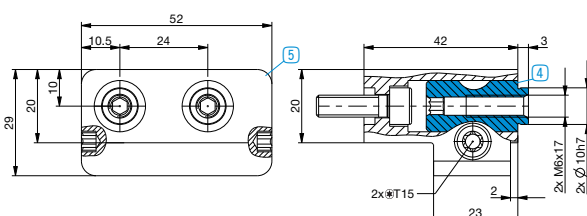
One universal jaw is required for each gripper jaw **3**



One L-jaw **4** is required for each gripper jaw



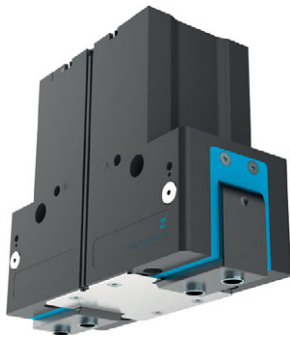
For each gripper jaw, one interchangeable jaw loose part set **5** and one interchangeable jaw fixed part **6** are needed



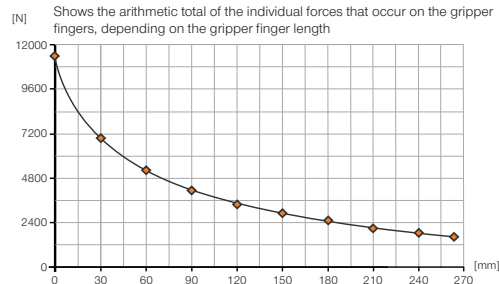
2-JAW ANGULAR GRIPPERS

INSTALLATION SIZE GPW5025

▶ PRODUCT SPECIFICATIONS

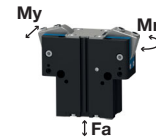


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	180
My [Nm]	225
Fa [N]	7500

▶ TECHNICAL DATA

▶ Technical Data*

Order no.	GPW5025NC-00-A
Stroke per jaw [°]	+15/-2
Gripping moment in closing max. [Nm]	620
Gripping moment secured by spring min. [Nm]	150
Gripping force in closing max. (at 0°) [N]	14500
Length of the gripper fingers max. [mm]	265
Permissible weight per jaw max [kg]	7
Closing time [s]	0.155
Opening time [s]	0.30
Repetition accuracy +/- [mm]	0.01
Operating pressure [bar]	4 ... 8
Operating temperature [°C]	-10 ... +90
Air volume per cycle [cm³]	780
Protection to IEC 60529	IP64
Weight [kg]	12.1

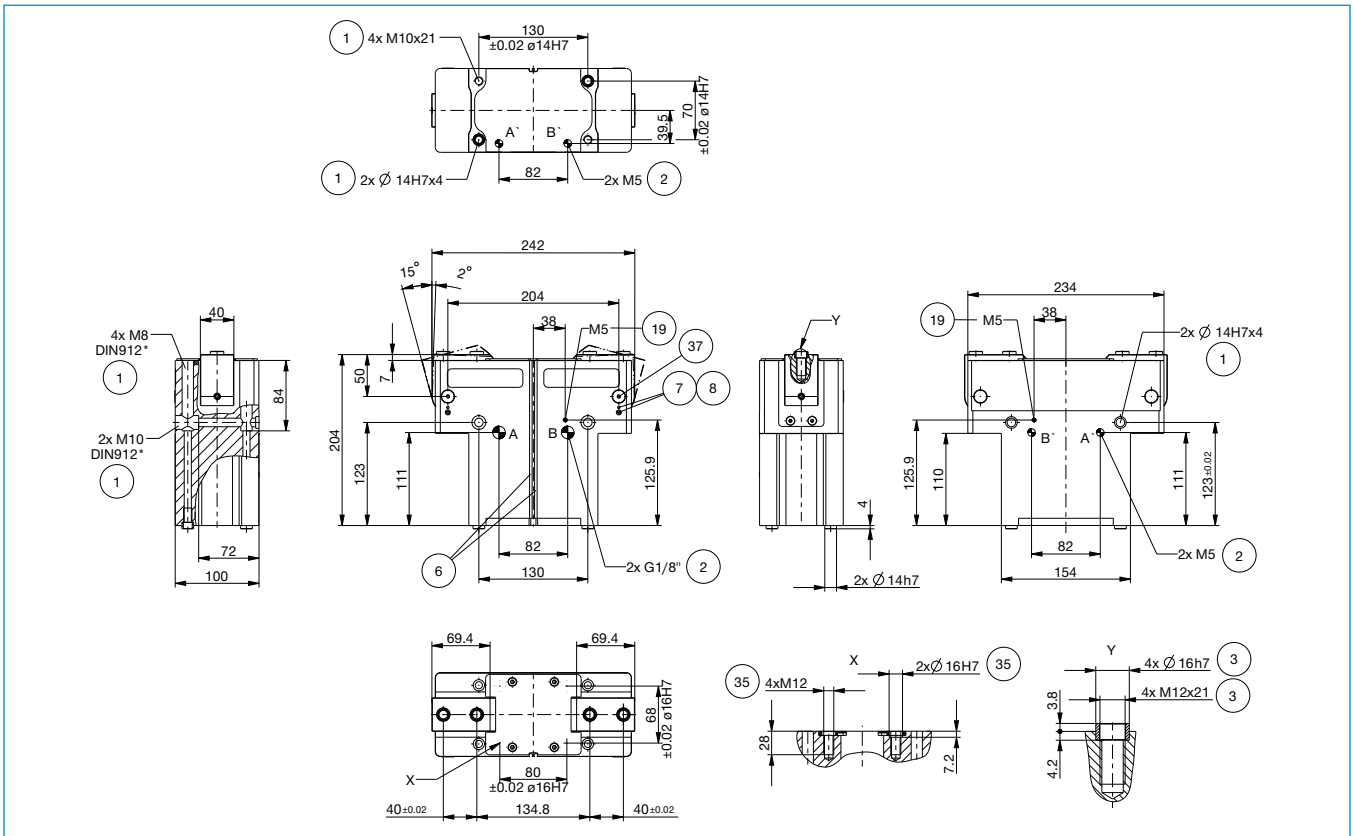
▶ Technical Data - High Temperature Version

Order no.	GPW5025NC-20-A
Operating temperature [°C]	-10 ... +130

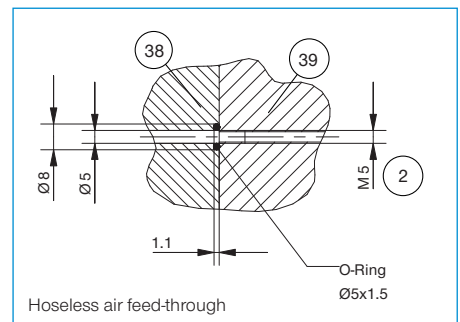
*All data measured at 6 bar

** Measured from top edge of housing

TECHNICAL DRAWINGS

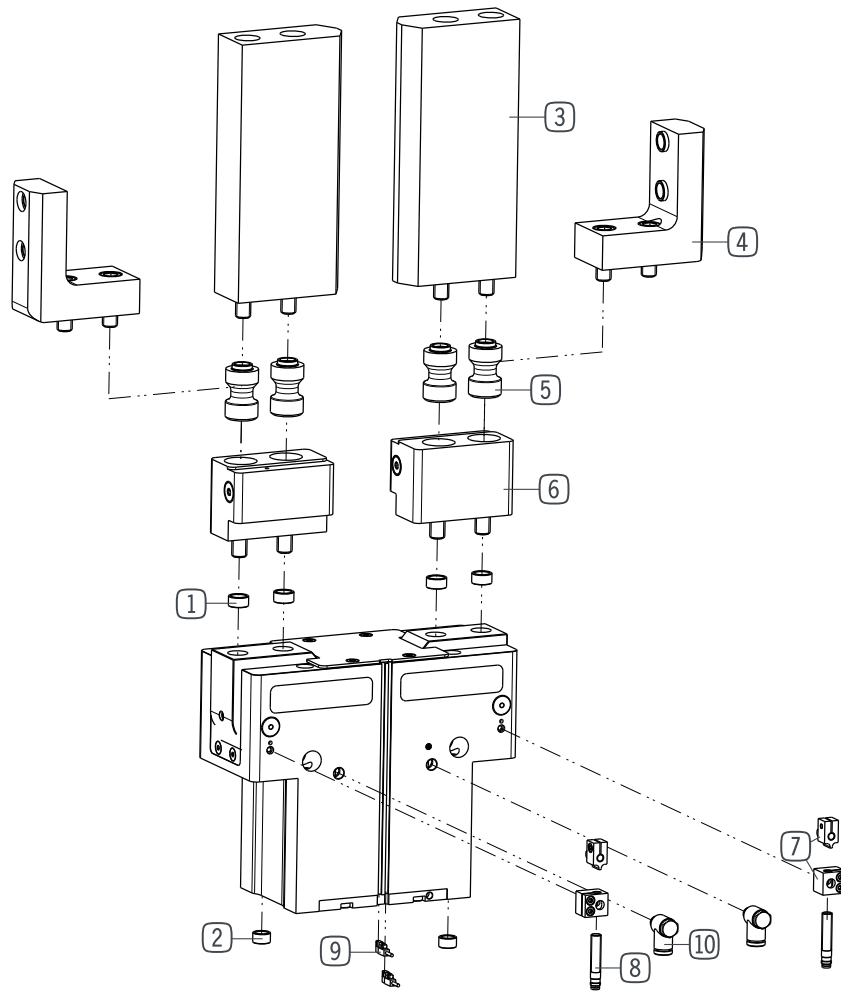


- | | |
|----------------------------------------------|----------------------------------------|
| ① Gripper attachment | screwe |
| ② Energy supply | ③⑦ Mounting possibility for cam switch |
| ③ Fixing for gripper finger | ③⑧ Adapter |
| ⑥ Integrated slot for magnetic field sensor | ③⑨ Gripper |
| ⑦ Fixing for mounting block | Ⓐ Air connection (close) |
| ⑧ Fixing clamping bracket (KHA) | Ⓑ Air connection (open) |
| ⑨ Air purge connection option | Ⓐ Air connection, alternative (close) |
| ⑩ Mounting possibility for stroke adjustment | Ⓑ Air connection, alternative (open) |



2-JAW ANGULAR GRIPPERS

INSTALLATION SIZE GPW5025



▶ INCLUDED IN DELIVERY



Centering Disc

030529



Centering Disc

019387

▶ RECOMMENDED ACCESSORIES



Universal jaw aluminium

UB5025AL



Universal jaw steel

UB5025ST



L-jaw

LB5025



Changeable jaw, loose-part-set

WB5025L



Changeable jaw, fix-part

WB5025F



Attachment Kit for Inductive Proximity Switch

ANS0084



Inductive proximity switch - Connector M8

NJ8-E2S



Magnetic field sensor Angled Cable 0,3 m - Connector M8

MFS103SKHC



Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



2-Position-Sensor Cable 0,3 m - Connector M8

MFSP2SKHC-02



Plug-in connector Straight Cable 5m - Socket M8 (female)

KAG500



Angled Fittings - Quick Connect Style

WV1-8X8

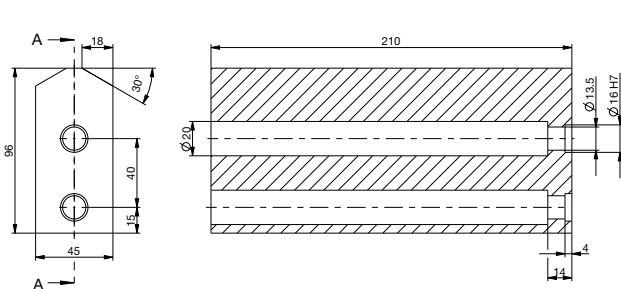


Pressure Safety Valve

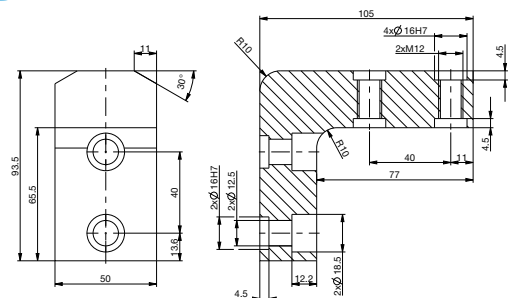
DSV1-8

▶ TECHNICAL DRAWINGS ACCESSORIES

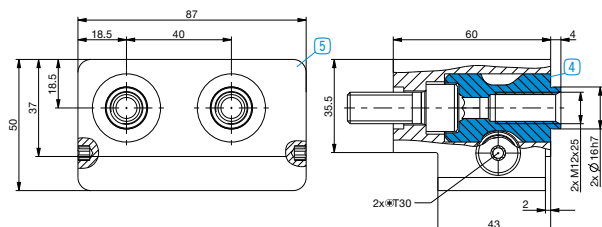
One universal jaw is required for each gripper jaw **3**



One L-jaw **4** is required for each gripper jaw



For each gripper jaw, one interchangeable jaw loose part set **5** and one interchangeable jaw fixed part **6** are needed

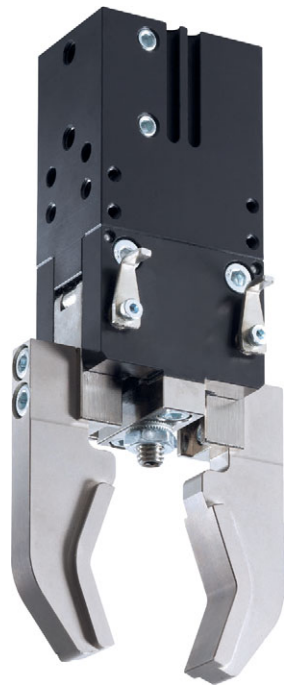


2-JAW RADIAL GRIPPER

THE SERIES AT A GLANCE

1

The series at a glance / 2-jaw radial gripper



▶ PNEUMATIC

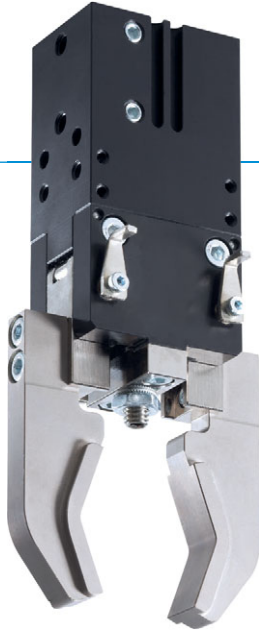
	Series GK	420
	Series GG4000	434

2-JAW RADIAL GRIPPER SERIES GK

1

Series GK / 2-jaw radial gripper / pneumatic / Grippers

▶ PRODUCT ADVANTAGES



“The compact”

▶ Proven technology

We have more than 20 years of proven reliability, which ensures uninterrupted production for you

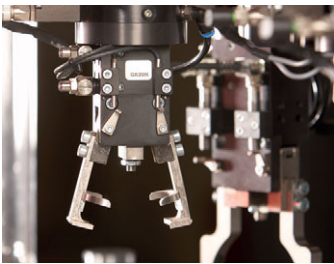
▶ Best force/installation space ratio

Force transmission using the toggle lever enables high gripping force while optimally utilizing the installation space

▶ Smooth stroke configuration

You can adjust the 180° opening angle to be unique to your application using an adjusting screw

▶ THE BEST PRODUCT FOR YOUR APPLICATION



▶ Our products love the challenge!

Extreme conditions, all over the world—our tried and tested components and systems give you limitless possibilities:

Find the best product for your specific use:

www.zimmer-group.com

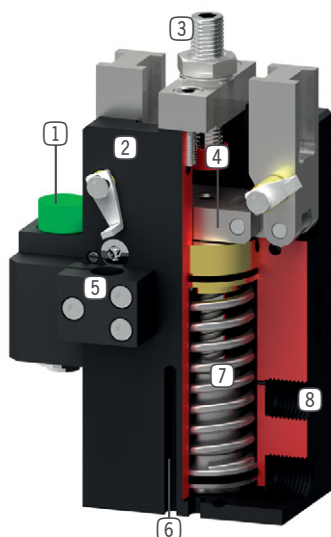
HOW TO ORDER CORRECTLY

- ▶ The product order numbers are arranged according to this diagram:

Order no.	GK15N	<input type="checkbox"/>	-B	
External gripping, self locking mechanism at 0° opening angle and spring closing		C		



BENEFITS IN DETAIL



- ① **Buffer stop**
- absorption of kinetic energy for heavy and long gripper fingers
- ② **Robust, lightweight housing**
- Hard-coated aluminum alloy
- ③ **Stroke adjustment screw**
- Infinitely adjustable opening stroke
- ④ **Guided toggle lever mechanism**
- synchronized the movement of the gripper jaws
- mechanically self-locking
- ⑤ **Mounting block**
- mounting for inductive proximity switch
- ⑥ **Sensing slot**
- mounting and positioning of magnetic field sensors
- ⑦ **Integrated gripping force safety device**
- spring integrated into cylinder as energy storage
- ⑧ **Energy supply**
- possible from several sides

SERIES CHARACTERISTICS



Number of installation sizes	6
Stroke per jaw	0° - 90°
Gripping force	70 N - 4250 N
Weight	0,1 kg - 4,1 kg
AP class	2



10 million maintenance-free cycles (max.)



Spring closing C



Inductive sensor



IP20



Magnetic field sensor

2-JAW RADIAL GRIPPER INSTALLATION SIZE GK15

1

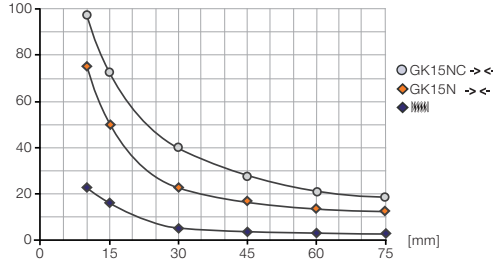
Installation size GK15 / 2-jaw radial gripper / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS



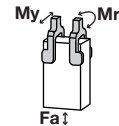
▶ Gripping force diagram

Shows the arithmetic total of the individual forces that occur on the gripper fingers, depending on the gripper finger length



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	0.4
My [Nm]	0.4
Fa [N]	75

▶ RECOMMENDED ACCESSORIES



Centering Disc

ZE12H7X4



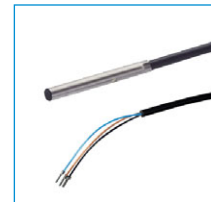
Mounting block

KB3



Buffer stop

PB15N



Inductive proximity switch
- Cable 5 m

NJ3-E2



Inductive Proximity
Switch Cable 0,3 m -
Connector M8
NJ3-E2SK



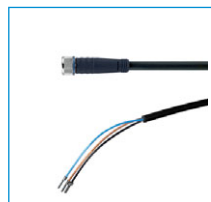
Magnetic field sensor
Angled Cable 5 m

MFS103KHC



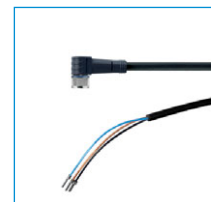
Magnetic field sensor Angled
Cable 0,3 m - Connector M8

MFS103SKHC



Plug-in connector Straight Ca-
ble 5m - Socket M8 (female)

KAG500



Plug-in connector Angled Ca-
ble 5m - Socket M8 (female)

KAW500



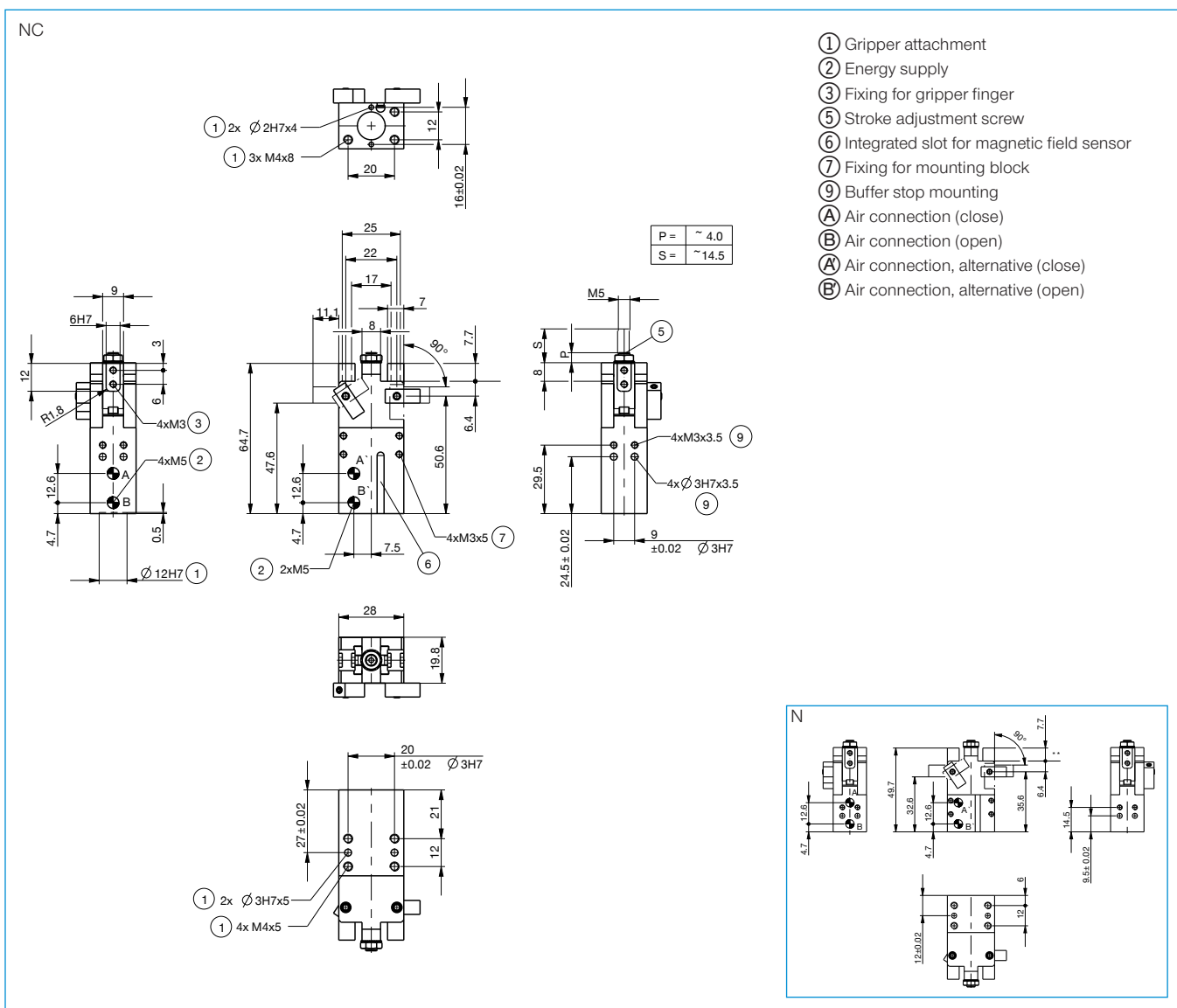
Straight Fittings - Quick
Connect Style

GVM5

Order no.	▶ Technical Data*	
	GK15N-B	GK15NC-B
Stroke per jaw [°]	90	90
Gripping moment in closing [Nm]	1.2	1.6
Gripping moment secured by spring min. [Nm]		0.4
Gripping force in closing [N] **	70	100
Closing time [s]	0.1	0.2
Opening time [s]	0.1	0.2
Repetition accuracy +/- [mm]	0.06	0.06
Operating pressure min. [bar]	3	5
Operating pressure max. [bar]	8	8
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm³]	2	2.4
Weight [kg]	0.1	0.12

*All data measured at 6 bar

**Measured from top edge of housing



2-JAW RADIAL GRIPPER

INSTALLATION SIZE GK20

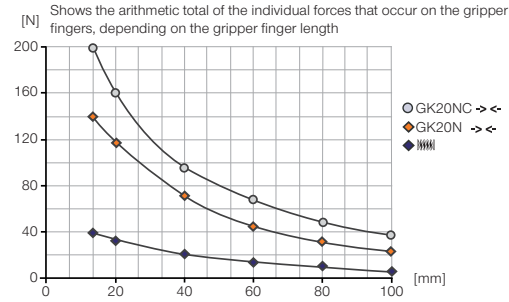
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Installation size GK20 / 2-jaw radial gripper / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS

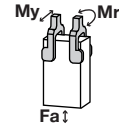


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	0.8
My [Nm]	1
Fa [N]	150

▶ INCLUDED IN DELIVERY



Mounting block

KB8K

▶ RECOMMENDED ACCESSORIES



Centering Disc

ZE20H7X4



Buffer stop

PB20N



Inductive proximity switch
- Cable 5 m

NJ8-E2



Inductive proximity switch
- Connector M8

NJ8-E2S



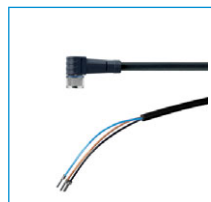
Magnetic field sensor
Angled Cable 0,3 m -
Connector M8
MFS103SKHC



Magnetic field sensor Straight
Cable 0,3 m - Connector M8
MFS204SKHC



Plug-in connector Straight Ca-
ble 5m - Socket M8 (female)
KAG500



Plug-in connector Angled Ca-
ble 5m - Socket M8 (female)
KAW500



Straight Fittings - Quick
Connect Style
GVM5



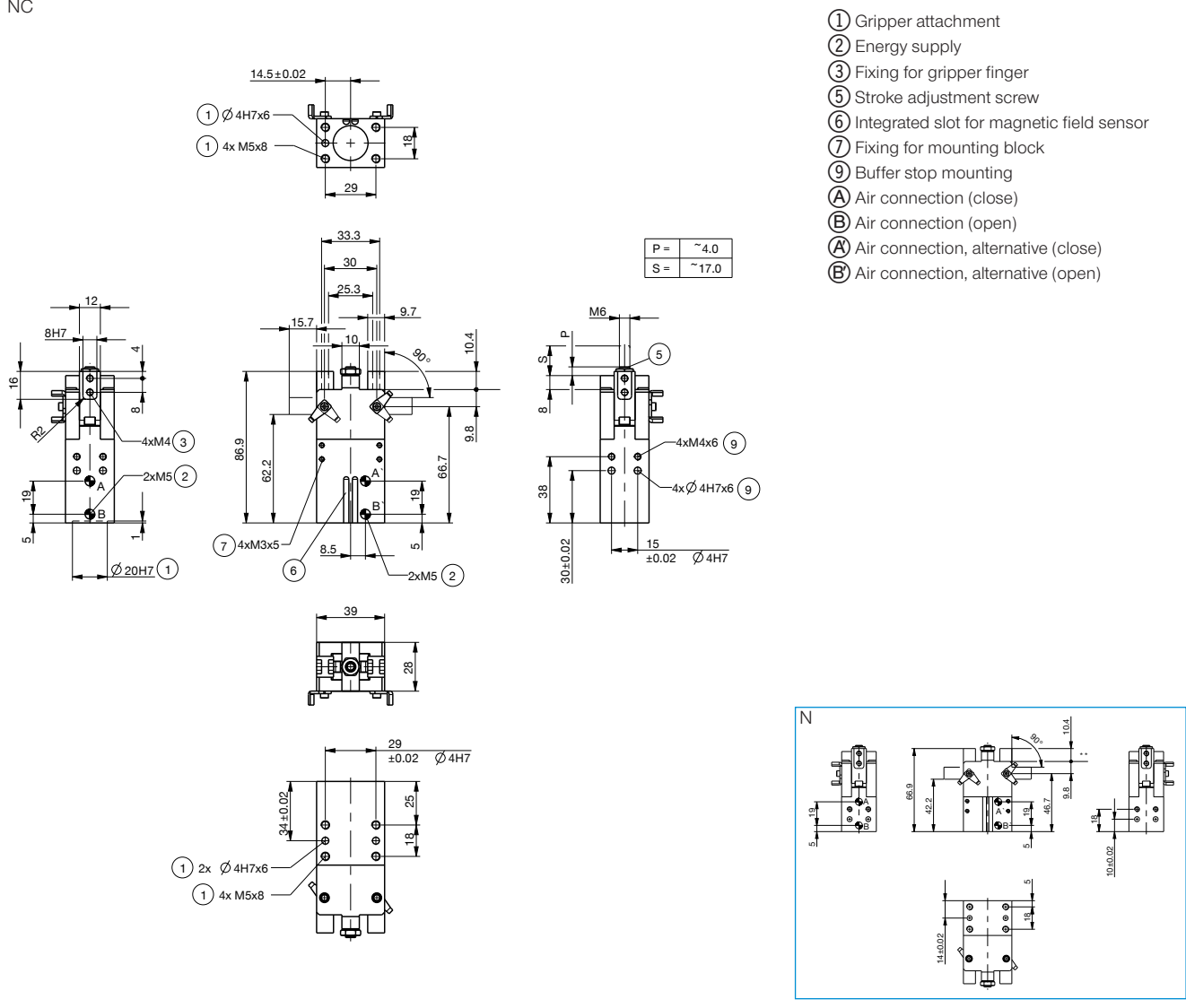
Flow Control Valves - with
Swivel joint
DRV5X4

Order no.	► Technical Data*	
	GK20N-B	GK20NC-B
Stroke per jaw [°]	90	90
Gripping moment in closing [Nm]	3	4.2
Gripping moment secured by spring min. [Nm]		1.2
Gripping force in closing [N] **	150	210
Closing time [s]	0.1	0.2
Opening time [s]	0.1	0.2
Repetition accuracy +/- [mm]	0.05	0.05
Operating pressure min. [bar]	3	5
Operating pressure max. [bar]	8	8
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm³]	9	11
Weight [kg]	0.23	0.3

*All data measured at 6 bar

**Measured from top edge of housing

NC



2-JAW RADIAL GRIPPER

INSTALLATION SIZE GK25

1

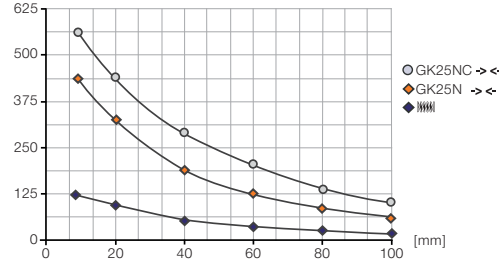
Installation size GK25 / 2-jaw radial gripper / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS



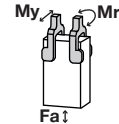
▶ Gripping force diagram

Shows the arithmetic total of the individual forces that occur on the gripper fingers, depending on the gripper finger length



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	2.5
My [Nm]	4
Fa [N]	250

▶ INCLUDED IN DELIVERY



Mounting block

KB8K

▶ RECOMMENDED ACCESSORIES



Centering Disc

ZE20H7X4



Buffer stop

PB25N



Inductive proximity switch
- Cable 5 m

NJ8-E2



Inductive proximity switch
- Connector M8

NJ8-E2S



Magnetic field sensor
Angled Cable 0,3 m -
Connector M8
MFS103SKHC



Magnetic field sensor Straight
Cable 0,3 m - Connector M8
MFS204SKHC



Plug-in connector Straight Ca-
ble 5m - Socket M8 (female)
KAG500



Plug-in connector Angled Ca-
ble 5m - Socket M8 (female)
KAW500



Straight Fittings - Quick
Connect Style
GVM5

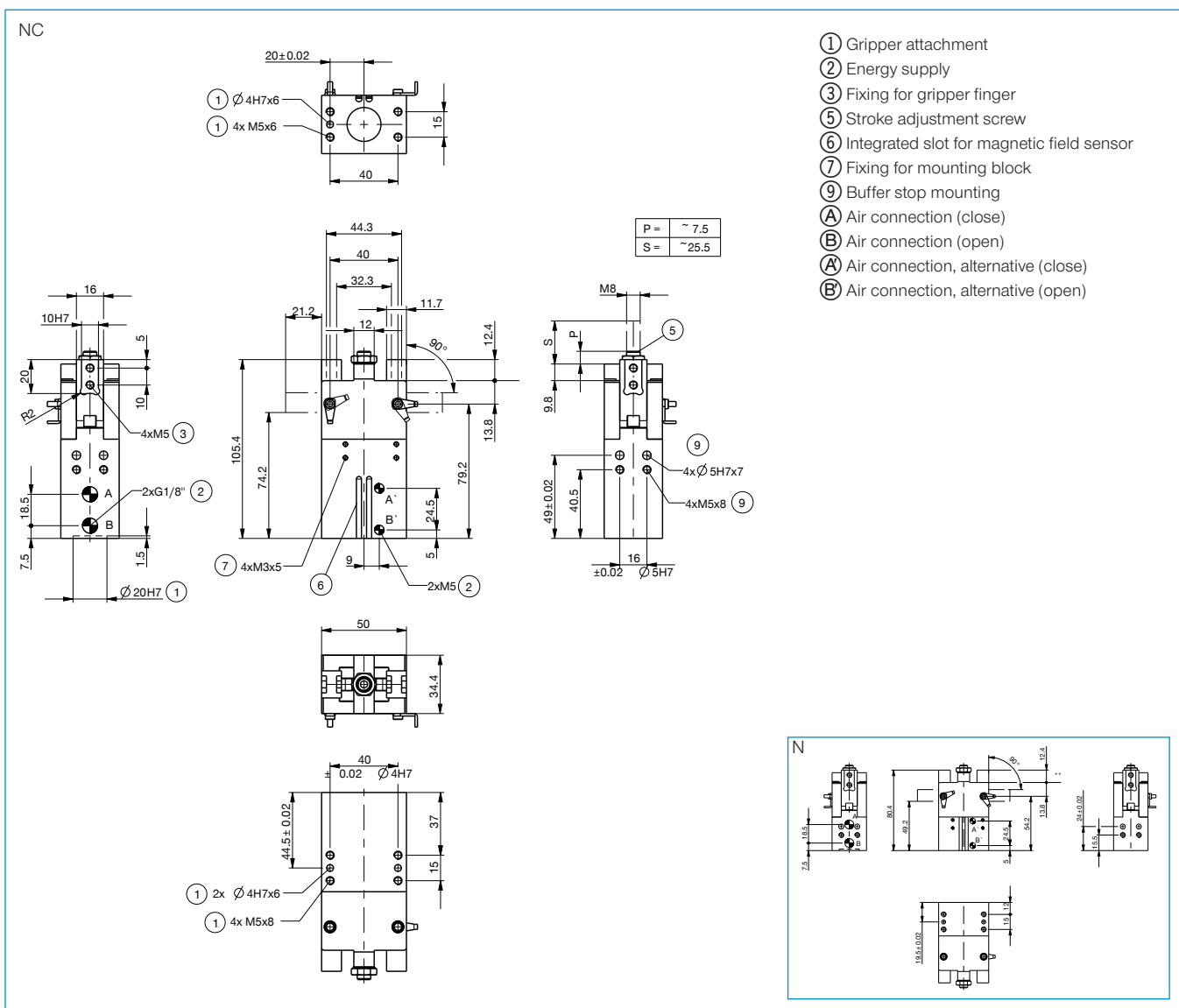


Flow Control Valves - with
Swivel joint
DRV5X4

Order no.	▶ Technical Data*	
	GK25N-B	GK25NC-B
Stroke per jaw [°]	90	90
Gripping moment in closing [Nm]	10.5	14.5
Gripping moment secured by spring min. [Nm]		4
Gripping force in closing [N] **	440	610
Closing time [s]	0.15	0.25
Opening time [s]	0.15	0.25
Repetition accuracy +/- [mm]	0.05	0.05
Operating pressure min. [bar]	3	5
Operating pressure max. [bar]	8	8
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm³]	18	21
Weight [kg]	0.42	0.58

*All data measured at 6 bar

**Measured from top edge of housing



2-JAW RADIAL GRIPPER

INSTALLATION SIZE GK35

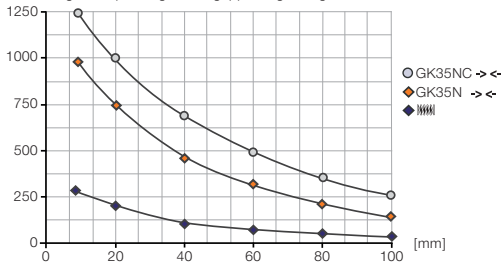
1

▶ PRODUCT SPECIFICATIONS



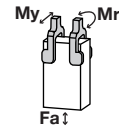
▶ Gripping force diagram

Shows the arithmetic total of the individual forces that occur on the gripper fingers, depending on the gripper finger length



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	12
My [Nm]	20
Fa [N]	400

▶ INCLUDED IN DELIVERY



Mounting block

KB8K

▶ RECOMMENDED ACCESSORIES



Centering Disc

ZE25H7X6



Buffer stop

PB35N



Inductive proximity switch
- Cable 5 m

NJ8-E2

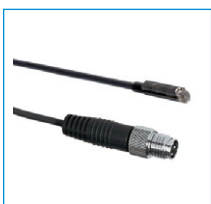


Inductive proximity switch
- Connector M8

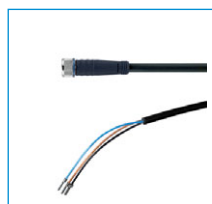
NJ8-E2S



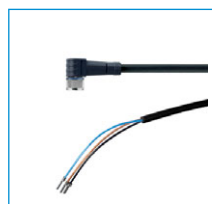
Magnetic field sensor
Angled Cable 0,3 m -
Connector M8
MFS103SKHC



Magnetic field sensor Straight
Cable 0,3 m - Connector M8
MFS204SKHC



Plug-in connector Straight Ca-
ble 5m - Socket M8 (female)
KAG500



Plug-in connector Angled Ca-
ble 5m - Socket M8 (female)
KAW500



Straight Fittings - Quick
Connect Style
GVM5

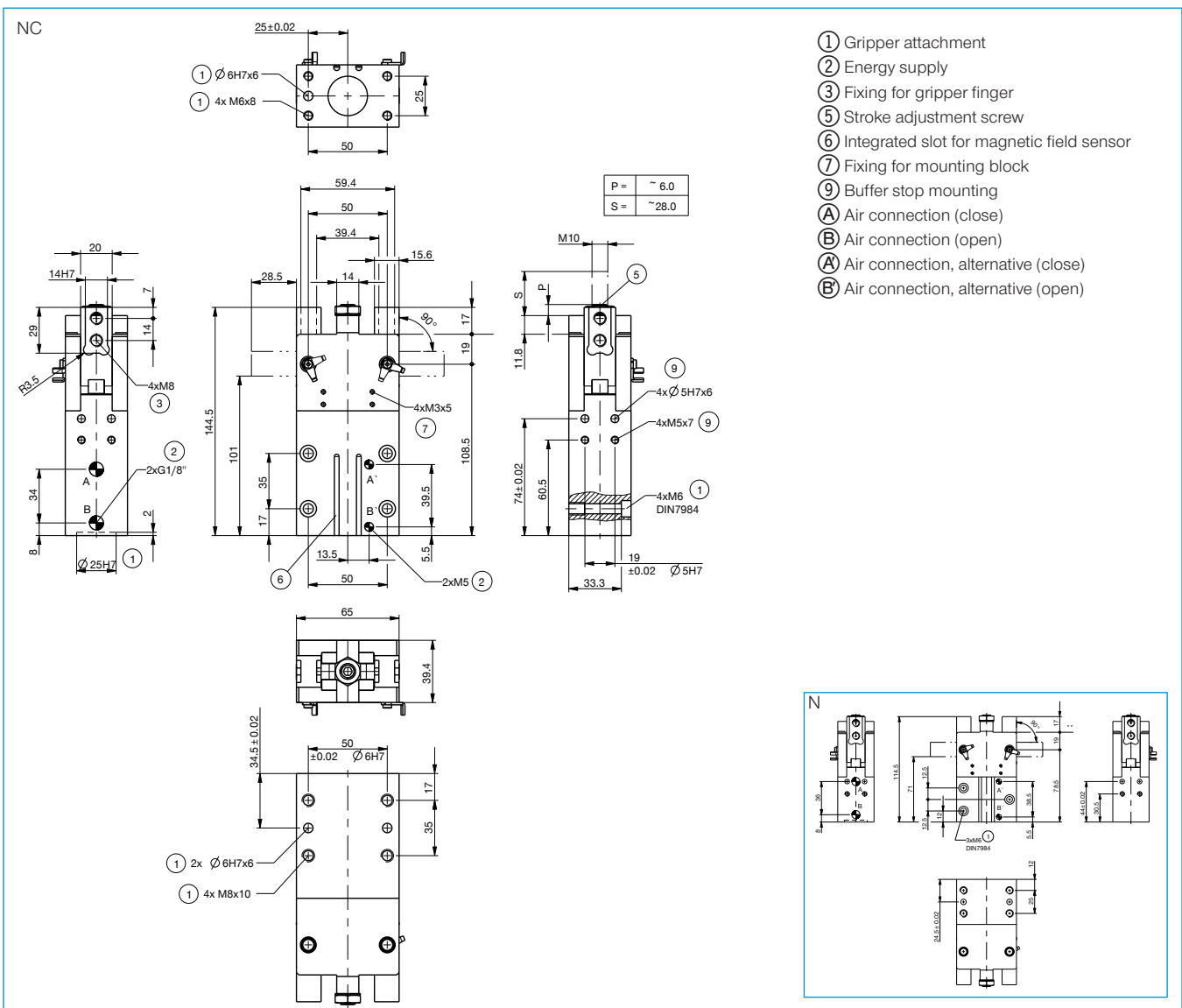


Flow Control Valves - with
Swivel joint
DRV5X4

Order no.	► Technical Data*	
	GK35N-B	GK35NC-B
Stroke per jaw [°]	90	90
Gripping moment in closing [Nm]	27.5	36.5
Gripping moment secured by spring min. [Nm]		9
Gripping force in closing [N] **	950	1250
Closing time [s]	0.25	0.35
Opening time [s]	0.25	0.35
Repetition accuracy +/- [mm]	0.05	0.05
Operating pressure min. [bar]	3	5
Operating pressure max. [bar]	8	8
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm³]	43	50
Weight [kg]	0.9	1.2

*All data measured at 6 bar

**Measured from top edge of housing



2-JAW RADIAL GRIPPER INSTALLATION SIZE GK40

1

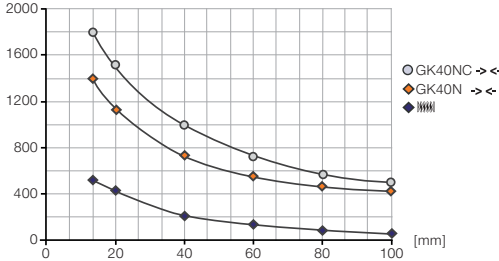
Installation size GK40 / 2-jaw radial gripper / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS



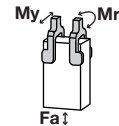
▶ Gripping force diagram

Shows the arithmetic total of the individual forces that occur on the gripper fingers, depending on the gripper finger length



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	17
My [Nm]	30
Fa [N]	600

▶ INCLUDED IN DELIVERY



Mounting block

KB8K

▶ RECOMMENDED ACCESSORIES



Centering Disc

ZE30H7X4



Buffer stop

PB40N



Inductive proximity switch
- Cable 5 m

NJ8-E2



Inductive proximity switch
- Connector M8

NJ8-E2S



Magnetic field sensor
Angled Cable 0,3 m -
Connector M8

MFS103SKHC



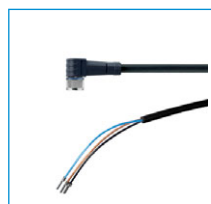
Magnetic field sensor Straight
Cable 0,3 m - Connector M8

MFS204SKHC



Plug-in connector Straight Ca-
ble 5m - Socket M8 (female)

KAG500



Plug-in connector Angled Ca-
ble 5m - Socket M8 (female)

KAW500



Straight Fittings - Quick
Connect Style

GVM5



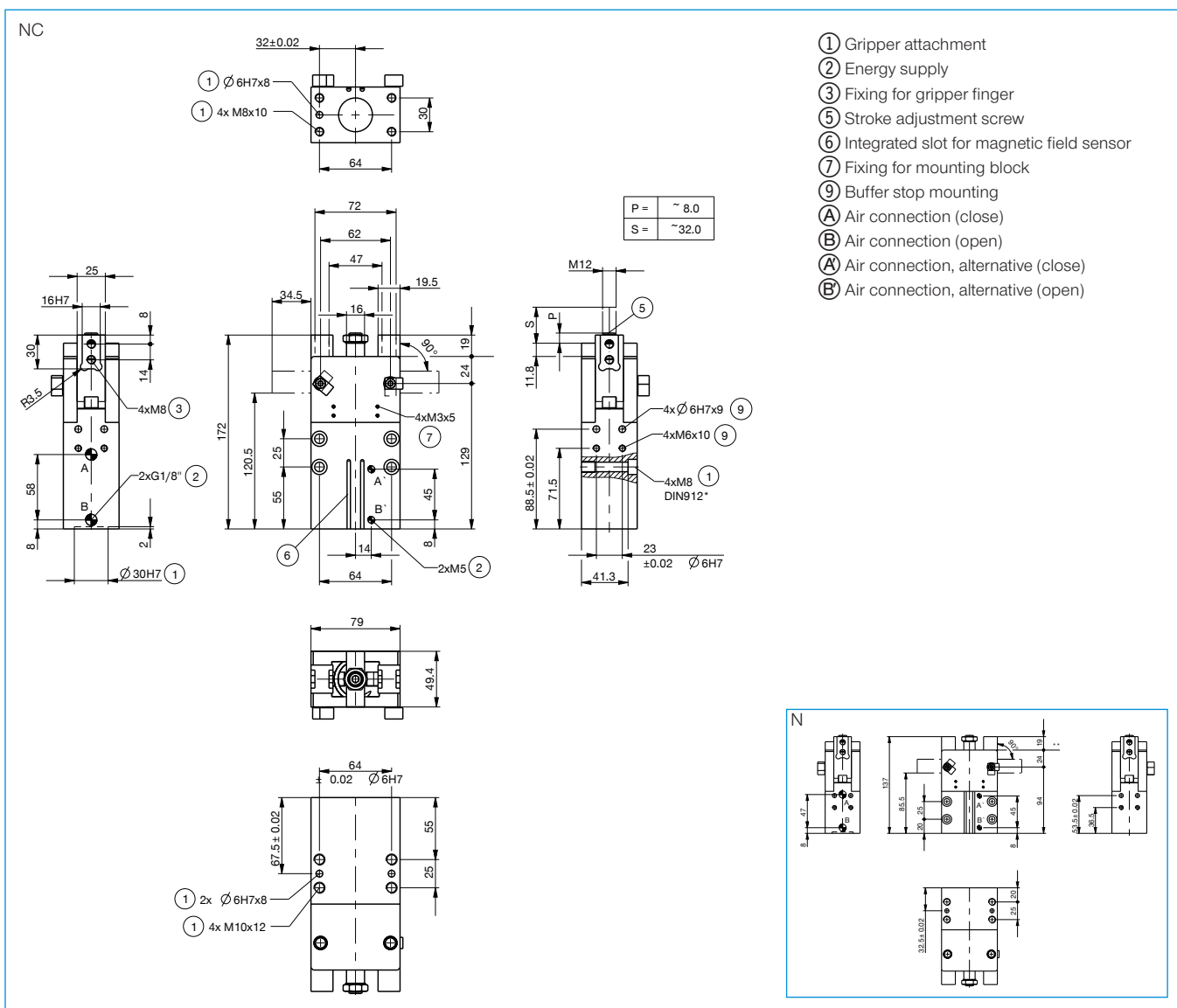
Flow Control Valves - with
Swivel joint

DRV5X4

Order no.	► Technical Data*	
	GK40N-B	GK40NC-B
Stroke per jaw [°]	90	90
Gripping moment in closing [Nm]	47	62
Gripping moment secured by spring min. [Nm]		15
Gripping force in closing [N] **	1400	1820
Closing time [s]	0.25	0.35
Opening time [s]	0.25	0.35
Repetition accuracy +/- [mm]	0.05	0.05
Operating pressure min. [bar]	3	5
Operating pressure max. [bar]	8	8
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm ³]	78	90
Weight [kg]	1.7	2.2

*All data measured at 6 bar

**Measured from top edge of housing



2-JAW RADIAL GRIPPER

INSTALLATION SIZE GK50

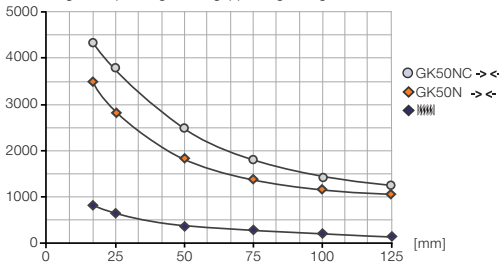
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▶ PRODUCT SPECIFICATIONS



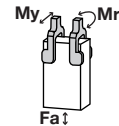
▶ Gripping force diagram

Shows the arithmetic total of the individual forces that occur on the gripper fingers, depending on the gripper finger length



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	28
My [Nm]	40
Fa [N]	800

▶ INCLUDED IN DELIVERY



Mounting block

KB8K

▶ RECOMMENDED ACCESSORIES



Inductive proximity switch
- Cable 5 m

NJ8-E2



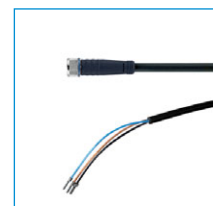
Inductive proximity switch
- Connector M8

NJ8-E2S



Plug-in connector Angled
Cable 5m - Socket M8
(female)

KAW500



Plug-in connector Straight
Cable 5m - Socket M8
(female)

KAG500



Straight Fittings - Quick
Connect Style

GV1-8X6



Centering Disc

ZE30H7X6



Magnetic field sensor Angled
Cable 0,3 m - Connector M8

MFS103SKHC



Magnetic field sensor Straight
Cable 0,3 m - Connector M8

MFS204SKHC



Flow Control Valves - with
Swivel joint

DRV1-8X6



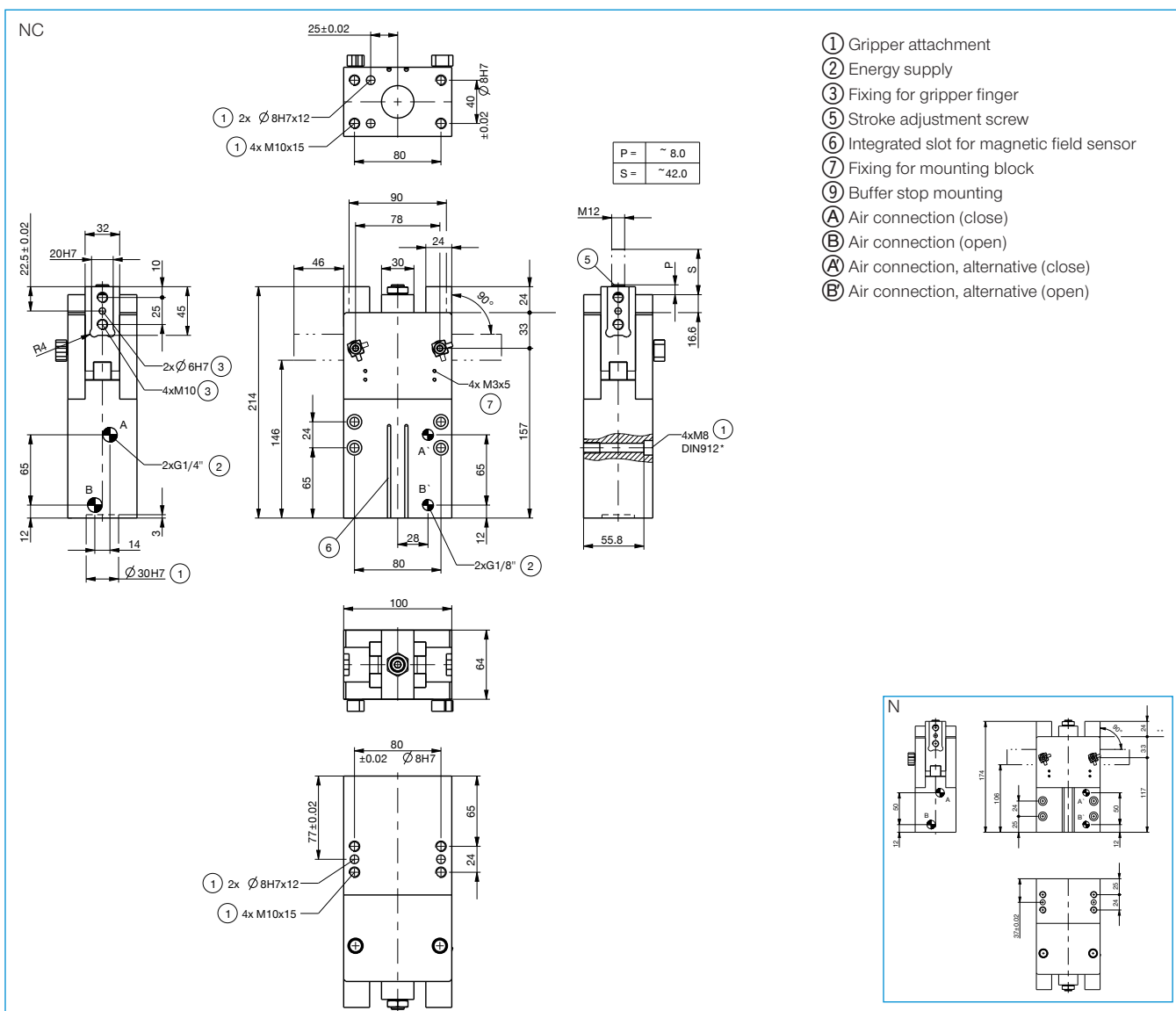
Plug-in connector customiz-
able Straight - Connector M8

S8-G-3

Order no.	Technical Data*	
	GK50N-B	GK50NC-B
Stroke per jaw [°]	90	90
Gripping moment in closing [Nm]	150	183
Gripping moment secured by spring min. [Nm]		33
Gripping force in closing [N] **	3500	4250
Closing time [s]	0.4	0.5
Opening time [s]	0.4	0.5
Repetition accuracy +/- [mm]	0.05	0.05
Operating pressure min. [bar]	3	5
Operating pressure max. [bar]	8	8
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm³]	160	200
Weight [kg]	3.5	4.1

*All data measured at 6 bar

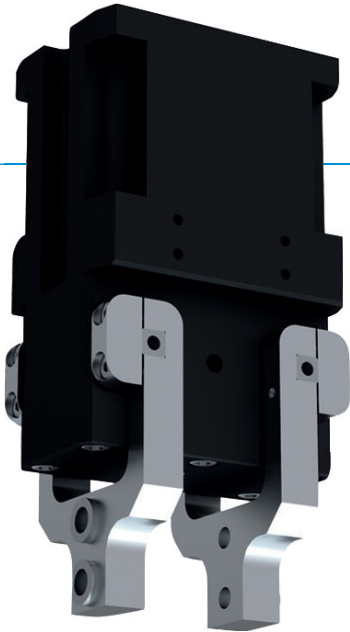
**Measured from top edge of housing



2-JAW RADIAL GRIPPER

SERIES GG4000

▶ PRODUCT ADVANTAGES



“The sealed”

▶ **Suitable for use under extreme conditions**

The sealed rotation axis guarantees process reliability even under the harshest conditions

▶ **Smooth stroke configuration**

You can adjust the 180° opening angle to be unique to your application using an adjusting screw

▶ **Failure-free continuous operation**

Our uncompromising “Made in Germany” quality guarantees up to 10 million maintenance-free gripping cycles

▶ THE BEST PRODUCT FOR YOUR APPLICATION



▶ **Our products love the challenge!**

Extreme conditions, all over the world—our tried and tested components and systems give you limitless possibilities:

Find the best product for your specific use:

www.zimmer-group.com

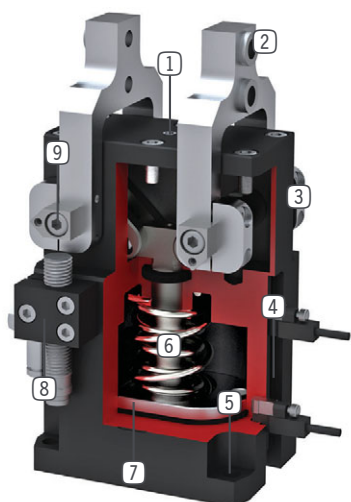
HOW TO ORDER CORRECTLY

- ▶ The product order numbers are arranged according to this diagram:

Order no.	GG4032	<input type="checkbox"/>	C	
Stroke per jaw 90°		N		
Stroke per jaw 20°		S		



► BENEFITS IN DETAIL



- ① **Stroke adjustment screw**
- Infinitely adjustable opening stroke
- ② **Removable centering sleeves**
- individual gripper finger mounting
- ③ **Robust, lightweight housing**
- Hard-coated aluminum alloy
- ④ **Sensing slot**
- mounting and positioning of magnetic field sensors
- ⑤ **Mounting and positioning**
- mounting possible from several sides for versatile positioning
- ⑥ **Integrated gripping force safety device**
- spring integrated into cylinder as energy storage
- ⑦ **Position sensing**
- permanent magnet for direct monitoring of piston movement
- ⑧ **Mounting block**
- mounting for inductive proximity switch
- ⑨ **Sealed rotation point**
- for use under extreme conditions

► SERIES CHARACTERISTICS



Number of installation sizes	6
Stroke per jaw	0° - 90°
Gripping force	430 N - 4000 N
Weight	0,25 kg - 4,5 kg
AP class	3



10 million maintenance-free cycles (max.)



Spring closing C



High-strength S



Inductive sensor



IP64



Magnetic field sensor



Purged air

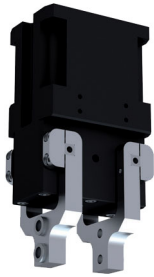
2-JAW RADIAL GRIPPER

INSTALLATION SIZE GG4032

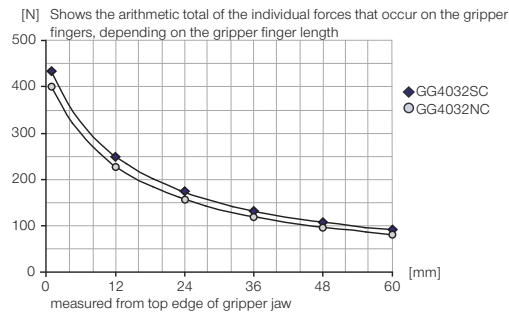
1

Installation size GG4032 / 2-jaw radial gripper / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS

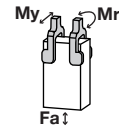


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	8.5
My [Nm]	8.5
Fa [N]	180

▶ INCLUDED IN DELIVERY



Centering Disc

DST40600



Stroke adjustment screw

HES0014

▶ RECOMMENDED ACCESSORIES



Mounting block

KB4-06



Inductive proximity switch
- Cable 5 m

NJ4-E2-01



Magnetic field sensor
Angled Cable 0,3 m -
Connector M8

MFS103SKHC



Magnetic field sensor
Straight Cable 0,3 m -
Connector M8

MFS204SKHC



2-Position-Sensor Cable
0,3 m - Connector M8

MFSP2SKHC-02



Plug-in connector Straight Cable 5m - Socket M8 (female)

KAG500



Plug-in connector Angled Cable 5m - Socket M8 (female)

KAW500



Straight Fittings - Quick Connect Style

GVM5



Pressure Safety Valve

DSV1-8



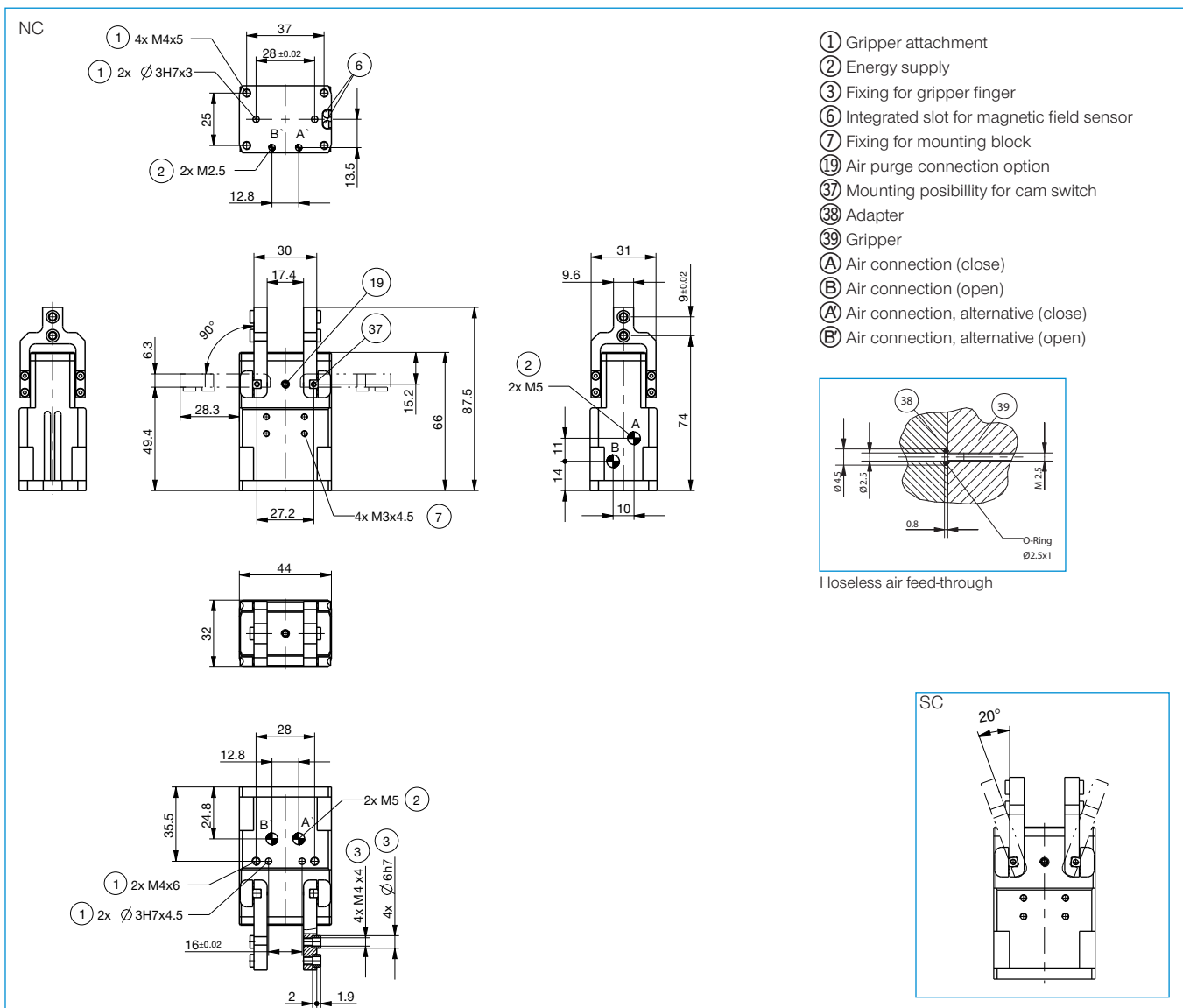
Plug-in connector customizable Straight - Connector M8

S8-G-3

► Technical Data*

Order no.	GG4032NC	GG4032SC
Stroke per jaw [°]	90	20
Gripping moment in closing at 0° [Nm]	6.5	7
Gripping moment secured by spring min. [Nm]	1	1.5
Gripping force in closing [N]	430	460
Length of the gripper fingers max. [mm]	65	65
Permissible weight per jaw max [kg]	0.055	0.055
Closing time [s]	0.055	0.02
Opening time [s]	0.08	0.03
Repetition accuracy +/- [mm]	0.05	0.05
Operating pressure min. [bar]	4	4
Operating pressure max. [bar]	8	8
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm ³]	13	10
Weight [kg]	0.25	0.25

*All data measured at 6 bar

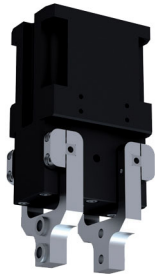


2-JAW RADIAL GRIPPER

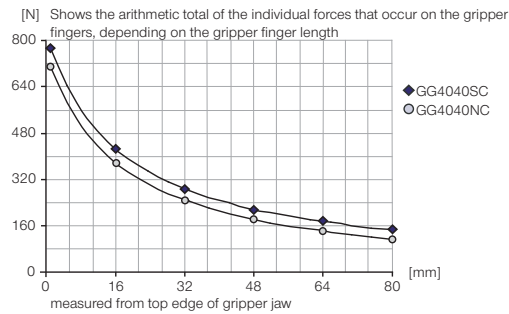
INSTALLATION SIZE GG4040

1

▶ PRODUCT SPECIFICATIONS

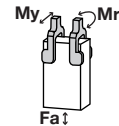


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	19
My [Nm]	19
Fa [N]	180

▶ INCLUDED IN DELIVERY



Centering Disc

DST40800



Stroke adjustment screw

HES0015

▶ RECOMMENDED ACCESSORIES



Mounting block

KB8-48



Inductive proximity switch - Connector M8

NJ8-E2S



Magnetic field sensor Angled Cable 0,3 m - Connector M8

MFS103SKHC



Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



2-Position-Sensor Cable 0,3 m - Connector M8

MFSP2SKHC-02



Plug-in connector Straight Cable 5m - Socket M8 (female)

KAG500



Plug-in connector Angled Cable 5m - Socket M8 (female)

KAW500



Straight Fittings - Quick Connect Style

GVM5



Pressure Safety Valve

DSV1-8



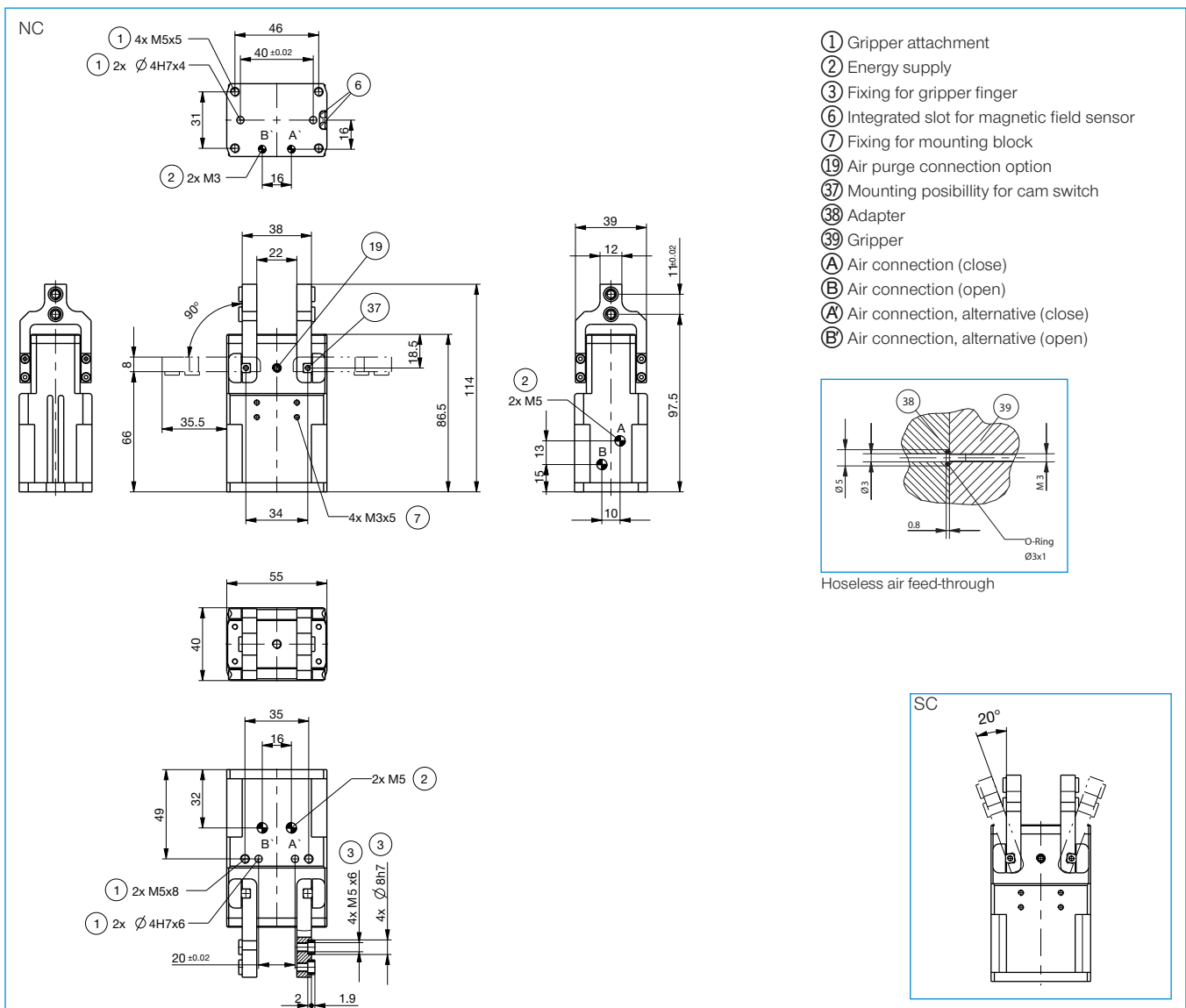
Plug-in connector customizable Straight - Connector M8

S8-G-3

► Technical Data*

Order no.	GG4040NC	GG4040SC
Stroke per jaw [°]	90	20
Gripping moment in closing at 0° [Nm]	13	15
Gripping moment secured by spring min. [Nm]	6	8.5
Gripping force in closing [N]	700	800
Length of the gripper fingers max. [mm]	85	85
Permissible weight per jaw max [kg]	0.12	0.12
Closing time [s]	0.060	0.02
Opening time [s]	0.11	0.06
Repetition accuracy +/- [mm]	0.05	0.05
Operating pressure min. [bar]	4	4
Operating pressure max. [bar]	8	8
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm ³]	24	18
Weight [kg]	0.5	0.5

*All data measured at 6 bar



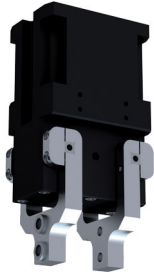
2-JAW RADIAL GRIPPER

INSTALLATION SIZE GG4049

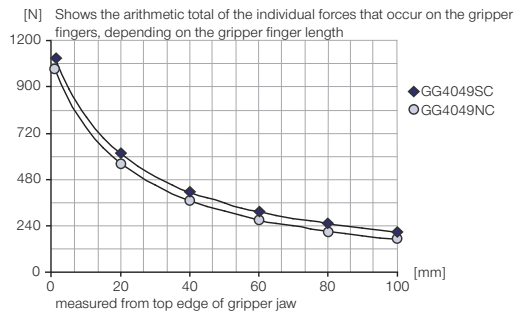
1

Installation size GG4049 / 2-jaw radial gripper / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS

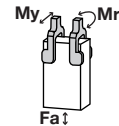


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	22
My [Nm]	22
Fa [N]	475

▶ INCLUDED IN DELIVERY



Centering Disc

DST41000



Stroke adjustment screw

HES0016

▶ RECOMMENDED ACCESSORIES



Mounting block

KB8-49



Inductive proximity switch - Connector M8

NJ8-E2S



Magnetic field sensor Angled Cable 0,3 m - Connector M8

MFS103SKHC



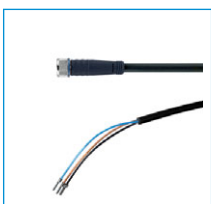
Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



2-Position-Sensor Cable 0,3 m - Connector M8

MFSP2SKHC-02



Plug-in connector Straight Cable 5m - Socket M8 (female)

KAG500



Plug-in connector Angled Cable 5m - Socket M8 (female)

KAW500



Straight Fittings - Quick Connect Style

GVM5



Pressure Safety Valve

DSV1-8



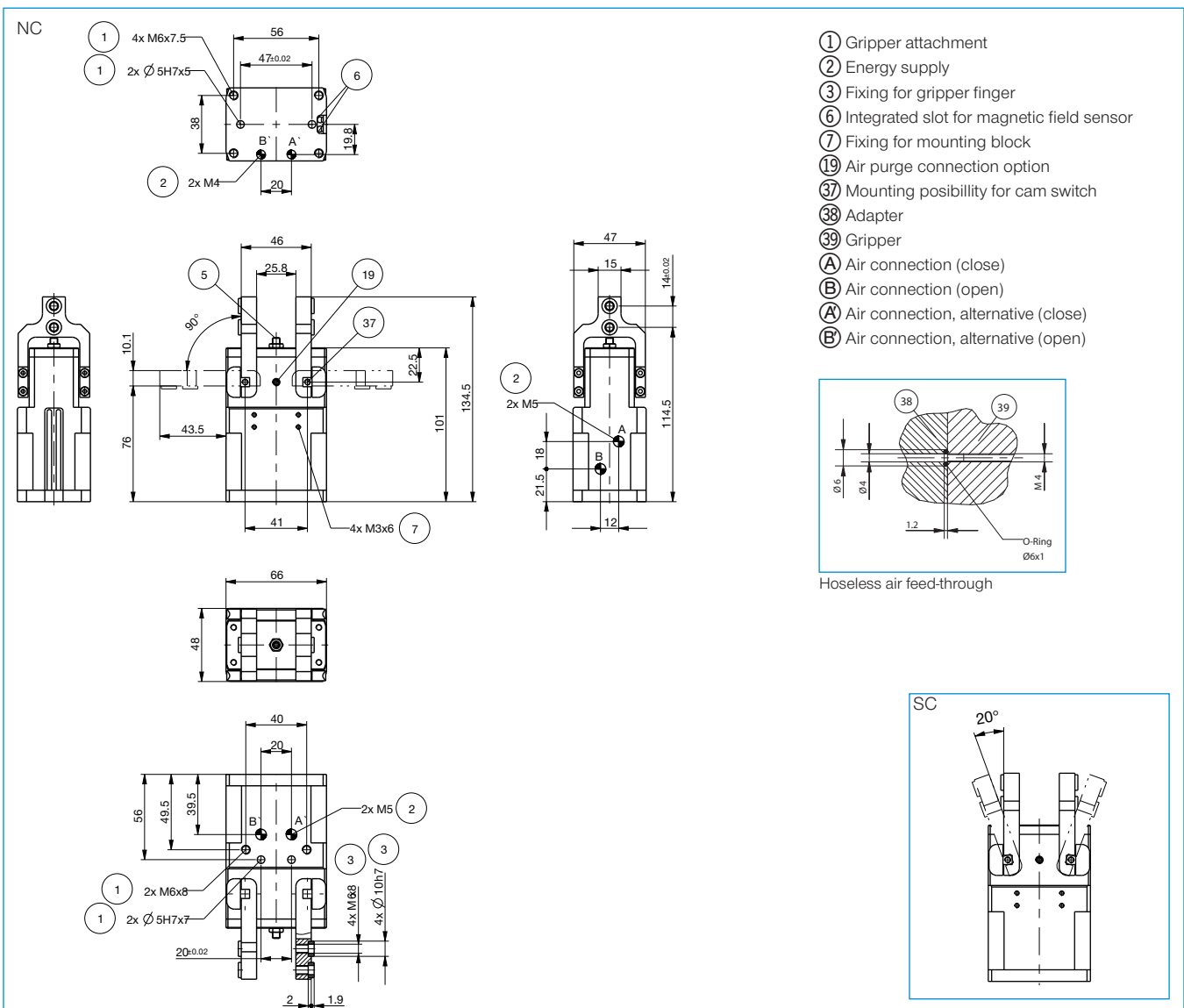
Plug-in connector customizable Straight - Connector M8

S8-G-3

► Technical Data*

Order no.	GG4049NC	GG4049SC
Stroke per jaw [°]	90	20
Gripping moment in closing at 0° [Nm]	23	26
Gripping moment secured by spring min. [Nm]	4.2	7.2
Gripping force in closing [N]	1000	1150
Length of the gripper fingers max. [mm]	100	100
Permissible weight per jaw max [kg]	0.2	0.2
Closing time [s]	0.11	0.05
Opening time [s]	0.17	0.09
Repetition accuracy +/- [mm]	0.05	0.05
Operating pressure min. [bar]	4	4
Operating pressure max. [bar]	8	8
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm ³]	44	33
Weight [kg]	0.85	0.85

*All data measured at 6 bar



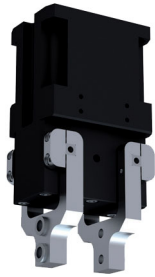
2-JAW RADIAL GRIPPER

INSTALLATION SIZE GG4058

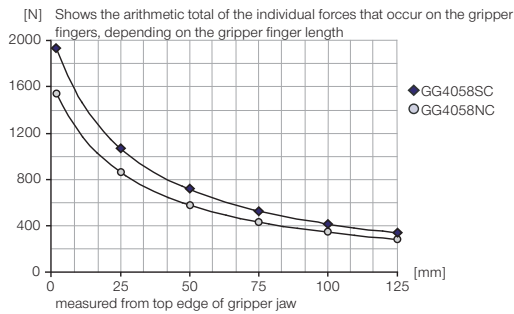
1

Installation size GG4058 / 2-jaw radial gripper / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS

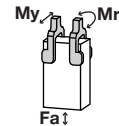


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	33
My [Nm]	33
Fa [N]	720

▶ INCLUDED IN DELIVERY



Centering Disc

DST11500



Stroke adjustment screw

HES0017

▶ RECOMMENDED ACCESSORIES



Mounting block

KB8-49



Inductive proximity switch - Connector M8

NJ8-E2S



Magnetic field sensor Angled Cable 0,3 m - Connector M8

MFS103SKHC



Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



2-Position-Sensor Cable 0,3 m - Connector M8

MFSP2SKHC-02



Plug-in connector Straight Cable 5m - Socket M8 (female)

KAG500



Plug-in connector Angled Cable 5m - Socket M8 (female)

KAW500



Straight Fittings - Quick Connect Style

GVM5



Pressure Safety Valve

DSV1-8



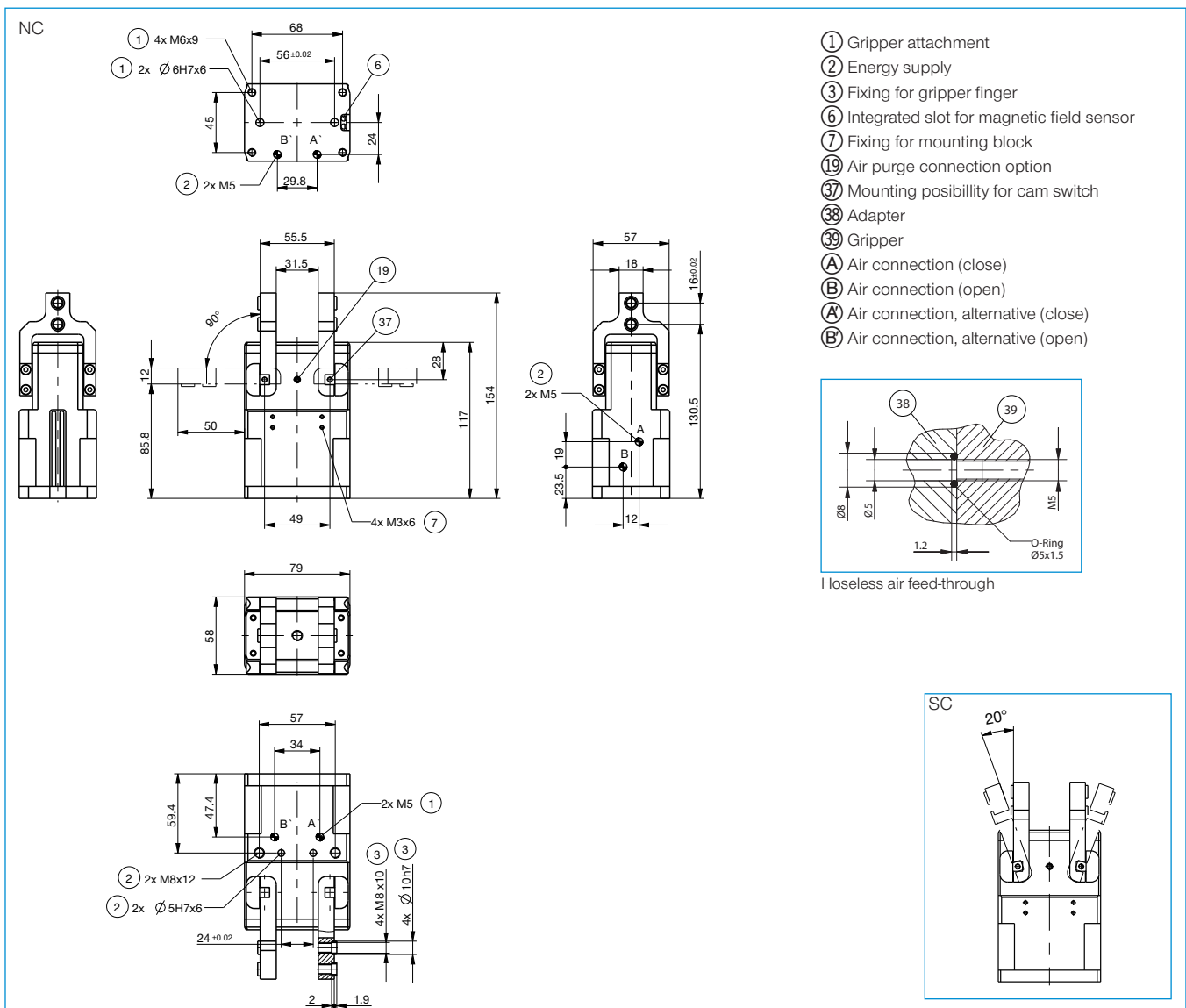
Plug-in connector customizable Straight - Connector M8

S8-G-3

► Technical Data*

Order no.	GG4058NC	GG4058SC
Stroke per jaw [°]	90	20
Gripping moment in closing at 0° [Nm]	46	53.5
Gripping moment secured by spring min. [Nm]	5.7	14.5
Gripping force in closing [N]	1650	1900
Length of the gripper fingers max. [mm]	120	120
Permissible weight per jaw max [kg]	0.36	0.36
Closing time [s]	0.16	0.14
Opening time [s]	0.28	0.17
Repetition accuracy +/- [mm]	0.05	0.05
Operating pressure min. [bar]	4	4
Operating pressure max. [bar]	8	8
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm³]	86	65
Weight [kg]	1.4	1.4

*All data measured at 6 bar

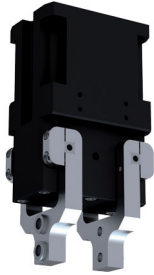


2-JAW RADIAL GRIPPER

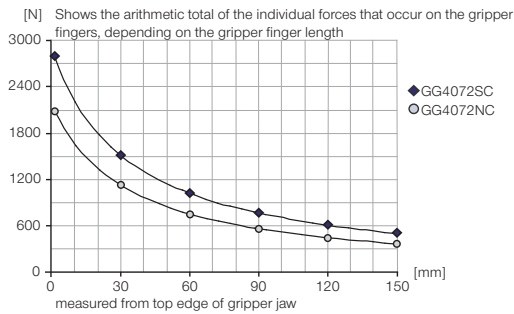
INSTALLATION SIZE GG4072

1

▶ PRODUCT SPECIFICATIONS

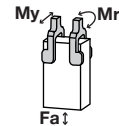


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	41
My [Nm]	41
Fa [N]	1100

▶ INCLUDED IN DELIVERY



Centering Disc

DST42000



Stroke adjustment screw

HES0018

▶ RECOMMENDED ACCESSORIES



Mounting block

KB8-49



Inductive proximity switch
- Connector M8

NJ8-E2S



Magnetic field sensor
Angled Cable 0,3 m -
Connector M8

MFS103SKHC



Magnetic field sensor
Straight Cable 0,3 m -
Connector M8

MFS204SKHC



2-Position-Sensor Cable
0,3 m - Connector M8

MFSP2SKHC-02



Plug-in connector Straight Cable
5m - Socket M8 (female)

KAG500



Plug-in connector Angled Cable
5m - Socket M8 (female)

KAW500



Straight Fittings - Quick
Connect Style

GV1-8X6



Pressure Safety Valve

DSV1-8



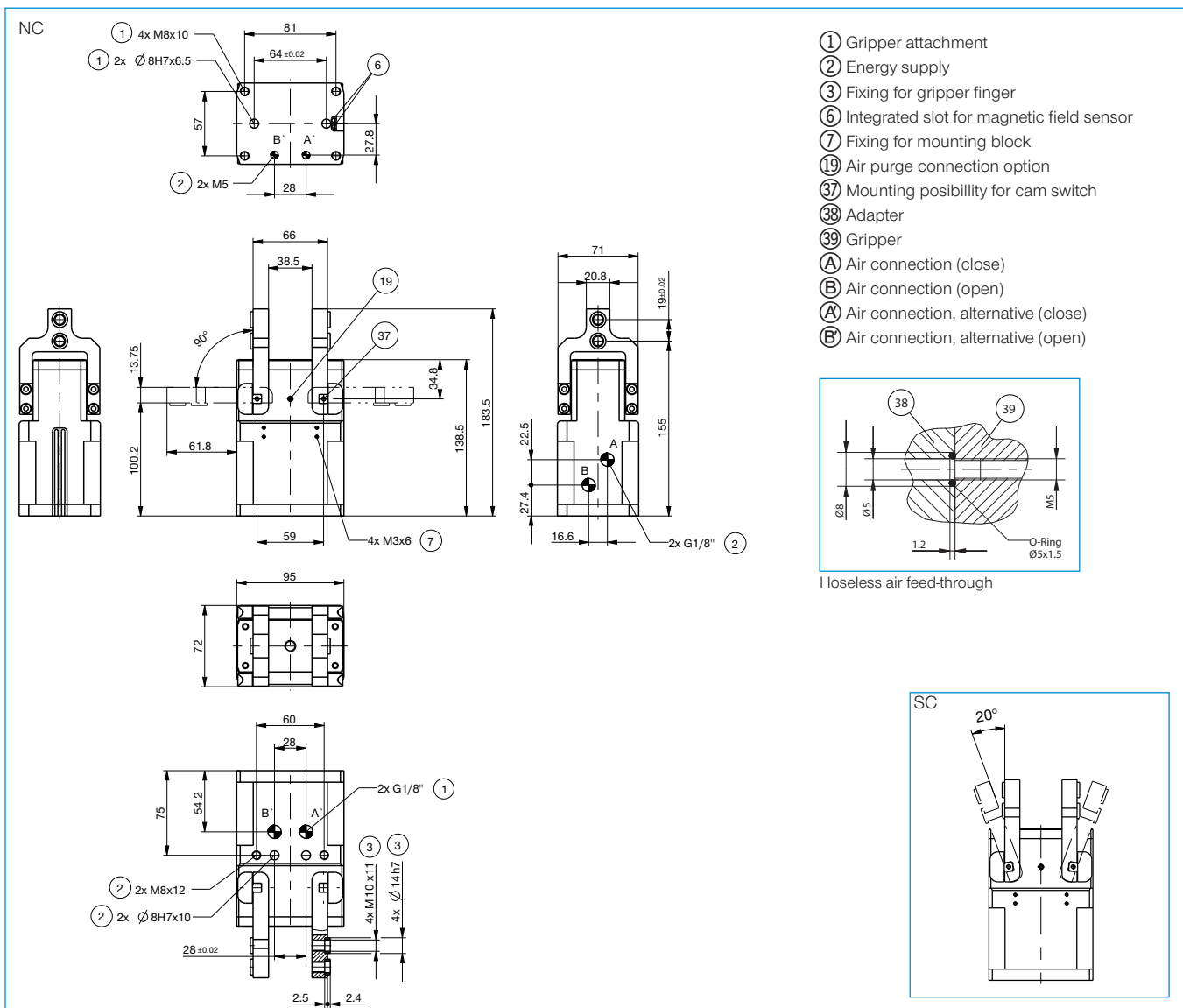
Plug-in connector customiz-
able Straight - Connector M8

S8-G-3

► Technical Data*

Order no.	GG4072NC	GG4072SC
Stroke per jaw [°]	90	20
Gripping moment in closing at 0° [Nm]	69	94
Gripping moment secured by spring min. [Nm]	10	21
Gripping force in closing [N]	1950	2700
Length of the gripper fingers max. [mm]	145	145
Permissible weight per jaw max [kg]	0.65	0.65
Closing time [s]	0.21	0.06
Opening time [s]	0.34	0.175
Repetition accuracy +/- [mm]	0.05	0.05
Operating pressure min. [bar]	4	4
Operating pressure max. [bar]	8	8
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm³]	130	100
Weight [kg]	2.45	2.45

*All data measured at 6 bar



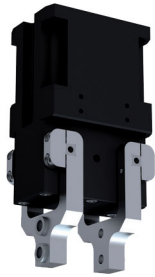
2-JAW RADIAL GRIPPER

INSTALLATION SIZE GG4084

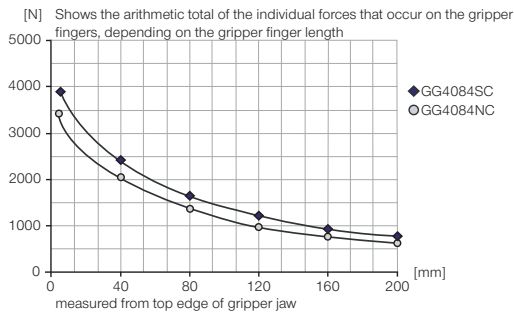
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Installation size GG4084 / 2-jaw radial gripper / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS

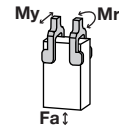


▶ Gripping force diagram



▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	60
My [Nm]	60
Fa [N]	1800

▶ INCLUDED IN DELIVERY



Centering Disc

DST43000



Stroke adjustment screw

HES0019

▶ RECOMMENDED ACCESSORIES



Mounting block

KB8-49



Inductive proximity switch - Connector M8

NJ8-E2S



Magnetic field sensor Angled Cable 0,3 m - Connector M8

MFS103SKHC



Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



2-Position-Sensor Cable 0,3 m - Connector M8

MFSP2SKHC-02



Plug-in connector Straight Cable 5m - Socket M8 (female)

KAG500



Plug-in connector Angled Cable 5m - Socket M8 (female)

KAW500



Straight Fittings - Quick Connect Style

GV1-8X6



Pressure Safety Valve

DSV1-8

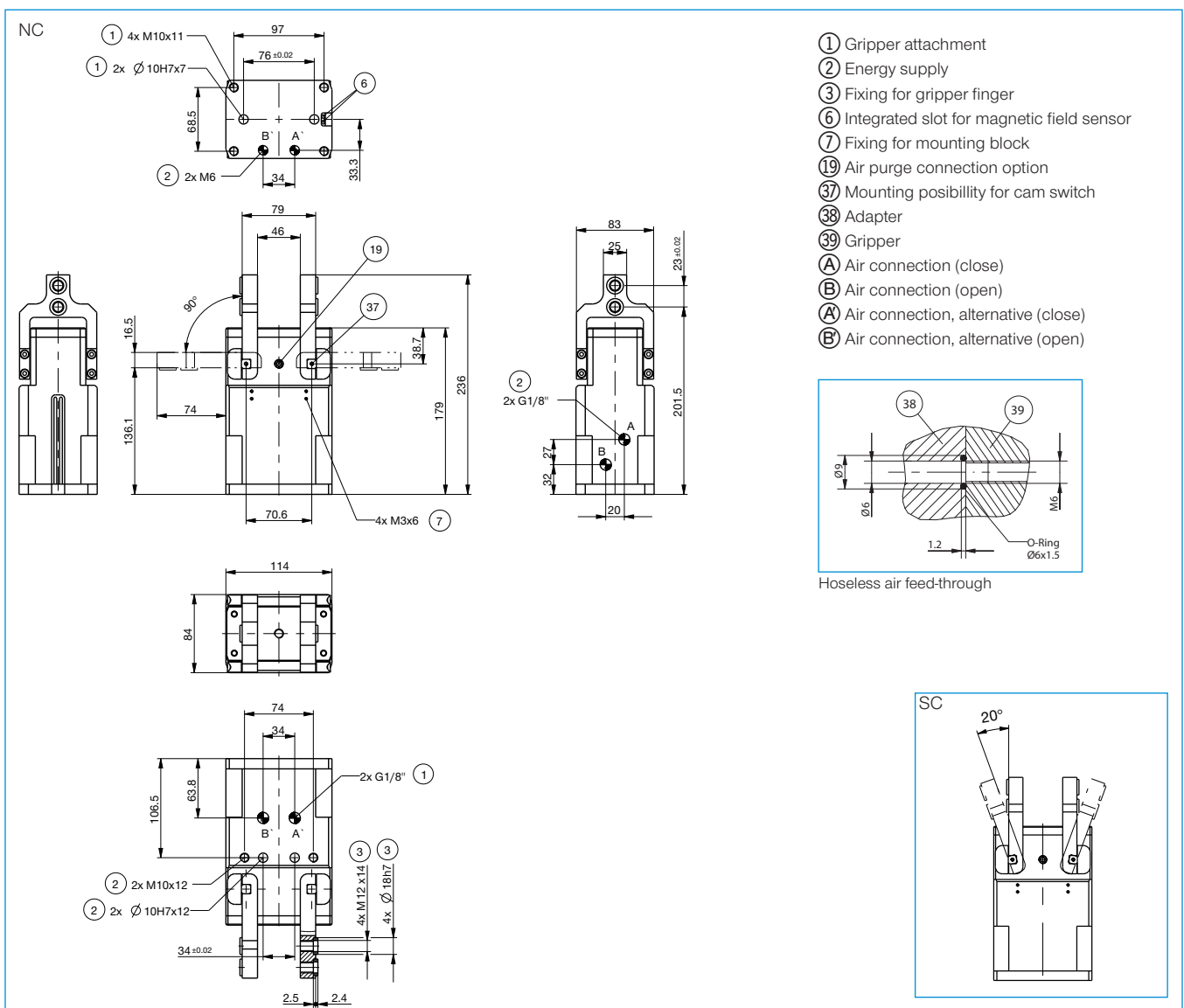


Plug-in connector customizable Straight - Connector M8

S8-G-3

Order no.	► Technical Data*	
	GG4084NC	GG4084SC
Stroke per jaw [°]	90	20
Gripping moment in closing at 0° [Nm]	135	156
Gripping moment secured by spring min. [Nm]	80	115
Gripping force in closing [N]	3500	4000
Length of the gripper fingers max. [mm]	175	175
Permissible weight per jaw max [kg]	1	1
Closing time [s]	0.27	0.11
Opening time [s]	0.48	0.250
Repetition accuracy +/- [mm]	0.05	0.05
Operating pressure min. [bar]	4	4
Operating pressure max. [bar]	8	8
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm³]	220	170
Weight [kg]	4.5	4.5










*All data measured at 6 bar



GRIPPERS FOR SPECIFIC TASKS

OVERVIEW OF SERIES



▶ PNEUMATIC		
	Series LGS	450
	Series LG1000	458
	Series LGG	468
	Series RG	474
	Series ST	480
	Series SCH	486
	Series GS	492
	Series GSI	500
	Series HM1000	504

INTERNAL GRIPPER SERIES LGS

1

Series LGS / Internal gripper / pneumatic / Grippers

▶ PRODUCT ADVANTAGES



▶ Concentration on the essentials

The most economic type of gripping: This is how you reduce your production costs

▶ Individually machinable clamping jaws

You have never adjusted a gripper to your application this quickly and easily

▶ Direct drive

The control system with only one pneumatic line reduces installation effort and interference contours

▶ THE BEST PRODUCT FOR YOUR APPLICATION



▶ Our products love the challenge!

Extreme conditions, all over the world—our tried and tested components and systems give you limitless possibilities:

Find the best product for your specific use:

www.zimmer-group.com

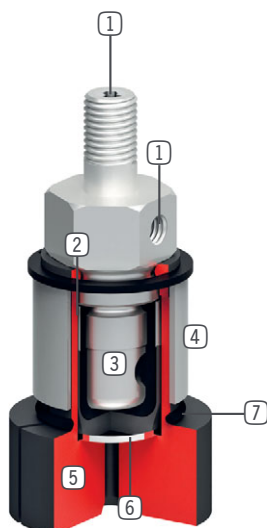
HOW TO ORDER CORRECTLY

- ▶ The product order numbers are arranged according to this diagram:

Order no.	LG4-20	<input type="checkbox"/>		
extended collet chuck		V		

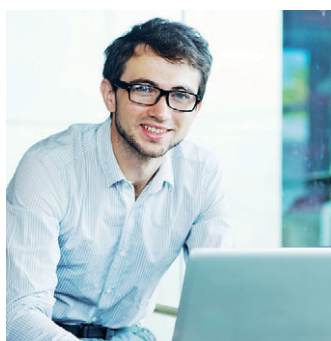


► BENEFITS IN DETAIL



- ① **Energy supply**
 - axial and radial possible
- ② **Protective membrane**
 - between collet chuck and function membrane
- ③ **Direct drive with membrane**
 - only one pneumatic line required
- ④ **Stroke limit**
 - prevents damage by overstretching with empty strokes
- ⑤ **Collet chuck**
 - for individual machining
- ⑥ **Steel protective cover**
 - protects the membrane against puncturing
- ⑦ **O-ring for backstroke**
 - gripper close movement after venting

► FURTHER INFORMATION IS AVAILABLE ONLINE



► Technical Information

All information just a click away at: www.zimmer-group.com

Find data, illustrations, 3D models and operating instructions for your installation size using the order number for your desired product.

Quick, clear and always up-to-date.



INTERNAL GRIPPER

INSTALLATION SIZE LG4-20

1

▶ PRODUCT SPECIFICATIONS



▶ INCLUDED IN DELIVERY



Collet Chuck

DST04200



Collet chuck V-version

DST04201

▶ RECOMMENDED ACCESSORIES

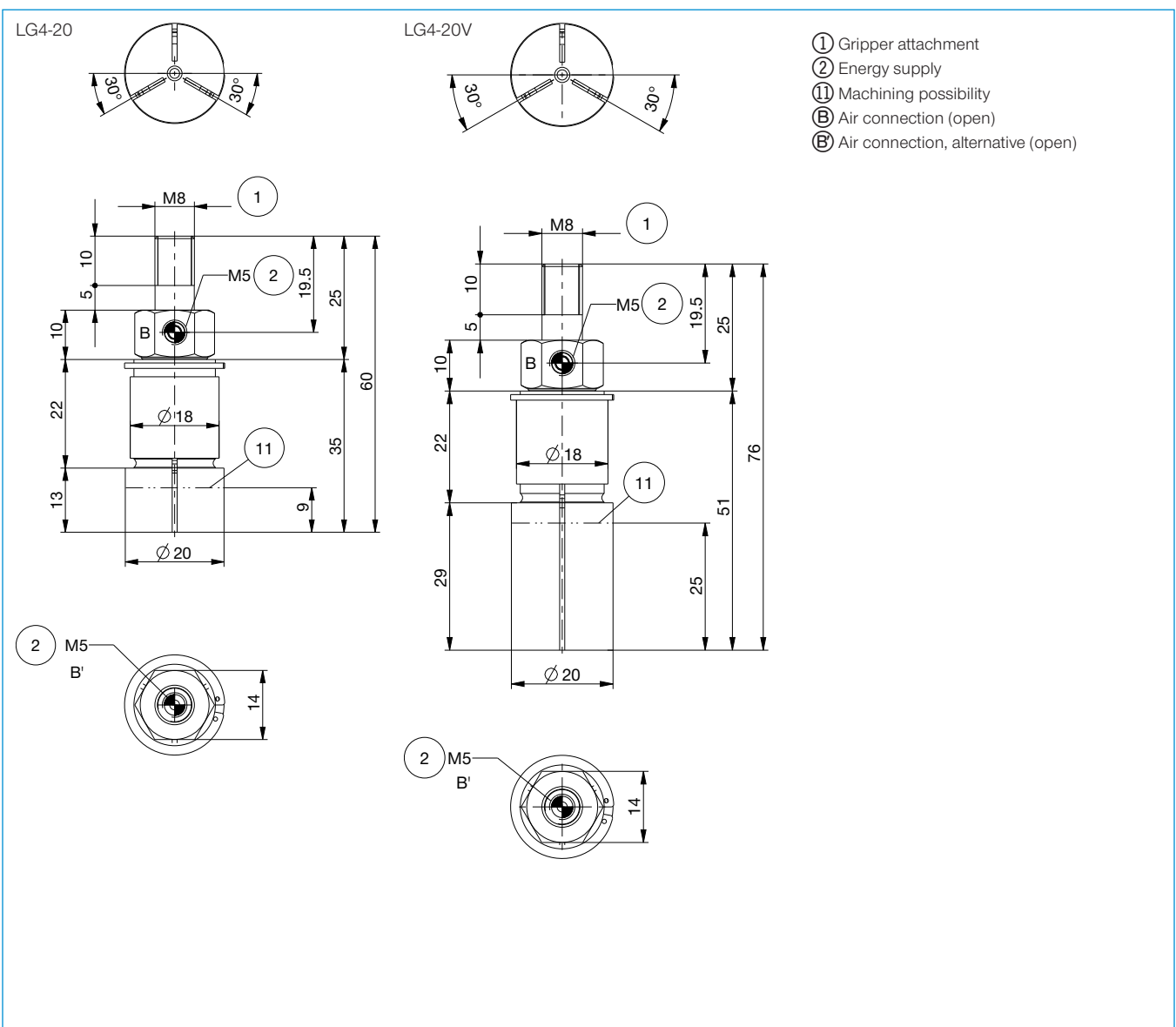


Straight Fittings - Quick
Connect Style

GVM5

Order no.	▶ Technical Data*	
	LG4-20	LG4-20V
Total stroke in Ø [mm]	1	1
Grip diameter min. [mm]	4	4
Gripping moment in opening [Nm]	0.5	0.5
Closing time [s]	0.1	0.1
Opening time [s]	0.1	0.1
Operating pressure min. [bar]	4	4
Operating pressure max. [bar]	6	6
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+60	+60
Air volume per cycle [cm³]	1	1
Weight [kg]	0.075	0.115
Machining length of the collet max. [mm]	9	25

*All data measured at 6 bar



INTERNAL GRIPPER

INSTALLATION SIZE LG20-30

1

▶ PRODUCT SPECIFICATIONS



▶ INCLUDED IN DELIVERY



Collet Chuck

DST20300



Collet chuck V-version

DST20301

▶ RECOMMENDED ACCESSORIES

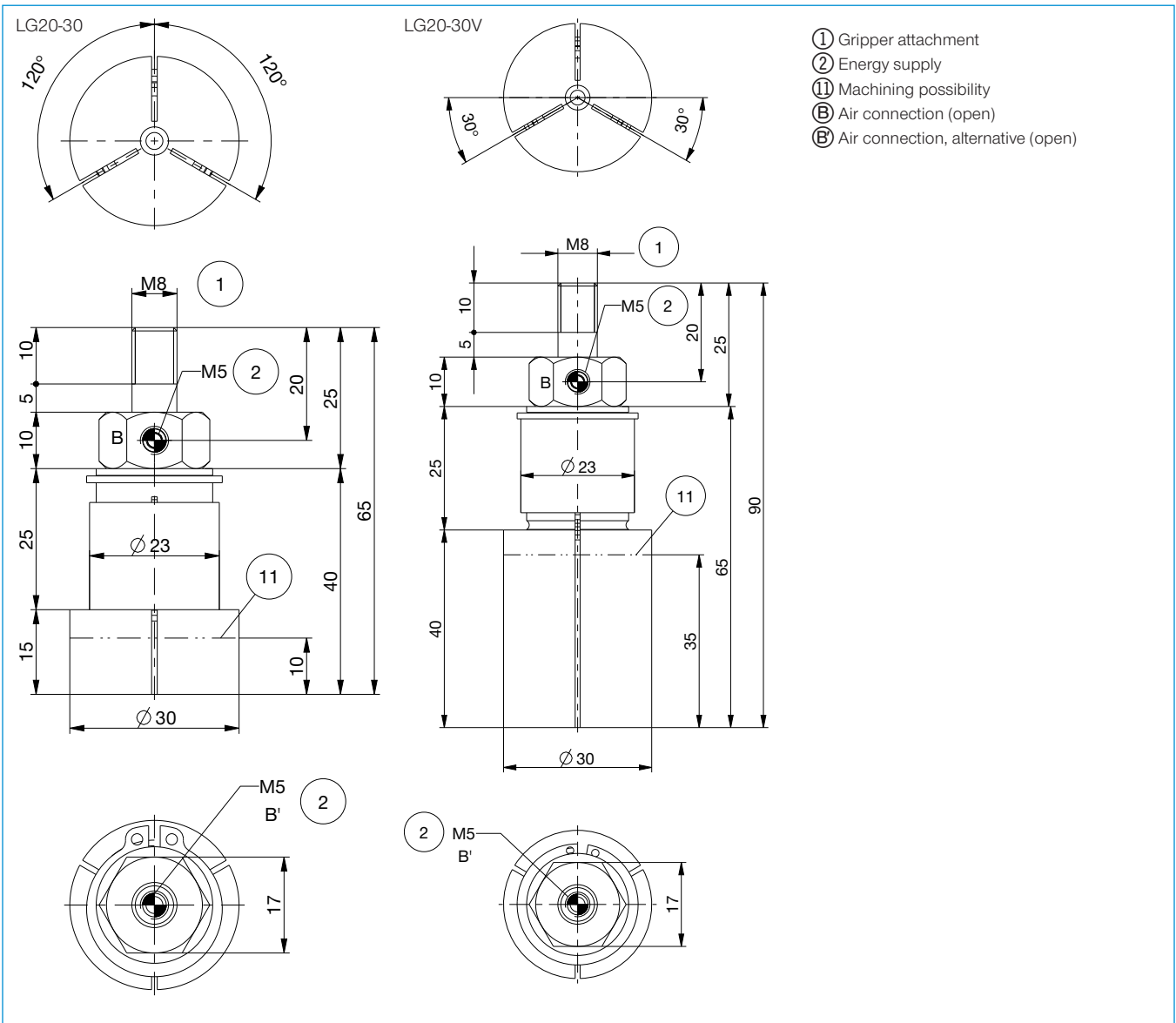


Straight Fittings - Quick
Connect Style

GVM5

Order no.	▶ Technical Data*	
	LG20-30	LG20-30V
Total stroke in Ø [mm]	1	1
Grip diameter min. [mm]	5	5
Gripping moment in opening [Nm]	2	2
Closing time [s]	0.1	0.1
Opening time [s]	0.1	0.1
Operating pressure min. [bar]	4	4
Operating pressure max. [bar]	6	6
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+60	+60
Air volume per cycle [cm³]	3	3
Weight [kg]	0.16	0.29
Machining length of the collet max. [mm]	10	35

*All data measured at 6 bar



INTERNAL GRIPPER

INSTALLATION SIZE LG30-50

1

▶ PRODUCT SPECIFICATIONS



▶ INCLUDED IN DELIVERY



Collet Chuck

DST30500

▶ RECOMMENDED ACCESSORIES



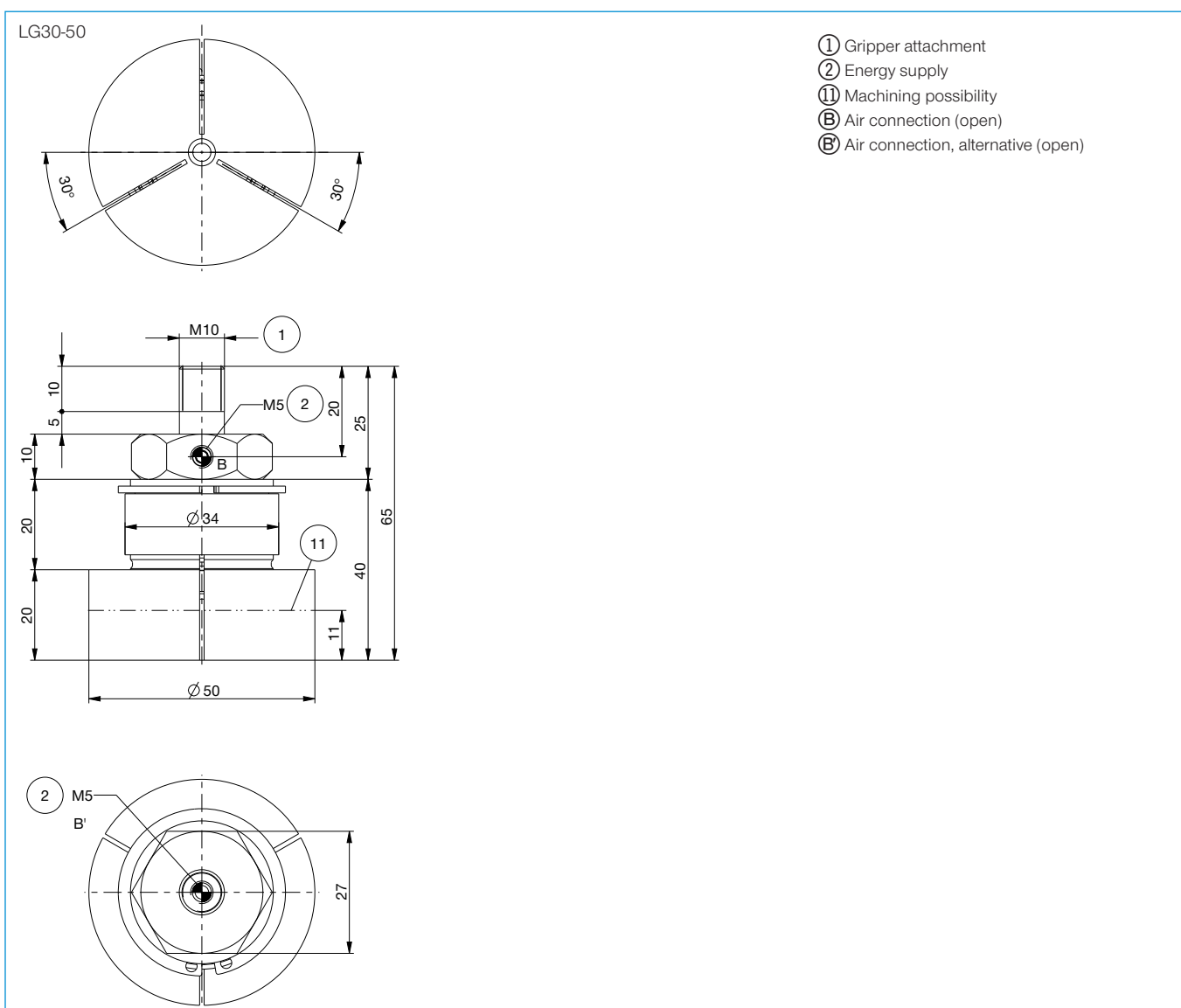
Straight Fittings - Quick
Connect Style

GVM5

Installation size LG30-50 / Internal gripper / pneumatic / Grippers

Order no.	Technical Data*
Total stroke in Ø [mm]	1
Grip diameter min. [mm]	6
Gripping moment in opening [Nm]	3
Closing time [s]	0.1
Opening time [s]	0.1
Operating pressure min. [bar]	4
Operating pressure max. [bar]	6
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+60
Air volume per cycle [cm ³]	5
Weight [kg]	0.46
Machining length of the collet max. [mm]	11

*All data measured at 6 bar



INTERNAL GRIPPER

SERIES LG1000

1

Series LG1000 / Internal gripper / pneumatic / Grippers

▶ PRODUCT ADVANTAGES



▶ Individually adjustable

The design of the gripper enables you to grip not only cylindrical gripping surfaces, but also conical and square ones with process reliability

▶ Integrated air or vacuum feedthrough

Use this option for applications such as leak tests, purging or vacuuming your part

▶ Surface protection provided by silicone membrane

In addition to covering a vast range of gripper hole diameters, the membrane provides ideal protection from damage

▶ THE BEST PRODUCT FOR YOUR APPLICATION



▶ Our products love the challenge!

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Find the best product for your specific use:

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HOW TO ORDER CORRECTLY

▶ The product order numbers are arranged according to this diagram:

Order no.	LG1008	<input type="checkbox"/>	SI	
Axial energy supply		-01		
Radial energy supply, through-hole		-02		
Silicone rubber membrane				

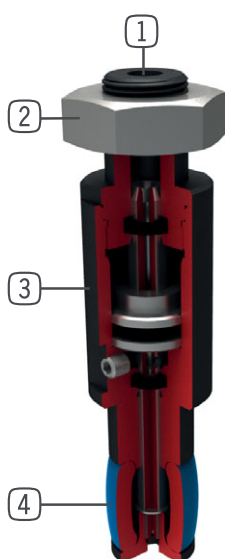


► BENEFITS IN DETAIL

1

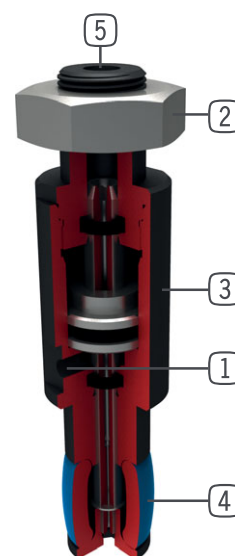
Series LG1000 / Internal gripper / pneumatic / Grippers

Version-01

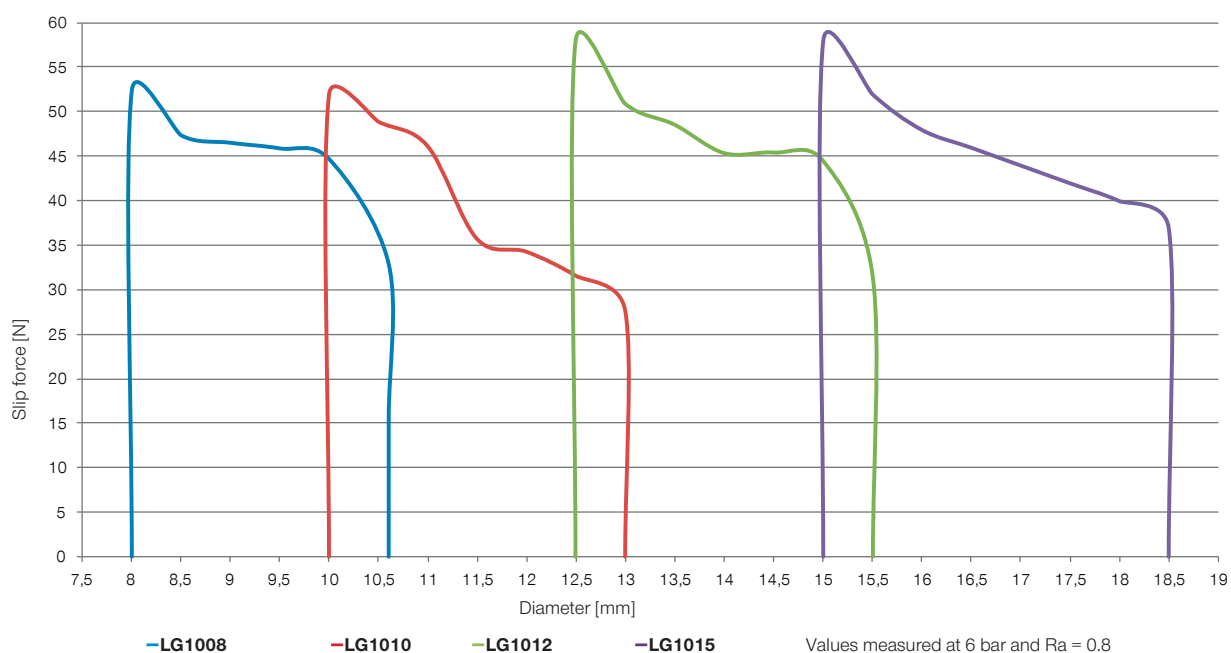


- ① **Energy supply**
 - Axial (version-01) or radial (version-02)
- ② **Mounting and positioning**
 - via fit, thread and lock nut
- ③ **Robust, lightweight housing**
 - Hard-coated aluminum alloy
- ④ **Direct gripping with rubber membrane**
 - High holding force due to high friction value
 - reset when venting
- ⑤ **Through-hole**
 - Compressed air or vacuum connection for cooling the workpieces or testing them for leaks (version-02)

Version-02



► SLIP FORCE DIAGRAM



INTERNAL GRIPPER

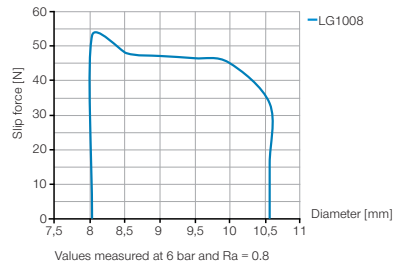
INSTALLATION SIZE LG1008

1

▶ PRODUCT SPECIFICATIONS



▶ Slip force diagram



▶ RECOMMENDED ACCESSORIES



Centering cone

DAL02350



Straight Fittings - Barb Style Connection

GVM3



Straight Fittings - Quick Connect Style

GVM5



Angled Fittings - Barb Style Connection

WVM3

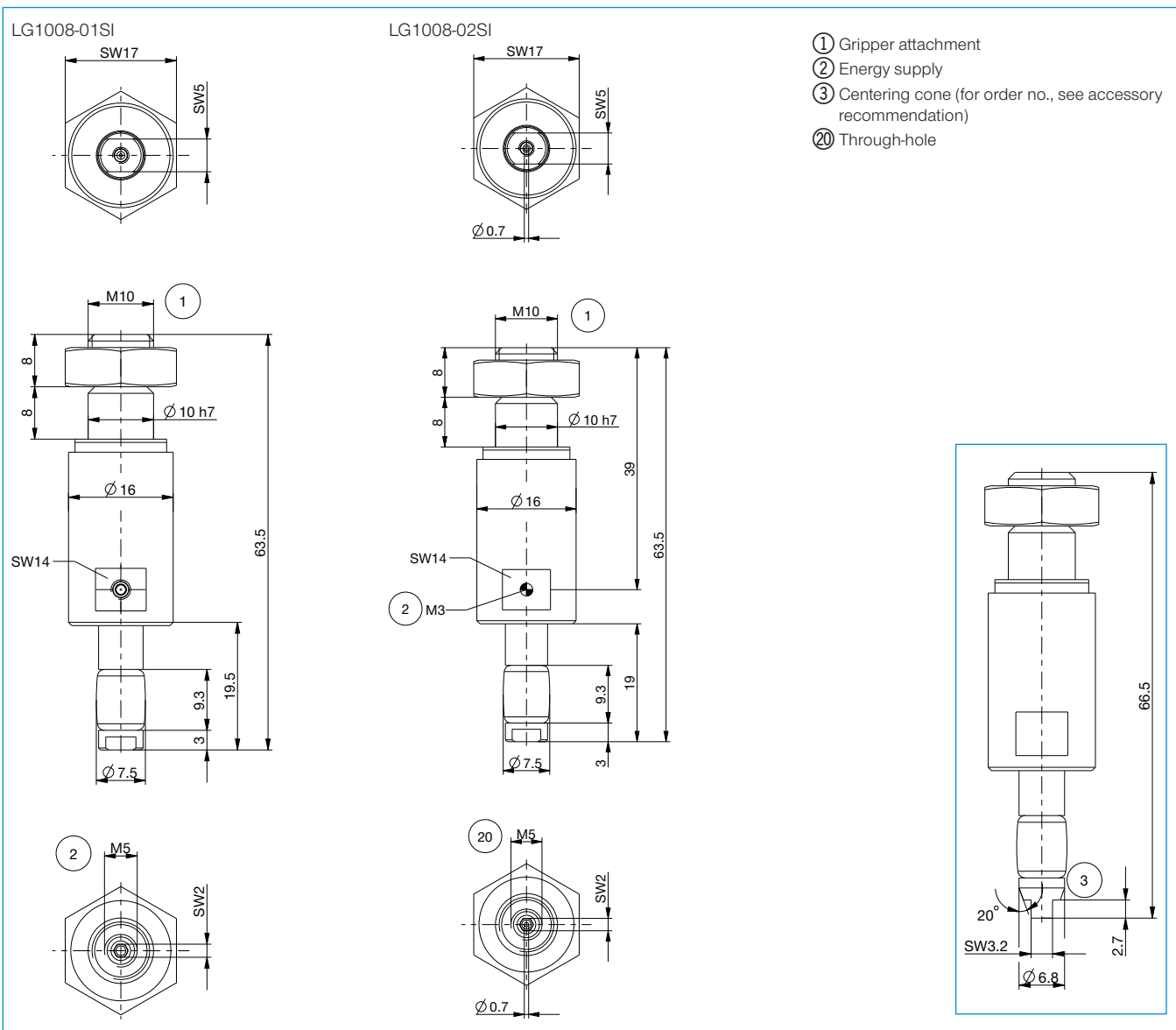


Angled Fittings - Quick Connect Style

WVM5

Order no.	▶ Technical Data*	
	LG1008-01SI	LG1008-02SI
Operating temperature [°C]	5 ... +80	5 ... +80
Retract time / Extend time [s]	0.2	0.2
Grip diameter max. [mm]	10.5	10.5
Grip diameter min. [mm]	8	8
Total stroke in Ø [mm]	2.5	2.5
Max. slip force [N]	53	53
Operating pressure min. [bar]	4	4
Operating pressure max. [bar]	6	6
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm ³]	0.7	0.7
Weight [kg]	0.032	0.028

*All data measured at 6 bar



INTERNAL GRIPPER

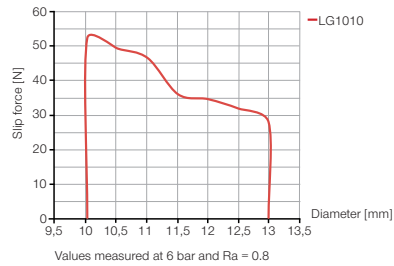
INSTALLATION SIZE LG1010

1

▶ PRODUCT SPECIFICATIONS



▶ Slip force diagram



▶ RECOMMENDED ACCESSORIES



Centering cone

DAL02360



Straight Fittings - Barb Style Connection

GVM3



Straight Fittings - Quick Connect Style

GVM5



Angled Fittings - Barb Style Connection

WVM3

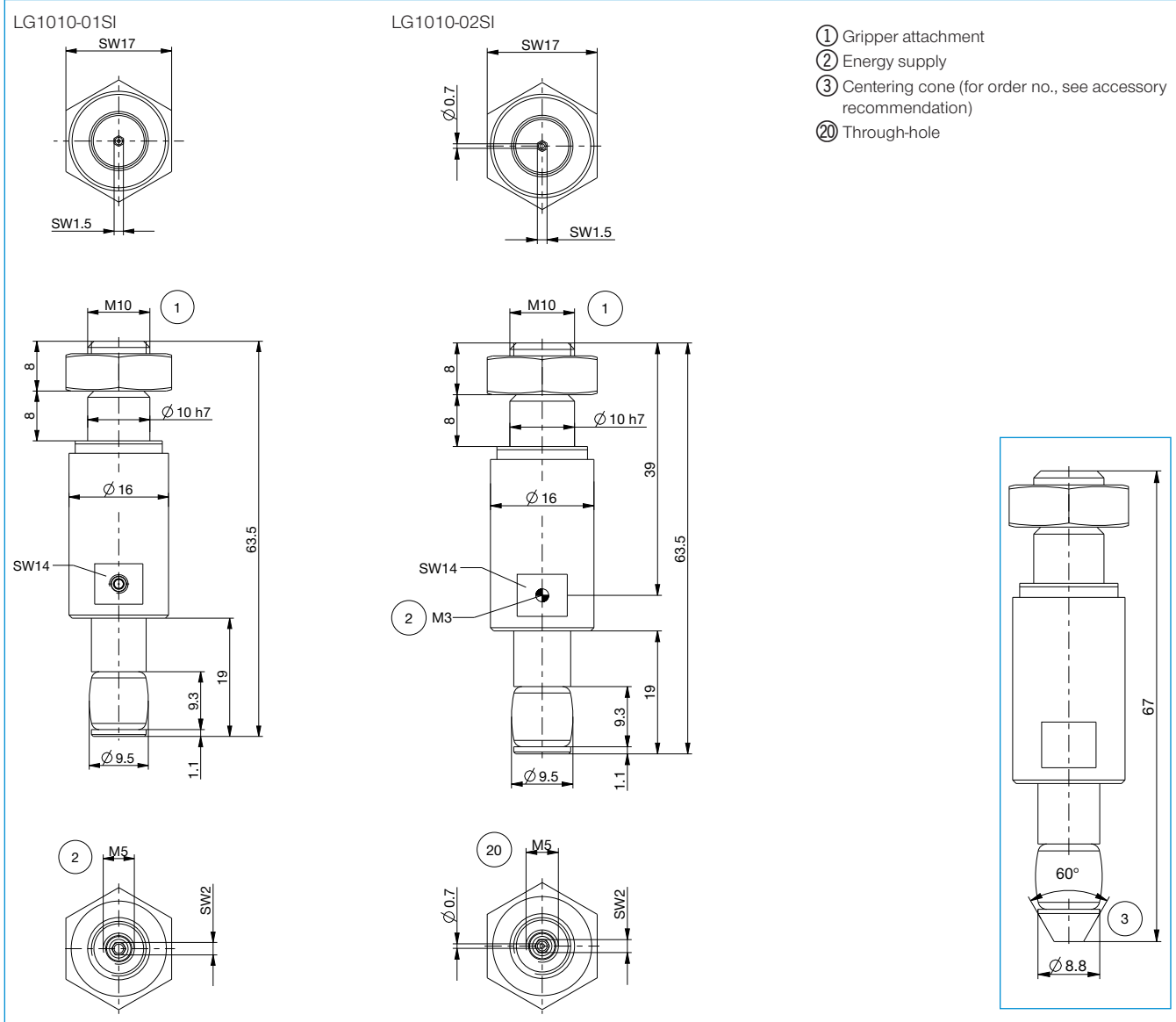


Angled Fittings - Quick Connect Style

WVM5

Order no.	▶ Technical Data*	
	LG1010-01SI	LG1010-02SI
Operating temperature [°C]	5 ... +80	5 ... +80
Retract time / Extend time [s]	0.2	0.2
Grip diameter max. [mm]	13	13
Grip diameter min. [mm]	10	10
Total stroke in Ø [mm]	3	3
Max. slip force [N]	53	53
Operating pressure min. [bar]	4	4
Operating pressure max. [bar]	6	6
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm³]	0.7	0.7
Weight [kg]	0.033	0.029

*All data measured at 6 bar



INTERNAL GRIPPER

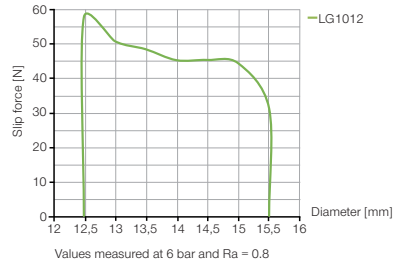
INSTALLATION SIZE LG1012

1

▶ PRODUCT SPECIFICATIONS



▶ Slip force diagram



▶ RECOMMENDED ACCESSORIES



Centering cone

DAL02370



Straight Fittings - Barb Style Connection

GVM3



Straight Fittings - Quick Connect Style

GVM5



Angled Fittings - Barb Style Connection

WVM3

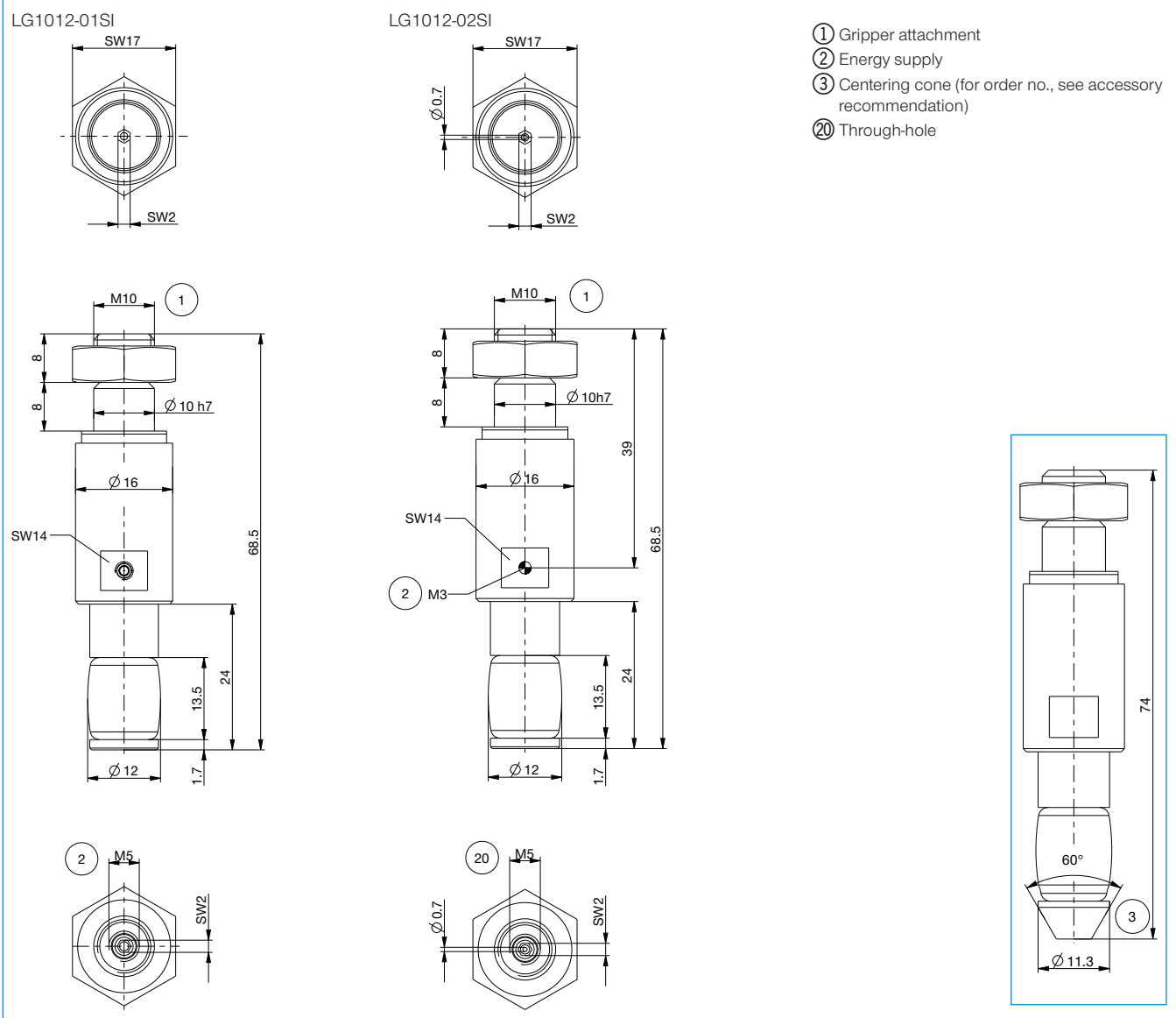


Angled Fittings - Quick Connect Style

WVM5

Order no.	▶ Technical Data*	
	LG1012-01SI	LG1012-02SI
Operating temperature [°C]	5 ... +80	5 ... +80
Retract time / Extend time [s]	0.2	0.2
Grip diameter max. [mm]	15.5	15.5
Grip diameter min. [mm]	12.5	12.5
Total stroke in Ø [mm]	3	3
Max. slip force [N]	58	58
Operating pressure min. [bar]	4	4
Operating pressure max. [bar]	6	6
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm³]	0.7	0.7
Weight [kg]	0.036	0.034

*All data measured at 6 bar



INTERNAL GRIPPER

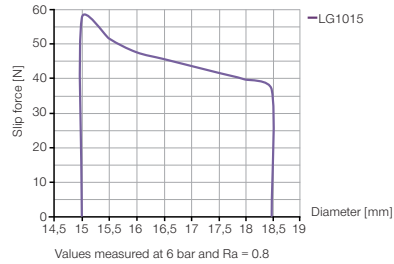
INSTALLATION SIZE LG1015

1

▶ PRODUCT SPECIFICATIONS



▶ Slip force diagram



▶ RECOMMENDED ACCESSORIES



Centering cone

DAL02380



Straight Fittings - Barb Style Connection

GVM3



Straight Fittings - Quick Connect Style

GVM5



Angled Fittings - Barb Style Connection

WVM3

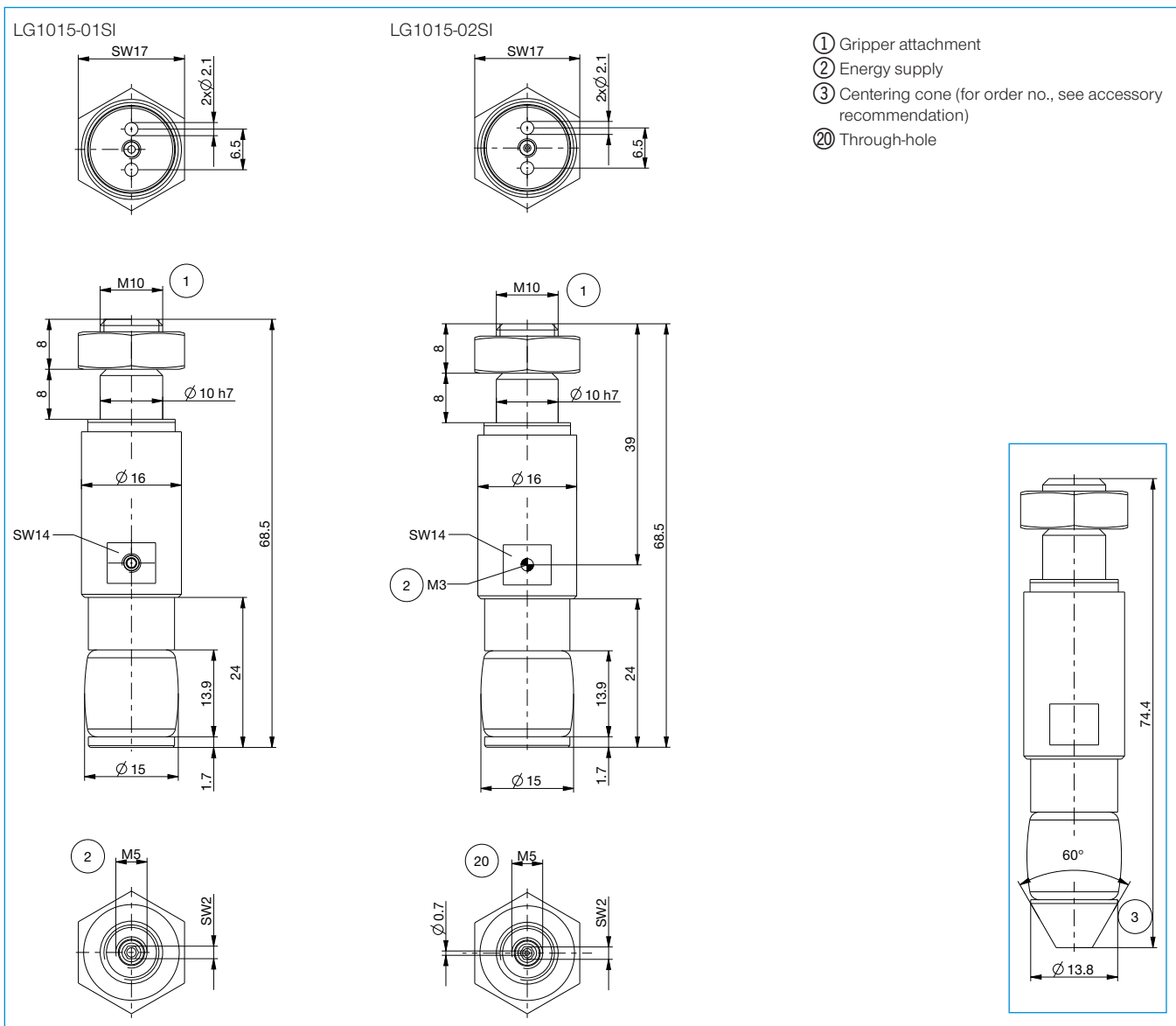


Angled Fittings - Quick Connect Style

WVM5

Order no.	▶ Technical Data*	
	LG1015-01SI	LG1015-02SI
Operating temperature [°C]	5 ... +80	5 ... +80
Retract time / Extend time [s]	0.2	0.2
Grip diameter max. [mm]	18.5	18.5
Grip diameter min. [mm]	15	15
Total stroke in Ø [mm]	3.5	3.5
Max. slip force [N]	58	58
Operating pressure min. [bar]	4	4
Operating pressure max. [bar]	6	6
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm³]	0.7	0.7
Weight [kg]	0.041	0.037

*All data measured at 6 bar



INTERNAL GRIPPER SERIES LGG

1

Series LGG / Internal gripper / pneumatic / Grippers

▶ PRODUCT ADVANTAGES



▶ **Surface protection with rubber knobs**

Continuously protect the surface of your workpieces and minimise rejections in the process

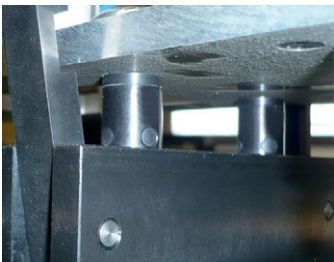
▶ **Secure hold**

The coefficient of friction ensures your workpiece stays held reliably, even under high dynamics

▶ **Direct drive**

The control system with only one pneumatic line reduces installation effort and interference contours

▶ THE BEST PRODUCT FOR YOUR APPLICATION



▶ **Our products love the challenge!**

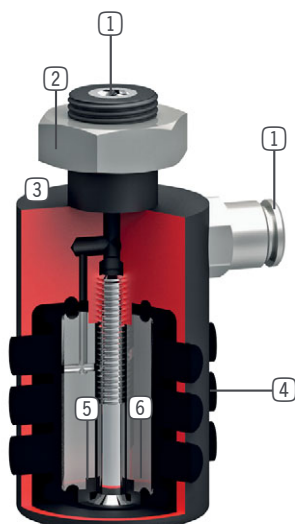
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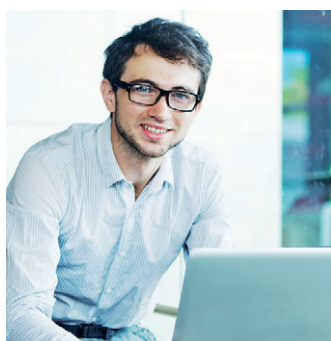


► BENEFITS IN DETAIL



- ① **Energy supply**
 - radial
 - axial and radial from LG35-39
- ② **Fixing**
 - by fit, thread and locknut
- ③ **Robust, lightweight housing**
 - Hard-coated aluminum alloy
 - no overstretching of the rubber membrane at empty stroke
- ④ **Direct gripping with rubber knobs**
 - high retention force due to good friction value, approx. 0.5 with rubber
- ⑤ **Gripping with single-acting rubber membranes**
 - low actuate effort
 - reset when venting
 - adjustable force with operating pressure (2 - 6 bar)
- ⑥ **Inner core**
 - saves air volume and cycle time (from LG35-39)

► FURTHER INFORMATION IS AVAILABLE ONLINE



► Technical Information

All information just a click away at: www.zimmer-group.com

Find data, illustrations, 3D models and operating instructions for your installation size using the order number for your desired product.

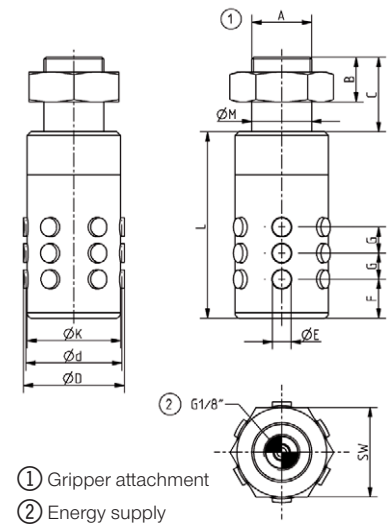
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INTERNAL GRIPPER SERIES LGG

1

PRODUCT SPECIFICATIONS



RECOMMENDED ACCESSORIES



Straight Fittings - Quick Connect Style

GV1-8X6



Quick Exhaust Valve

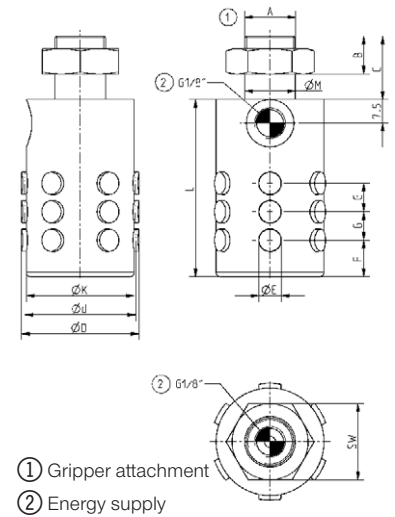
DEV06

Technical Data*

Order no.	LG15-18	LG18-22	LG22-26	LG26-30	LG30-35
Total stroke in Ø [mm]	2.5	4	4	4	5
Clamping diameter d min. [mm]	15	17.5	21.5	25.5	29.5
Clamping diameter D max. [mm]	17.5	21.5	25.5	29.5	34.5
Gripping force in extraction [N]	100	100	150	150	200
Retract time / Extend time [s]	0.2	0.2	0.2	0.2	0.2
Repetition accuracy +/- [mm]	0.05	0.05	0.05	0.05	0.05
Operating pressure min. [bar]	2	2	2	2	2
Operating pressure max. [bar]	6	6	6	6	6
Air volume per cycle [cm ³]	1	1	1	2	3
Operating temperature min. [°C]	5	5	5	5	5
Operating temperature max. [°C]	+80	+80	+80	+80	+80
A	M14X1.5	M14X1.5	M14X1.5	M16X1	M16X1
C [mm]	18	18	20	20	20
E Ø [mm]	5	5	5	6	7
F [mm]	10.5	10.5	11.5	10.5	11.5
G [mm]	7	7	7	7	8
K Ø [mm]	14.5	17	21	25	29
L [mm]	42	42	50	50	52
M Ø [mm]	14h7	14h7	14h7	16h7	16h7
Weight [kg]	0.031	0.035	0.051	0.071	0.09

*All data measured at 6 bar

▶ **PRODUCT SPECIFICATIONS**



▶ **RECOMMENDED ACCESSORIES**



Straight Fittings - Quick Connect Style
GV1-8X6



Quick Exhaust Valve
DEV06

▶ **Technical Data***

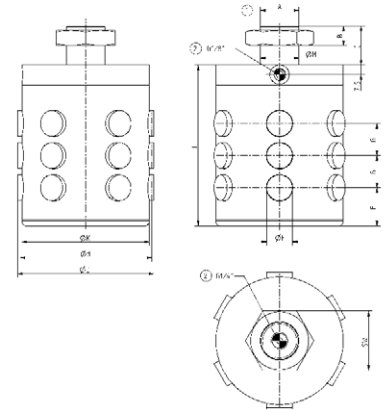
Order no.	LG35-39	LG40-45	LG46-51	LG51-56	LG56-62	LG63-70	LG71-80	LG76-84	LG81-90	LG91-100
Total stroke in Ø [mm]	4.5	6.5	6	7	7.5	8	10.5	8.5	11	10
Clamping diameter d min. [mm]	34.5	39.5	45.5	50.5	55.5	62.5	70.5	75.5	80.5	90.5
Clamping diameter D max. [mm]	39	46	51.5	57.5	63	70.5	81	84	91.5	100.5
Gripping force in extraction [N]	300	400	500	750	900	1100	1500	1700	2000	2500
Retract time / Extend time [s]	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4
Repetition accuracy +/- [mm]	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Operating pressure min. [bar]	2	2	2	2	2	2	2	2	2	2
Operating pressure max. [bar]	6	6	6	6	6	6	6	6	6	6
Air volume per cycle [cm ³]	5	8	13	17	25	33	42	53	67	117
Operating temperature min. [°C]	5	5	5	5	5	5	5	5	5	5
Operating temperature max. [°C]	+80	+80	+80	+80	+80	+80	+80	+80	+80	+80
A	M16X1	M16X1	M16X1	M16X1	M16X1	M20X1.5	M20X1.5	M20X1.5	M20X1.5	M20X1.5
C [mm]	20	20	20	20	20	15	15	15	15	15
E Ø [mm]	7	8	9	10	11	12.5	15	15.5	16	18
F [mm]	11.5	14	15.5	17	19	21.5	21.5	22.7	24.5	26.5
G [mm]	9	11	12	13	14.5	15.5	18	19	20	22.5
K Ø [mm]	34	39	45	50	50	62	70	75	80	90
L [mm]	56	62	68	74	80	86	92	96	100	110
M Ø [mm]	16h7	16h7	16h7	16h7	16h7	20h7	20h7	20h7	20h7	20h7
Weight [kg]	0.13	0.178	0.26	0.37	0.373	0.53	0.69	0.8	1	1.3

*All data measured at 6 bar

INTERNAL GRIPPER SERIES LGG

1

▶ PRODUCT SPECIFICATIONS



- ① Gripper attachment
- ② Energy supply

▶ RECOMMENDED ACCESSORIES



Straight Fittings - Quick Connect Style

GV1-8X6



Quick Exhaust Valve

DEV06

▶ Technical Data*

Order no.	LG100-110	LG110-120	LG120-135
Total stroke in Ø [mm]	11	11	16
Clamping diameter d min. [mm]	99.5	109.5	119.5
Clamping diameter D max. [mm]	110.5	120.5	135.5
Gripping force in extraction [N]	2800	3500	3500
Retract time / Extend time [s]	0.4	0.4	0.4
Repetition accuracy +/- [mm]	0.05	0.05	0.05
Operating pressure min. [bar]	2	2	2
Operating pressure max. [bar]	6	6	6
Air volume per cycle [cm ³]	150	200	250
Operating temperature min. [°C]	5	5	5
Operating temperature max. [°C]	+80	+80	+80
A	M30X1.5	M30X1.5	M30X1.5
C [mm]	30	30	30
E Ø [mm]	20	22	22
F [mm]	30	31	37
G [mm]	25	25	28
K Ø [mm]	99	109	119
L [mm]	120	130	145
M Ø [mm]	30h7	30h7	30h7
Weight [kg]	1.9	2.3	2.7

*All data measured at 6 bar



THE KNOW- HOW FACTORY

EXTERNAL GRIPPER SERIES RG

1

Series RG / External gripper / pneumatic / Grippers

▶ PRODUCT ADVANTAGES



▶ **Surface protection with rubber knobs**

Continuously protect the surface of your workpieces and minimise rejections in the process

▶ **Secure hold**

The coefficient of friction ensures your workpiece stays held reliably, even under high dynamics

▶ **Direct drive**

The control system with only one pneumatic line reduces installation effort and interference contours

▶ THE BEST PRODUCT FOR YOUR APPLICATION



▶ **Our products love the challenge!**

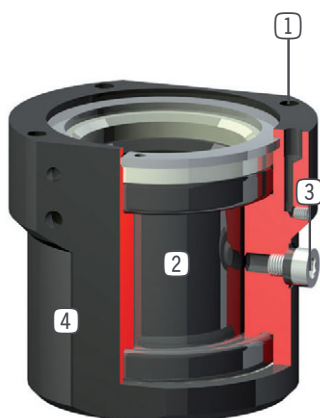
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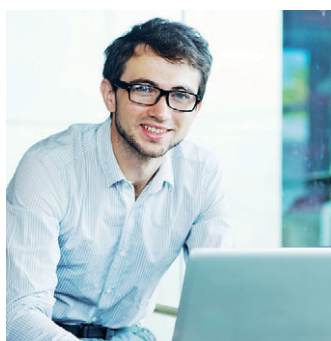


► BENEFITS IN DETAIL



- ① **Mounting and positioning**
- ② **Drive**
 - direct via rubber membrane
- ③ **Energy supply**
 - possible from several sides
- ④ **Robust, lightweight housing**
 - Hard-coated aluminum alloy

► FURTHER INFORMATION IS AVAILABLE ONLINE



► **Technical Information**

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EXTERNAL GRIPPER

INSTALLATION SIZE RG0-30

1

▶ PRODUCT SPECIFICATIONS

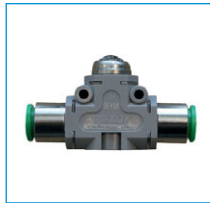


▶ RECOMMENDED ACCESSORIES



Straight Fittings - Quick
Connect Style

GVM5

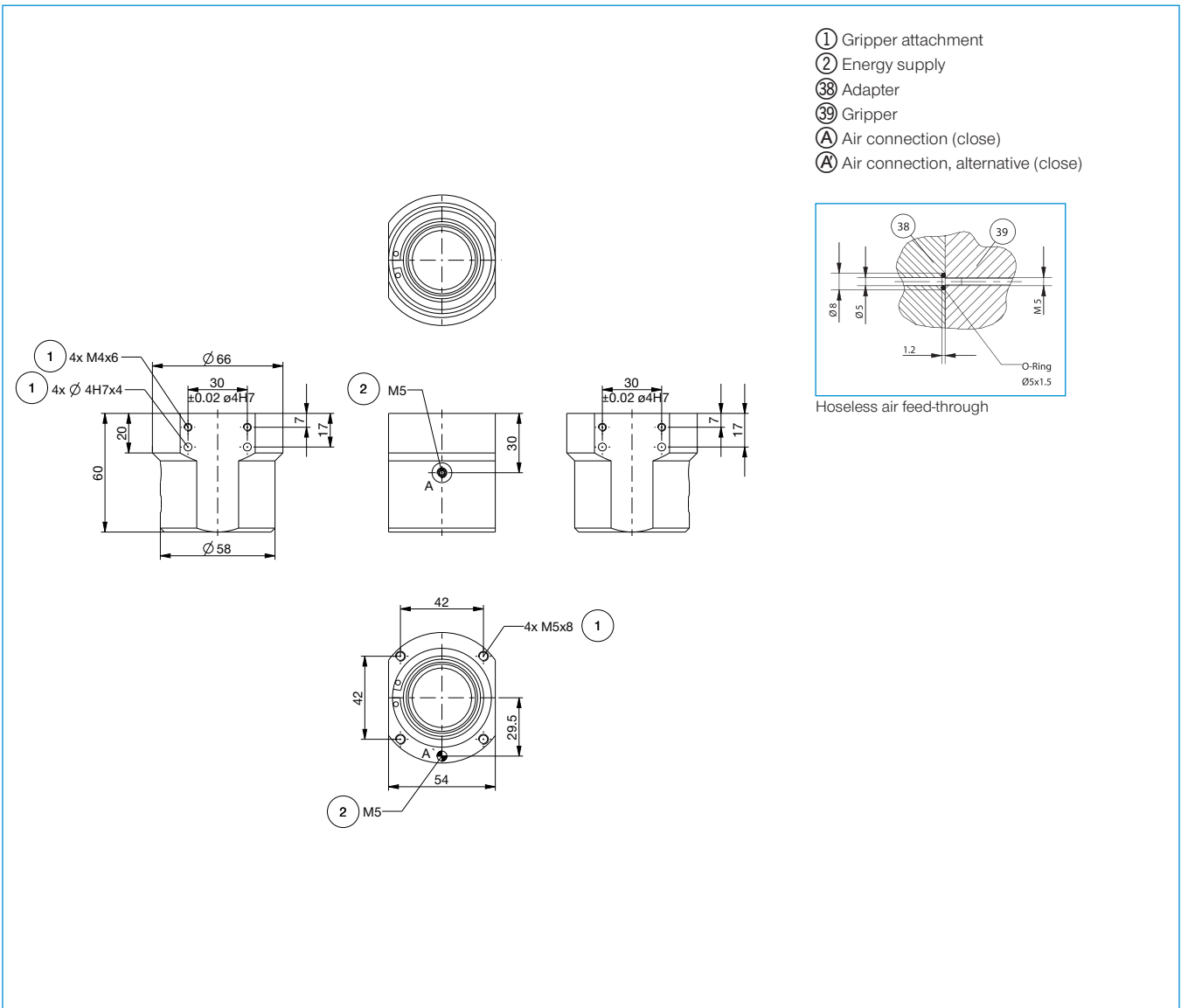


Quick Exhaust Valve

DEV04

Order no.	▶ Technical Data*
Grip diameter min. [mm]	0
Grip diameter max. [mm]	28
Gripping force in closing [N]	350
Closing time [s]	0.1
Opening time [s]	0.1
Operating pressure min. [bar]	1
Operating pressure max. [bar]	3
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm ³]	5
Weight [kg]	0.28

*All data measured at 3 bar



EXTERNAL GRIPPER

INSTALLATION SIZE RG10-60

1

▶ PRODUCT SPECIFICATIONS

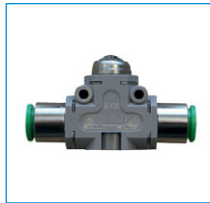


▶ RECOMMENDED ACCESSORIES



Straight Fittings - Quick
Connect Style

GVM5

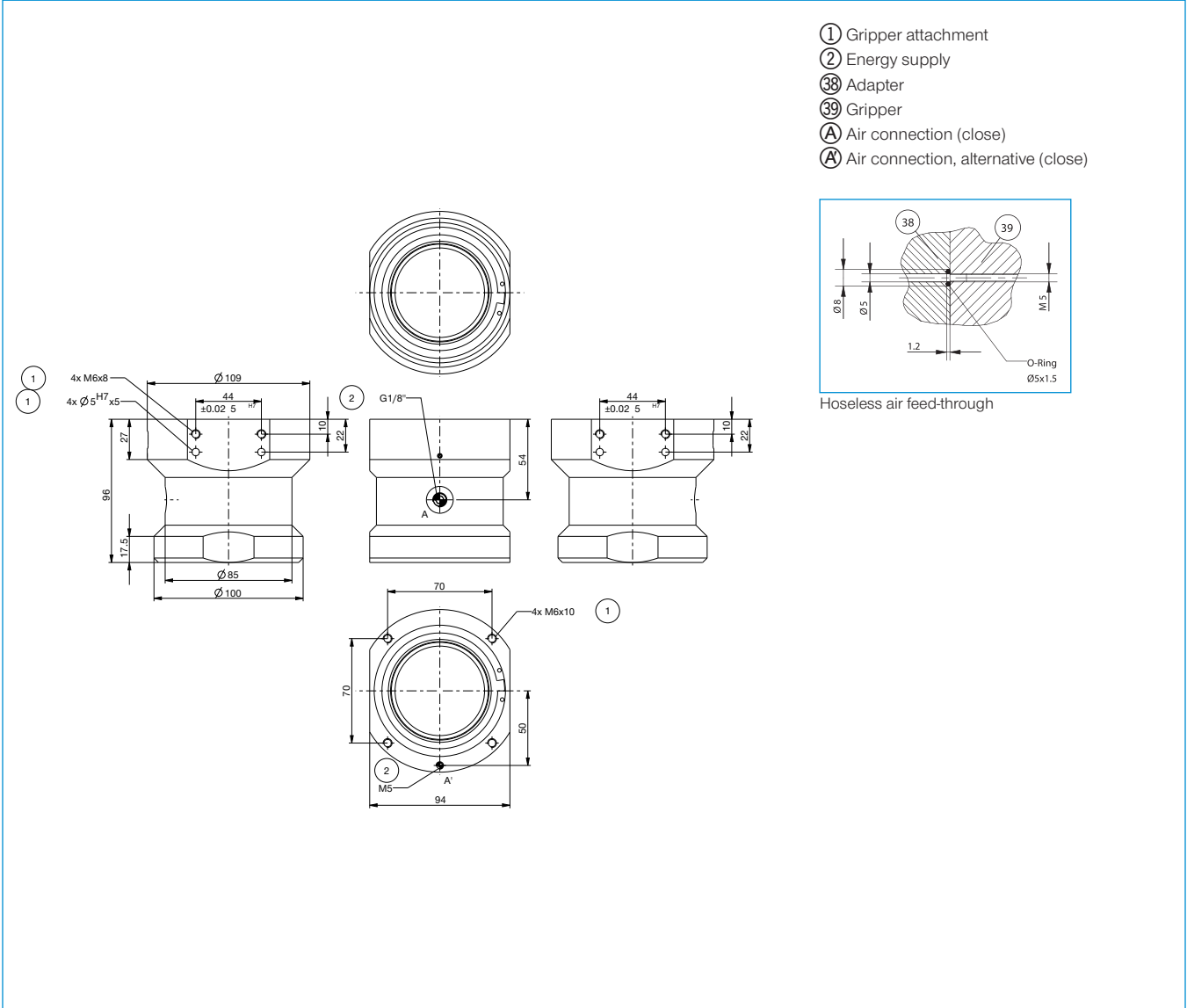


Quick Exhaust Valve

DEV04

Order no.	▶ Technical Data*
Grip diameter min. [mm]	10
Grip diameter max. [mm]	58
Gripping force in closing [N]	1000
Closing time [s]	0.1
Opening time [s]	0.1
Operating pressure min. [bar]	1
Operating pressure max. [bar]	3
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm ³]	33
Weight [kg]	0.85

*All data measured at 3 bar



NEEDLE GRIPPER SERIES ST

1

Series ST / Needle gripper / pneumatic / Grippers

▶ PRODUCT ADVANTAGES



▶ Smooth stroke configuration

Customise the stroke for your application with infinitely variable adjustment using an adjusting dial

▶ Workpiece drain function

This function guarantees the quick and reliable deposit of the workpiece and prevents disruptions to the process sequence

▶ Query about magnetic field sensor technology

Detecting the end position allows you to have shorter cycle times and an integrated control system

▶ THE BEST PRODUCT FOR YOUR APPLICATION



▶ Our products love the challenge!

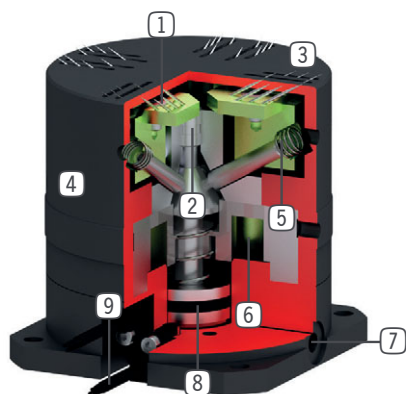
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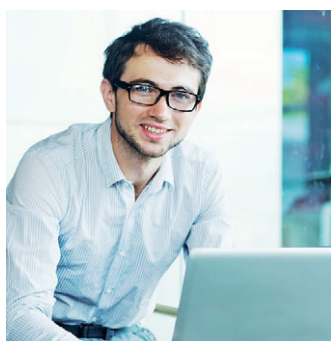


► BENEFITS IN DETAIL



- ① **Extending needles**
 - gripping by penetration
- ② **Force transfer**
 - via hardened steel taper pin
- ③ **Needle wiper**
 - helps wiping the workpiece
- ④ **Stroke adjustment**
 - adjustment of the needle stroke
- ⑤ **Integrated spring**
 - for return
- ⑥ **Blow off air connection**
 - to reject the workpiece with air
- ⑦ **Energy supply**
 - possible from several sides (size ST40)
- ⑧ **Drive**
 - single-acting pneumatic cylinder with spring return
- ⑨ **Sensing slot**
 - mounting and positioning of magnetic field sensors

► FURTHER INFORMATION IS AVAILABLE ONLINE



► Technical Information

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NEEDLE GRIPPER

INSTALLATION SIZE ST36

1

▶ PRODUCT SPECIFICATIONS



▶ RECOMMENDED ACCESSORIES



Magnetic field sensor
Angled Cable 5 m

MFS103KHC



Magnetic field sensor
Angled Cable 0,3 m -
Connector M8

MFS103SKHC



Straight Fittings - Quick
Connect Style

GVM5



Plug-in connector
customizable Straight -
Connector M8

S8-G-3

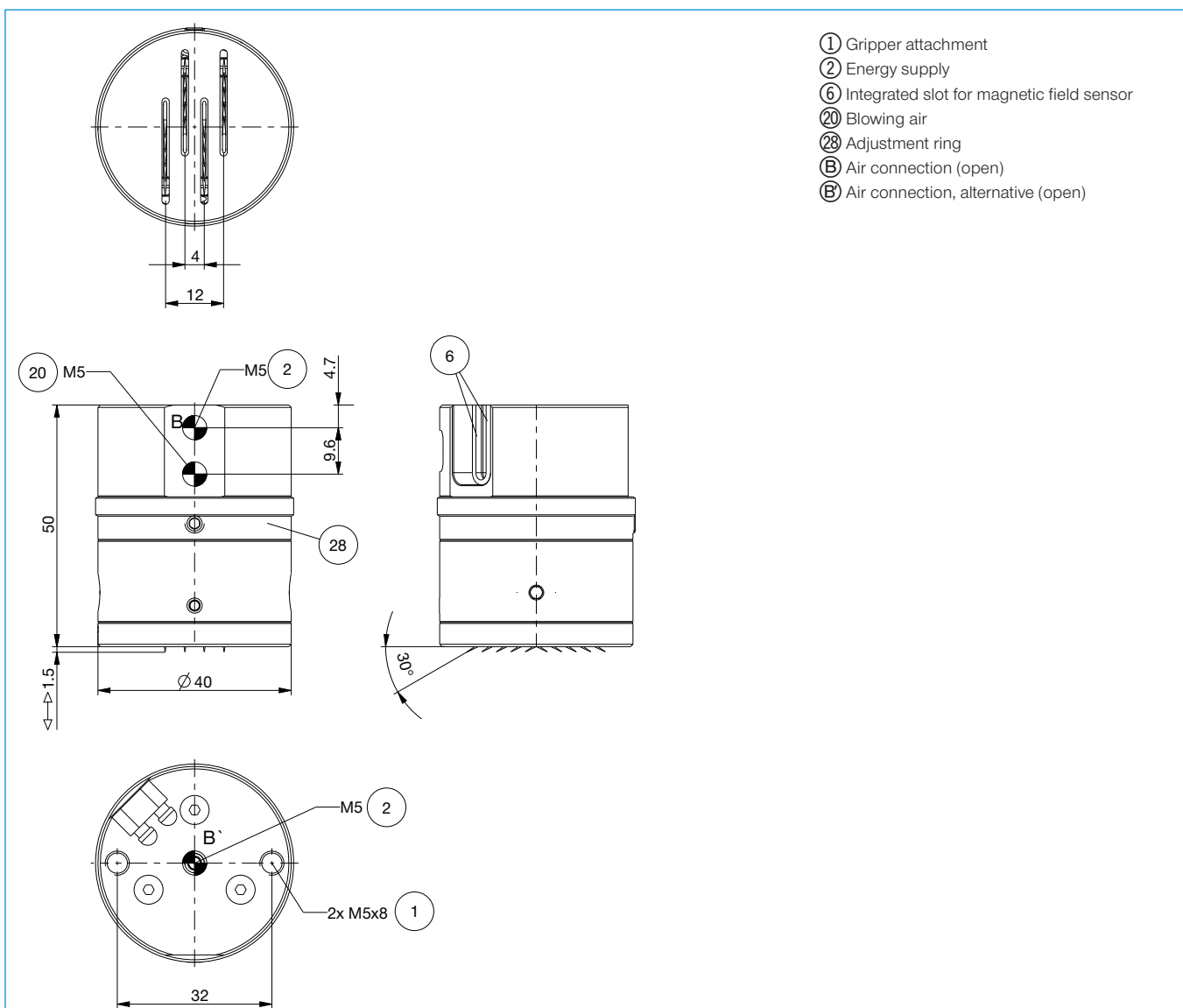


Plug-in connector
customizable Straight -
Connector M12

S12-G-3

Order no.	Technical Data*
Needle stroke adjustable min. [mm]	0
Needle stroke adjustable max. [mm]	1.5
Number of needles [Pice]	20
Needle diameter [mm]	0.7
Retract time / Extend time [s]	0.03
Repetition accuracy +/- [mm]	0.05
Operating pressure min. [bar]	4
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm ³]	1
Weight [kg]	0.21

*All data measured at 6 bar



NEEDLE GRIPPER

INSTALLATION SIZE ST40

1

▶ PRODUCT SPECIFICATIONS



▶ RECOMMENDED ACCESSORIES



Magnetic field sensor
Angled Cable 5 m

MFS103KHC



Magnetic field sensor
Angled Cable 0,3 m -
Connector M8

MFS103SKHC



Straight Fittings - Quick
Connect Style

GVM5



Plug-in connector
customizable Straight -
Connector M8

S8-G-3

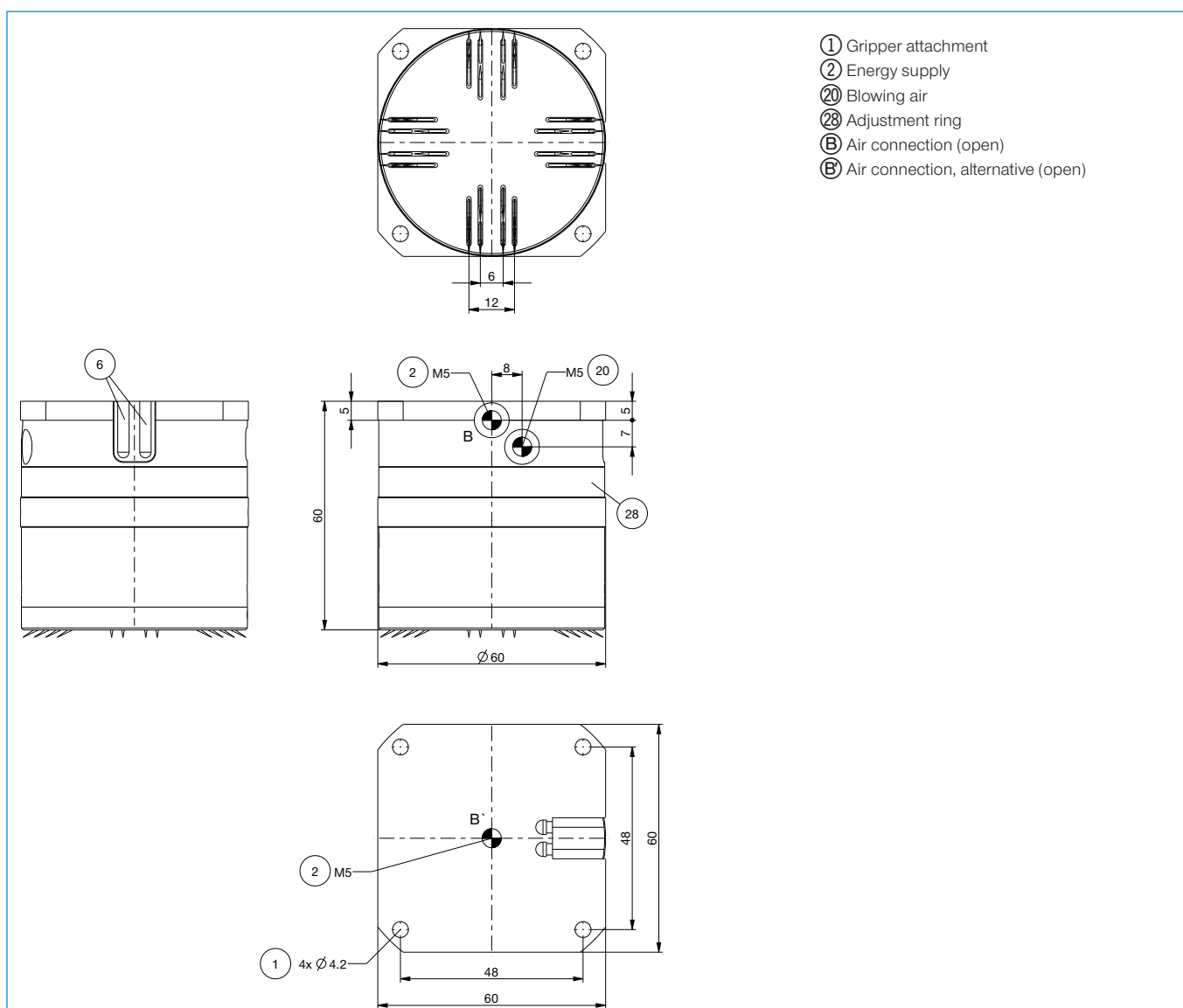


Plug-in connector
customizable Straight -
Connector M12

S12-G-3

Order no.	Technical Data*
Needle stroke adjustable min. [mm]	0
Needle stroke adjustable max. [mm]	2
Number of needles [Pice]	40
Needle diameter [mm]	0.7
Retract time / Extend time [s]	0.03
Repetition accuracy +/- [mm]	0.05
Operating pressure min. [bar]	4
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm ³]	3
Weight [kg]	0.49

*All data measured at 6 bar



NEEDLE GRIPPER SERIES SCH

1

Series SCH / Needle gripper / pneumatic / Grippers

▶ PRODUCT ADVANTAGES



▶ **Smooth stroke configuration**

Adjust the needle stroke individually and smoothly via the direct needle setting

▶ **Flat structure**

Due to its compact design, you save precious space in your machine

▶ **Query about magnetic field sensor technology**

Detecting the end position allows you to have faster cycle times and an integrated control system

▶ THE BEST PRODUCT FOR YOUR APPLICATION



▶ **Our products love the challenge!**

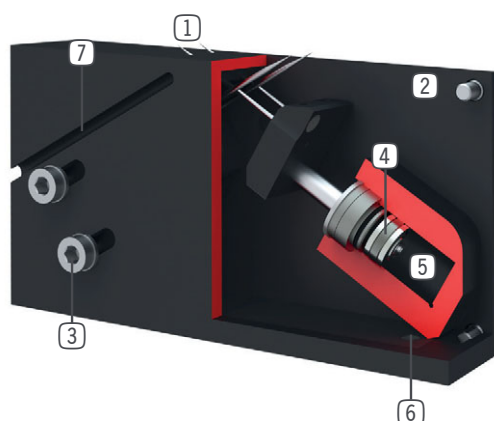
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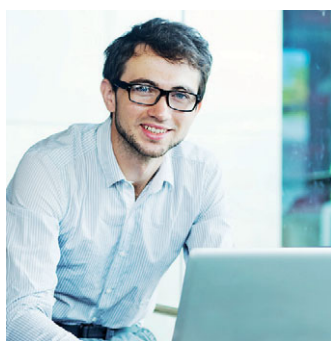


► BENEFITS IN DETAIL



- ① **Extending needles**
 - gripping by penetration
- ② **Robust, lightweight housing**
 - Hard-coated aluminum alloy
- ③ **Stroke adjustment**
 - by shifting in an elongated hole
- ④ **Drive**
 - two double-acting pneumatic cylinders
- ⑤ **Energy supply**
- ⑥ **Mounting and positioning**
- ⑦ **Sensing slot**
 - mounting and positioning of magnetic field sensors

► FURTHER INFORMATION IS AVAILABLE ONLINE



► **Technical Information**

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NEEDLE GRIPPER

INSTALLATION SIZE SCH20

1

Installation size SCH20 / Needle gripper / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS



▶ INCLUDED IN DELIVERY



Spare needle

CNAD00200



Pneumatic face hose

PYA

▶ RECOMMENDED ACCESSORIES



Magnetic field sensor
Straight Cable 5 m

MFS204KHC



Magnetic field sensor
Straight Cable 0,3 m -
Connector M8

MFS204SKHC



Plug-in connector Straight
Cable 5m - Socket M8
(female)

KAG500



Plug-in connector Angled
Cable 5m - Socket M8
(female)

KAW500



Plug-in connector
customizable Straight -
Connector M8

S8-G-3

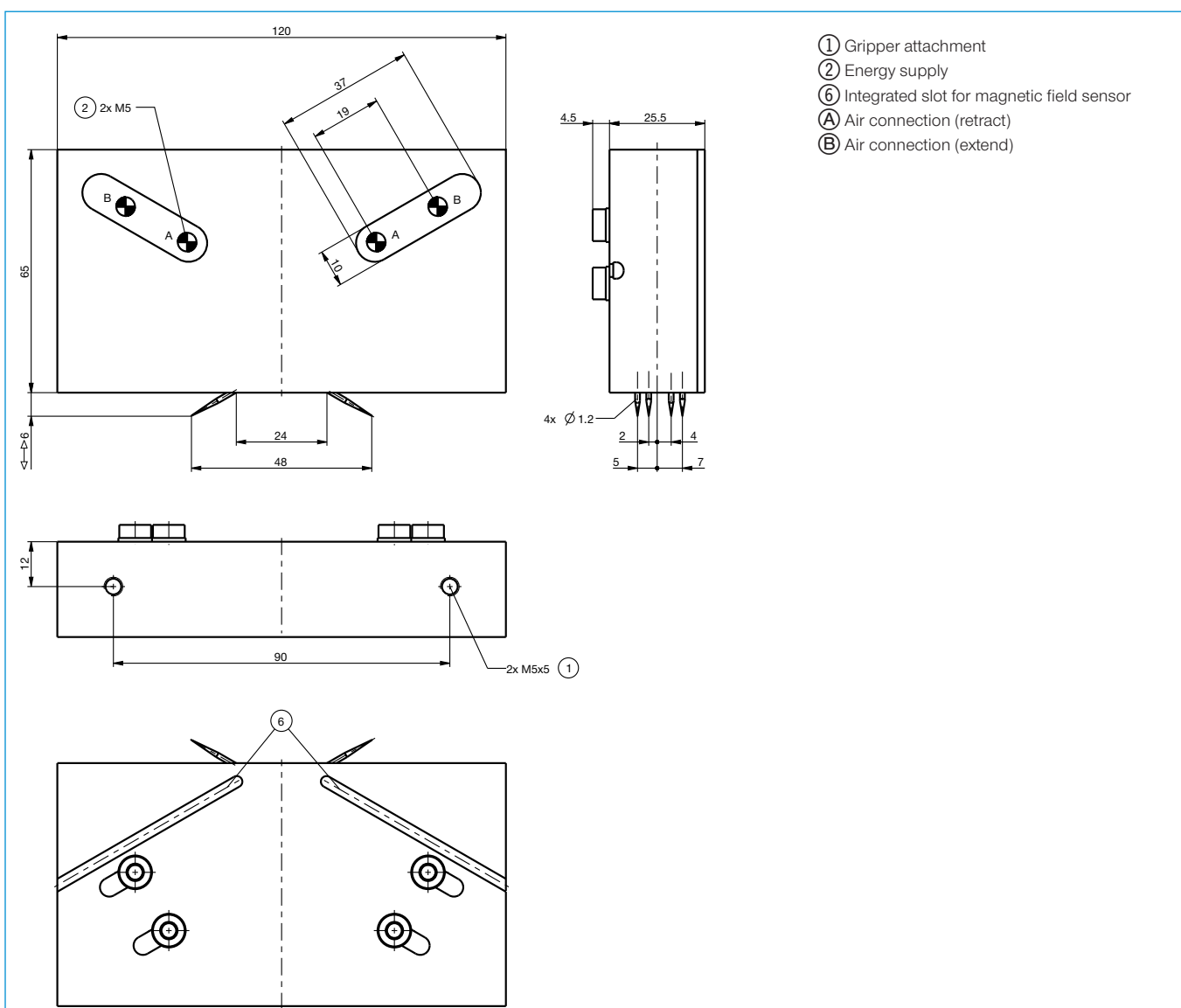


Plug-in connector customiz-
able Straight - Connector M12

S12-G-3

Order no.	Technical Data*
Needle stroke adjustable min. [mm]	0
Needle stroke adjustable max. [mm]	6
Number of needles [Pice]	4
Needle diameter [mm]	1.2
Retract time / Extend time [s]	0.02
Repetition accuracy +/- [mm]	0.05
Operating pressure min. [bar]	4
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm ³]	5
Weight [kg]	0.35

*All data measured at 6 bar



NEEDLE GRIPPER

INSTALLATION SIZE SCH23

1

Installation size SCH23 / Needle gripper / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS



▶ INCLUDED IN DELIVERY



Spare needle

CNAD00230



Pneumatic face hose

PYA

▶ RECOMMENDED ACCESSORIES



Magnetic field sensor
Straight Cable 5 m

MFS204KHC



Magnetic field sensor
Straight Cable 0,3 m -
Connector M8

MFS204SKHC



Plug-in connector Straight
Cable 5m - Socket M8
(female)

KAG500



Plug-in connector Angled
Cable 5m - Socket M8
(female)

KAW500



Plug-in connector
customizable Straight -
Connector M8

S8-G-3

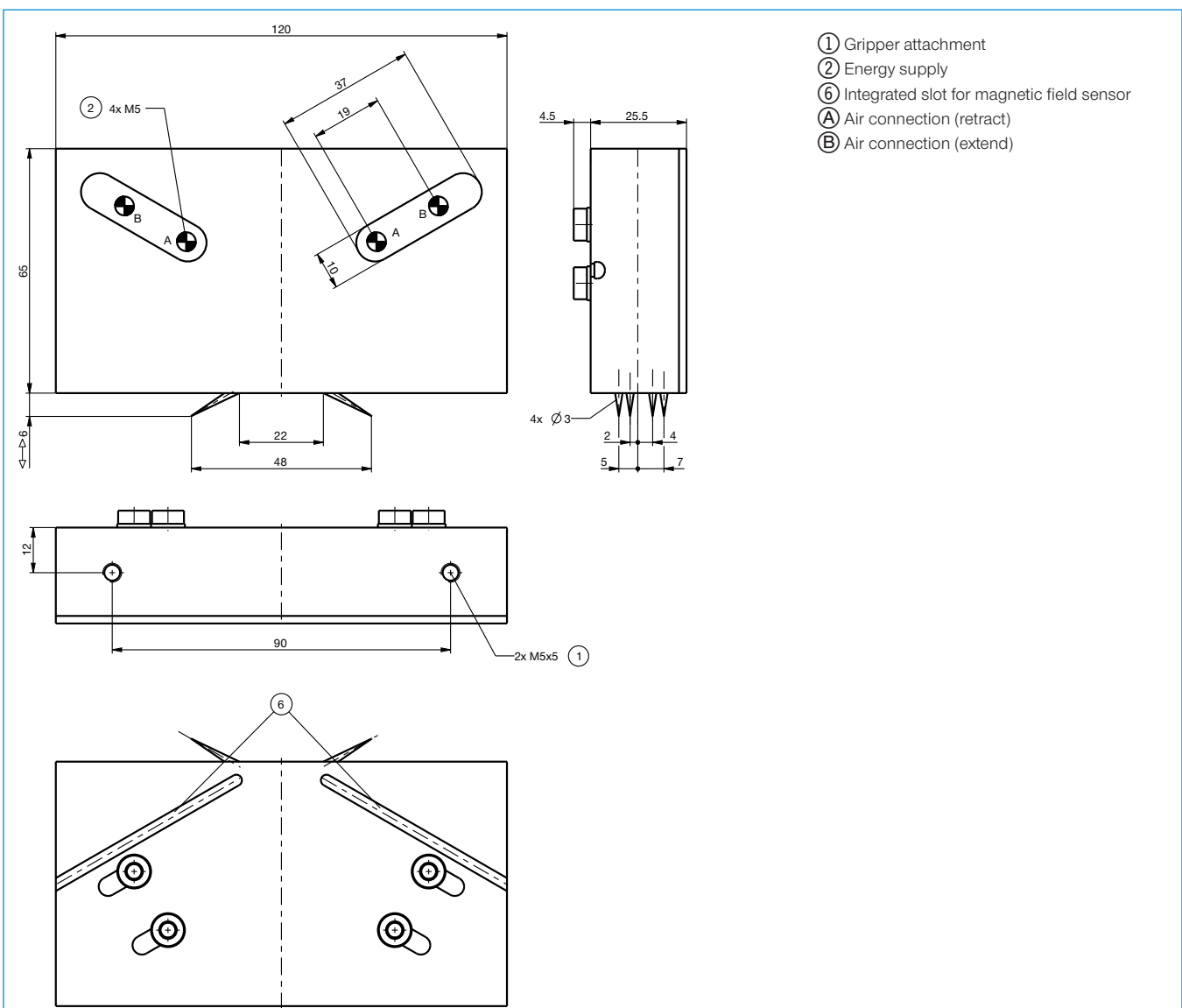


Plug-in connector customiz-
able Straight - Connector M12

S12-G-3

Order no.	Technical Data*
Needle stroke adjustable min. [mm]	0
Needle stroke adjustable max. [mm]	6
Number of needles [Pice]	4
Needle diameter [mm]	3
Retract time / Extend time [s]	0.2
Repetition accuracy +/- [mm]	0.05
Operating pressure min. [bar]	4
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm ³]	5
Weight [kg]	0.37

*All data measured at 6 bar



O-RING ASSEMBLY GRIPPER, OUTER SERIES GS

1

Series GS / O-ring assembly gripper, outer / pneumatic / Grippers

▶ PRODUCT ADVANTAGES



▶ Proven technology

We have more than 20 years of proven reliability, which ensures uninterrupted production for you

▶ Adjustable expanding stroke

Prevents the O-ring from overexpanding and ensures consistent production quality

▶ Query about magnetic field sensor technology

Detecting the end position allows you to have shorter cycle times and an integrated control system

▶ THE BEST PRODUCT FOR YOUR APPLICATION



▶ Our products love the challenge!

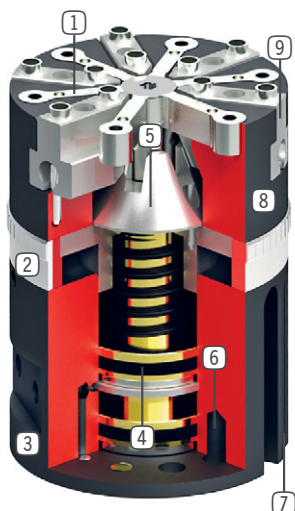
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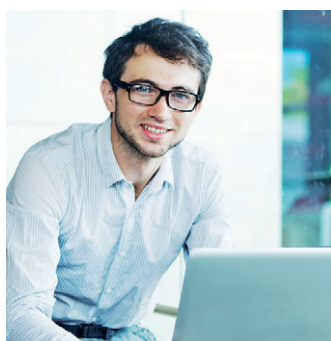


► BENEFITS IN DETAIL



- ① **Ejector jaw**
 - to shift off the O-ring
- ② **Stroke adjustment**
 - for adjustment of the spread stroke
- ③ **Energy supply**
 - possible from several sides
- ④ **Drive**
 - two single-acting pneumatic cylinders
- ⑤ **Force transfer**
 - direct via taper
- ⑥ **Mounting and positioning**
 - axial, on the gripper bottom
- ⑦ **Sensing slot**
 - mounting and positioning of magnetic field sensors
- ⑧ **Robust, lightweight housing**
 - Hard-coated aluminum alloy
- ⑨ **Gripper jaw**
 - individual gripper finger mounting

► FURTHER INFORMATION IS AVAILABLE ONLINE



► **Technical Information**

All information just a click away at: www.zimmer-group.com

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O-RING ASSEMBLY GRIPPER, OUTER INSTALLATION SIZE GS65

1

Installation size GS65 / O-ring assembly gripper, outer / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS



▶ INCLUDED IN DELIVERY



Centering Disc

DST06510

▶ RECOMMENDED ACCESSORIES



Ejector Jaws Aluminium

UB65-3



Expanding Jaws Steel

UB65-4



Mounting block

KB6.5-02



Inductive proximity switch
- Cable 5 m

NJ6.5-E2-01



Inductive proximity switch
- Connector M8

NJ6.5-E2S



Magnetic field sensor
Angled Cable 5 m

MFS103KHC



Magnetic field sensor Angled
Cable 0,3 m - Connector M8

MFS103SKHC



Plug-in connector Straight Ca-
ble 5m - Socket M8 (female)

KAG500



Plug-in connector Angled Ca-
ble 5m - Socket M8 (female)

KAW500

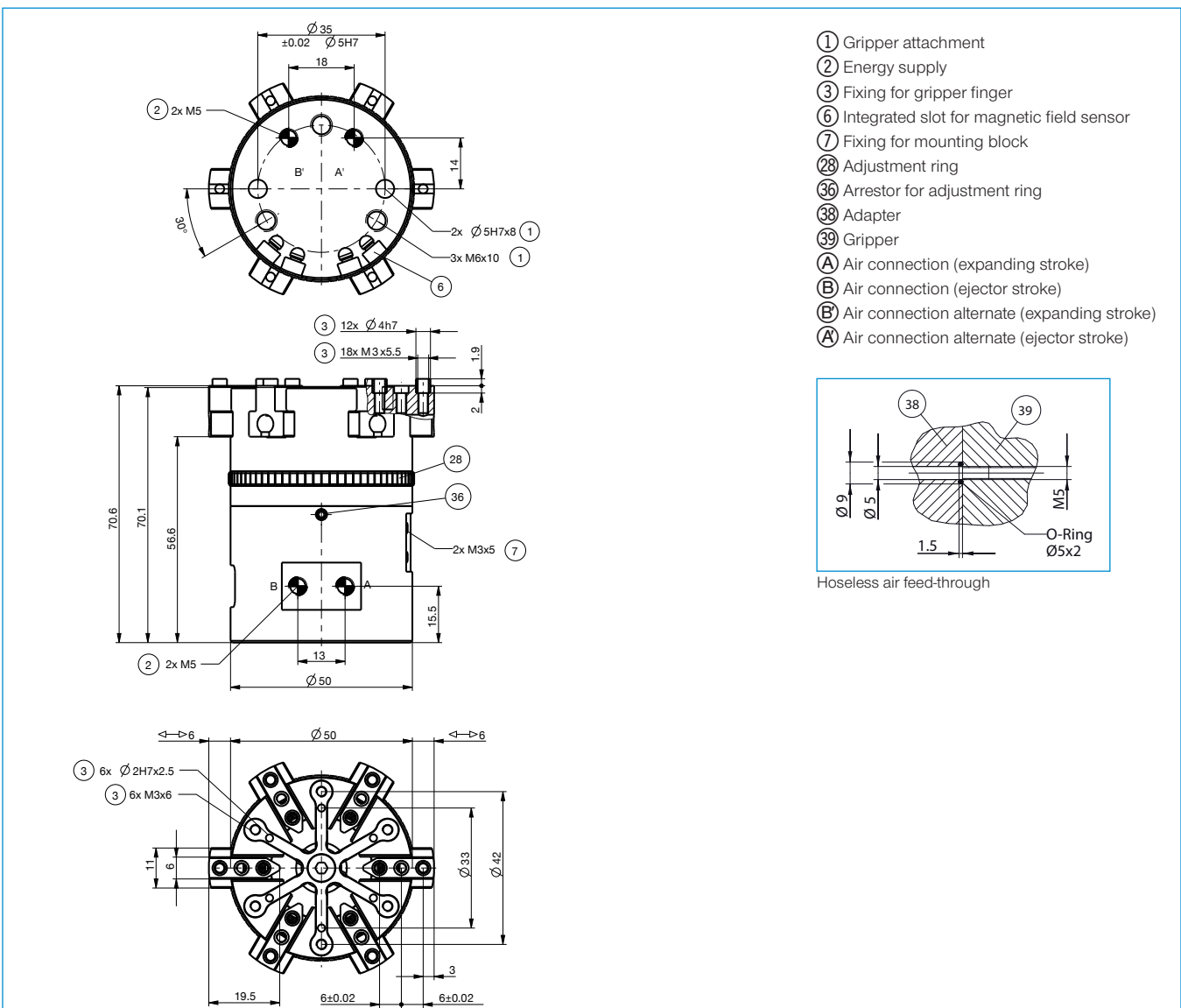


Straight Fittings - Quick
Connect Style

GVM5

Order no.	▶ Technical Data*
Opening stroke adjustable per jaw min. [mm]	3
Opening stroke adjustable per jaw max. [mm]	6
Stripping stroke [mm]	5
Opening force [N]	300
Recommended O-ring diameter min. [mm]	4
Recommended O-ring diameter max. [mm]	60
Number of gripping jaws [Quantity]	6
Closing time [s]	0.05
Opening time [s]	0.05
Repetition accuracy +/- [mm]	0.05
Operating pressure min. [bar]	4
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Weight [kg]	0.5

*All data measured at 6 bar



O-RING ASSEMBLY GRIPPER, OUTER

INSTALLATION SIZE GS810

1

Installation size GS810 / O-ring assembly gripper, outer / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS



▶ INCLUDED IN DELIVERY



Centering Disc

DST40600

▶ RECOMMENDED ACCESSORIES



Ejector Jaws Aluminium

UB810-3



Expanding Jaws Steel

UB810-4



Mounting block

KB6.5-02



Inductive proximity switch
- Cable 5 m

NJ8-E2



Inductive proximity switch
- Connector M8

NJ8-E2S



Magnetic field sensor
Angled Cable 5 m

MFS103KHC



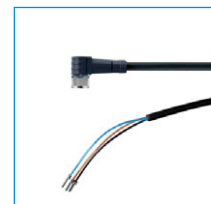
Magnetic field sensor Angled
Cable 0,3 m - Connector M8

MFS103SKHC



Plug-in connector Straight Ca-
ble 5m - Socket M8 (female)

KAG500



Plug-in connector Angled Ca-
ble 5m - Socket M8 (female)

KAW500

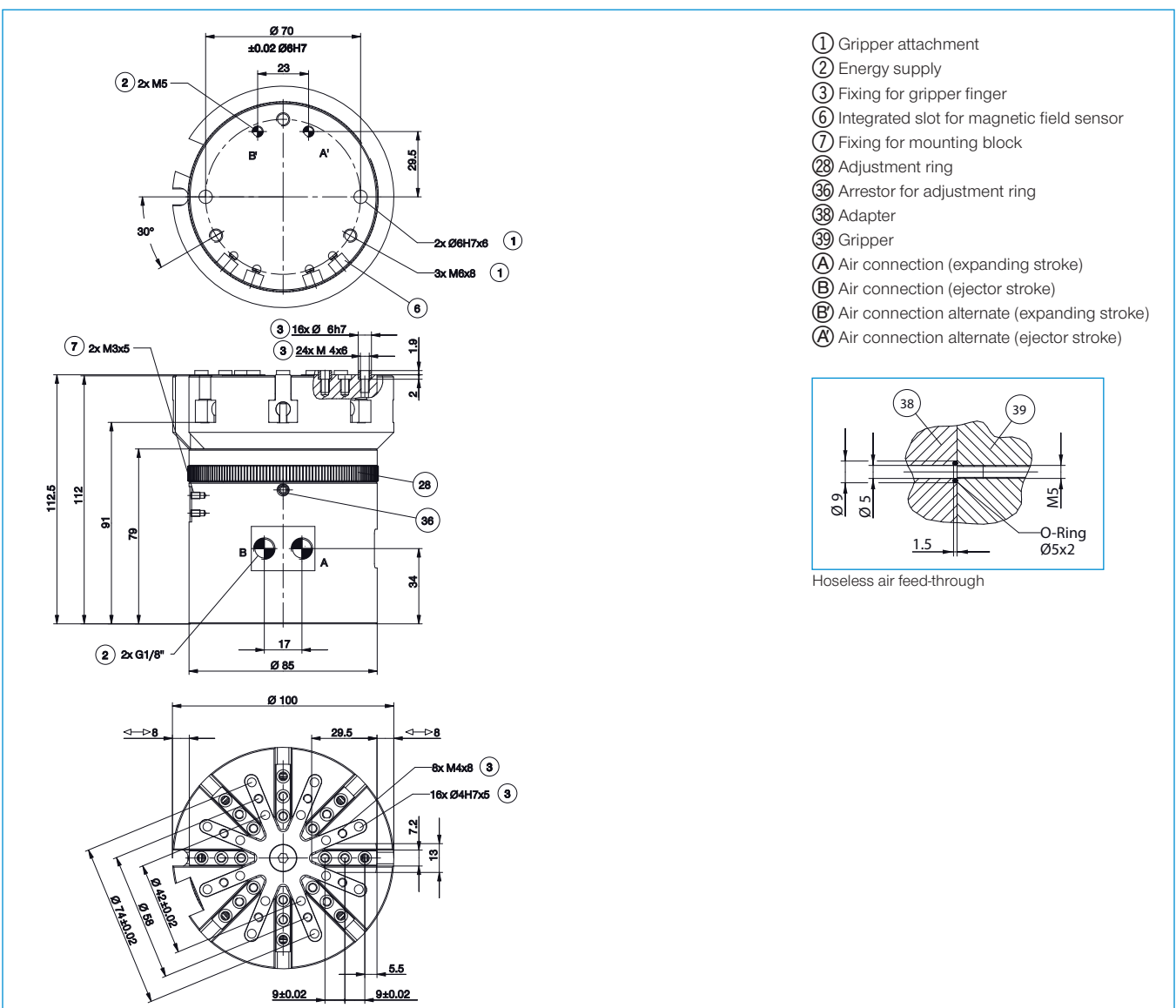


Straight Fittings - Quick
Connect Style

GV1-8X6

Order no.	GS810-B
Opening stroke adjustable per jaw min. [mm]	4
Opening stroke adjustable per jaw max. [mm]	8
Stripping stroke [mm]	10
Opening force [N]	1200
Recommended O-ring diameter min. [mm]	30
Recommended O-ring diameter max. [mm]	120
Number of gripping jaws [Quantity]	8
Closing time [s]	0.05
Opening time [s]	0.05
Repetition accuracy +/- [mm]	0.05
Operating pressure min. [bar]	3
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Weight [kg]	2.5

*All data measured at 6 bar



O-RING ASSEMBLY GRIPPER, OUTER

INSTALLATION SIZE GS1015

1

Installation size GS1015 / O-ring assembly gripper, outer / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS



▶ INCLUDED IN DELIVERY



Mounting block

KB8K



Centering Disc

DST60800

▶ RECOMMENDED ACCESSORIES



Ejector Jaws Aluminium

UB1015-3



Expanding Jaws Steel

UB1015-4



Inductive proximity switch
- Cable 5 m

NJ8-E2



Inductive proximity switch
- Connector M8

NJ8-E2S



Magnetic field sensor
Angled Cable 5 m

MFS103KHC



Magnetic field sensor Angled
Cable 0,3 m - Connector M8

MFS103SKHC



Plug-in connector Straight Ca-
ble 5m - Socket M8 (female)

KAG500



Plug-in connector Angled Ca-
ble 5m - Socket M8 (female)

KAW500



Straight Fittings - Quick
Connect Style

GV1-8X8

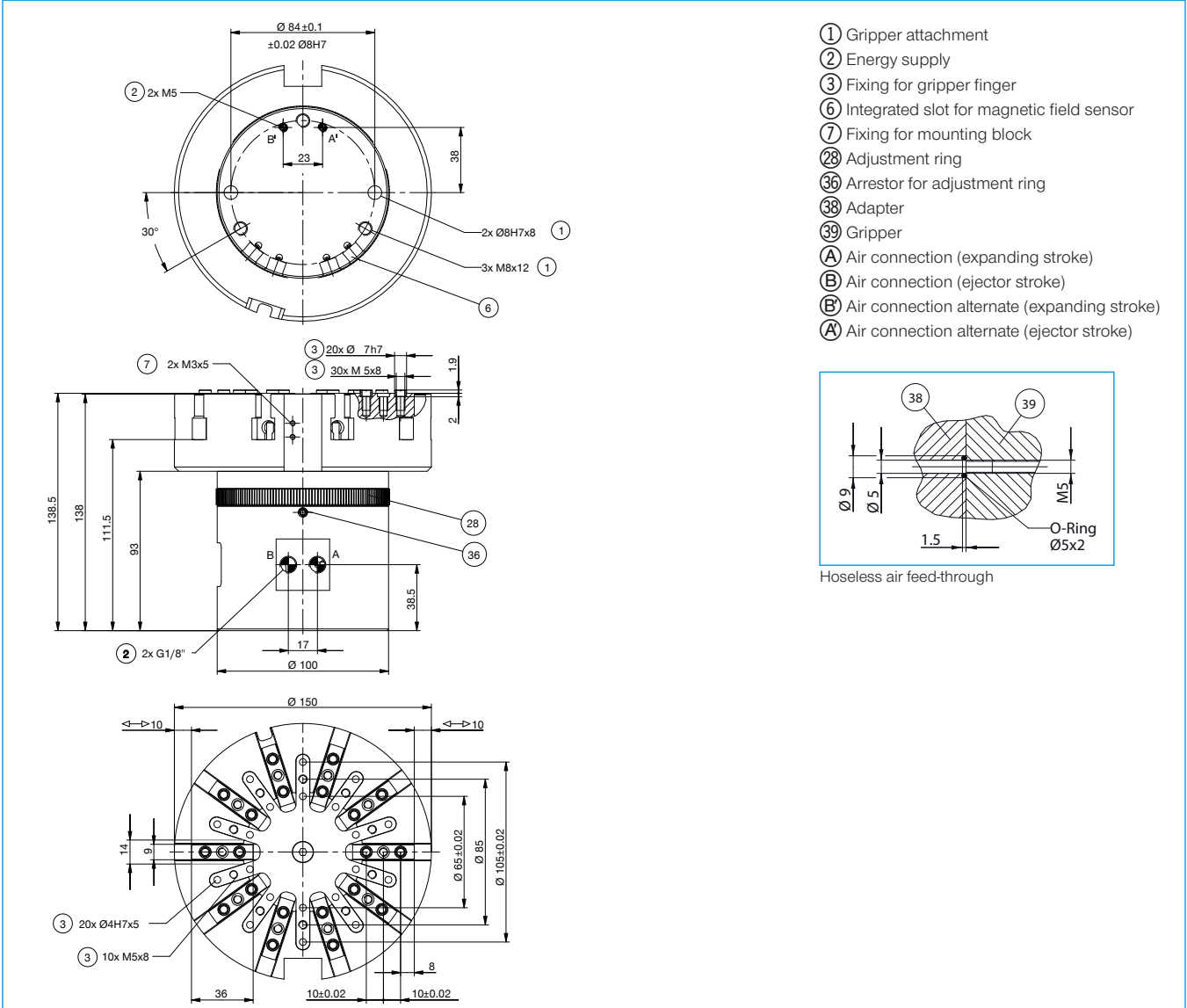


Plug-in connector customiz-
able Straight - Connector M8

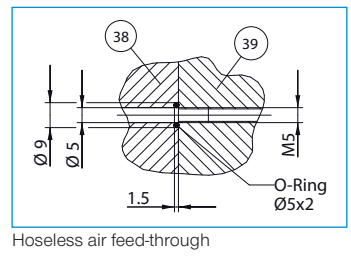
S8-G-3

► Technical Data*	
Order no.	GS1015-B
Opening stroke adjustable per jaw min. [mm]	1.6
Opening stroke adjustable per jaw max. [mm]	10
Stripping stroke [mm]	15
Opening force [N]	1450
Recommended O-ring diameter min. [mm]	40
Recommended O-ring diameter max. [mm]	150
Number of gripping jaws [Quantity]	10
Closing time [s]	0.05
Opening time [s]	0.05
Repetition accuracy +/- [mm]	0.05
Operating pressure min. [bar]	3
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Weight [kg]	5.4

*All data measured at 6 bar



- ① Gripper attachment
- ② Energy supply
- ③ Fixing for gripper finger
- ⑥ Integrated slot for magnetic field sensor
- ⑦ Fixing for mounting block
- ⑧ Adjustment ring
- ⑩ Arrestor for adjustment ring
- ⑪ Adapter
- ⑫ Gripper
- A Air connection (expanding stroke)
- B Air connection (ejector stroke)
- B' Air connection alternate (expanding stroke)
- A' Air connection alternate (ejector stroke)



O-RING ASSEMBLY GRIPPER, INNER SERIES GSI

1

Series GSI / O-ring assembly gripper, inner / pneumatic / Grippers

▶ PRODUCT ADVANTAGES



▶ **Concentration on the essentials**

Only pay for what you need - individual standard gripper specific to O-ring inside assembly

▶ **Adjustable expanding stroke**

Prevents the O-ring from overexpanding and ensures consistent production quality

▶ **Query about magnetic field sensor technology**

Detecting the end position allows you to have shorter cycle times and an integrated control system

▶ THE BEST PRODUCT FOR YOUR APPLICATION



▶ **Our products love the challenge!**

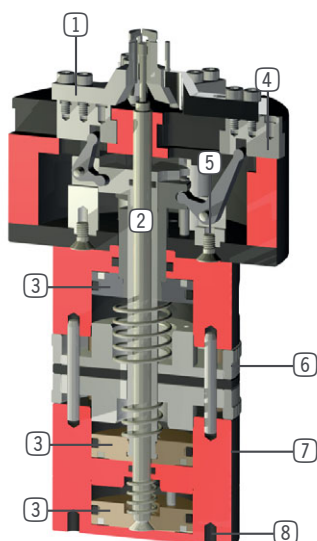
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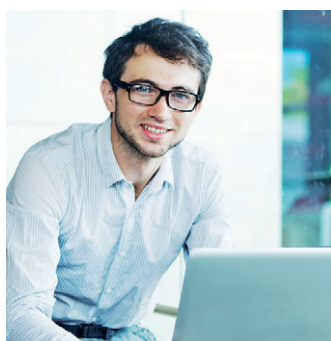


► BENEFITS IN DETAIL



- ① **Spread jaws**
 - to position the O-ring in the groove of the workpiece
- ② **Ejector (piston rod)**
 - to remove the O-ring
- ③ **Driven by three single-acting pneumatic cylinders**
 - drive for grabber jaws
 - drive for spread jaws
 - drive for ejector
- ④ **Grabber jaw**
 - to grab the O-ring
- ⑤ **Force transfer**
 - via lever and connecting rod
- ⑥ **Stroke adjustment on grabber jaws**
 - prevents overstretching of O-ring during assembly
- ⑦ **Stroke on spread jaws**
 - adjustable to fit bore diameter of workpiece
- ⑧ **Mounting and positioning**
 - axial, on the gripper bottom

► FURTHER INFORMATION IS AVAILABLE ONLINE



► Technical Information

All information just a click away at: www.zimmer-group.com

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O-RING ASSEMBLY GRIPPER, INNER

INSTALLATION SIZE GSI206

1

Installation size GSI206 / O-ring assembly gripper, inner / pneumatic / Grippers

▶ PRODUCT SPECIFICATIONS



▶ INCLUDED IN DELIVERY



Centering Disc

DST06510

▶ RECOMMENDED ACCESSORIES



Magnetic field sensor
Angled Cable 5 m

MFS103KHC



Magnetic field sensor
Angled Cable 0,3 m -
Connector M8

MFS103SKHC



Plug-in connector Straight
Cable 5m - Socket M8
(female)

KAG500



Plug-in connector Angled
Cable 5m - Socket M8
(female)

KAW500



Straight Fittings - Quick
Connect Style

GVM5



Plug-in connector customiz-
able Straight - Connector M8

S8-G-3

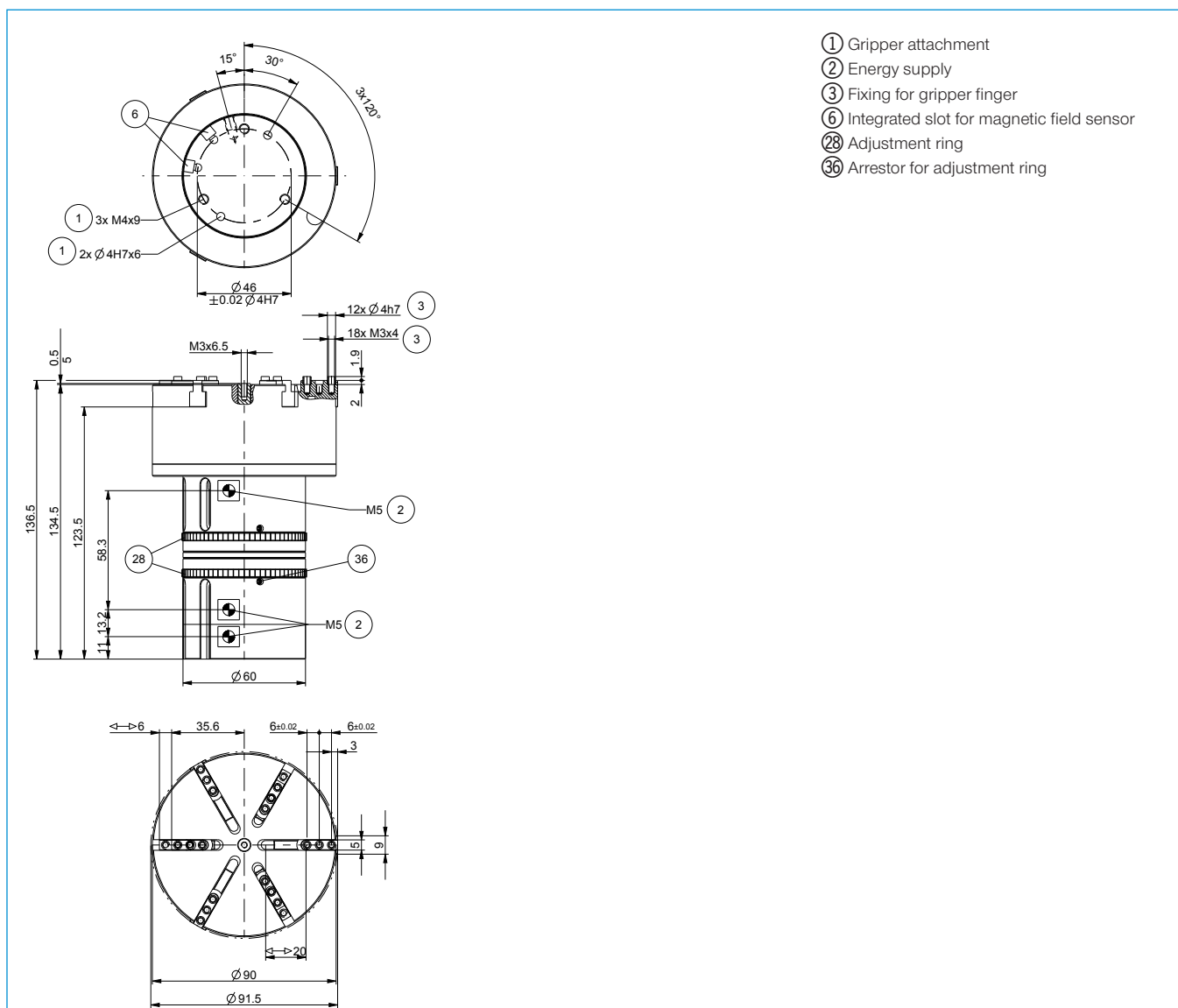


Plug-in connector customiz-
able Straight - Connector M12

S12-G-3

Order no.	Technical Data*
Stroke adjustable per jaw min. [mm]	6
Stroke adjustable per jaw max. [mm]	20
Opening stroke adjustable per jaw min. [mm]	1
Opening stroke adjustable per jaw max. [mm]	6
Stripping stroke [mm]	5
Opening force [N]	240
Possible O-ring diameter at cord size 1 [mm]	11-45
Possible O-ring diameter at cord size 2 [mm]	20-130
Possible O-ring diameter at cord size 3 [mm]	32-130
Possible O-ring diameter at cord size 4 [mm]	42-100
Number of gripping jaws [Quantity]	6
Operating pressure min. [bar]	3
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Weight [kg]	1.1

*All data measured at 6 bar



MAGNETIC GRIPPER

SERIES HM1000

1

Series HM1000 / Magnetic gripper / pneumatic / Grippers

▶ PRODUCT ADVANTAGES



▶ **Secure hold during EMERGENCY STOP**

Magnets attached to springs ensure your workpiece remains secure, even during a drop in pressure

▶ **Contact plate that increases friction value**

The replaceable O-ring ensures the high dynamics in your application and protection of your workpiece

▶ **Residual holding force < 1N**

The demagnetised contact surface safeguards the process reliability of dropping off your workpiece

▶ THE BEST PRODUCT FOR YOUR APPLICATION



▶ **Our products love the challenge!**

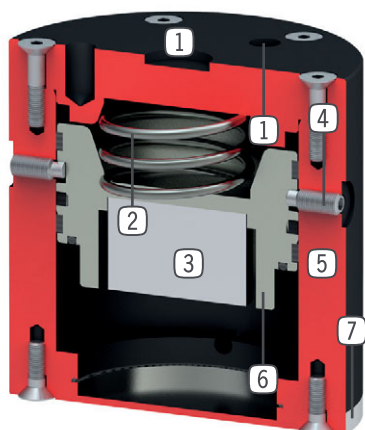
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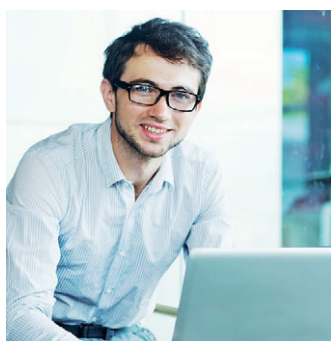


► BENEFITS IN DETAIL



- ① **Mounting and positioning**
 - via centering sleeve and thread
- ② **Spring**
 - for piston return
 - secured holding even in drop pressure
- ③ **Permanent magnet**
 - requires no power supply
 - high holding forces
- ④ **Transport safeguarding**
- ⑤ **Robust, lightweight housing**
 - Hard-coated aluminum alloy
- ⑥ **single-acting pneumatic cylinders**
 - only one pneumatic line required
 - Spring return
- ⑦ **Contact plate**
 - easy replaceable
 - embedded O-ring to increase the friction coefficient

► FURTHER INFORMATION IS AVAILABLE ONLINE



► Technical Information

All information just a click away at: www.zimmer-group.com

Find data, illustrations, 3D models and operating instructions for your installation size using the order number for your desired product.

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MAGNETIC GRIPPER

INSTALLATION SIZE HM1030

1

▶ PRODUCT SPECIFICATIONS



▶ INCLUDED IN DELIVERY



Locking nut

C043910002

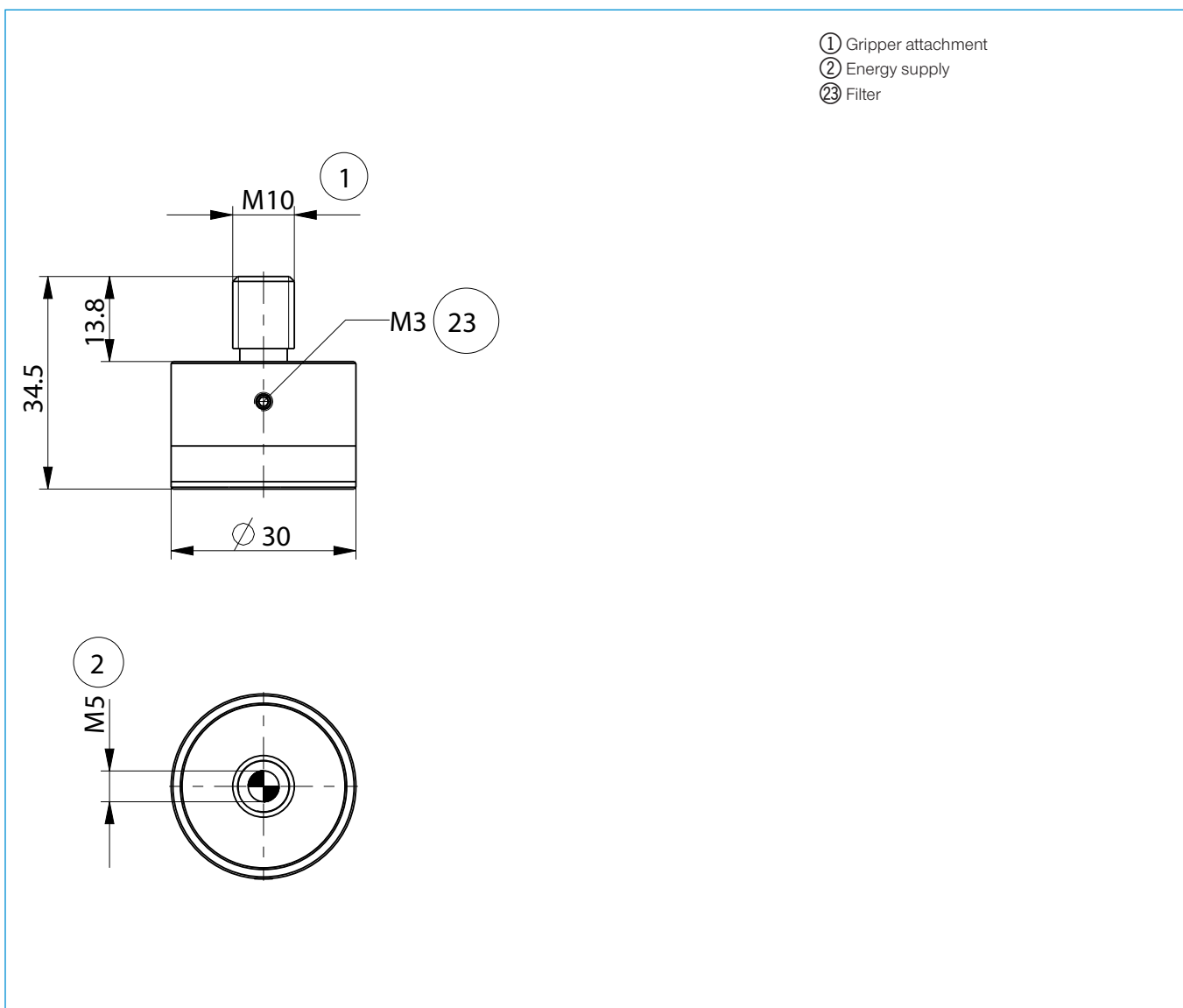
▶ RECOMMENDED ACCESSORIES



Straight Fittings - Quick
Connect Style

GVM5

Order no.	Technical Data
Max. adhesive force [N]	27
Operating pressure min. [bar]	3
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm ³]	3.5
Weight [kg]	0.06



MAGNETIC GRIPPER

INSTALLATION SIZE HM1046

1

▶ PRODUCT SPECIFICATIONS



▶ RECOMMENDED ACCESSORIES



Centering Disc

ZE10H7X6



Ball Joints

KG40



Ball Joints Steel

KG40ST

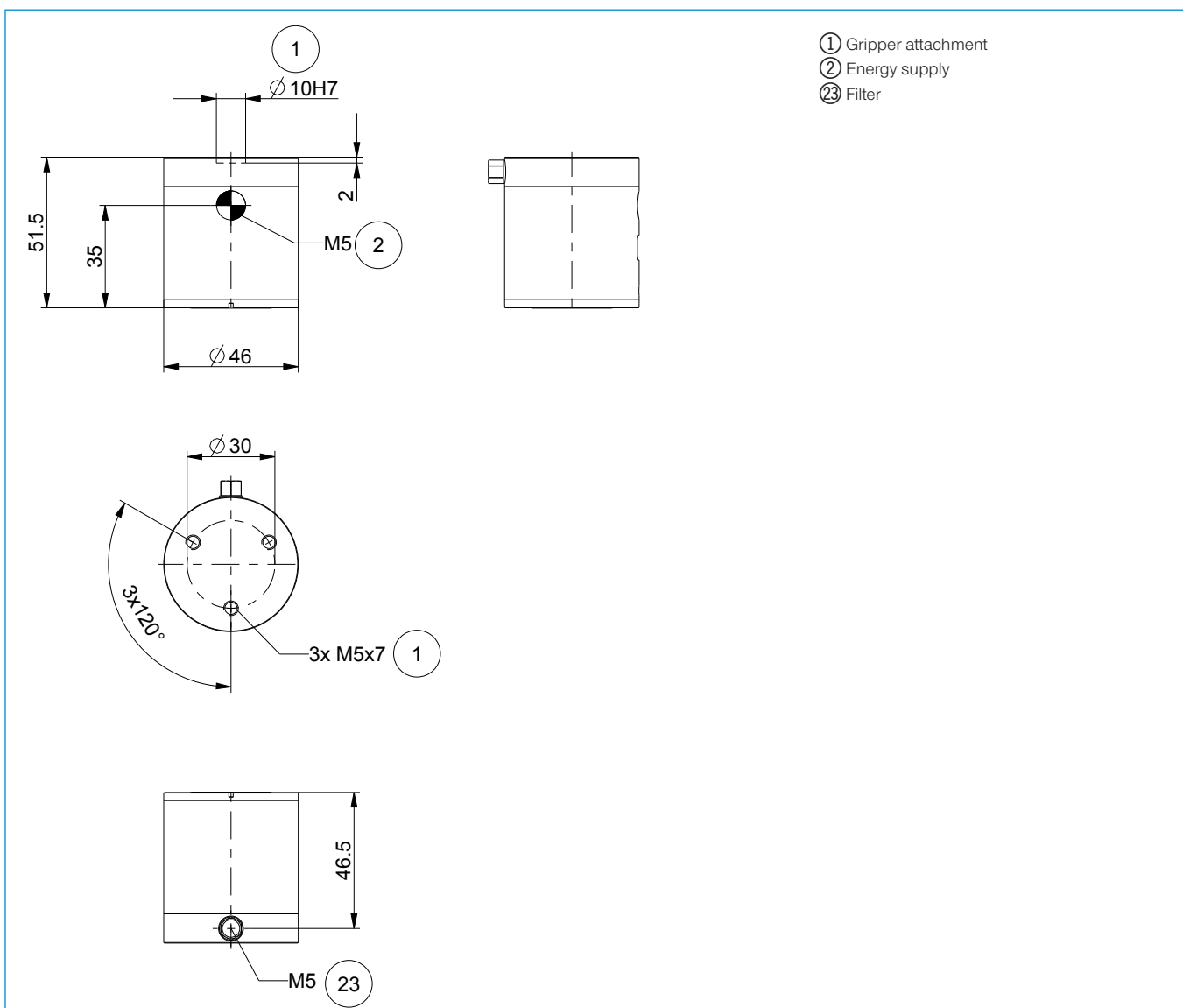


Straight Fittings - Quick Connect Style

GVM5

Installation size HM1046 / Magnetic gripper / pneumatic / Grippers

Order no.	Technical Data
Max. adhesive force [N]	65
Operating pressure min. [bar]	3
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm ³]	9
Weight [kg]	0.28



MAGNETIC GRIPPER

INSTALLATION SIZE HM1078

1

▶ PRODUCT SPECIFICATIONS



▶ INCLUDED IN DELIVERY



Set Screw

C091505129



Dummy plug

CPNEU00536

▶ RECOMMENDED ACCESSORIES



Centering Disc

ZE15H7X4



Ball Joints

KG60



Ball Joints Steel

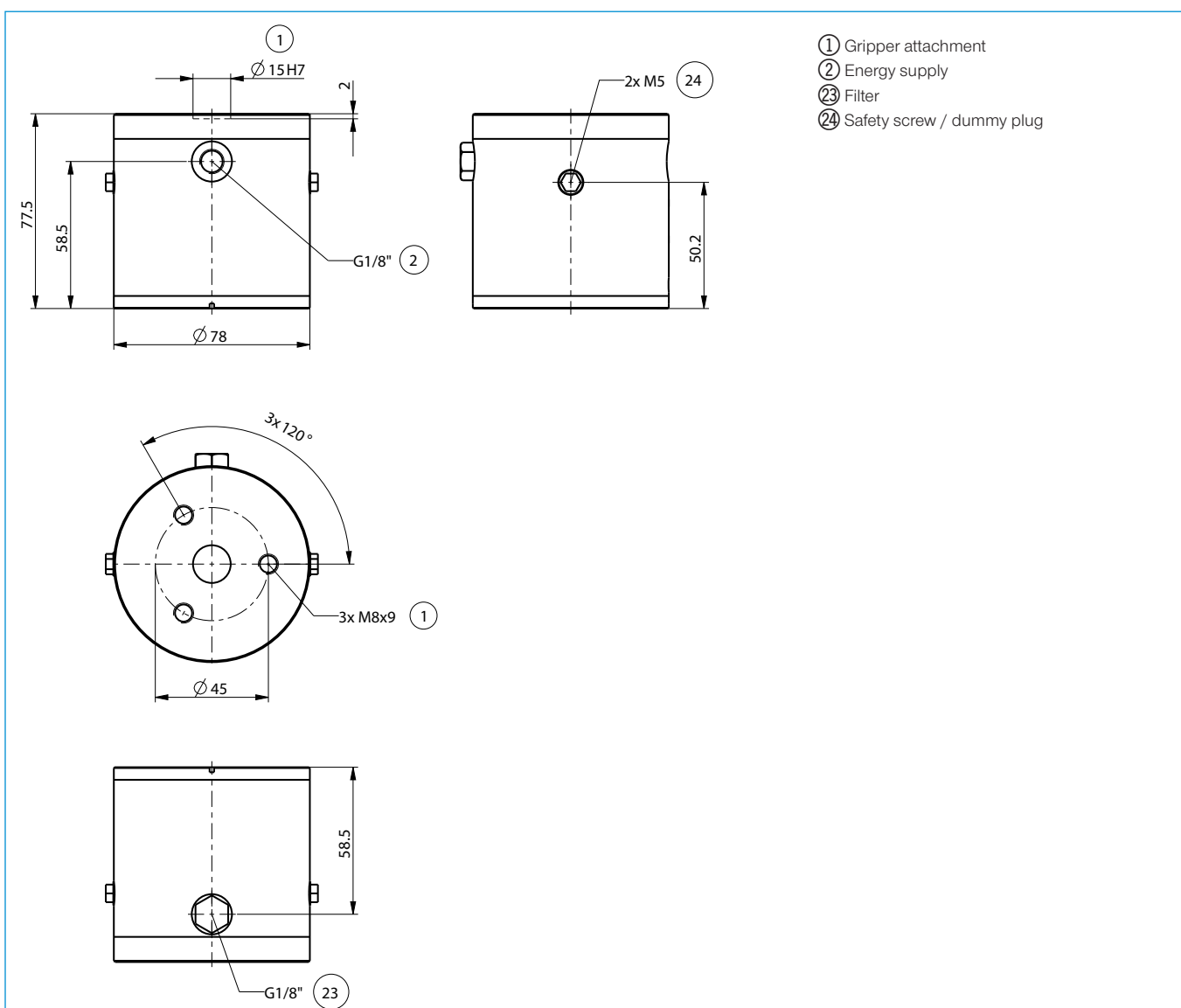
KG60ST



Straight Fittings - Quick Connect Style

GV1-8X6

Order no.	Technical Data
	HM1078NC
Max. adhesive force [N]	220
Operating pressure min. [bar]	3
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm ³]	75
Weight [kg]	1.2



MAGNETIC GRIPPER

INSTALLATION SIZE HM1097

1

▶ PRODUCT SPECIFICATIONS



▶ INCLUDED IN DELIVERY



Set Screw

C091505129



Dummy plug

CPNEU00536

▶ RECOMMENDED ACCESSORIES



Centering Disc

ZE20H7X4



Ball Joints

KG80



Ball Joints Steel

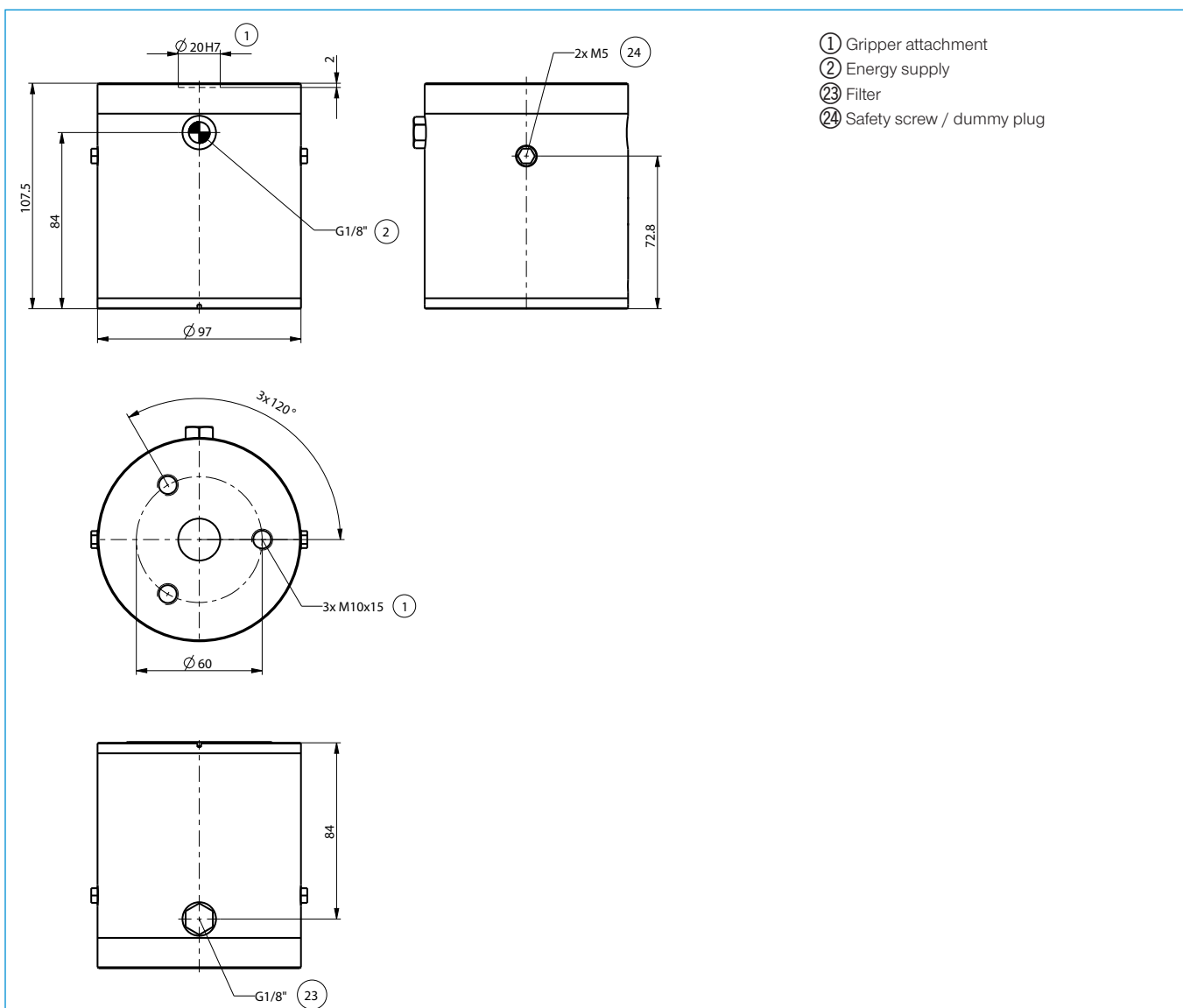
KG80ST



Straight Fittings - Quick Connect Style

GV1-8X6

Order no.	Technical Data
	HM1097NC
Max. adhesive force [N]	450
Operating pressure min. [bar]	3
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm ³]	250
Weight [kg]	2.2



GRIPPERS FOR SPECIFIC TASKS

OVERVIEW OF SERIES



▶ ELECTRICAL

	Series GEN9100	516
	Series HEM1000	520

NEEDLE GRIPPER SERIES GEN9100

1

Series GEN9100 / Needle gripper / electric / Grippers

▶ PRODUCT ADVANTAGES



▶ **Plug and play**

Reduce programming and assembly costs to a minimum with the integrated control system and the 2 position query

▶ **Saving energy with pulse control**

You only have to supply current briefly when retracting and extending the needle; no energy is required when transporting the workpiece

▶ **Smooth stroke configuration**

The needle stroke is displayed via a scale. You can smoothly adjust the needle stroke to fit your application

▶ THE BEST PRODUCT FOR YOUR APPLICATION



▶ **Our products love the challenge!**

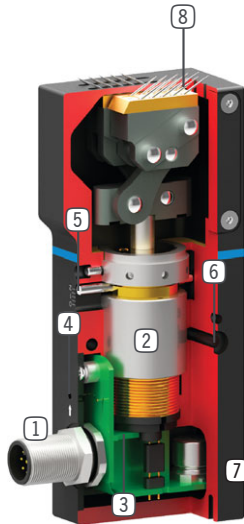
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► BENEFITS IN DETAIL



- ① **Energy supply**
 - standardized interface M12 round connector
- ② **Drive**
 - via Pot magnet and coil bobbin according to the coil system principle
 - energy consumption only at impulse <25 ms
- ③ **Position sensing**
 - integrated Hallsensor
 - 2 positions monitorable
- ④ **Status control**
 - optical LED position display
 - Needles retracted, needles extended
- ⑤ **Stroke adjustment**
 - infinitely variable
 - Can be read off the scale
- ⑥ **Mounting and positioning**
 - mounting possible from several sides for versatile positioning
- ⑦ **Robust, lightweight housing**
 - Hard-coated aluminum alloy
- ⑧ **Extending needles**
 - gripping by penetration

► FURTHER INFORMATION IS AVAILABLE ONLINE



► Technical Information

All information just a click away at: www.zimmer-group.com

Find data, illustrations, 3D models and operating instructions for your installation size using the order number for your desired product.

Quick, clear and always up-to-date.



NEEDLE GRIPPER

INSTALLATION SIZE GEN9102

1

Installation size GEN9102 / Needle gripper / electric / Grippers

▶ PRODUCT SPECIFICATIONS



▶ RECOMMENDED ACCESSORIES



Plug-in Connector
Straight Cable 10 m -
Female M12
KAG1000B8



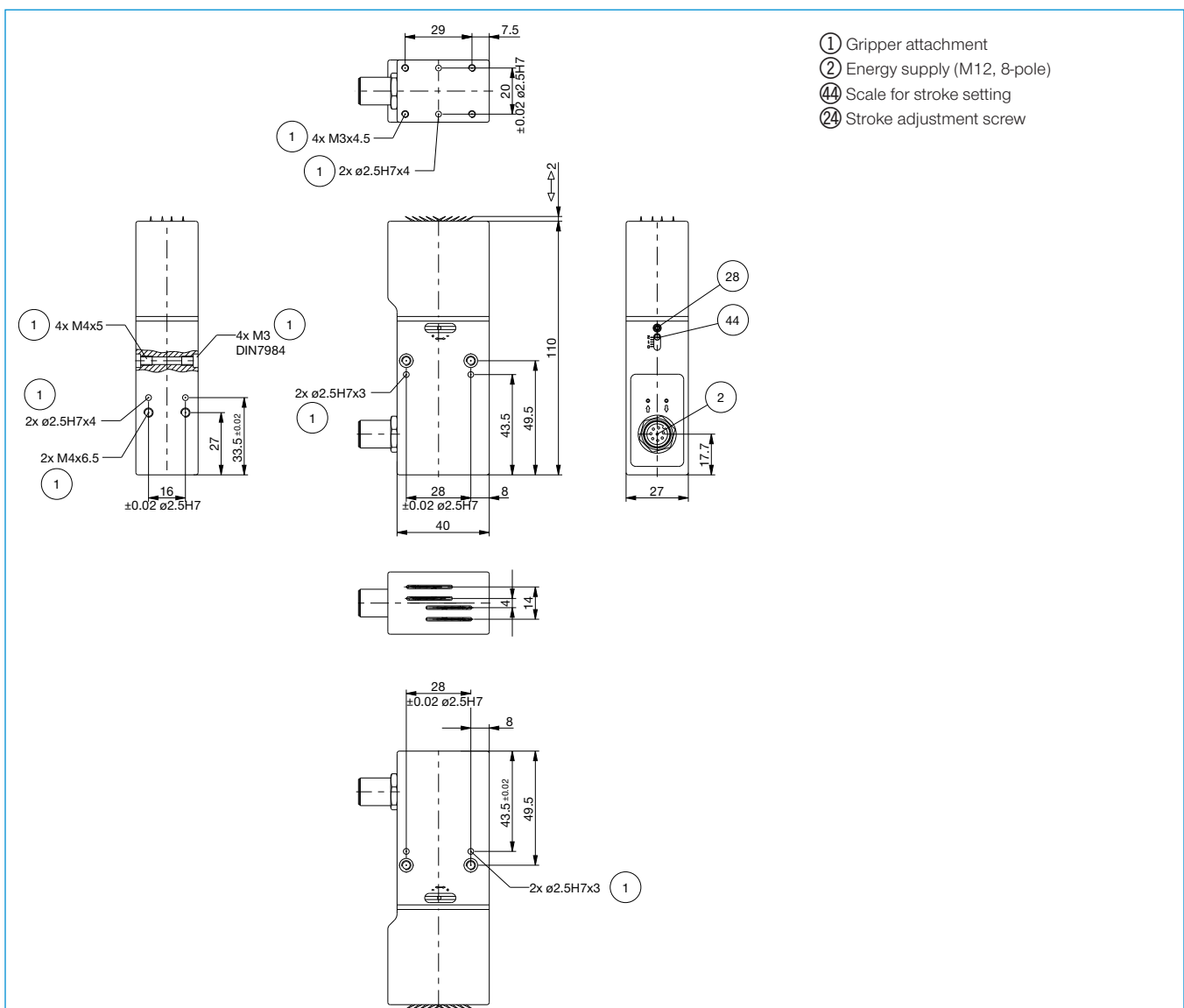
Plug-in Connector Angled
Cable 10 m - Female M12
KAW1000B8



Busbox
see page 875

ZUBBOX9000-01

Order no.	▶ Technical Data
	GEN9102
Pulse time in extend [ms]	25
Pulse time in retract [ms]	20
Needle stroke adjustable min. [mm]	0
Needle stroke adjustable max. [mm]	2
Current consumption in a stand-by mode [A]	0.02
Current consumption per pulse max. [A]	5
Cycle count max. [cycle/min]	150
Permanent operation cycle count max. [cycle/min]	120
Operating time [ms]	<28
Operating temperature min. [°C]	10
Operating temperature max. [°C]	+50
Debounce time [ms]	10
Noise level [db(A)]	<70
Repetition accuracy +/- [mm]	0.1
Protection to IEC 60529	IP50
Weight [kg]	0.33



MAGNETIC GRIPPER

SERIES HEM1000

1

Series HEM1000 / Magnetic gripper / electric / Grippers

▶ PRODUCT ADVANTAGES



▶ **Plug and play**

Reduce your installation effort to a minimum by using the single cable solution and the simple control system via plus and minus buttons

▶ **Saving energy with pulse control**

You only have to supply current briefly when releasing the workpiece; no energy is required when transporting the workpiece

▶ **Secure hold during EMERGENCY STOP**

The magnet provides full holding force when it is not powered, preventing the loss of the workpiece if there is a voltage drop

▶ THE BEST PRODUCT FOR YOUR APPLICATION



▶ **Our products love the challenge!**

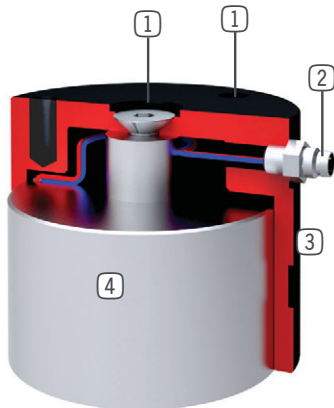
Extreme conditions, all over the world—our tried and tested components and systems give you limitless possibilities:

Find the best product for your specific use:

www.zimmer-group.com



► BENEFITS IN DETAIL



- ① **Mounting and positioning**
 - via centering sleeve and thread
- ② **Energy supply**
 - standardized interface M8 round plug
- ③ **Robust, lightweight housing**
 - Hard-coated aluminum alloy
- ④ **Holding solenoid**
 - with electrical switch off

► TERMS

Adhesive surface:	Complete contact surface of the gripper
Adhesive force:	refers to 100% coating of the adhesive surface, zero clearance, status at operating temperature on ST37 steel and compliance with the minimum coating thickness
Minimum coating thickness:	Minimum thickness of the workpiece to be gripped to reach the max. adhesive force
Remaining adhesive force:	max. 3% of the adhesive force
On-time:	the time in which current is supplied to the gripper
Break time:	the time in which no current is supplied to the gripper
Cycle time:	On-time + break time

MAGNETIC GRIPPER

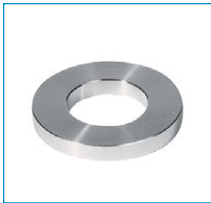
INSTALLATION SIZE HEM1030

1

▶ PRODUCT SPECIFICATIONS



▶ RECOMMENDED ACCESSORIES



Centering Disc

ZE10H7X6



Plug-in connector Straight
Cable 5m - Socket M8
(female)

KAG500



Plug-in connector Angled
Cable 5m - Socket M8
(female)

KAW500

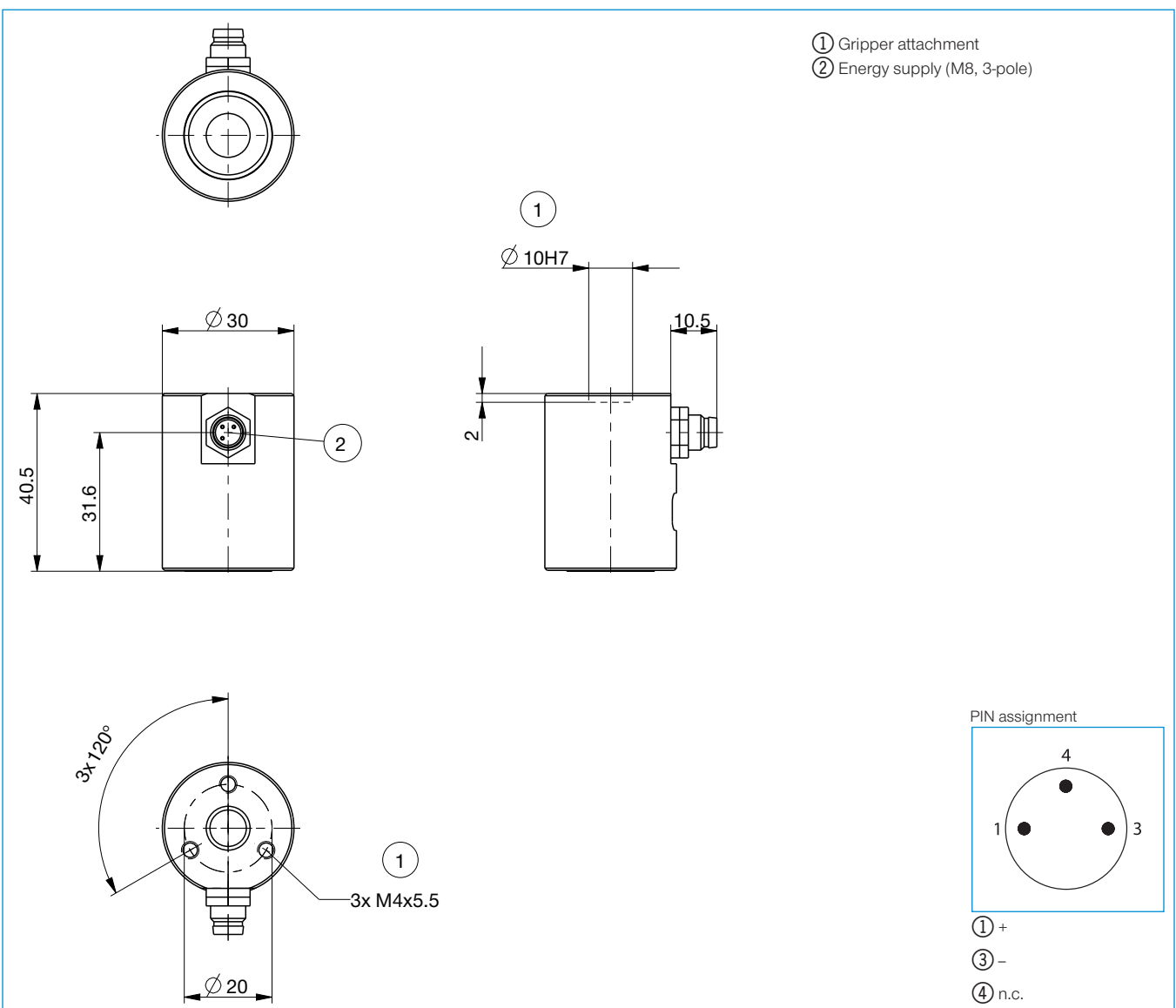


Plug-in connector
customizable Straight -
Connector M8

S8-G-3

Order no.	▶ Technical Data
Max. adhesive force [N]*	40
Minimum coating thickness [mm]	2.5
Max. residual retention force [N]	1.2
Duty cycle max. with a cycle time < 2 min [%]	25
Duty cycle max. with a cycle time < 0.5 min [%]	40
Input power [W]	3.6
Voltage [V]	24
Operating temperature min. [°C]	-25
Operating temperature max. [°C]	+80
Weight [kg]	0.09

*St37-100%, St34 -88%, St 50-81%, St70-75%, GT-65%, 20MnCr5-55%, GG-35%

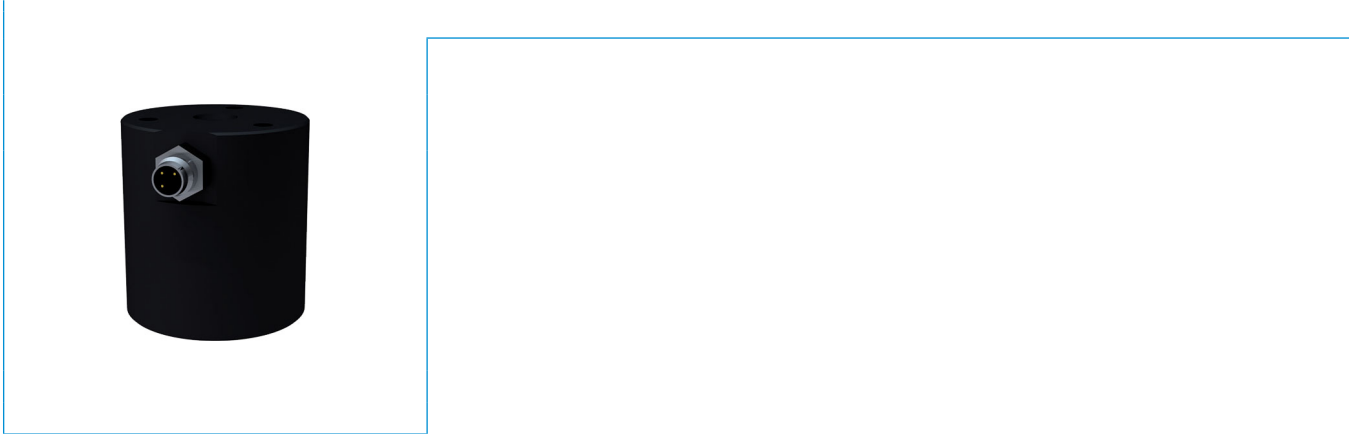


MAGNETIC GRIPPER

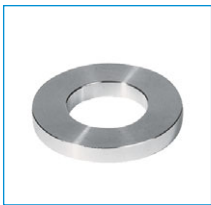
INSTALLATION SIZE HEM1042

1

▶ PRODUCT SPECIFICATIONS



▶ RECOMMENDED ACCESSORIES



Centering Disc

ZE10H7X6



Ball Joints

KG40



Plug-in connector Straight
Cable 5m - Socket M8
(female)

KAG500



Plug-in connector Angled
Cable 5m - Socket M8
(female)

KAW500



Plug-in connector
customizable Straight -
Connector M8

S8-G-3

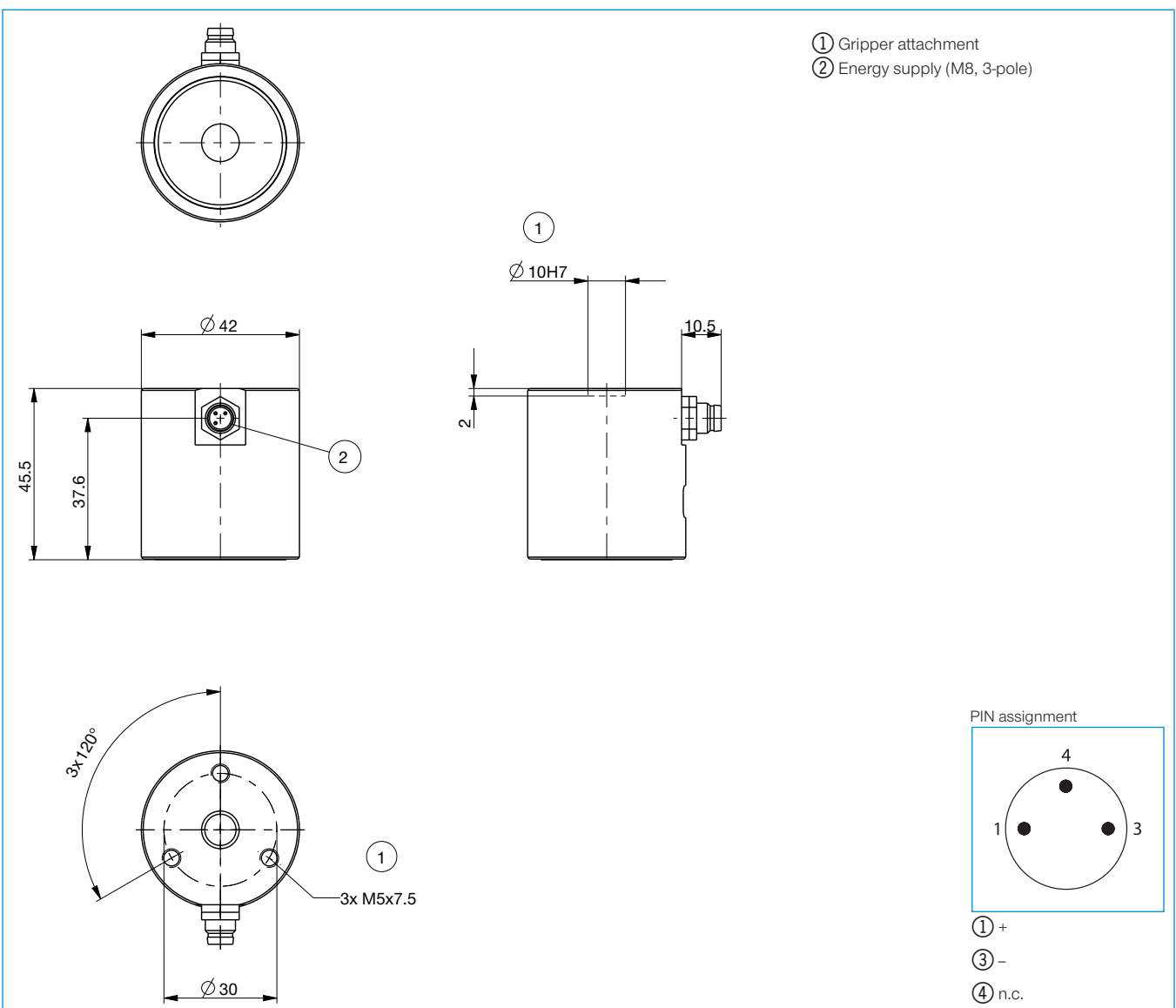


Plug-in Connector Customiz-
able Angled - Connector M8

S8-W-3

Order no.	▶ Technical Data
Max. adhesive force [N]*	160
Minimum coating thickness [mm]	3
Max. residual retention force [N]	4.8
Duty cycle max. with a cycle time < 2 min [%]	25
Duty cycle max. with a cycle time < 0.5 min [%]	40
Input power [W]	4.6
Voltage [V]	24
Operating temperature min. [°C]	-25
Operating temperature max. [°C]	+80
Weight [kg]	0.28

*St37-100%, St34 -88%, St 50-81%, St70-75%, GT-65%, 20MnCr5-55%, GG-35%



MAGNETIC GRIPPER

INSTALLATION SIZE HEM1062

1

▶ PRODUCT SPECIFICATIONS



▶ RECOMMENDED ACCESSORIES



Centering Disc

ZE10H7X6



Ball Joints

KG60



Plug-in connector Straight
Cable 5m - Socket M8
(female)

KAG500



Plug-in connector Angled
Cable 5m - Socket M8
(female)

KAW500



Plug-in connector
customizable Straight -
Connector M8

S8-G-3

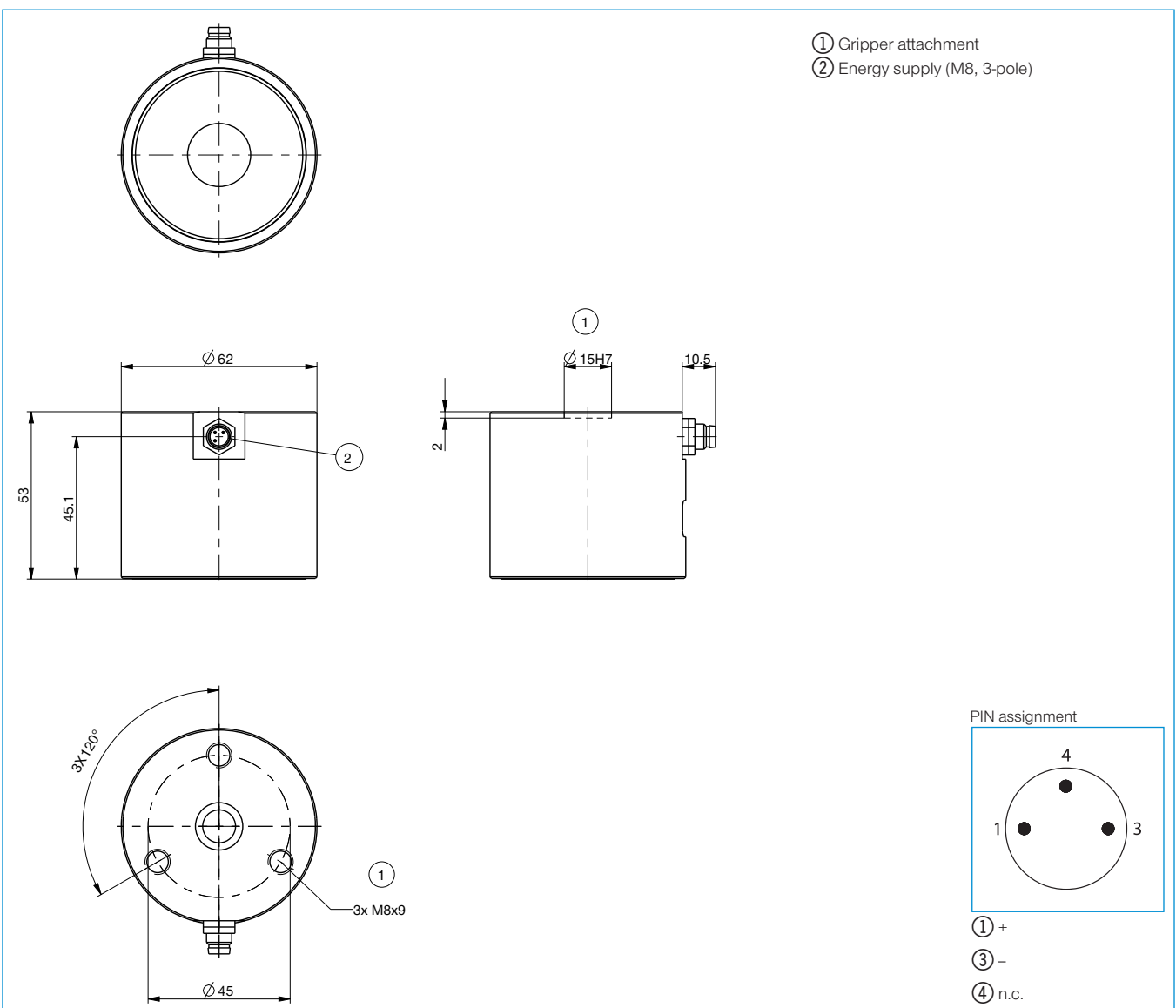


Plug-in Connector Customiz-
able Angled - Connector M8

S8-W-3

Order no.	Technical Data
Max. adhesive force [N]*	420
Minimum coating thickness [mm]	4.5
Max. residual retention force [N]	12.6
Duty cycle max. with a cycle time < 2 min [%]	25
Duty cycle max. with a cycle time < 0.5 min [%]	40
Input power [W]	9
Voltage [V]	24
Operating temperature min. [°C]	-25
Operating temperature max. [°C]	+80
Weight [kg]	0.66

*St37-100%, St34 -88%, St 50-81%, St70-75%, GT-65%, 20MnCr5-55%, GG-35%



MAGNETIC GRIPPER

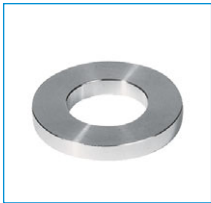
INSTALLATION SIZE HEM1080

1

▶ PRODUCT SPECIFICATIONS



▶ RECOMMENDED ACCESSORIES



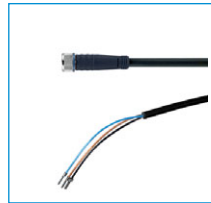
Centering Disc

ZE10H7X6



Ball Joints

KG80



Plug-in connector Straight
Cable 5m - Socket M8
(female)

KAG500



Plug-in connector Angled
Cable 5m - Socket M8
(female)

KAW500



Plug-in connector
customizable Straight -
Connector M8

S8-G-3

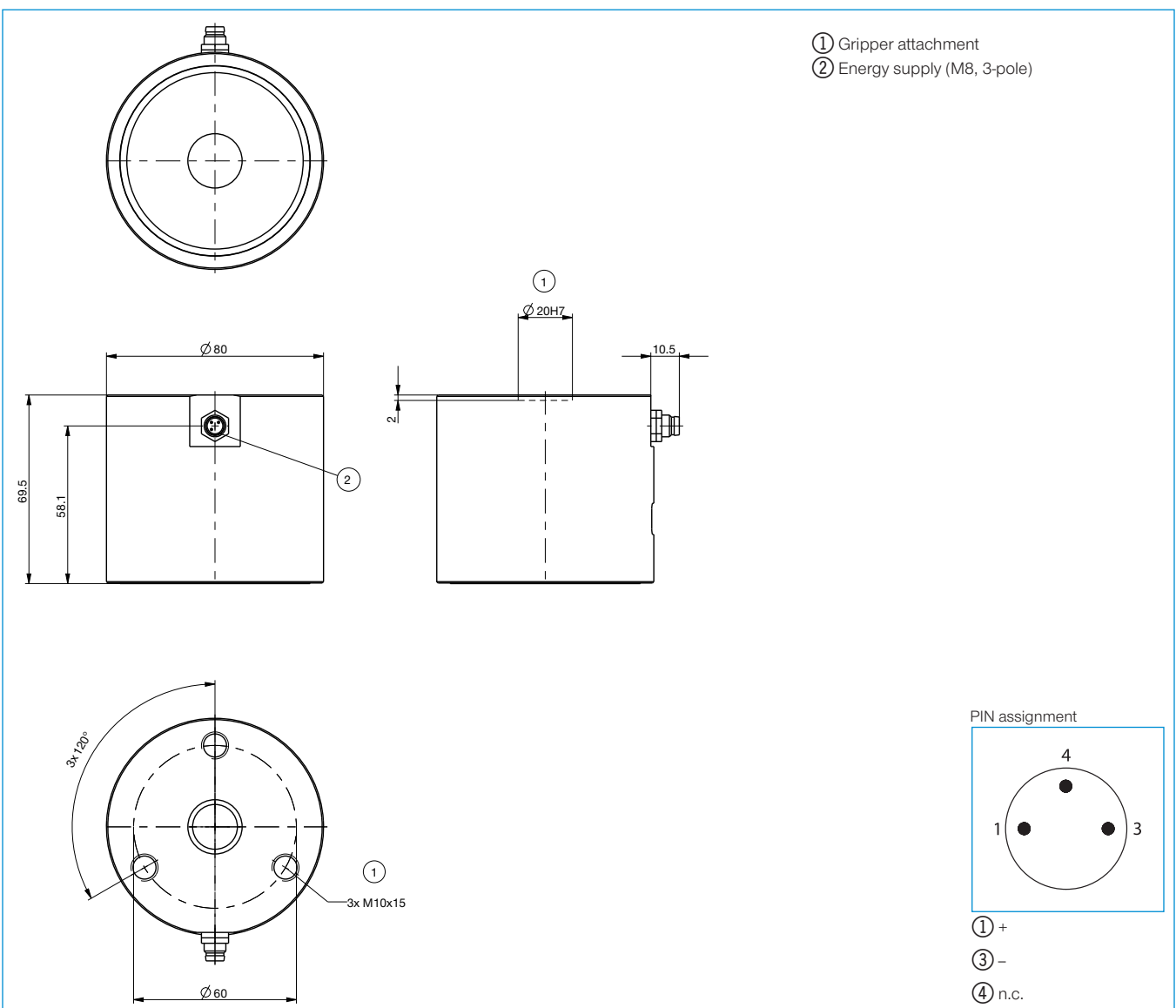


Plug-in Connector Customiz-
able Angled - Connector M8

S8-W-3

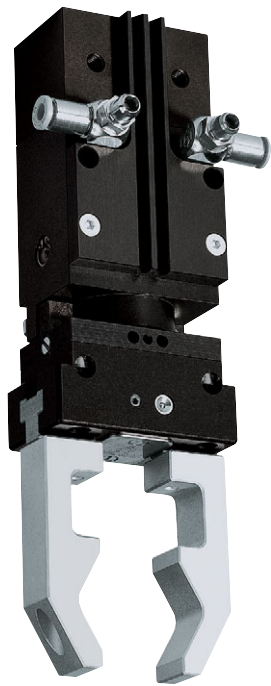
Order no.	Technical Data
Max. adhesive force [N]*	720
Minimum coating thickness [mm]	6
Max. residual retention force [N]	21.6
Duty cycle max. with a cycle time < 2 min [%]	25
Duty cycle max. with a cycle time < 0.5 min [%]	40
Input power [W]	13.3
Voltage [V]	24
Operating temperature min. [°C]	-25
Operating temperature max. [°C]	+80
Weight [kg]	1.3

*St37-100%, St34 -88%, St 50-81%, St70-75%, GT-65%, 20MnCr5-55%, GG-35%



ANGULAR GRIP & ROTATE MODULES

OVERVIEW OF SERIES



▶ PNEUMATIC

	Series DGK	532
	Series DGP400	536

2-JAW ANGULAR ROTARY GRIPPERS SERIES DGK

▶ PRODUCT ADVANTAGES



“TWO in ONE”

▶ Smooth stroke configuration

You can adjust the 180° opening angle to be unique to your application using an adjusting screw

▶ 2 in 1

Gripping and swivelling in a module allows optimum utilisation of the installation space

▶ Individually adjustable

How you stay flexible: 90° or 180° swivel angle - You decide what your application requires on site

▶ THE BEST PRODUCT FOR YOUR APPLICATION



▶ Our products love the challenge!

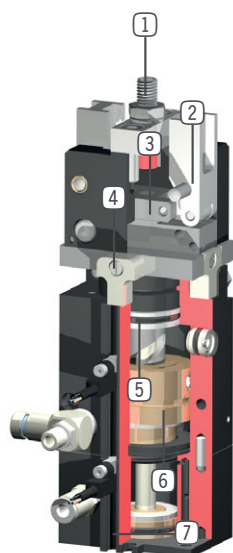
Extreme conditions, all over the world—our tried and tested components and systems give you limitless possibilities:

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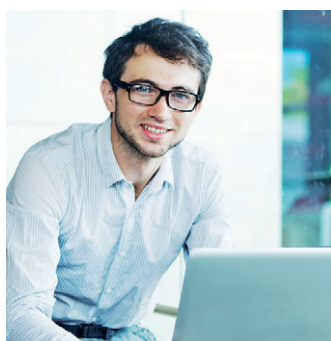


► BENEFITS IN DETAIL



- ① **Stroke adjustment screw**
 - Infinitely adjustable opening stroke
- ② **Gripper jaw**
 - individual gripper finger mounting
- ③ **Guided toggle lever mechanism**
 - synchronized the movement of the gripper jaws
 - mechanically self-locking
- ④ **Endposition 0°/90°/180° adjustment**
 - endstops for 0°/90°/180° included with purchase
- ⑤ **Rotating-drive mechanism**
 - robust, wear-resistant
- ⑥ **Drive**
 - two double-acting pneumatic cylinders
- ⑦ **Slot for magnetic field sensor**
 - sensing of the rotational position and gripper jaw position

► FURTHER INFORMATION IS AVAILABLE ONLINE



► Technical Information

All information just a click away at: www.zimmer-group.com

Find data, illustrations, 3D models and operating instructions for your installation size using the order number for your desired product.

Quick, clear and always up-to-date.



2-JAW ANGULAR ROTARY GRIPPERS

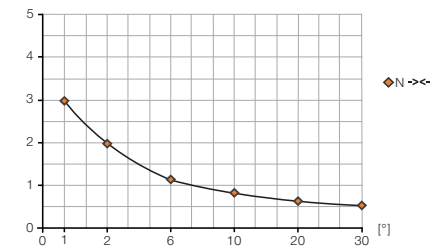
INSTALLATION SIZE DGK20

PRODUCT SPECIFICATIONS



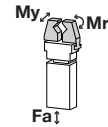
Gripping moment diagram

[Nm] Gripping force as a function of opening angle.



Forces and moments

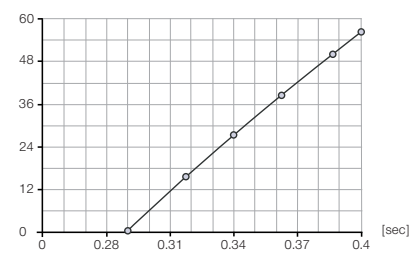
Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	0.8
Mx [Nm]	0.8
My [Nm]	1
Fa [N]	150

Rotation time diagram

[kg cm²] Rotation time as a function of mass moment of inertia



INCLUDED IN DELIVERY



Flow Control Valves - with Swivel joint

DRVM5X4



Stop 90° + 180°

ANS0065

RECOMMENDED ACCESSORIES



Magnetic field sensor Angled Cable 5 m

MFS103KHC



Magnetic field sensor Angled Cable 0,3 m - Connector M8

MFS103SKHC



Magnetic field sensor Straight Cable 5 m

MFS204KHC



Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC

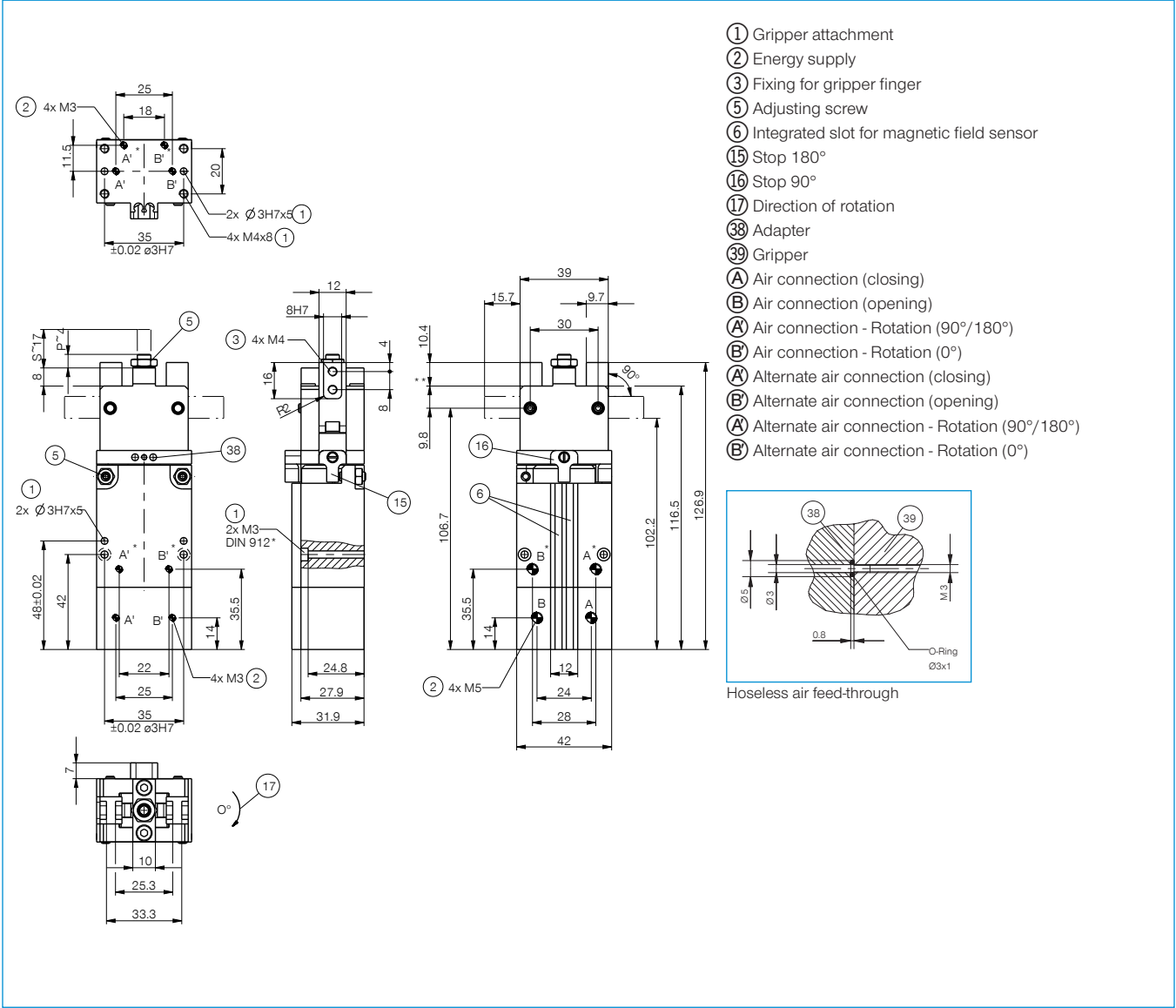


Straight Fittings - Quick Connect Style

GVM5

► Technical Data*	
Order no.	DGK20N
Stroke per jaw [°]	90
Gripping force in closing [N]	150
Gripping moment in closing [Nm]	3
Closing time [s]	0.25
Opening time [s]	0.25
Torque [Nm]	0.5
Repetition accuracy +/- [mm]	0.1
Repetition accuracy +/- [°]	0.05
Axial bearing load [N]	960
Radial bearing load [Nm]	10
Operating pressure min. [bar]	3
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm ³]	9
Air volume per cycle 90° [cm ³]	4.6
Air volume per cycle 180° [cm ³]	9.2
Weight [kg]	0.55

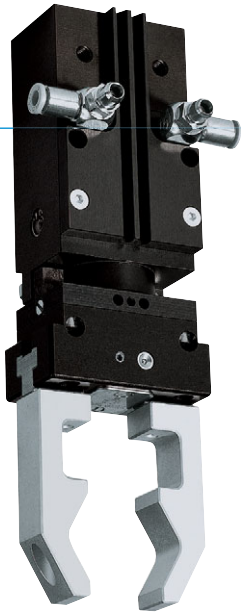
*All data measured at 6 bar



2-JAW PARALLEL ROTARY GRIPPERS

SERIES DGP400

▶ PRODUCT ADVANTAGES



“TWO in ONE”

▶ Proven T slot guide

This established and proven guiding technology stands for the highest process reliability like no other

▶ 2 in 1

Gripping and swivelling in a module allows optimum utilisation of the installation space

▶ Individually adjustable

How you stay flexible: 90° or 180° swivel angle - You decide what your application requires on site

▶ THE BEST PRODUCT FOR YOUR APPLICATION



▶ Our products love the challenge!

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Find the best product for your specific use:

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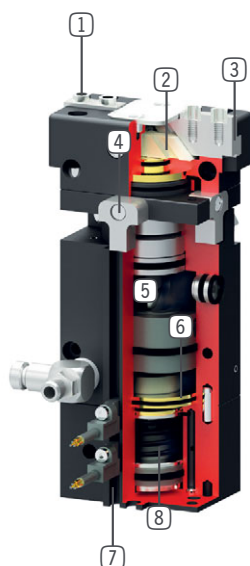
HOW TO ORDER CORRECTLY

- ▶ The product order numbers are arranged according to this diagram:

Order no.	DGP404N	<input type="checkbox"/>		
For external gripping, self-locking, spring closing		C		
For internal gripping, self-locking, spring opening		O		

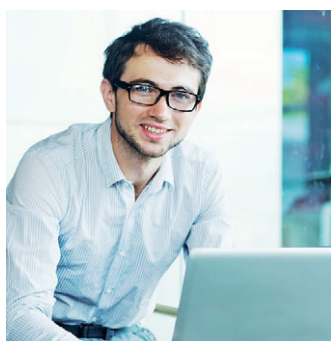


► BENEFITS IN DETAIL



- ① **Removable centering sleeves**
 - quick and economical positioning of the gripper fingers
- ② **Wedge hook mechanism**
 - synchronized the movement of the gripper jaws
- ③ **Precise T-Slot guide**
 - high forces and moments capacity
- ④ **Endposition 0°/90°/180° adjustment**
 - endstops for 0°/90°/180° included with purchase
- ⑤ **Rotating-drive mechanism**
 - robust, wear-resistant
- ⑥ **Drive**
 - two double-acting pneumatic cylinders
- ⑦ **Slot for magnetic field sensor**
 - sensing of the rotational position and gripper jaw position
- ⑧ **Integrated gripping force safety device**
 - optional via integrated spring (C or O models)

► FURTHER INFORMATION IS AVAILABLE ONLINE



► Technical Information

All information just a click away at: www.zimmer-group.com

Find data, illustrations, 3D models and operating instructions for your installation size using the order number for your desired product.

Quick, clear and always up-to-date.



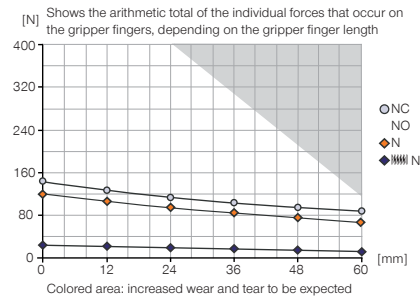
2-JAW PARALLEL ROTARY GRIPPERS

INSTALLATION SIZE DGP404

PRODUCT SPECIFICATIONS

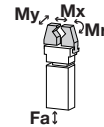


Gripping moment diagram



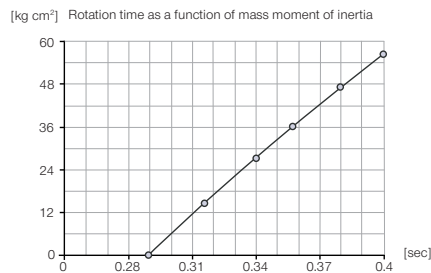
Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	8
Mx [Nm]	15
My [Nm]	10
Fa [N]	300

Rotation time diagram



INCLUDED IN DELIVERY



Flow Control Valves - with Swivel joint
DRVM5X4



Centering Disc
DST40400



Stop 90° + 180°
ANS0065

RECOMMENDED ACCESSORIES



Magnetic field sensor Angled Cable 5 m
MFS103KHC



Magnetic field sensor Angled Cable 0,3 m - Connector M8
MFS103SKHC



Magnetic field sensor Straight Cable 5 m
MFS204KHC



Magnetic field sensor Straight Cable 0,3 m - Connector M8
MFS204SKHC

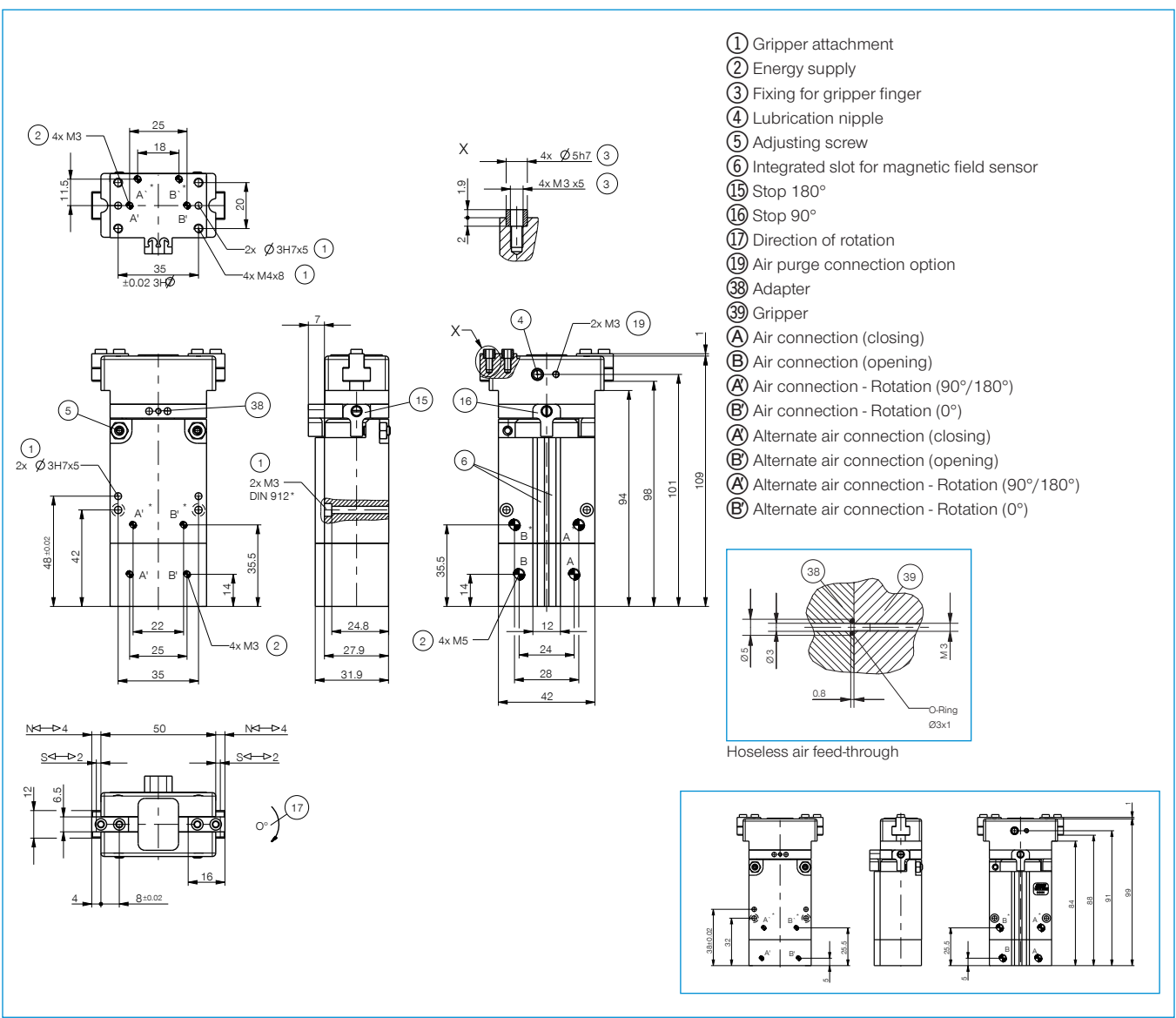


Straight Fittings - Quick Connect Style
GVM5

► Technical Data*

Order no.	DGP404N	DGP404NC	DGP404NO
Stroke per jaw [mm]	4	4	4
Gripping force in opening [N]	115		155
Gripping force in closing [N]	115	155	
Gripping force secured by spring min. [N]		40	40
Closing time / Opening time [s]	0.01 / 0.01	0.015 / 0.015	0.015 / 0.015
Torque [Nm]	0.5	0.5	0.5
Repetition accuracy +/- [mm]	0.05	0.05	0.05
Repetition accuracy +/- [°]	0.05	0.05	0.05
Axial bearing load [N]	960	960	960
Radial bearing load [Nm]	10	10	10
Operating pressure [bar]	3 ... 8	3 ... 8	3 ... 8
Operating temperature [°C]	5 ... +80	5 ... +80	5 ... +80
Air volume per cycle [cm³]	3	5	5
Air volume per cycle 90° [cm³]	4.5	4.5	4.5
Air volume per cycle 180° [cm³]	9	9	9
Weight [kg]	0.44	0.48	0.48

*All data measured at 6 bar



SWIVEL- AND ROTARY MODULES

OVERVIEW OF SERIES

3

Products	Torque [Nm]	Swivel angle [°]	Number of installation sizes
Rotary Cylinders pneumatic Page 542			
Series PRN	0,15 247	90 270	●●●●●●●●
Series SH	0,59-7,2	0 360	●●
Flat Swivel Units pneumatic Page 572			
Series MSF	0,3-1,2	90-180	●●●
Series SF-C	1,5 130	0 180	●●●●●●
Flat Swivel Units electric Page 654			
Series DES	12 64	∞	●●
Angle Pivot Units pneumatic Page 668			
Series SWM1000	10 64	90	●●●●
Series SW	1,5 120	180	●●●●●●
Swivel Jaws pneumatic Page 694			
Series SB *	0,1-1,6	90-180	●●●
Series SBZ	1,2 5 7	90-180	●●●●●

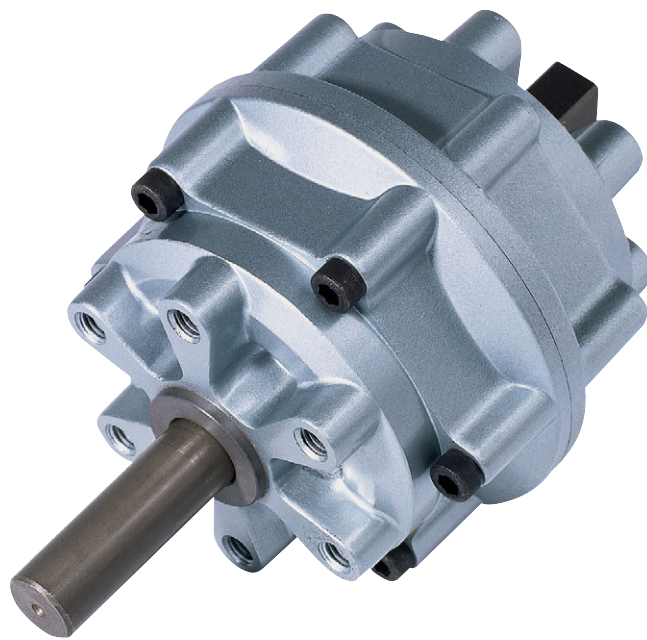
*Specifications for setup in pairs

AP class	Position sensing			Positionability				Options						Safety characteristics	Maintenance	
	Magnetic field sensor	Inductive sensor	Integrated sensing	Positionability, 2 positions	Positionability, 3 positions	Positionability, 4 positions	Positionability freely selectable	Elastomer end position damping	PowerStop end position damping	Adjustable swivel angle	IP class	Fluid feed-through	Electrical feed-through		Self locking mechanism	Maintenance-free cycles (max.)
1		•		•							54				1.5 million	
1						•				•	54				1.5 million	
2	•			•				•	•	•	41	•			10 million	
3	•	•		•	•				•	•	64	•			10 million	
3			•				•			•	54	•	•	•		5 million
3	•			•							30				10 million	
3	•	•		•					•		64	•			10 million	
2		•		•				•		•	54				10 million	
3		•		•					•		54				10 million	

ROTARY CYLINDERS

OVERVIEW OF SERIES



**▶ PNEUMATIC**

Series PRN

544



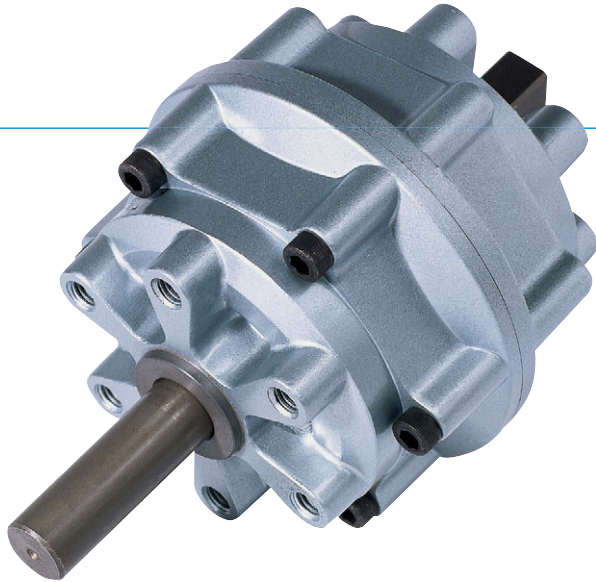
Series SH

566

ROTARY CYLINDERS

SERIES PRN

▶ PRODUCT ADVANTAGES



“The economical”

▶ Concentration on the essentials

The most economic type of swivelling reduces your production costs

▶ Dampened end position

Using the hydraulic brake allows you to move up to the end positions gently, increasing the process reliability and durability of your application

▶ Forged drive shaft

This shaft is not only robust, but can be individually adjusted, e.g. with supply holes through the axis

▶ THE BEST PRODUCT FOR YOUR APPLICATION



▶ Our products love the challenge!

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HOW TO ORDER CORRECTLY

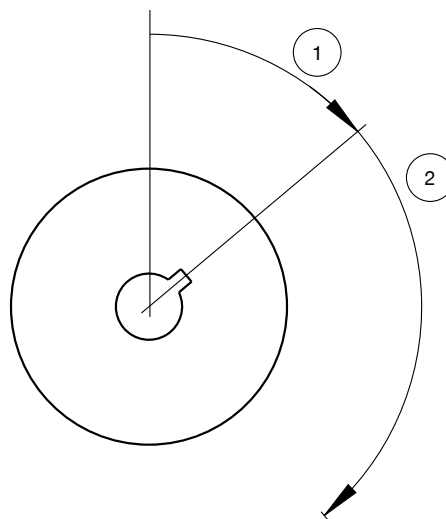
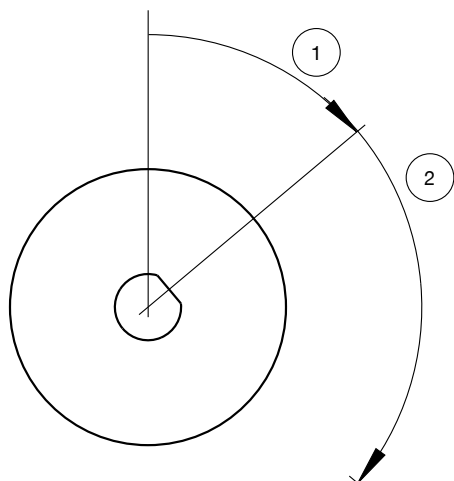
- ▶ The product order numbers are arranged according to this diagram:

Order no.	PRN30-	<input type="checkbox"/>	-B	
Rotation angle 90°		90		
Rotation angle 100°		100		
Rotation angle 180°		180		
Swivel angle 270°		270		
Swivel angle 280°		280		



▶ STARTING ANGLE

- ① Starting angle
- ② Swivel angle



PRN1
PRN3
PRN10

PRN20
PRN30
PRN50
PRN150
PRN300
PRN800

▶ SERIES CHARACTERISTICS



Number of installation sizes	9
Swivel angle	90° - 270°
Torque	0,15 Nm - 247 Nm
Weight	0,04 kg - 12,5 kg
AP class	1



Inductive sensor



Positionability - 2 positions



IP54



1.5 million maintenance-free cycles (max.)

ROTARY CYLINDERS

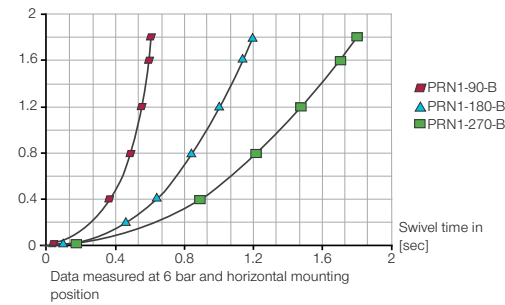
INSTALLATION SIZE PRN1

▶ PRODUCT SPECIFICATIONS



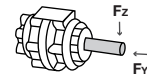
▶ Moment of inertia

[kg cm²] Shows the expected swivel time vs the calculated moment of inertia



▶ Forces and moments

Shows the maximum static shaft load.



FY [N]	3
FZ [N]	30

▶ RECOMMENDED ACCESSORIES



Flange

F1-P



Angle flange

F1-LB



Straight Fittings - Quick Connect Style

GVM5



Flow Control Valves - with Swivel joint

DRVM5X4



Pressure Safety Valve

DSV1-8

▶ RECOMMENDED ACCESSORY ROTATION LIMITER



Rotation limiter

DB1-B



Inductive proximity switch - Cable 5 m

NJ3-E2-02



Plug-in connector customizable Straight - Connector M8

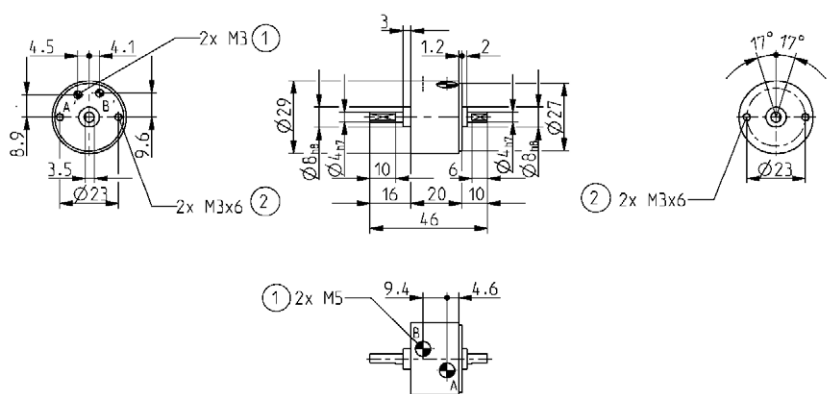
S8-G-3

► Technical Data*

Order no.	PRN1-90-B	PRN1-180-B	PRN1-270-B
Swivel angle [°]	90	180	270
Tolerance swivel angle [°]	0° / +4°	0° / +4°	0° / +4°
Starting Angle [°]	90	90	45
Torque [Nm]	0.15	0.15	0.15
Swivel time [s]	0.1	0.17	0.24
Operating pressure min. [bar]	2	2	2
Operating pressure max. [bar]	7	7	7
Operating temperature min. [°C]	-5	-5	-5
Operating temperature max. [°C]	+80	+80	+80
Air volume per cycle [cm ³]	2.8	2.8	2.8
Weight [kg]	0.04	0.04	0.04

*All data measured at 6 bar

- ① Energy supply
- ② Fixing Rotor
- Ⓐ Air connection (0°-90°/180°/270°)
- Ⓑ Air connection (90°/180°/270°-0°)
- Ⓐ Alternate air connection 0°-90°/180°/270°
- Ⓑ Alternate air connection 90°/180°/270°-0°



ROTARY CYLINDERS

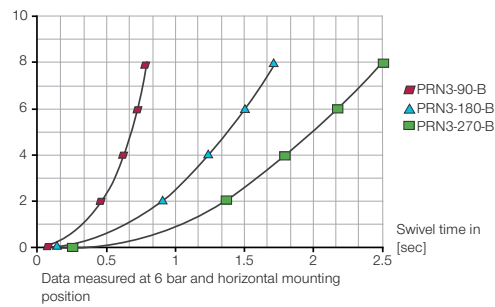
INSTALLATION SIZE PRN3

▶ PRODUCT SPECIFICATIONS



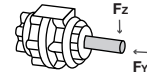
▶ Moment of inertia

[kg cm²] Shows the expected swivel time vs the calculated moment of inertia



▶ Forces and moments

Shows the maximum static shaft load.



FY [N]	4
FZ [N]	40

▶ RECOMMENDED ACCESSORIES



Flange

F3-P



Angle flange

F3-LB



Straight Fittings - Quick Connect Style
GVM5



Flow Control Valves - with Swivel joint
DRVM5X4



Pressure Safety Valve

DSV1-8

▶ RECOMMENDED ACCESSORY ROTATION LIMITER



Rotation limiter

DB3



Inductive proximity switch
- Cable 5 m

NJ3-E2-02



Plug-in connector customizable Straight-Connector M8

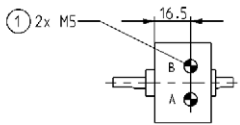
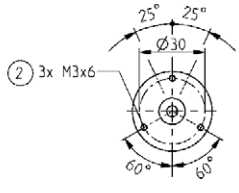
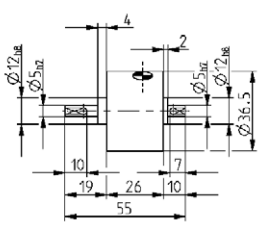
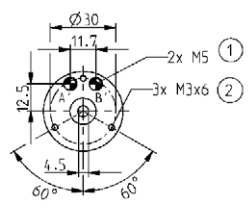
S8-G-3

► Technical Data*

Order no.	PRN3-90-B	PRN3-180-B	PRN3-270-B
Swivel angle [°]	90	180	270
Tolerance swivel angle [°]	0° / +4°	0° / +4°	0° / +4°
Starting Angle [°]	90	90	45
Torque [Nm]	0.38	0.38	0.38
Swivel time [s]	0.13	0.2	0.28
Operating pressure min. [bar]	2	2	2
Operating pressure max. [bar]	7	7	7
Operating temperature min. [°C]	-5	-5	-5
Operating temperature max. [°C]	+80	+80	+80
Air volume per cycle [cm³]	6.8	6.8	6.8
Weight [kg]	0.07	0.07	0.07

*All data measured at 6 bar

- ① Energy supply
- ② Fixing Rotor
- Ⓐ Air connection (0°-90°/180°/270°)
- Ⓑ Air connection (90°/180°/270°-0°)
- Ⓐ Alternate air connection 0°-90°/180°/270°
- Ⓑ Alternate air connection 90°/180°/270°-0°



ROTARY CYLINDERS

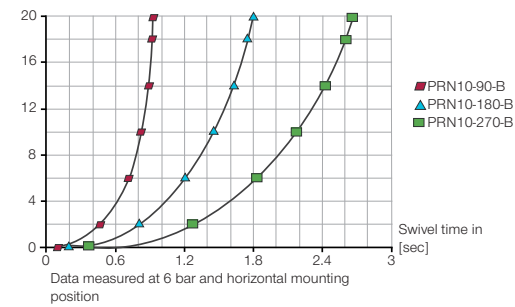
INSTALLATION SIZE PRN10

▶ PRODUCT SPECIFICATIONS



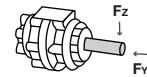
▶ Moment of inertia

[kg cm²] Shows the expected swivel time vs the calculated moment of inertia



▶ Forces and moments

Shows the maximum static shaft load.



FY [N]	4
FZ [N]	50

▶ RECOMMENDED ACCESSORIES



Flange

F10-P



Angle flange

F10-LB



Straight Fittings - Quick Connect Style

GVM5



Flow Control Valves - with Swivel joint

DRVM5X4



Pressure Safety Valve

DSV1-8

▶ RECOMMENDED ACCESSORY ROTATION LIMITER



Rotation limiter

DB10



Stop Stroke Adjustment Screws

AI-M8X1-38



Inductive proximity switch - Cable 5 m

NJ12-E2



Inductive proximity switch - Connector M8

NJ12-E2S



Plug-in connector Angled Cable 5m - Socket M8 (female)

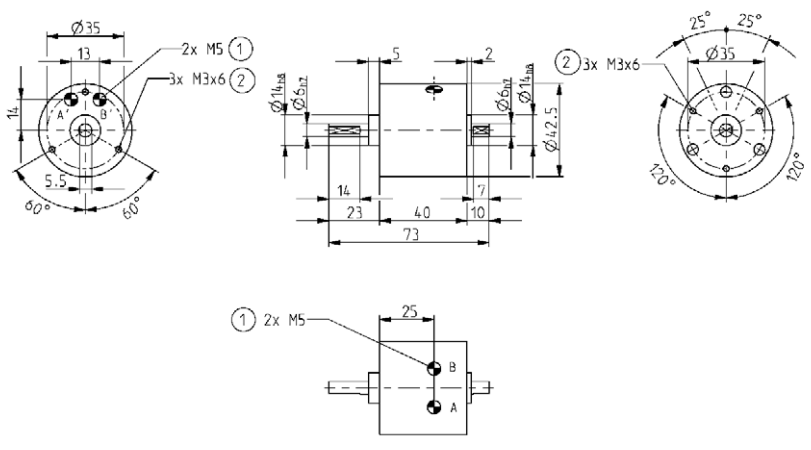
KAW500

► Technical Data*

Order no.	PRN10-90-B	PRN10-180-B	PRN10-270-B
Swivel angle [°]	90	180	270
Tolerance swivel angle [°]	0° / +4°	0° / +4°	0° / +4°
Starting Angle [°]	90	90	45
Torque [Nm]	1.2	1.2	1.2
Swivel time [s]	0.13	0.2	0.28
Operating pressure min. [bar]	2	2	2
Operating pressure max. [bar]	7	7	7
Operating temperature min. [°C]	-5	-5	-5
Operating temperature max. [°C]	+80	+80	+80
Air volume per cycle [cm³]	19.6	19.6	19.6
Weight [kg]	0.14	0.14	0.14

*All data measured at 6 bar

- ① Energy supply
- ② Fixing Rotor
- Ⓐ Air connection (0°-90°/180°/270°)
- Ⓑ Air connection (90°/180°/270°-0°)
- Ⓐ Alternate air connection 0°-90°/180°/270°
- Ⓑ Alternate air connection 90°/180°/270°-0°



ROTARY CYLINDERS

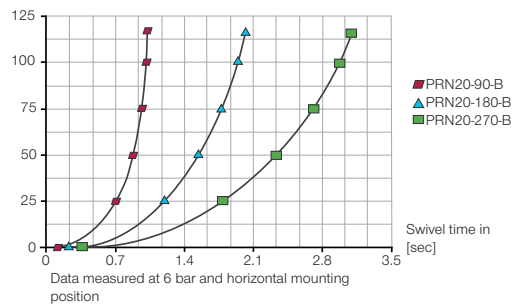
INSTALLATION SIZE PRN20

▶ PRODUCT SPECIFICATIONS



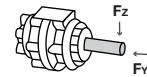
▶ Moment of inertia

[kg cm²] Shows the expected swivel time vs the calculated moment of inertia



▶ Forces and moments

Shows the maximum static shaft load.



FY [N]	25
FZ [N]	300

▶ RECOMMENDED ACCESSORIES



Flange

F20-P



Angle flange

F20-LB



Straight Fittings - Quick Connect Style

GVM5



Flow Control Valves - with Swivel joint

DRVM5X4



Pressure Safety Valve

DSV1-8

▶ RECOMMENDED ACCESSORY ROTATION LIMITER



Rotation limiter

DB20



Stop Stroke Adjustment Screws

AI-M8X1-38



Inductive proximity switch - Cable 5 m

NJ12-E2



Inductive proximity switch - Connector M8

NJ12-E2S



Plug-in connector Angled Cable 5m - Socket M8 (female)

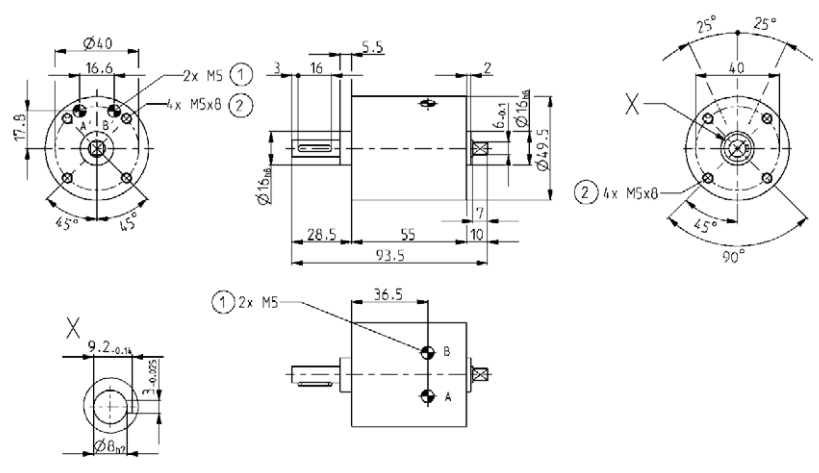
KAW500

► Technical Data*

Order no.	PRN20-90-B	PRN20-180-B	PRN20-270-B
Swivel angle [°]	90	180	270
Tolerance swivel angle [°]	0° / +4°	0° / +4°	0° / +4°
Starting Angle [°]	90	90	45
Torque [Nm]	2.1	2.1	2.1
Swivel time [s]	0.14	0.25	0.34
Operating pressure min. [bar]	2	2	2
Operating pressure max. [bar]	10	10	10
Operating temperature min. [°C]	-5	-5	-5
Operating temperature max. [°C]	+80	+80	+80
Air volume per cycle [cm³]	34	34	34
Weight [kg]	0.25	0.25	0.25

*All data measured at 6 bar

- ① Energy supply
- ② Fixing Rotor
- Ⓐ Air connection (0°-90°/180°/270°)
- Ⓑ Air connection (90°/180°/270°-0°)
- Ⓐ Alternate air connection 0°-90°/180°/270°
- Ⓑ Alternate air connection 90°/180°/270°-0°



ROTARY CYLINDERS

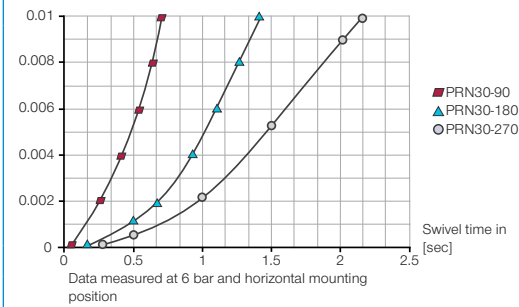
INSTALLATION SIZE PRN30

▶ PRODUCT SPECIFICATIONS



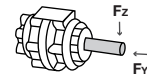
▶ Moment of inertia

[kg m²] Shows the expected swivel time vs the calculated moment of inertia



▶ Forces and moments

Shows the maximum static shaft load.



FY [N]	30
FZ [N]	400

▶ RECOMMENDED ACCESSORIES



Flange

F30-P



Angle flange

F30-LB



Straight Fittings - Quick Connect Style
GV1-8X6



Flow Control Valves - with Swivel joint
DRV1-8X6



Pressure Safety Valve
DSV1-8

▶ RECOMMENDED ACCESSORY ROTATION LIMITER



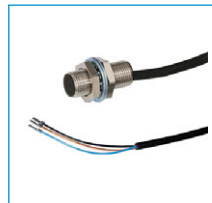
Rotation limiter

DB30



Stop Stroke Adjustment Screws

AI-M8X1-38



Inductive proximity switch - Cable 5 m

NJ12-E2



Inductive proximity switch - Connector M8

NJ12-E2S

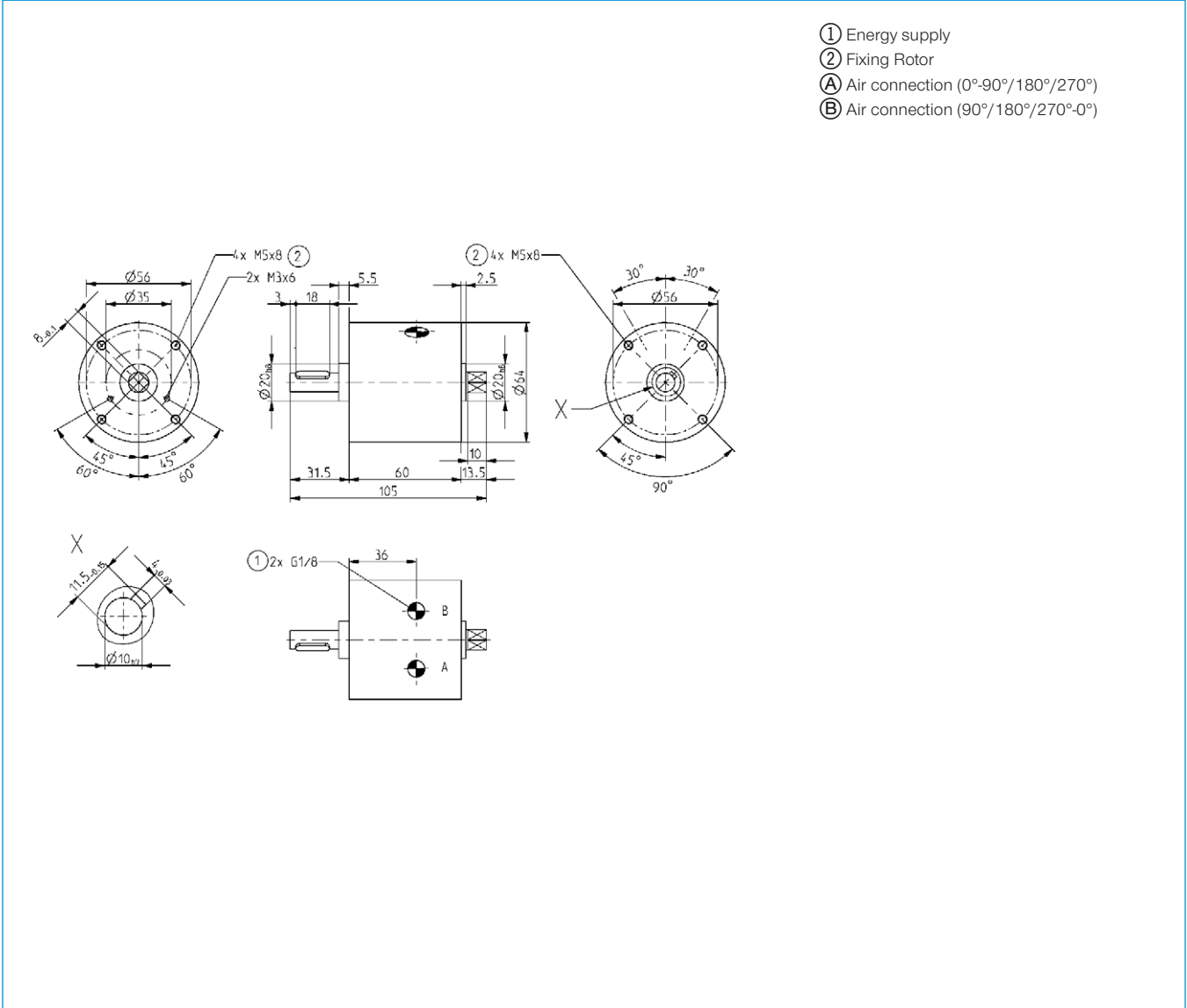


Plug-in connector Angled Cable 5m - Socket M8 (female)
KAW500

► Technical Data*

Order no.	PRN30-90	PRN30-180	PRN30-270
Swivel angle [°]	90	180	270
Tolerance swivel angle [°]	0° / +3°	0° / +3°	0° / +3°
Starting Angle [°]	45	45	45
Torque [Nm]	4.1	4.1	4.1
Swivel time [s]	0.17	0.33	0.5
Operating pressure min. [bar]	2	2	2
Operating pressure max. [bar]	10	10	10
Operating temperature min. [°C]	5	5	5
Operating temperature max. [°C]	+60	+60	+60
Air volume per cycle [cm³]	74	74	86
Weight [kg]	0.5	0.5	0.5

*All data measured at 6 bar



ROTARY CYLINDERS

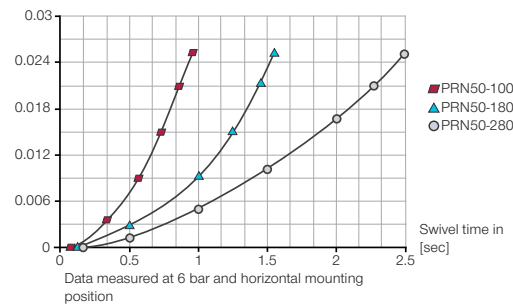
INSTALLATION SIZE PRN50

▶ PRODUCT SPECIFICATIONS



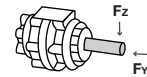
▶ Moment of inertia

[kg m²] Shows the expected swivel time vs the calculated moment of inertia



▶ Forces and moments

Shows the maximum static shaft load.



FY [N]	44
FZ [N]	580

▶ RECOMMENDED ACCESSORIES



Flange

F50-P



Angle flange

F50-LB



Straight Fittings - Quick Connect Style
GV1-8X6



Flow Control Valves - with Swivel joint
DRV1-8X6



Pressure Safety Valve

DSV1-8

▶ RECOMMENDED ACCESSORY ROTATION LIMITER



Rotation limiter

DB50



Stop Stroke Adjustment Screws

AI-M8X1-38



Inductive proximity switch - Cable 5 m

NJ12-E2



Inductive proximity switch - Connector M8

NJ12-E2S



Plug-in connector Angled Cable 5m - Socket M8 (female)

KAW500

▶ RECOMMENDED ACCESSORY OIL DAMPER



Oil damper see page 564

CRN50



Stop Lever 90° / Starting Angle 45°

A50-90-B



Stop Lever 180° / Starting Angle 45°

A50-180-B



Stop Lever 270° / Starting Angle 45°

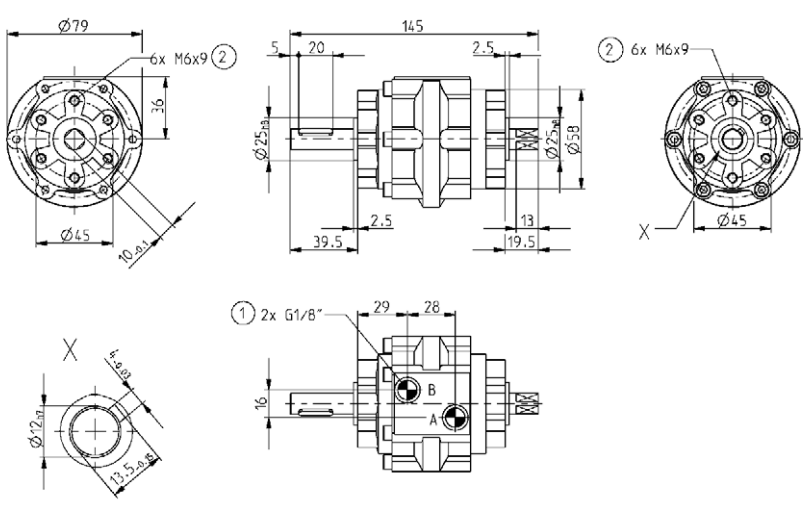
A50-270

► **Technical Data***

Order no.	PRN50-90	PRN50-180-B	PRN50-270
Swivel angle [°]	90	180	270
Tolerance swivel angle [°]	0° / +3°	0° / +3°	0° / +3°
Starting Angle [°]	45	45	45
Torque [Nm]	12.8	5.9	5.9
Swivel time [s]	0.17	0.33	0.5
Operating pressure min. [bar]	2	2	2
Operating pressure max. [bar]	10	10	10
Operating temperature min. [°C]	5	5	5
Operating temperature max. [°C]	+60	+60	+60
Air volume per cycle [cm³]	86	102	124
Weight [kg]	0.8	0.75	0.75

*All data measured at 6 bar

- ① Energy supply
- ② Fixing Rotor
- Ⓑ Air connection (90°/180°/270°-0°)
- Ⓐ Air connection (0°-90°/180°/270°)



ROTARY CYLINDERS

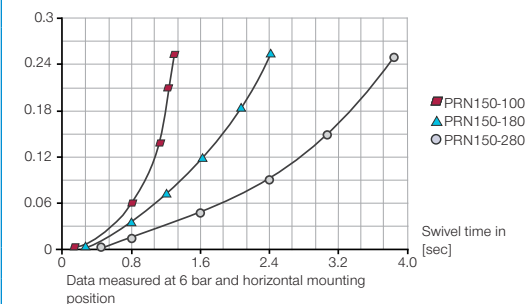
INSTALLATION SIZE PRN150

▶ PRODUCT SPECIFICATIONS



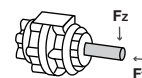
▶ Moment of inertia

[kg m²] Shows the expected swivel time vs the calculated moment of inertia



▶ Forces and moments

Shows the maximum static shaft load.



FY [N]	88
FZ [N]	1170

▶ RECOMMENDED ACCESSORIES



Flange

F150-P



Angle flange

F150-LB



Straight Fittings - Quick Connect Style

GV1-4X8



Flow Control Valves - with Swivel joint

DRV1-4X8



Pressure Safety Valve

DSV1-8

▶ RECOMMENDED ACCESSORY ROTATION LIMITER



Rotation limiter

DB150



Stop Stroke Adjustment Screws

AI-M10X1-70



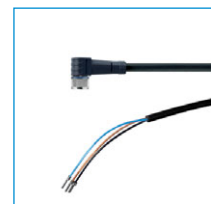
Inductive proximity switch - Cable 5 m

NJ12-E2



Inductive proximity switch - Connector M8

NJ12-E2S



Plug-in connector Angled Cable 5m - Socket M8 (female)

KAW500

▶ RECOMMENDED ACCESSORY OIL DAMPER



Oil damper see page 564

CRN150



Stop Lever 90° / Starting Angle 45°

A150-90-B



Stop Lever 180° / Starting Angle 45°

A150-180-B



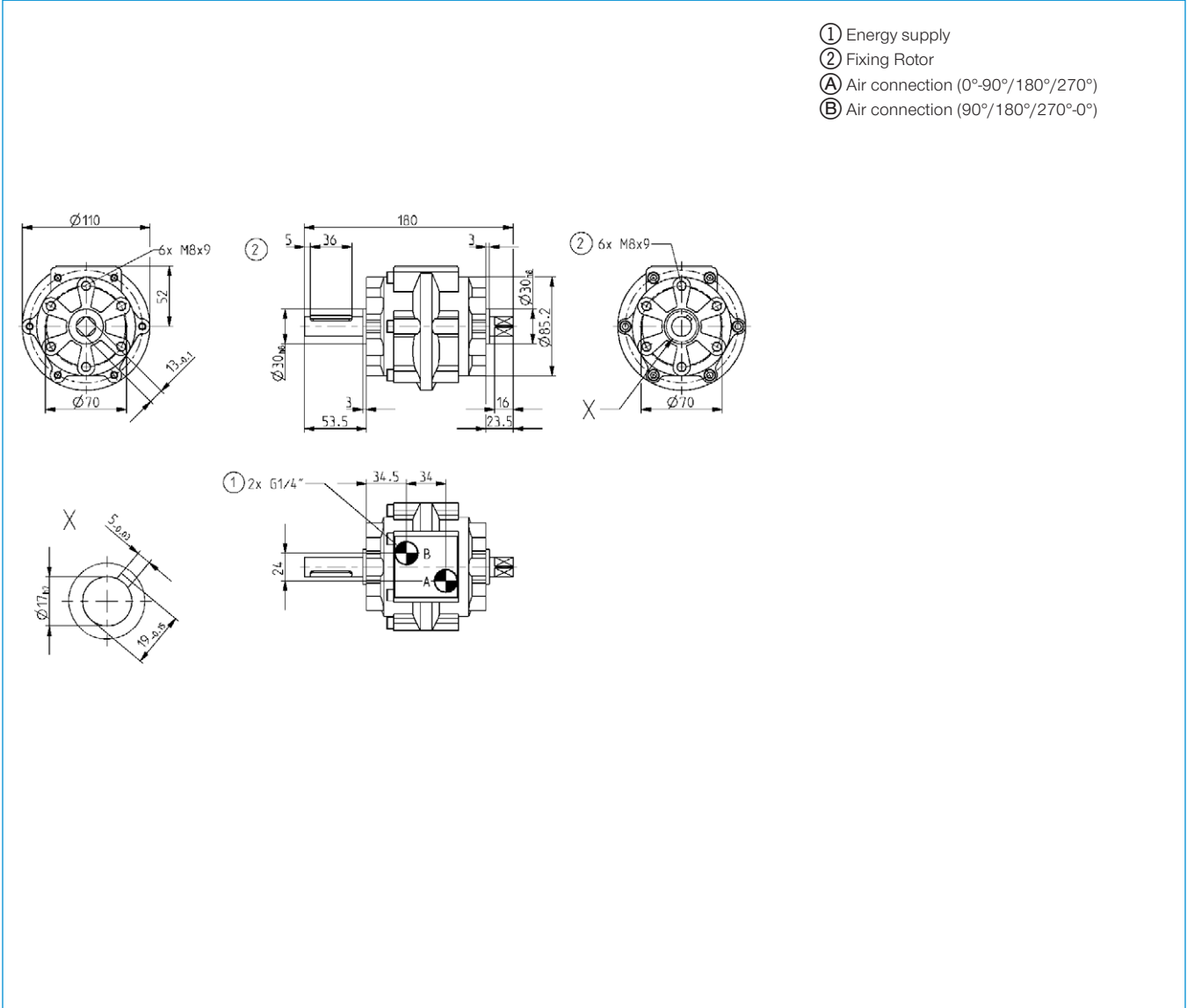
Stop Lever 270° / Starting Angle 45°

A150-270

► **Technical Data***

Order no.	PRN150-90	PRN150-180-B	PRN150-270
Swivel angle [°]	90	180	270
Tolerance swivel angle [°]	0° / +3°	0° / +3°	0° / +3°
Starting Angle [°]	45	45	45
Torque [Nm]	41.5	18	18
Swivel time [s]	0.25	0.38	0.63
Operating pressure min. [bar]	2	2	2
Operating pressure max. [bar]	10	10	10
Operating temperature min. [°C]	5	5	5
Operating temperature max. [°C]	+60	+60	+60
Air volume per cycle [cm³]	246	292	370
Weight [kg]	1.9	1.9	1.6

*All data measured at 6 bar



ROTARY CYLINDERS

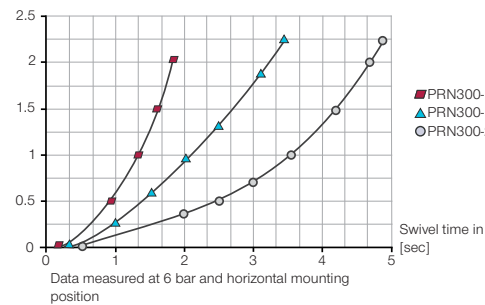
INSTALLATION SIZE PRN300

▶ PRODUCT SPECIFICATIONS



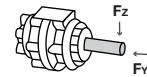
▶ Moment of inertia

[kg m²] Shows the expected swivel time vs the calculated moment of inertia



▶ Forces and moments

Shows the maximum static shaft load.



FY [N]	145
FZ [N]	1950

▶ RECOMMENDED ACCESSORIES



Angle flange

F300-LB



Straight Fittings - Barb Style Connection

GV3-8X131D



Flow Control Valves - in Line

DRV1-4I



Pressure Safety Valve

DSV1-8

▶ RECOMMENDED ACCESSORY ROTATION LIMITER



Rotation limiter

DB300



Stop Stroke Adjustment Screws

AI-M10X1-70



Inductive proximity switch - Cable 5 m

NJ12-E2



Inductive proximity switch - Connector M8

NJ12-E2S



Plug-in connector Angled Cable 5m - Socket M8 (female)

KAW500

▶ RECOMMENDED ACCESSORY OIL DAMPER



Oil damper see page 564

CRN300



Stop Lever 90° / Starting Angle 45°

A300-90-B



Stop Lever 180° / Starting Angle 45°

A300-180-B



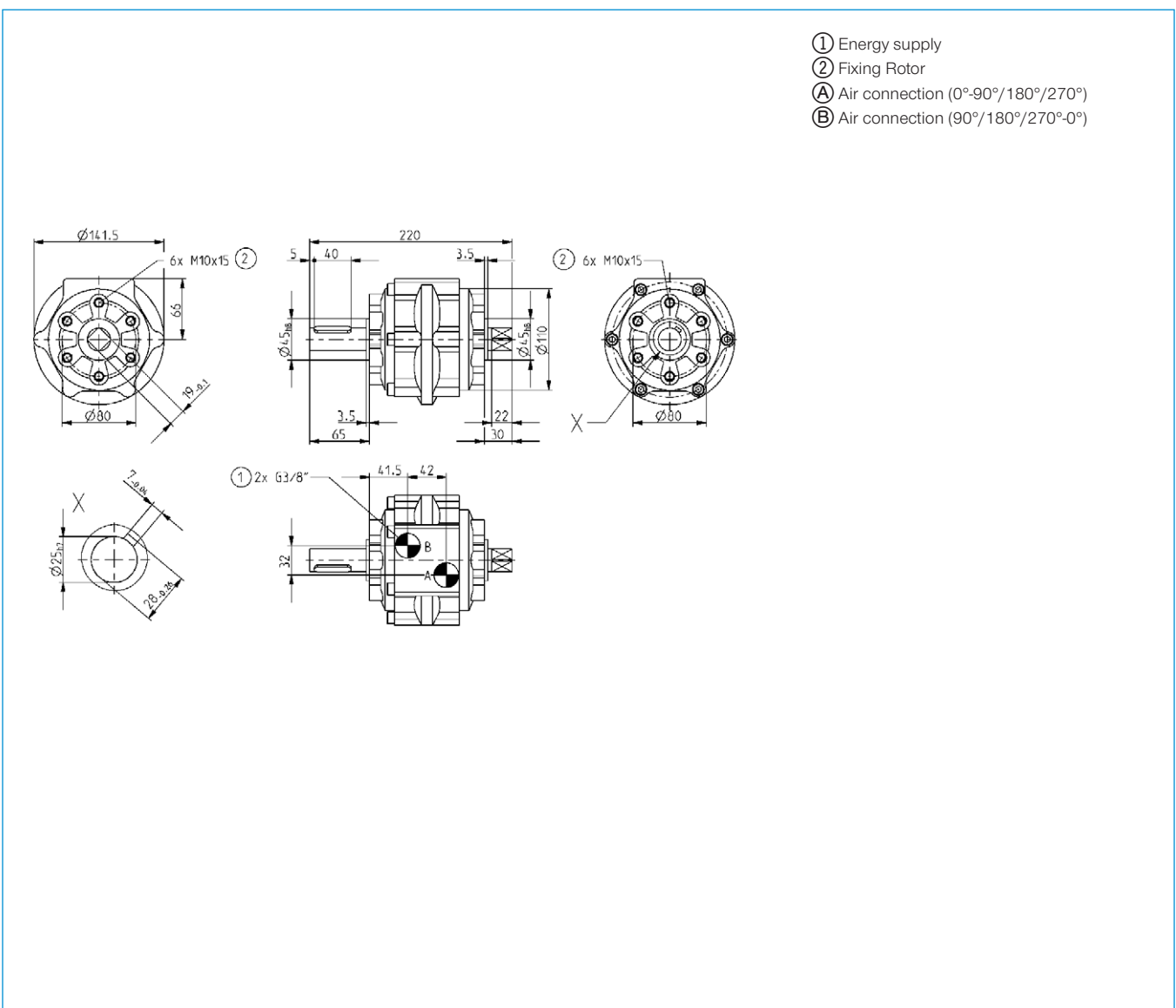
Stop Lever 270° / Starting Angle 45°

A300-270

► Technical Data*

Order no.	PRN300-90	PRN300-180-B	PRN300-270
Swivel angle [°]	90	180	270
Tolerance swivel angle [°]	0° / +3°	0° / +3°	0° / +3°
Starting Angle [°]	45	45	45
Torque [Nm]	83	34.5	34.5
Swivel time [s]	0.33	0.5	0.71
Operating pressure min. [bar]	2	2	2
Operating pressure max. [bar]	10	10	10
Operating temperature min. [°C]	5	5	5
Operating temperature max. [°C]	+60	+60	+60
Air volume per cycle [cm ³]	542	566	730
Weight [kg]	4.1	3.7	3.6

*All data measured at 6 bar



ROTARY CYLINDERS

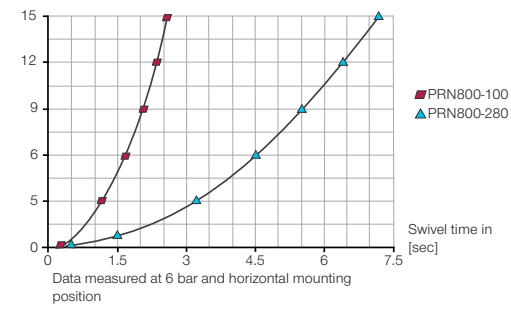
INSTALLATION SIZE PRN800

▶ PRODUCT SPECIFICATIONS



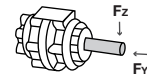
▶ Moment of inertia

[kg m²] Shows the expected swivel time vs the calculated moment of inertia



▶ Forces and moments

Shows the maximum static shaft load.



FY [N]	490
FZ [N]	4900

▶ RECOMMENDED ACCESSORIES



Straight Fittings - Barb Style Connection
GV1-2X13ID



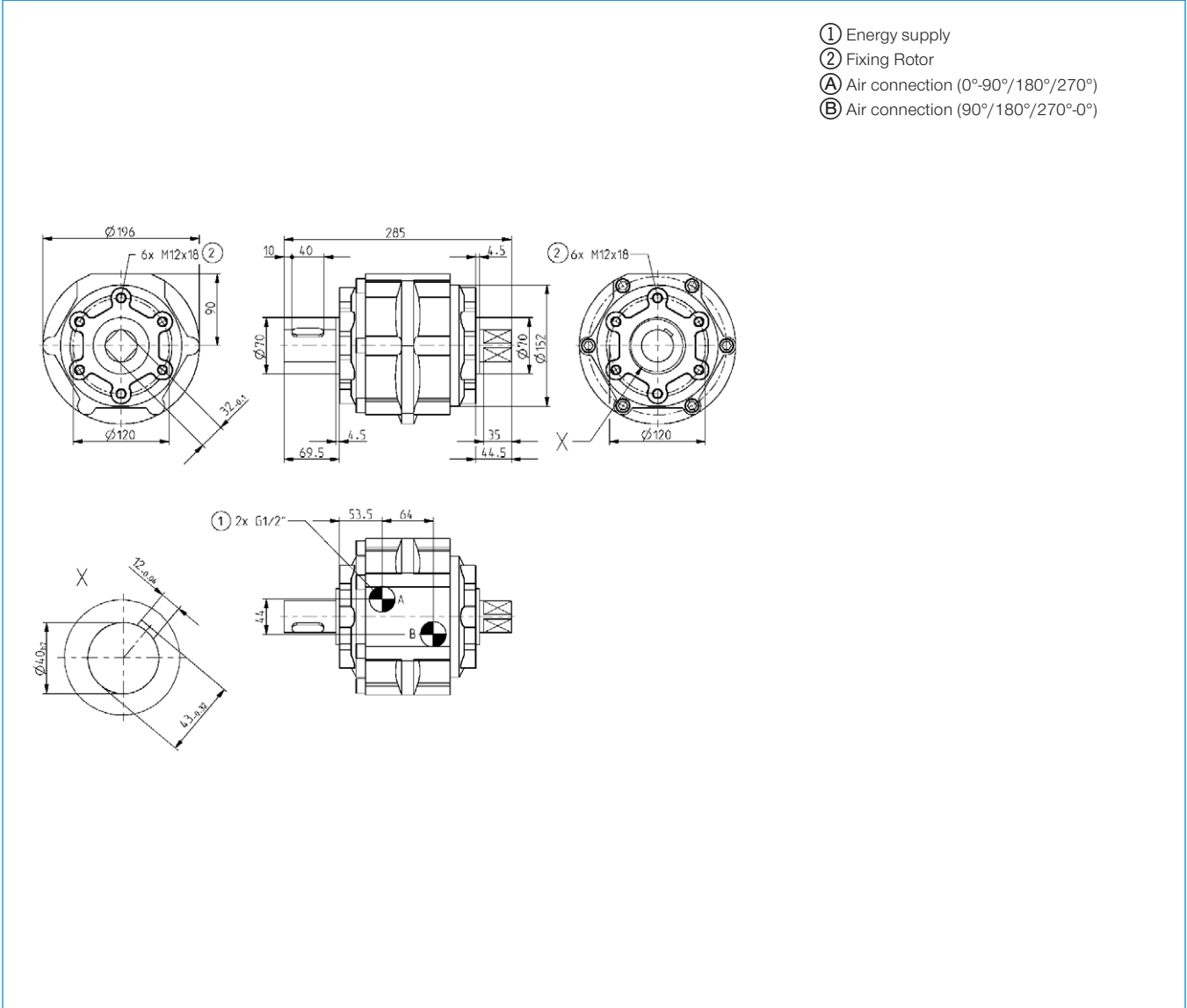
Flow Control Valves - in Line
DRV1-4I



Pressure Safety Valve
DSV1-8

Order no.	► Technical Data*	
	PRN800-90	PRN800-270
Swivel angle [°]	90	270
Tolerance swivel angle [°]	0° / +3°	0° / +3°
Starting Angle [°]	45	45
Torque [Nm]	247	123
Swivel time [s]	0.45	1
Operating pressure min. [bar]	2	2
Operating pressure max. [bar]	10	10
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+60	+60
Air volume per cycle [cm³]	1548	2092
Weight [kg]	12.5	11

*All data measured at 6 bar



ROTARY CYLINDERS

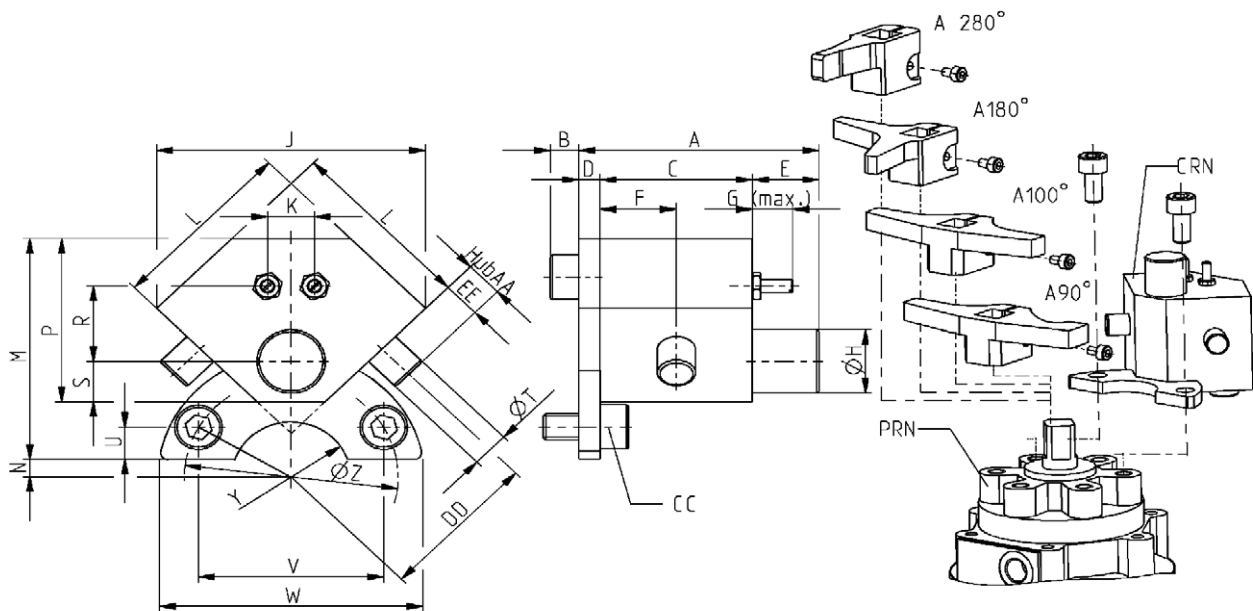
ACCESSORIES SERIES PRN

▶ OIL DAMPER FOR PNEUMATIC ROTOR



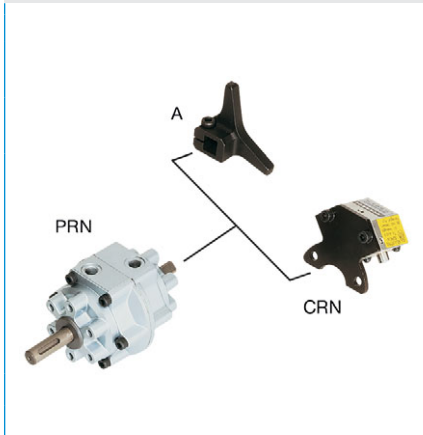
▶ Technical Data

Order no.	CRN50	CRN150	CRN300
suitable for	PRN50	PRN150	PRN300
Brake angle [°]	11	12	14
Energy absorption per stroke max. [Nm]	3	10	20
Energy absorption per stroke max. [Nm/h]	12000	43200	84000
Operating temperature min. [°C]	5	5	5
Operating temperature max. [°C]	50	50	50
Weight [g]	240	420	780



Order no.	A	B	C	D	E	F	G	H	J	K	L	M	N	P	R	S	T	U	V	W	Y	Z	AA	CC	DD	EE
CRN50	50.6	6.0	3.2	4.5	14	16	8.5	Ø14,4	56.6	9.9	40	50	4.0	37	17.0	9.2	Ø8	7.2	39.0	56	R12,5	Ø45	6.5	M6x1x12	34	8
CRN150	56.5	7.2	3.6	4.5	16	18	8.5	Ø18,4	70.7	11.3	50	62	9.5	49	25.5	11.4	Ø10	8.0	60.6	80	R15,0	Ø70	10.0	M8x1,25x16	46	12
CRN300	62.5	7.2	4.2	4.5	16	21	12.0	Ø22,5	91.9	12.7	65	87	8.0	61	33.2	14.1	Ø12	12.0	69.2	95	R22,5	Ø80	15.0	M10x1,5x20	62	18

▶ STOP LEVER FOR OIL DAMPER



▶ STOP LEVER PRN50

Order no.	A50-90-B	A50-180-B	A50-270
Swivel angle [°]	90	180	270

▶ STOP LEVER PRN150

Order no.	A150-90-B	A150-180-B	A150-270
Swivel angle [°]	90	180	270

▶ STOP LEVER PRN300

Order no.	A300-90-B	A300-180-B	A300-270
Swivel angle [°]	90	180	270

ROTARY CYLINDERS

SERIES SH

▶ PRODUCT ADVANTAGES



“The flexible”

▶ Movable to four positions

The two separately or jointly controlled rotors provide you with the greatest flexibility in positioning your workpieces

▶ High torque rating

The optimal ratio of installation space and torque reduces interference contours and creates precious space in your application

▶ 360° swivel angle

Do you want your application to be flexible and individualised? The infinitely variable 360° adjustable swivel angle lets you!

▶ THE BEST PRODUCT FOR YOUR APPLICATION



▶ Our products love the challenge!

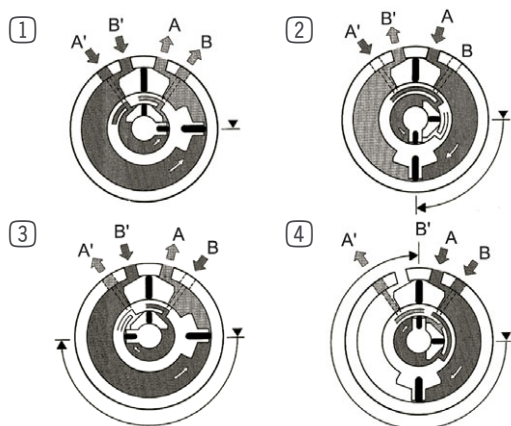
Extreme conditions, all over the world—our tried and tested components and systems give you limitless possibilities:

Find the best product for your specific use:

www.zimmer-group.com



► BENEFITS IN DETAIL



- 1 0-position**
 - High-pressure air in 1B and 2B: Internal- and external blades go to the 0-position
- 2 First 90°-intermediate adjustment**
 - High-pressure air A and A': The external blade swivel up to the external limit stop (Stopper) at 90 °.
- 3 Second 90°-intermediate setting**
 - High-pressure air B and B': The external blade swivels with the internal 90° limit stop to the 0-position. The internal blade swivel 180° set opposite each other.
- 4 Third 90°-intermediate adjustment**
 - High-pressure air A and B: The external blade swivels with the internal blade in the movement direction at 90°.

► SERIES CHARACTERISTICS



Number of installation sizes	2
Swivel angle	360°
Torque	0,59 Nm - 7,2 Nm
Weight	0,52 kg - 1,13 kg
AP class	1



Positionability - 4 positions



Adjustable swivel angle



IP 54

IP54



1.5 million maintenance-free cycles (max.)

ROTARY CYLINDERS

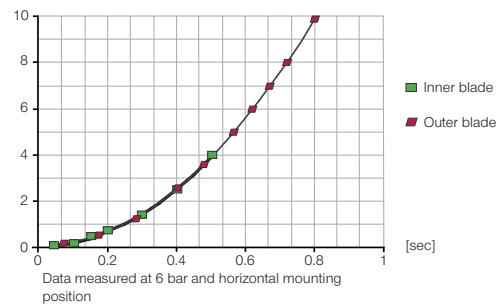
INSTALLATION SIZE SH-5

▶ PRODUCT SPECIFICATIONS



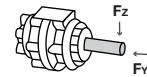
▶ Moment of inertia

[kg cm²] Shows the expected swivel time vs the calculated moment of inertia



▶ Forces and moments

Shows the maximum static shaft load.



FY [N]	30
FZ [N]	60

▶ RECOMMENDED ACCESSORIES



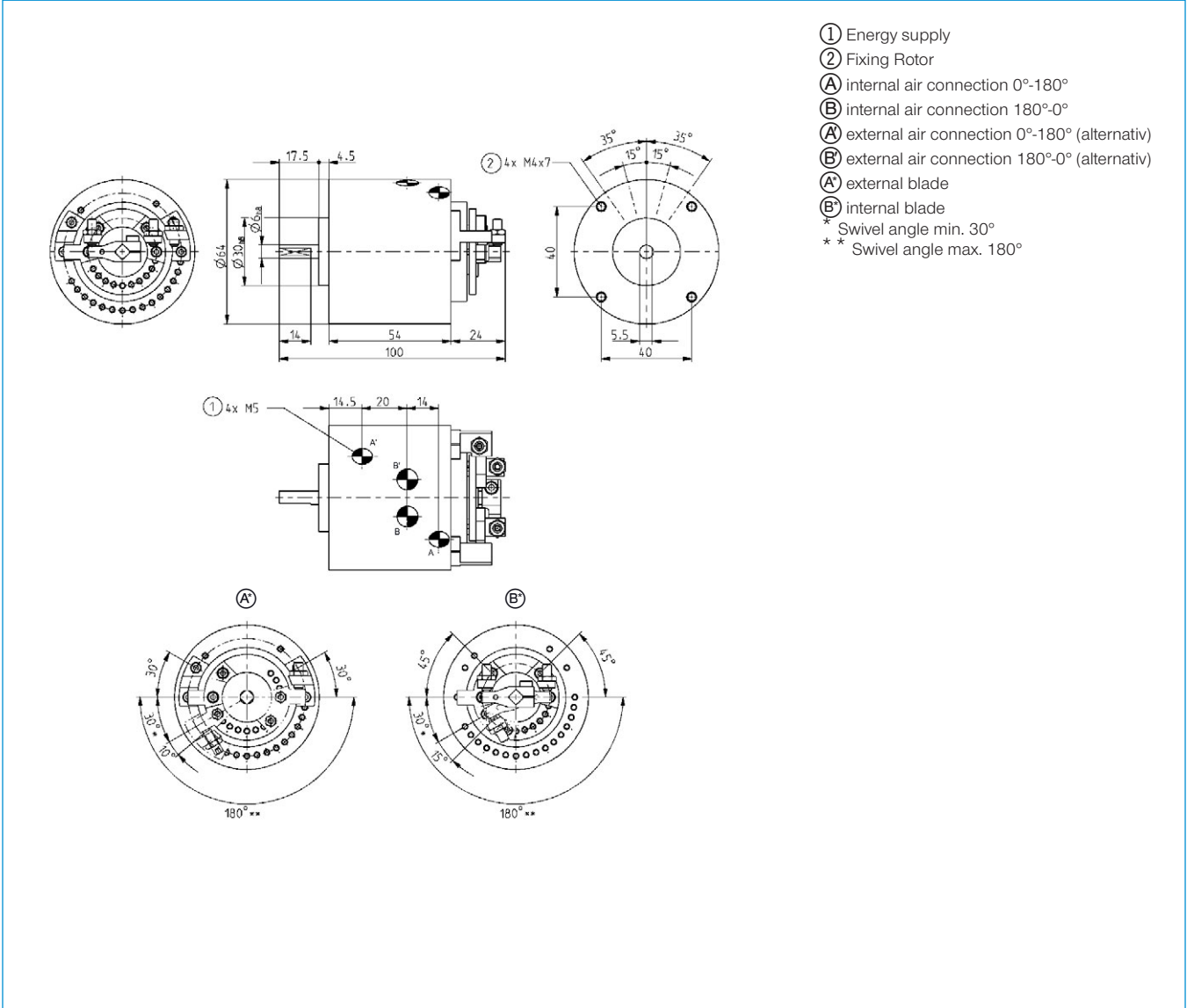
Straight Fittings - Quick Connect Style
GVM5



Flow Control Valves - with Swivel joint
DRVM5X4

Order no.	SH-5
Swivel angle [°]	360
Torque outer blade [Nm]	2.73
Torque inner blade [Nm]	0.59
Swivel time outer blade [s]	0.8
Swivel time inner blade [s]	0.5
Repetition accuracy +/- [°]	3
Operating pressure min. [bar]	3
Operating pressure max. [bar]	7
Air volume per cycle outer blade [cm³]	14
Air volume per cycle inner blade [cm³]	56
Weight [kg]	0.52

*All data measured at 6 bar



- ① Energy supply
- ② Fixing Rotor
- Ⓐ internal air connection 0°-180°
- Ⓑ internal air connection 180°-0°
- Ⓐ external air connection 0°-180° (alternativ)
- Ⓑ external air connection 180°-0° (alternativ)
- Ⓐ external blade
- Ⓑ internal blade
- * Swivel angle min. 30°
- ** Swivel angle max. 180°

ROTARY CYLINDERS

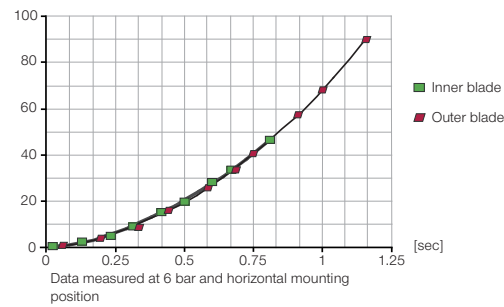
INSTALLATION SIZE SH-20

▶ PRODUCT SPECIFICATIONS



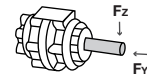
▶ Moment of inertia

[kg cm²] Shows the expected swivel time vs the calculated moment of inertia



▶ Forces and moments

Shows the maximum static shaft load.



FY [N]	125
FZ [N]	255

▶ RECOMMENDED ACCESSORIES



Straight Fittings - Quick Connect Style
GV1-8X6

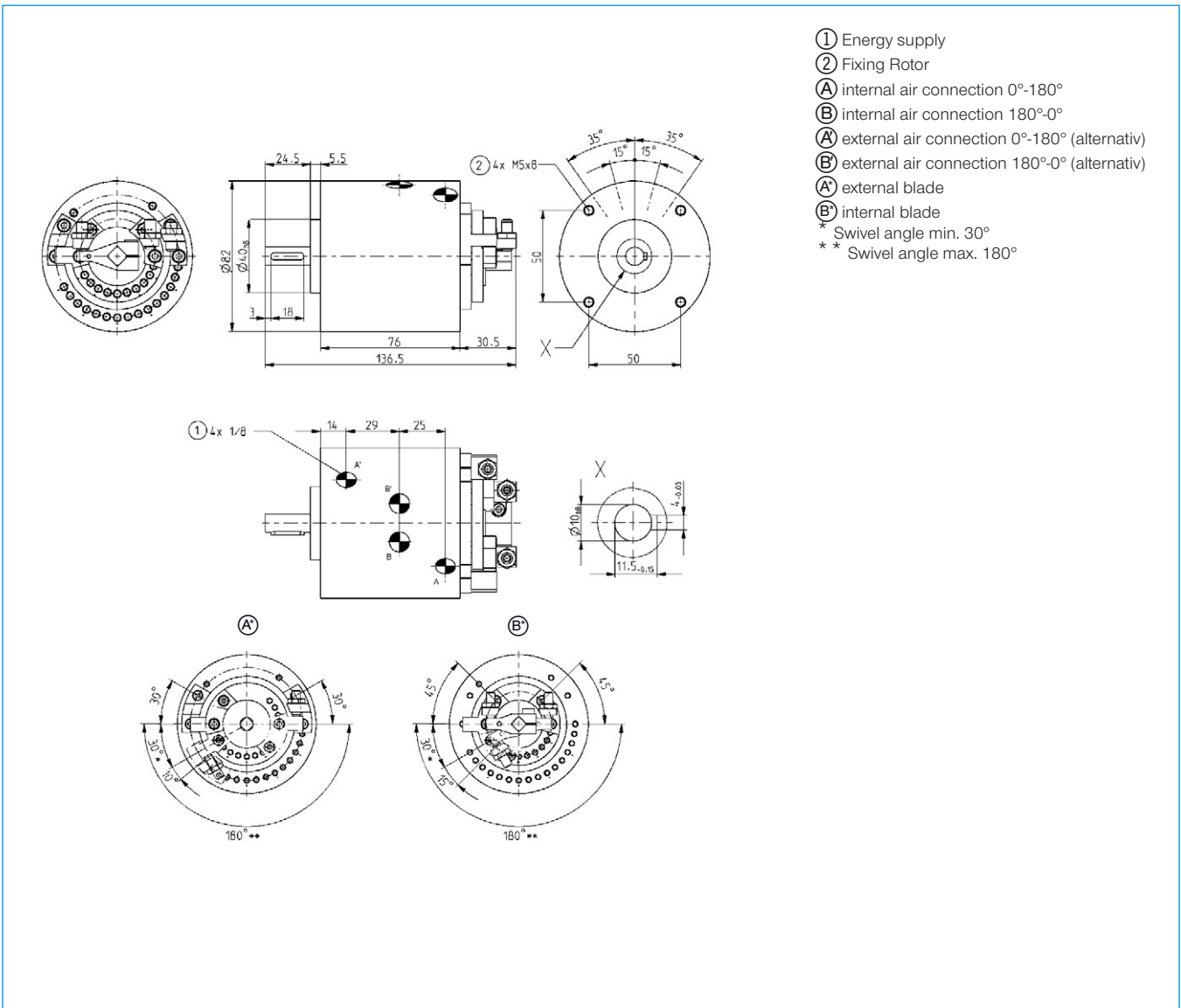


Flow Control Valves - with Swivel joint
DRV1-8X6

Order no.	SH-20
Swivel angle [°]	360
Torque outer blade [Nm]	7.2
Torque inner blade [Nm]	2.35
Swivel time outer blade [s]	1.1
Swivel time inner blade [s]	0.8
Repetition accuracy +/- [°]	3
Operating pressure min. [bar]	3
Operating pressure max. [bar]	7
Air volume per cycle outer blade [cm³]	72
Air volume per cycle inner blade [cm³]	23
Weight [kg]	1.13

*All data measured at 6 bar

► Technical Data*



FLAT SWIVEL UNITS

OVERVIEW OF SERIES

**▶ PNEUMATIC**

Series MSF

574



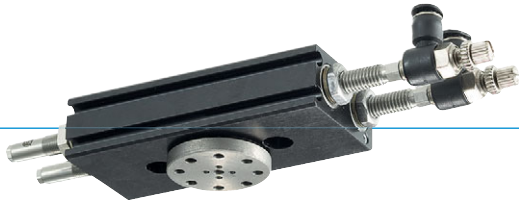
Series SF-C

582

FLAT SWIVEL UNITS

SERIES MSF

▶ PRODUCT ADVANTAGES



“The unique”

▶ Decide for yourself!

Flange connection or journal shaft, with or without shock absorbers: The multitude of variants ensure you always find what you need

▶ Flat structure

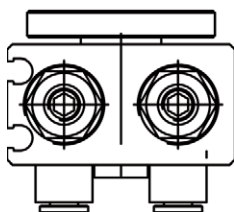
Thanks to the reverse double piston drive, the unit can work in operations requiring flat conditions. This is how you can build your application to save more space

▶ Infinitely adjustable swivel angle

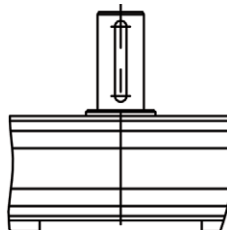
Become flexible and unique with the completely adjustable swivel angle that also reduces set up times

▶ VERSIONS

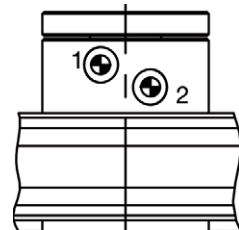
-F001



-F002



-D2



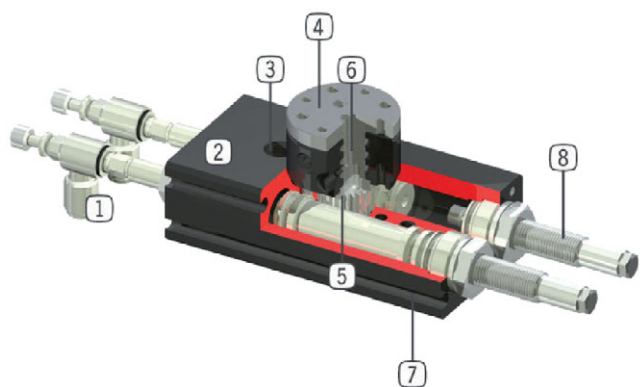
HOW TO ORDER CORRECTLY

▶ The product order numbers are arranged according to this diagram:

Order no.	MSF40	<input type="checkbox"/>	<input type="checkbox"/>
Without shock absorber	N		
With shock absorber	S		
Tool holder via flange			-F001
Tool holder via shaft extension			-F002
Tool holder via flange with integrated 2-way rotary distributor			-D2



► BENEFITS IN DETAIL



- ① **Air flow control valve**
 - for speed regulation
 - included in scope of delivery
- ② **Robust, lightweight housing**
 - Hard-coated aluminum alloy
- ③ **Mounting and positioning**
 - mounting possible from several sides for versatile positioning
- ④ **Tool intake**
 - with shaft extension or flange available
- ⑤ **Force transfer**
 - rack and pinion
- ⑥ **Up to 2 way integrated air feed-through**
 - for hoseless air transfer
 - hose package does not have to be pivoted
- ⑦ **Sensing slot**
 - mounting and positioning of magnetic field sensors
- ⑧ **Integrated shock absorbers with spiral groove technology**
 - adjustable end position damping

► SERIES CHARACTERISTICS



Number of installation sizes	3
Swivel angle	90° - 180°
Torque	0,3 Nm - 1,2 Nm
Weight	0,17 kg - 0,46 kg
AP class	2



Elastomer end position damping



Powerstop end position damping



fluid feed-through



Magnetic field sensor



Positionability - 2 positions



Adjustable swivel angle



IP41



10 million maintenance-free cycles (max.)

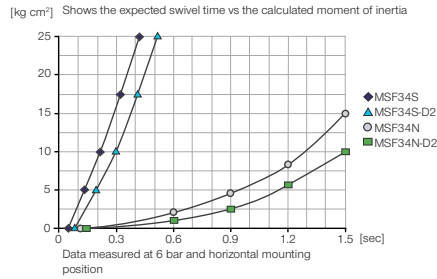
FLAT SWIVEL UNITS

INSTALLATION SIZE MSF34

▶ PRODUCT SPECIFICATIONS



▶ Moment of inertia



▶ INCLUDED IN DELIVERY



Flow Control Valves - with Swivel joint
DRVM3X4



Centering Disc
DST40800

▶ RECOMMENDED ACCESSORIES



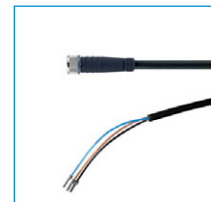
Magnetic field sensor Angled Cable 0,3 m - Connector M8
MFS103SKHC



Magnetic field sensor Straight Cable 0,3 m - Connector M8
MFS204SKHC



2-Position-Sensor Cable 0,3 m - Connector M8
MFSP2SKHC-02



Plug-in connector Straight Cable 5m - Socket M8 (female)
KAG500



Plug-in connector Angled Cable 5m - Socket M8 (female)
KAW500



Plug-in connector customizable Straight - Connector M8
S8-G-3



Plug-in connector customizable Straight - Connector M12
S12-G-3



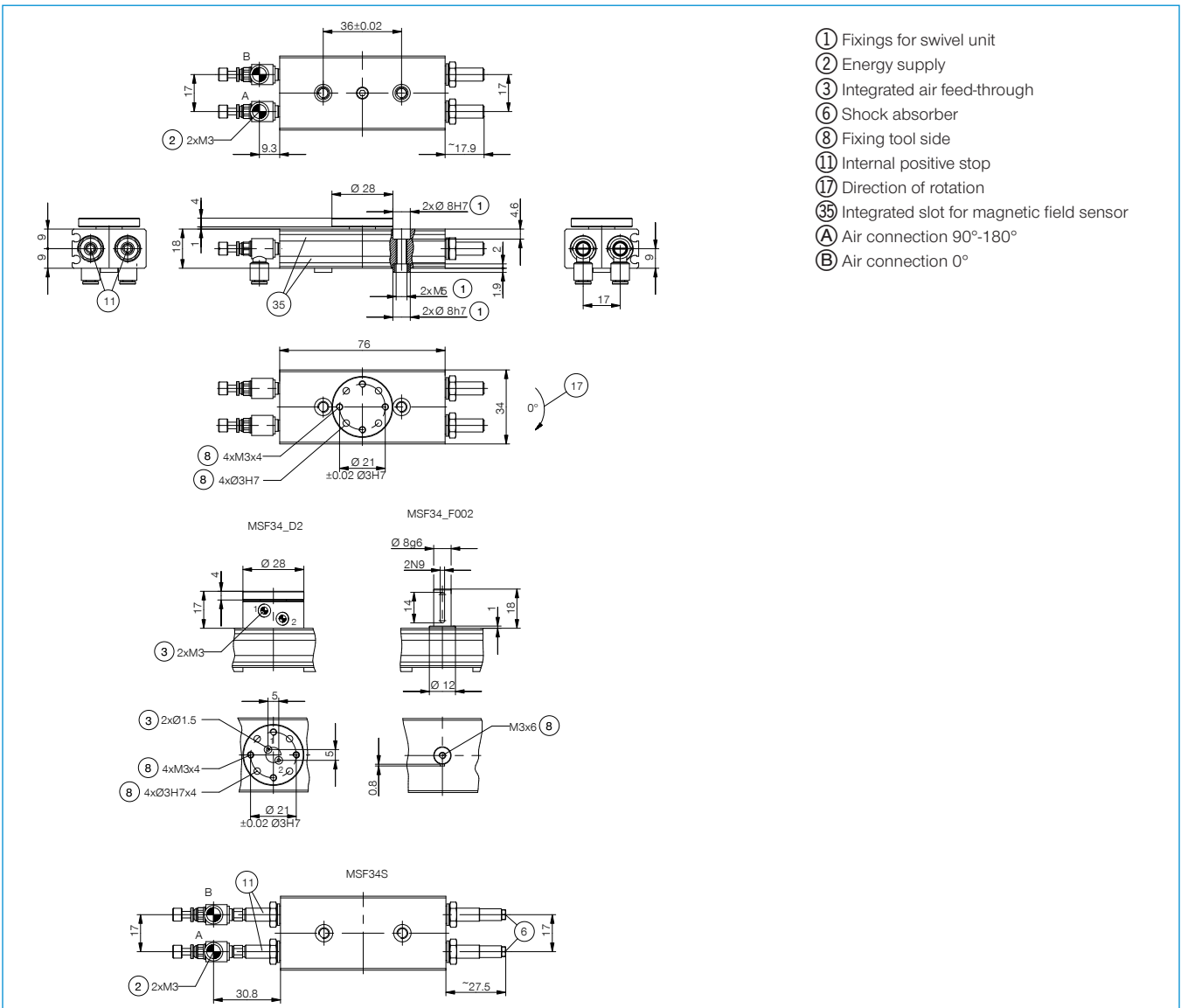
Straight Fittings - Barb Style Connection
GVM3



Pressure Safety Valve
DSV1-8

Order no.	▶ Technical Data*					
	MSF34N-F001	MSF34S-F001	MSF34N-F002	MSF34S-F002	MSF34N-D2	MSF34S-D2
Swivel angle [°]	90-180	90-180	90-180	90-180	90-180	90-180
Torque [Nm]	0.4	0.4	0.4	0.4	0.3	0.3
End position damping by	Elastomer	PowerStop	Elastomer	PowerStop	Elastomer	PowerStop
Tool holder via	Flange	Flange	Shaft extension	Shaft extension	Flange	Flange
Repetition accuracy +/- [°]	0.07	0.01	0.07	0.01	0.07	0.01
Air feed-through [Quantity]	0	0	0	0	2	2
Axial bearing load [N]	215	215	215	215	215	215
Radial bearing load [Nm]	5.5	5.5	5.5	5.5	5.5	5.5
Operating pressure min. [bar]	3	3	3	3	3	3
Operating pressure max. [bar]	8	8	8	8	8	8
Operating temperature min. [°C]	5	5	5	5	5	5
Operating temperature max. [°C]	+80	+80	+80	+80	+80	+80
Air volume per cycle 90° [cm³]	3	3	3	3	3	3
Air volume per cycle 180° [cm³]	6	6	6	6	6	6
Weight [kg]	0.17	0.18	0.17	0.18	0.2	0.21

*All data measured at 6 bar



FLAT SWIVEL UNITS

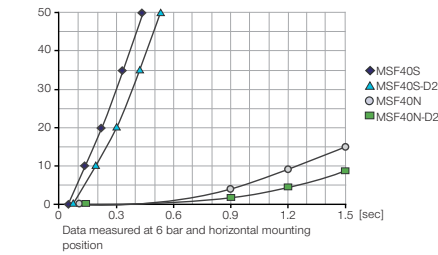
INSTALLATION SIZE MSF40

▶ PRODUCT SPECIFICATIONS



▶ Moment of inertia

[kg cm²] Shows the expected swivel time vs the calculated moment of inertia



▶ INCLUDED IN DELIVERY



Flow Control Valves - with Swivel joint

DRVM3X4



Centering Disc

DST40800

▶ RECOMMENDED ACCESSORIES



Magnetic field sensor Angled Cable 0,3 m - Connector M8

MFS103SKHC



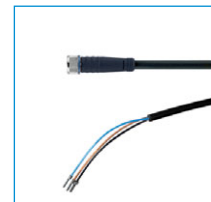
Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



2-Position-Sensor Cable 0,3 m - Connector M8

MFSP2SKHC-02



Plug-in connector Straight Cable 5m - Socket M8 (female)

KAG500



Plug-in connector Angled Cable 5m - Socket M8 (female)

KAW500



Plug-in connector customizable Straight - Connector M8

S8-G-3



Plug-in connector customizable Straight - Connector M12

S12-G-3



Straight Fittings - Barb Style Connection

GVM3

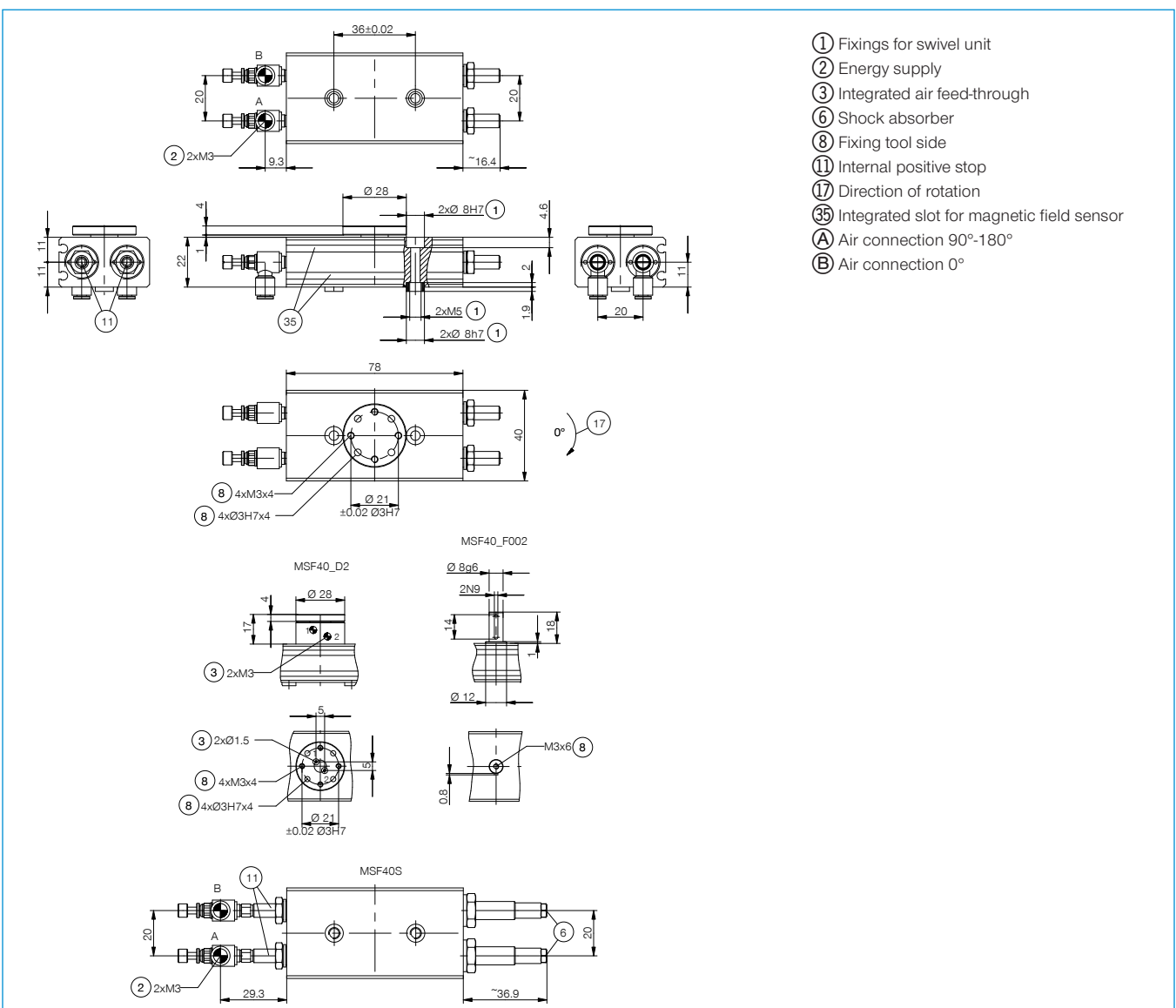


Pressure Safety Valve

DSV1-8

Order no.	▶ Technical Data*					
	MSF40N-F001	MSF40S-F001	MSF40N-F002	MSF40S-F002	MSF40N-D2	MSF40S-D2
Swivel angle [°]	90-180	90-180	90-180	90-180	90-180	90-180
Torque [Nm]	0.7	0.7	0.7	0.7	0.6	0.6
End position damping by	Elastomer	PowerStop	Elastomer	PowerStop	Elastomer	PowerStop
Tool holder via	Flange	Flange	Shaft extension	Shaft extension	Flange	Flange
Repetition accuracy +/- [°]	0.07	0.01	0.07	0.01	0.07	0.01
Air feed-through [Quantity]	0	0	0	0	2	2
Axial bearing load [N]	215	215	215	215	215	215
Radial bearing load [Nm]	7	7	7	7	7	7
Operating pressure min. [bar]	3	3	3	3	3	3
Operating pressure max. [bar]	8	8	8	8	8	8
Operating temperature min. [°C]	5	5	5	5	5	5
Operating temperature max. [°C]	+80	+80	+80	+80	+80	+80
Air volume per cycle 90° [cm³]	4.3	4.3	4.3	4.3	4.3	4.3
Air volume per cycle 180° [cm³]	8.6	8.6	8.6	8.6	8.6	8.6
Weight [kg]	0.26	0.27	0.26	0.27	0.28	0.29

*All data measured at 6 bar



- ① Fixings for swivel unit
- ② Energy supply
- ③ Integrated air feed-through
- ⑥ Shock absorber
- ⑧ Fixing tool side
- ⑪ Internal positive stop
- ⑰ Direction of rotation
- ⑳ Integrated slot for magnetic field sensor
- A Air connection 90°-180°
- B Air connection 0°

FLAT SWIVEL UNITS

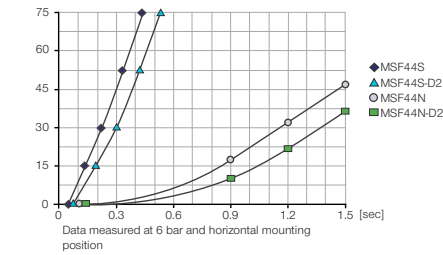
INSTALLATION SIZE MSF44

▶ PRODUCT SPECIFICATIONS



▶ Moment of inertia

[kg cm²] Shows the expected swivel time vs the calculated moment of inertia



▶ INCLUDED IN DELIVERY



Flow Control Valves - with Swivel joint
DRVM3X4



Centering Disc
DST40800

▶ RECOMMENDED ACCESSORIES



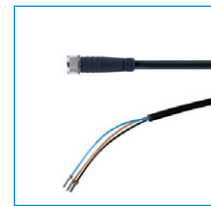
Magnetic field sensor Angled Cable 0,3 m - Connector M8
MFS103SKHC



Magnetic field sensor Straight Cable 0,3 m - Connector M8
MFS204SKHC



2-Position-Sensor Cable 0,3 m - Connector M8
MFSP2SKHC-02



Plug-in connector Straight Cable 5m - Socket M8 (female)
KAG500



Plug-in connector Angled Cable 5m - Socket M8 (female)
KAW500



Plug-in connector customizable Straight - Connector M8
S8-G-3



Plug-in connector customizable Straight - Connector M12
S12-G-3



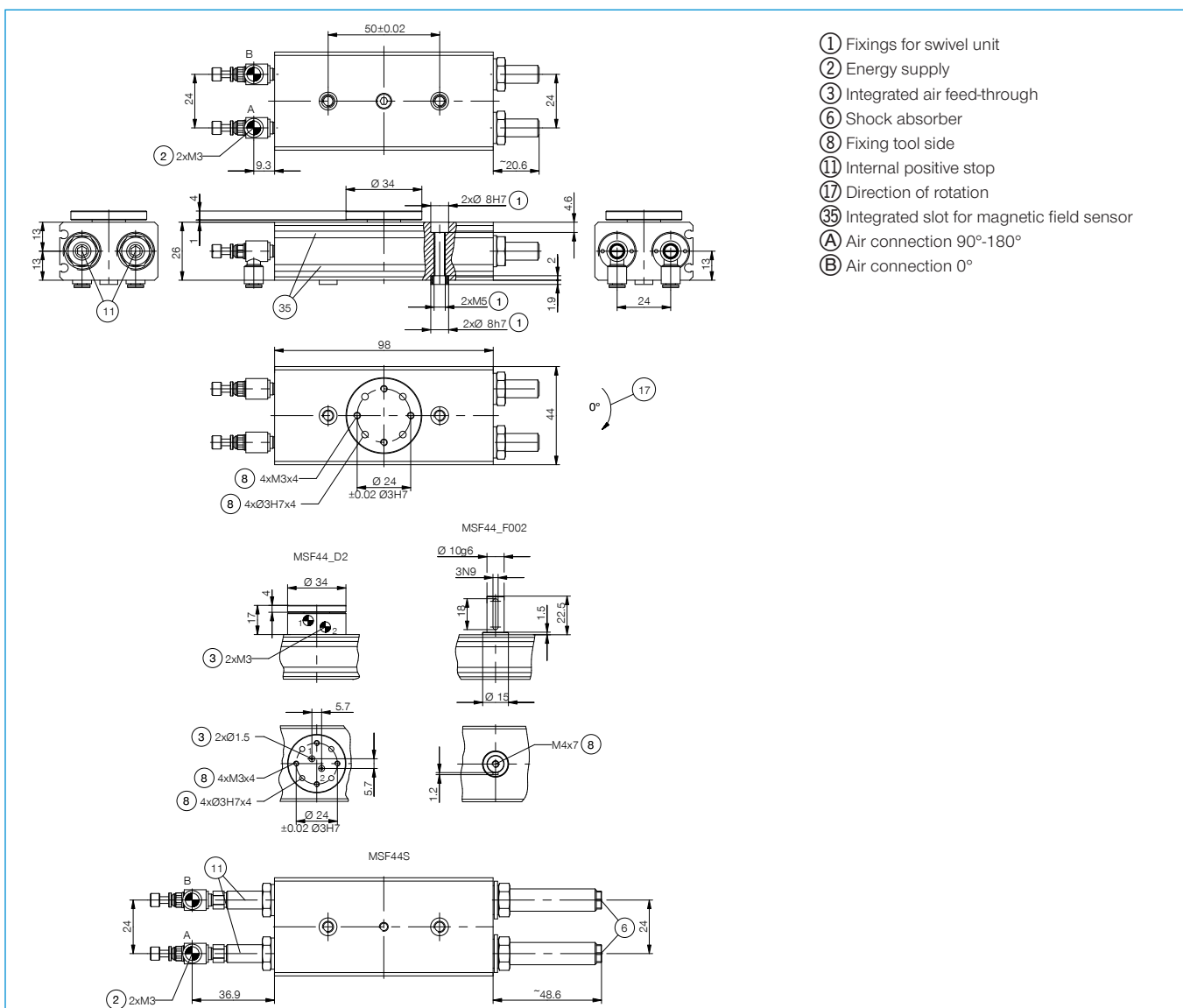
Straight Fittings - Barb Style Connection
GVM3



Pressure Safety Valve
DSV1-8

Order no.	► Technical Data*					
	MSF44N-F001	MSF44S-F001	MSF44N-F002	MSF44S-F002	MSF44N-D2	MSF44S-D2
Swivel angle [°]	90-180	90-180	90-180	90-180	90-180	90-180
Torque [Nm]	1.2	1.2	1.2	1.2	1	1
End position damping by	Elastomer	PowerStop	Elastomer	PowerStop	Elastomer	PowerStop
Tool holder via	Flange	Flange	Shaft extension	Shaft extension	Flange	Flange
Repetition accuracy +/- [°]	0.07	0.01	0.07	0.01	0.07	0.01
Air feed-through [Quantity]	0	0	0	0	2	2
Axial bearing load [N]	520	520	520	520	520	520
Radial bearing load [Nm]	19	19	19	19	19	19
Operating pressure min. [bar]	3	3	3	3	3	3
Operating pressure max. [bar]	8	8	8	8	8	8
Operating temperature min. [°C]	5	5	5	5	5	5
Operating temperature max. [°C]	+80	+80	+80	+80	+80	+80
Air volume per cycle 90° [cm³]	7.7	7.7	7.7	7.7	7.7	7.7
Air volume per cycle 180° [cm³]	15.4	15.4	15.4	15.4	15.4	15.4
Weight [kg]	0.41	0.42	0.41	0.42	0.45	0.46

*All data measured at 6 bar



FLAT SWIVEL UNITS

SERIES SF-C

▶ PRODUCT ADVANTAGES



“The superior”

▶ Up to 100% more performance than the benchmark

Superior end position damping lets you swivel more mass in the shortest amount of time, increasing your machine's component output

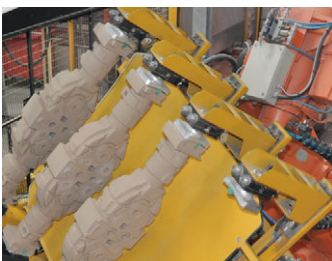
▶ Large centre bore

Reduce the interference contours in your application by placing your power supply line directly through the middle of the rotary flange

▶ More than 100% higher radial bearing load than the benchmark

The generously scaled bearings stand for robustness and long service life and provide the highest process reliability for your application

▶ THE BEST PRODUCT FOR YOUR APPLICATION



▶ Our products love the challenge!

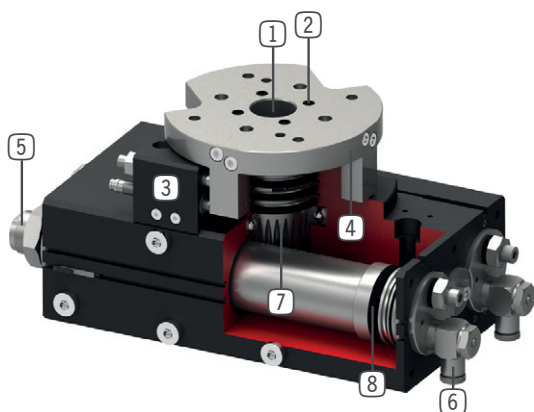
Extreme conditions, all over the world—our tried and tested components and systems give you limitless possibilities:

Find the best product for your specific use:

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► BENEFITS IN DETAIL



- ① **Two way ball bearing hollow shaft**
 - for feedthrough cables and hoses
 - high forces and moments capacity
- ② **Up to 8 way integrated air feed-through**
 - for hoseless air transfer
 - hose package does not have to be pivoted
- ③ **Adjustable end position**
 - +/- 3° adjustable end position
- ④ **Large, precise locating flange**
 - simple tool connection
- ⑤ **Integrated shock absorbers with spiral groove technology**
 - adjustable end position damping
 - heating is prevented through installation in pneumatic pressure chamber
- ⑥ **Air flow control valve**
 - for speed regulation (included in the delivery)
- ⑦ **Force transfer**
 - rack and pinion
- ⑧ **Drive**
 - two double-acting pneumatic cylinders
 - high torque rating

► SERIES CHARACTERISTICS



Number of installation sizes	6
Swivel angle	0° - 180°
Torque	1,5 Nm - 130 Nm
Weight	0,6 kg - 41,1 kg
AP class	3



Powerstop end position damping



fluid feed-through



Inductive sensor



Magnetic field sensor



Positionability - 2 positions



Positionability - 3 positions



Adjustable swivel angle



IP64



10 million maintenance-free cycles (max.)

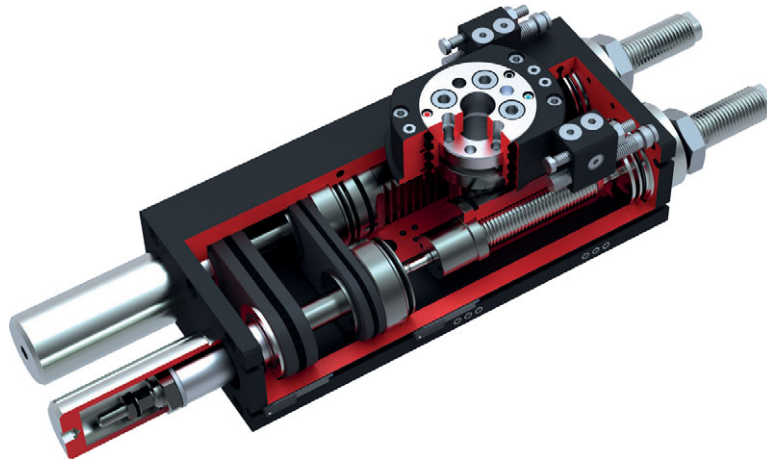
FLAT SWIVEL UNITS

SF SERIES

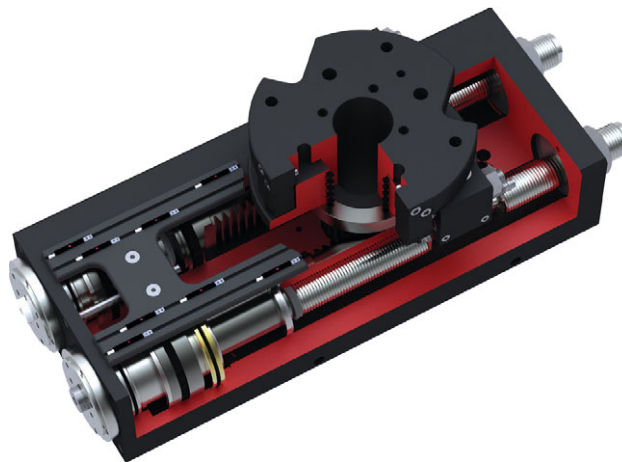
▶ HOW TO ORDER CORRECTLY

Order no.	<input type="checkbox"/>	SF	<input type="checkbox"/>	<input type="checkbox"/>	-C
Clean room class 5	R				
Flat swivel units					
Installation size			50		
Installation size			74		
Installation size			100		
Installation size			125		
Installation size			155		
Installation size			195		
Swivel angle 0° - 180°, infinitely variable				N	
Integrated hoseless pneumatic feed-through, 4-way				D4	
Integrated hoseless pneumatic feed-through, 6-way				D6	
Integrated hoseless pneumatic feed-through, 8-way				D8	
Rotation angle 90°				-90N	
Integrated hoseless pneumatic feed-through, 4-way				-90D4	
Integrated hoseless pneumatic feed-through, 6-way				-90D6	
Integrated hoseless pneumatic feed-through, 8-way				-90D8	
Rotation angle 180°				-180N	
Integrated hoseless pneumatic feed-through, 4-way				-180D4	
Integrated hoseless pneumatic feed-through, 6-way				-180D6	
Integrated hoseless pneumatic feed-through, 8-way				-180D8	
Version: ML (Size SF50 / SF74 / SF100)					
<ul style="list-style-type: none"> ▶ At -90° and +90° position, mechanical and shock-absorbed fixed stop ▶ 0° position is not locked, as opposed to the M version ▶ For these units, the driven pistons move against dominant limit stop pistons and, like for the locked center position, undergo shock absorption while moving into end position ▶ Simplified activation for horizontal rotary movements 					
Swivel angle -90° - 0° - +90°				ML	
Integrated hoseless pneumatic feed-through, 4-way				MLD4	
Integrated hoseless pneumatic feed-through, 6-way				MLD6	
Integrated hoseless pneumatic feed-through, 8-way				MLD8	
Version: M (Size SF125 / SF155 / SF195)					
<ul style="list-style-type: none"> ▶ All three positions for mechanical and shock-mounted fixed stop ▶ 0° center position using two stopper pistons with integrated shock absorbers ▶ A mechanical fixed stop is generated using ratchet bolts that are pushed through arrester pistons into the ring groove of the stopper piston 					
Swivel angle -90° - 0° - +90°				M	
Integrated hoseless pneumatic feed-through, 4-way				MD4	
Integrated hoseless pneumatic feed-through, 6-way				MD6	
Integrated hoseless pneumatic feed-through, 8-way				MD8	

▶ VERSION: ML (SIZE SF50 / SF74 / SF100)



▶ VERSION: M (SIZE SF125 / SF155 / SF195)



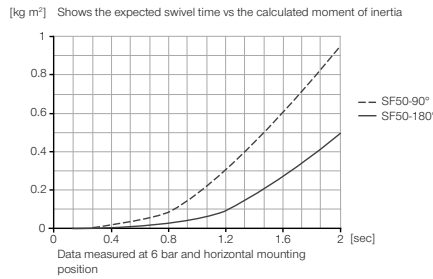
FLAT SWIVEL UNITS

INSTALLATION SIZE SF50N-C

▶ PRODUCT SPECIFICATIONS



▶ Moment of inertia



▶ INCLUDED IN DELIVERY



Flow Control Valves - with Swivel joint
DRVM5X4

▶ RECOMMENDED ACCESSORIES



2-Position-Sensor Cable
0,3 m - Connector M8
MFSP2SKHC-02



Magnetic field sensor
Straight Cable 0,3 m -
Connector M8
MFS204SKHC



Plug-in connector Straight
Cable 5m - Socket M8
(female)
KAG500



Plug-in connector
customizable Straight -
Connector M8
S8-G-3



Pressure Safety Valve
DSV1-8

▶ RECOMMENDED ACCESSORY ATTACHMENT KIT



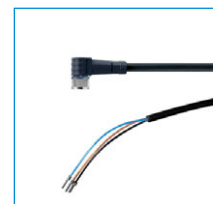
Attachment Kit
ANS0006



Inductive proximity switch
- Cable 5 m
NJ8-E2



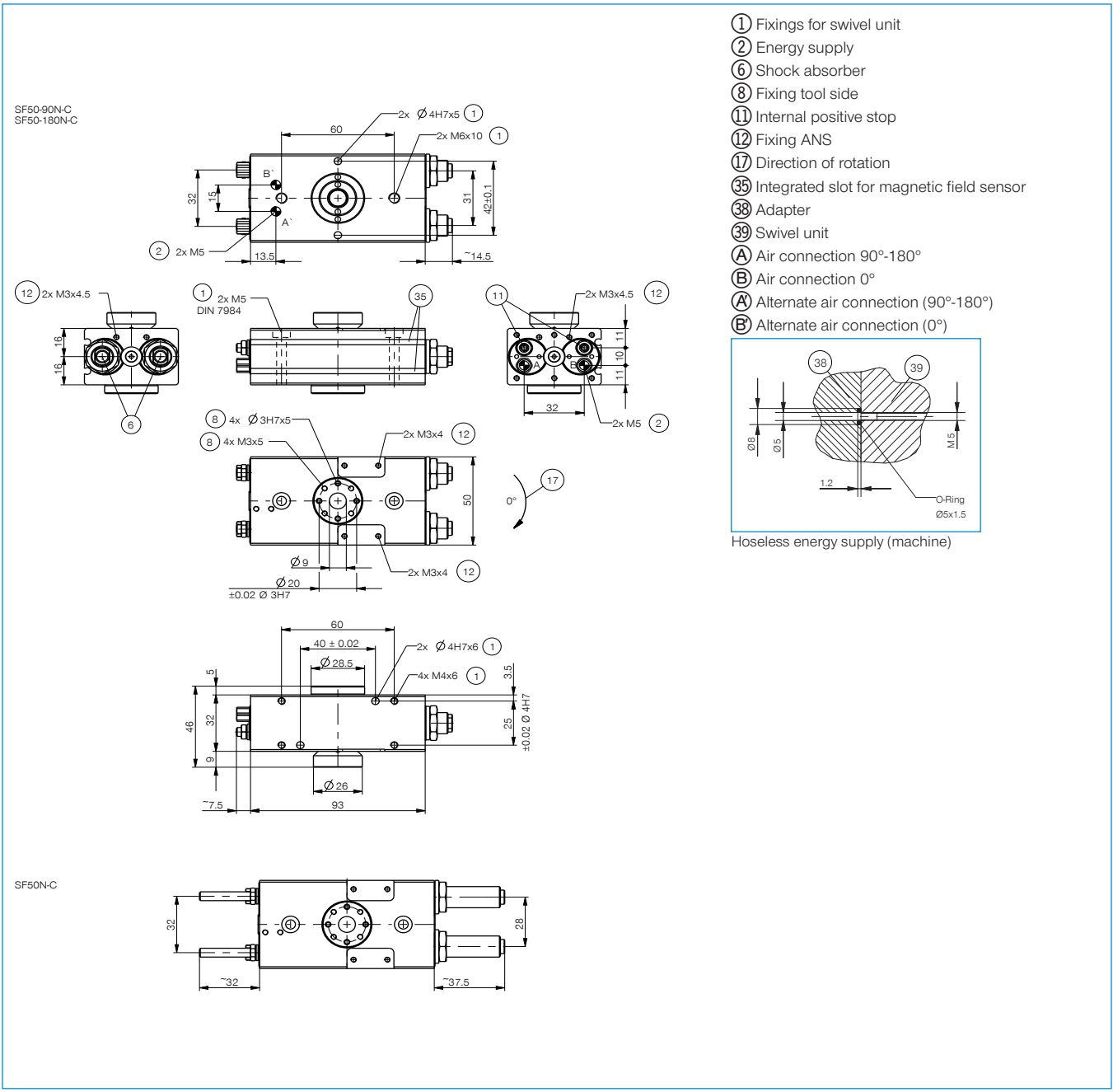
Inductive proximity switch
- Connector M8
NJ8-E2S



Plug-in connector Angled
Cable 5m - Socket M8
(female)
KAW500

Order no.	Technical Data*		
	SF50-90N-C	SF50-180N-C	SF50N-C
Swivel angle [°]	90	180	0-180
Torque [Nm]	2.4	2.4	2.4
Swivel angle regulable +/- [°]	3	3	180
Repetition accuracy +/- [°]	0.01	0.01	0.01
Passage bore Ø [mm]	9	9	9
Axial bearing load [N]	490	490	490
Radial bearing load [Nm]	24	24	24
Operating pressure min. [bar]	3	3	3
Operating pressure max. [bar]	8	8	8
Operating temperature min. [°C]	5	5	5
Operating temperature max. [°C]	+80	+80	+80
Air volume per cycle [cm³]	14	28	28
Weight [kg]	0.6	0.6	0.6

*All data measured at 6 bar



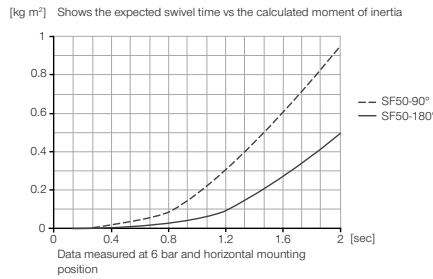
FLAT SWIVEL UNITS

INSTALLATION SIZE SF50D4-C

▶ PRODUCT SPECIFICATIONS



▶ Moment of inertia



▶ INCLUDED IN DELIVERY

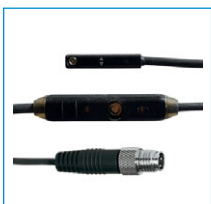


Flow Control Valves - with Swivel joint
DRVM5X4



O-Ring
COR0020100

▶ RECOMMENDED ACCESSORIES



2-Position-Sensor Cable
0,3 m - Connector M8
MFSP2SKHC-02



Magnetic field sensor
Straight Cable 0,3 m -
Connector M8
MFS204SKHC



Plug-in connector Straight
Cable 5m - Socket M8
(female)
KAG500



Plug-in connector
customizable Straight -
Connector M8
S8-G-3



Pressure Safety Valve
DSV1-8

▶ RECOMMENDED ACCESSORY ATTACHMENT KIT



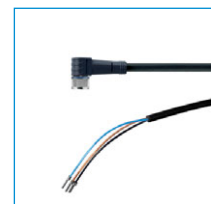
Attachment Kit
ANS0008



Inductive proximity switch
- Cable 5 m
NJ8-E2



Inductive proximity switch
- Connector M8
NJ8-E2S



Plug-in connector Angled
Cable 5m - Socket M8
(female)
KAW500

Order no.	Technical Data*		
	SF50-90D4-C	SF50-180D4-C	SF50D4-C
Swivel angle [°]	90	180	0-180
Torque [Nm]	1.5	1.5	1.5
Swivel angle regulable +/- [°]	3	3	180
Repetition accuracy +/- [°]	0.01	0.01	0.01
Passage bore Ø [mm]	9	9	9
Axial bearing load [N]	490	490	490
Radial bearing load [Nm]	24	24	24
Operating pressure min. [bar]	3	3	3
Operating pressure max. [bar]	8	8	8
Operating temperature min. [°C]	5	5	5
Operating temperature max. [°C]	+80	+80	+80
Air volume per cycle [cm³]	14	28	28
Weight [kg]	0.76	0.76	0.76

*All data measured at 6 bar

SF50-90D4-C
SF50-180D4-C

SF50D4-C

- ① Fixings for swivel unit
- ② Energy supply
- ③ Integrated air feed-through
- ⑥ Shock absorber
- ⑧ Fixing tool side
- ⑪ Internal positive stop
- ⑫ Fixing ANS
- ⑰ Direction of rotation
- ⑳ Integrated slot for magnetic field sensor
- ㉑ Adapter
- ㉒ Swivel unit
- ㉓ Air connection 90°-180°
- ㉔ Air connection 0°
- ㉕ Alternate air connection (90°-180°)
- ㉖ Alternate air connection (0°)

Hoseless pneumatic feed-through (tool)

Hoseless pneumatic feed-through (machine)

Hoseless energy supply (machine)

FLAT SWIVEL UNITS

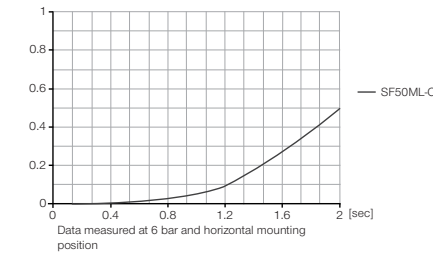
INSTALLATION SIZE SF50ML-C

▶ PRODUCT SPECIFICATIONS



▶ Moment of inertia

[kg m²] Shows the expected swivel time vs the calculated moment of inertia



▶ INCLUDED IN DELIVERY



Flow Control Valves - with Swivel joint
DRVM5X4



Attachment Kit
ANS0066



Commissioning USB
052650

▶ RECOMMENDED ACCESSORIES



Magnetic field sensor Straight Cable 5m
MFS204KHC



Magnetic field sensor Straight Cable 0,3m - Connector M8
MFS204SKHC



Plug-in connector Straight Cable 5m - Socket M8 (female)
KAG500



Plug-in connector customizable Straight - Connector M8
S8-G-3



Pressure Safety Valve
DSV1-8

▶ RECOMMENDED ACCESSORY ATTACHMENT KIT



Inductive proximity switch - Cable 5m
NJ8-E2



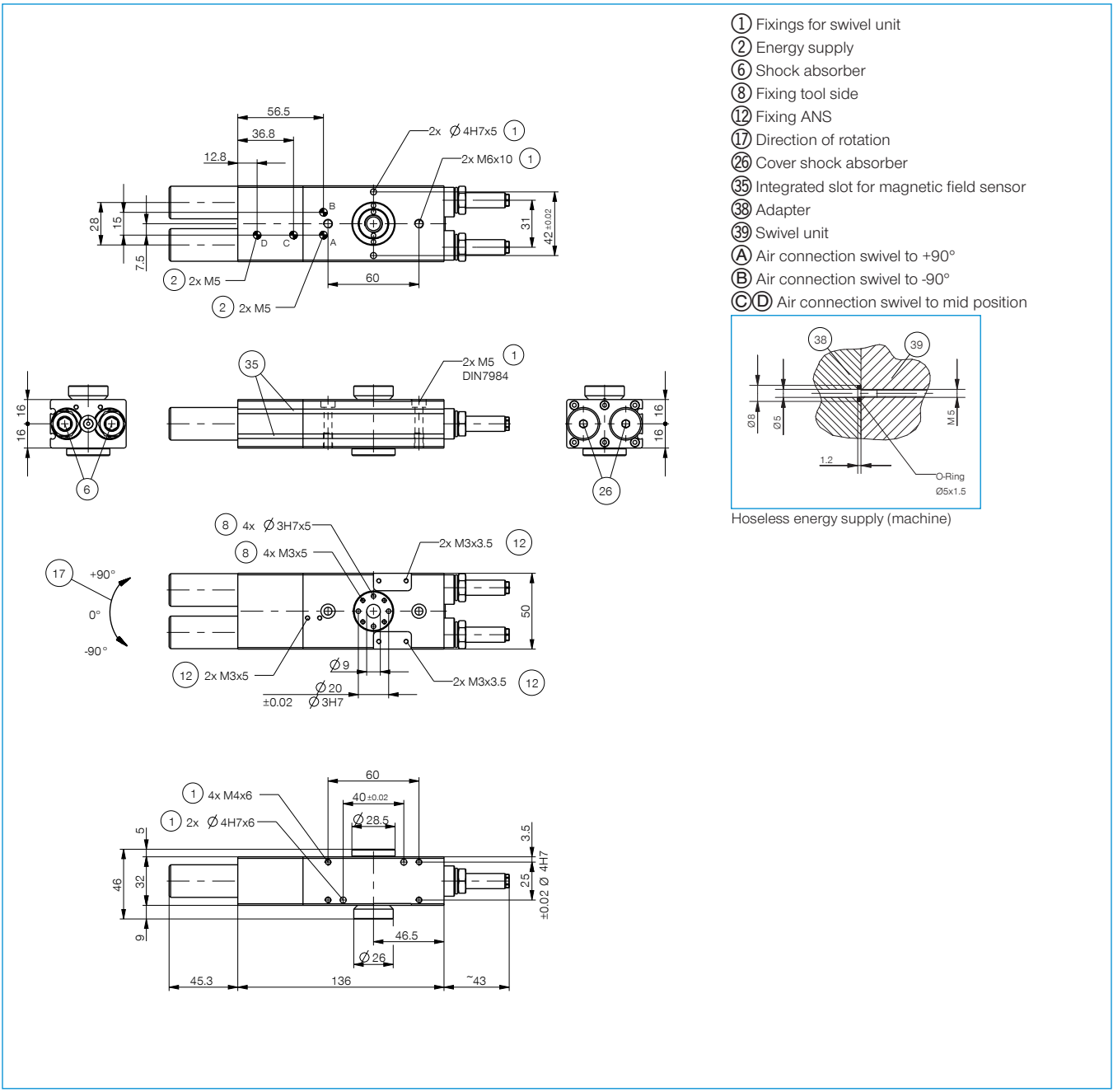
Inductive proximity switch - Connector M8
NJ8-E2S



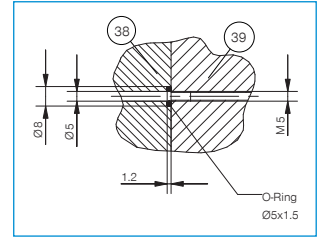
Plug-in connector Angled Cable 5m - Socket M8 (female)
KAW500

Order no.	Technical Data*
Swivel angle [°]	-90 / 0 / +90
Torque [Nm]	2.4
Swivel angle regulable +/- [°]	3
Repetition accuracy +/- [°]	0.01
Passage bore Ø [mm]	9
Axial bearing load [N]	490
Radial bearing load [Nm]	24
Operating pressure min. [bar]	3
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm³]	44
Weight [kg]	0.98

*All data measured at 6 bar



- ① Fixings for swivel unit
- ② Energy supply
- ⑥ Shock absorber
- ⑧ Fixing tool side
- ⑫ Fixing ANS
- ⑰ Direction of rotation
- ⑳ Cover shock absorber
- ㉓ Integrated slot for magnetic field sensor
- ㉔ Adapter
- ㉙ Swivel unit
- Ⓐ Air connection swivel to +90°
- Ⓑ Air connection swivel to -90°
- Ⓒ Ⓓ Air connection swivel to mid position



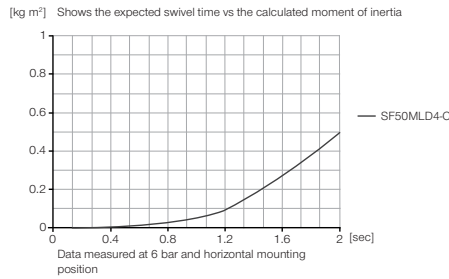
FLAT SWIVEL UNITS

INSTALLATION SIZE SF50MLD4-C

▶ PRODUCT SPECIFICATIONS



▶ Moment of inertia



▶ INCLUDED IN DELIVERY



Flow Control Valves - with Swivel joint
DRVM5X4



O-Ring
COR0020100



Attachment Kit
ANS0067



Commissioning USB
052650

▶ RECOMMENDED ACCESSORY



Magnetic field sensor
Straight Cable 5 m
MFS204KHC



Magnetic field sensor
Straight Cable 0,3 m -
Connector M8
MFS204SKHC



Plug-in connector Straight
Cable 5m - Socket M8
(female)
KAG500



Plug-in connector
customizable Straight -
Connector M8
S8-G-3



Pressure Safety Valve
DSV1-8

▶ RECOMMENDED ACCESSORY ATTACHMENT KIT



Inductive proximity switch
- Cable 5 m
NJ8-E2



Inductive proximity switch
- Connector M8
NJ8-E2S



Plug-in connector Angled
Cable 5m - Socket M8
(female)
KAW500

Order no.	Technical Data*
Swivel angle [°]	-90 / 0 / +90
Torque [Nm]	1.5
Swivel angle regulable +/- [°]	3
Repetition accuracy +/- [°]	0.01
Passage bore Ø [mm]	9
Axial bearing load [N]	490
Radial bearing load [Nm]	24
Operating pressure min. [bar]	3
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm³]	44
Weight [kg]	1.14

*All data measured at 6 bar

Legend:

- ① Fixings for swivel unit
- ② Energy supply
- ③ Integrated air feed-through
- ⑥ Shock absorber
- ⑧ Fixing tool side
- ⑫ Fixing ANS
- ⑰ Direction of rotation
- ⑳ Cover shock absorber
- ㉓ Integrated slot for magnetic field sensor
- ㉔ Adapter
- ㉕ Swivel unit
- Ⓐ Air connection swivel to +90°
- Ⓑ Air connection swivel to -90°
- Ⓒ Ⓓ Air connection swivel to mid position

Hoseless pneumatic feed-through (tool)

Hoseless pneumatic feed-through (machine)

Hoseless energy supply (machine)

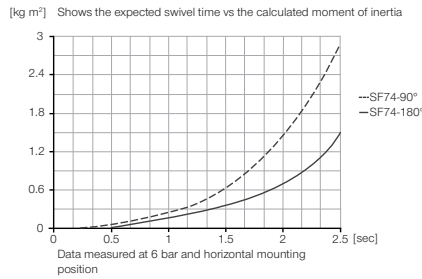
FLAT SWIVEL UNITS

INSTALLATION SIZE SF74N-C

▶ PRODUCT SPECIFICATIONS



▶ Moment of inertia



▶ INCLUDED IN DELIVERY



Flow Control Valves - with Swivel joint
DRV1-8X6

▶ RECOMMENDED ACCESSORIES



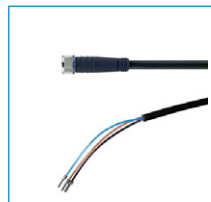
2-Position-Sensor Cable
0,3 m - Connector M8

MFSP2SKHC-02



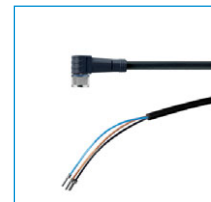
Magnetic field sensor
Straight Cable 0,3 m -
Connector M8

MFS204SKHC



Plug-in connector Straight
Cable 5m - Socket M8
(female)

KAG500



Plug-in connector Angled
Cable 5m - Socket M8
(female)

KAW500



Pressure Safety Valve

DSV1-8

▶ RECOMMENDED ACCESSORY ATTACHMENT KIT



Attachment Kit

ANS0010



Inductive proximity switch
- Cable 5 m

NJ6.5-E2-01



Inductive proximity switch
- Connector M8

NJ6.5-E2S



Inductive proximity switch
- Cable 5 m

NJ8-E2



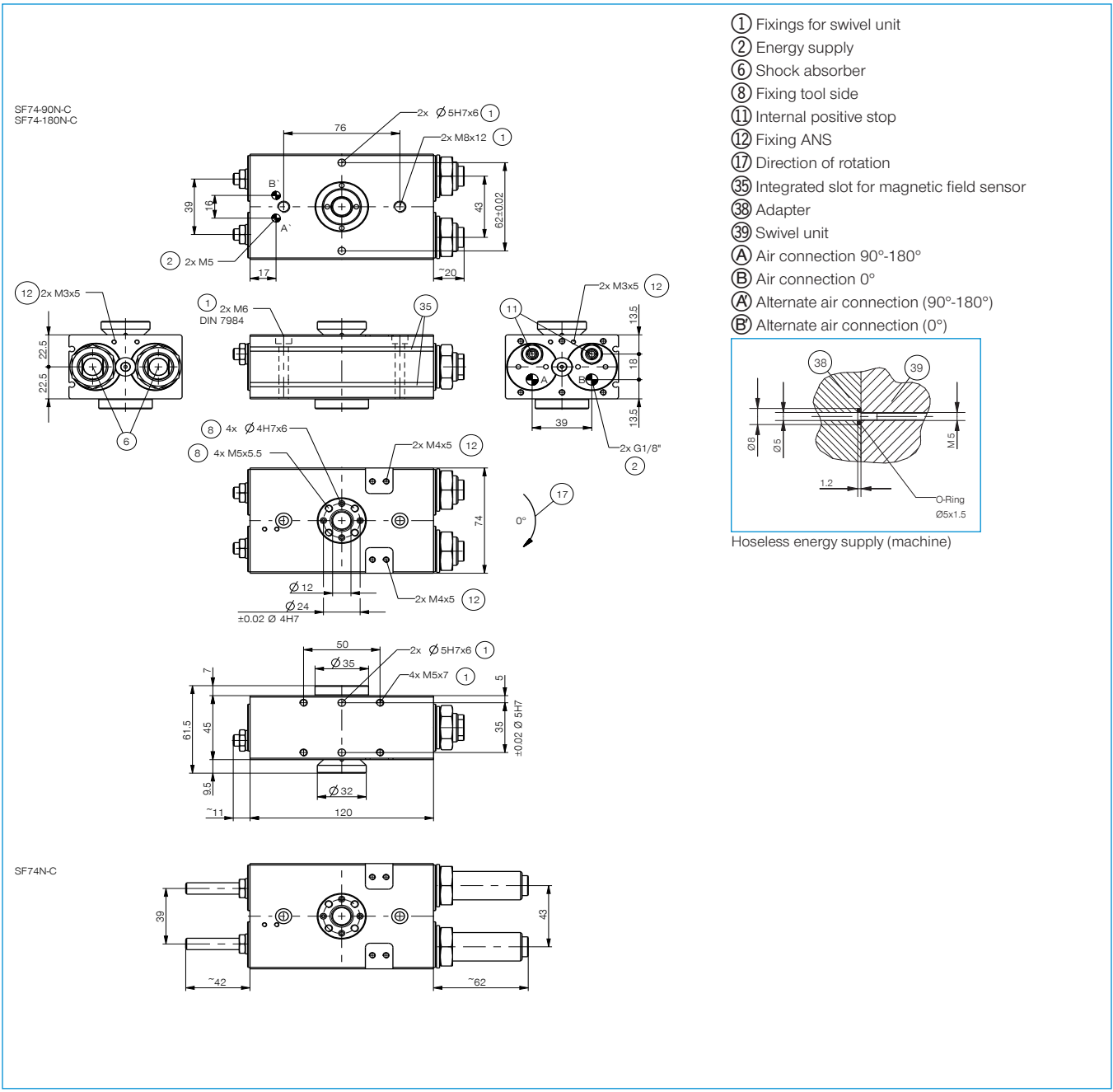
Inductive proximity switch
- Connector M8

NJ8-E2S

► Technical Data*

Order no.	SF74-90N-C	SF74-180N-C	SF74N-C
Swivel angle [°]	90	180	0-180
Torque [Nm]	7.3	7.3	7.3
Swivel angle regulable +/- [°]	3	3	180
Repetition accuracy +/- [°]	0.01	0.01	0.01
Passage bore Ø [mm]	12	12	12
Axial bearing load [N]	1120	1120	1120
Radial bearing load [Nm]	88	88	88
Operating pressure min. [bar]	3	3	3
Operating pressure max. [bar]	8	8	8
Operating temperature min. [°C]	5	5	5 </td
Operating temperature max. [°C]	+80	+80	+80
Air volume per cycle [cm³]	42	84	84
Weight [kg]	1.6	1.6	1.6

*All data measured at 6 bar



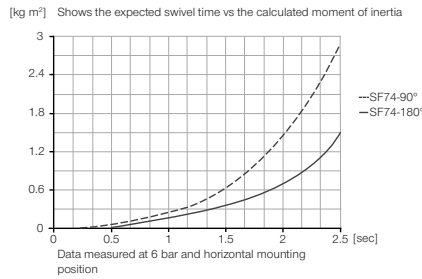
FLAT SWIVEL UNITS

INSTALLATION SIZE SF74D4-C

▶ PRODUCT SPECIFICATIONS



▶ Moment of inertia



▶ INCLUDED IN DELIVERY



Flow Control Valves - with Swivel joint
DRV1-8X6



O-Ring
COR0020100

▶ RECOMMENDED ACCESSORIES



2-Position-Sensor Cable
0,3 m - Connector M8
MFSP2SKHC-02



Magnetic field sensor
Straight Cable 0,3 m -
Connector M8
MFS204SKHC



Plug-in connector Straight
Cable 5m - Socket M8
(female)
KAG500



Plug-in connector Angled
Cable 5m - Socket M8
(female)
KAW500



Pressure Safety Valve
DSV1-8

▶ RECOMMENDED ACCESSORY ATTACHMENT KIT



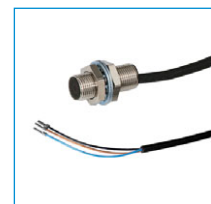
Attachment Kit
ANS0012



Inductive proximity switch
- Cable 5 m
NJ6.5-E2-01



Inductive proximity switch
- Connector M8
NJ6.5-E2S



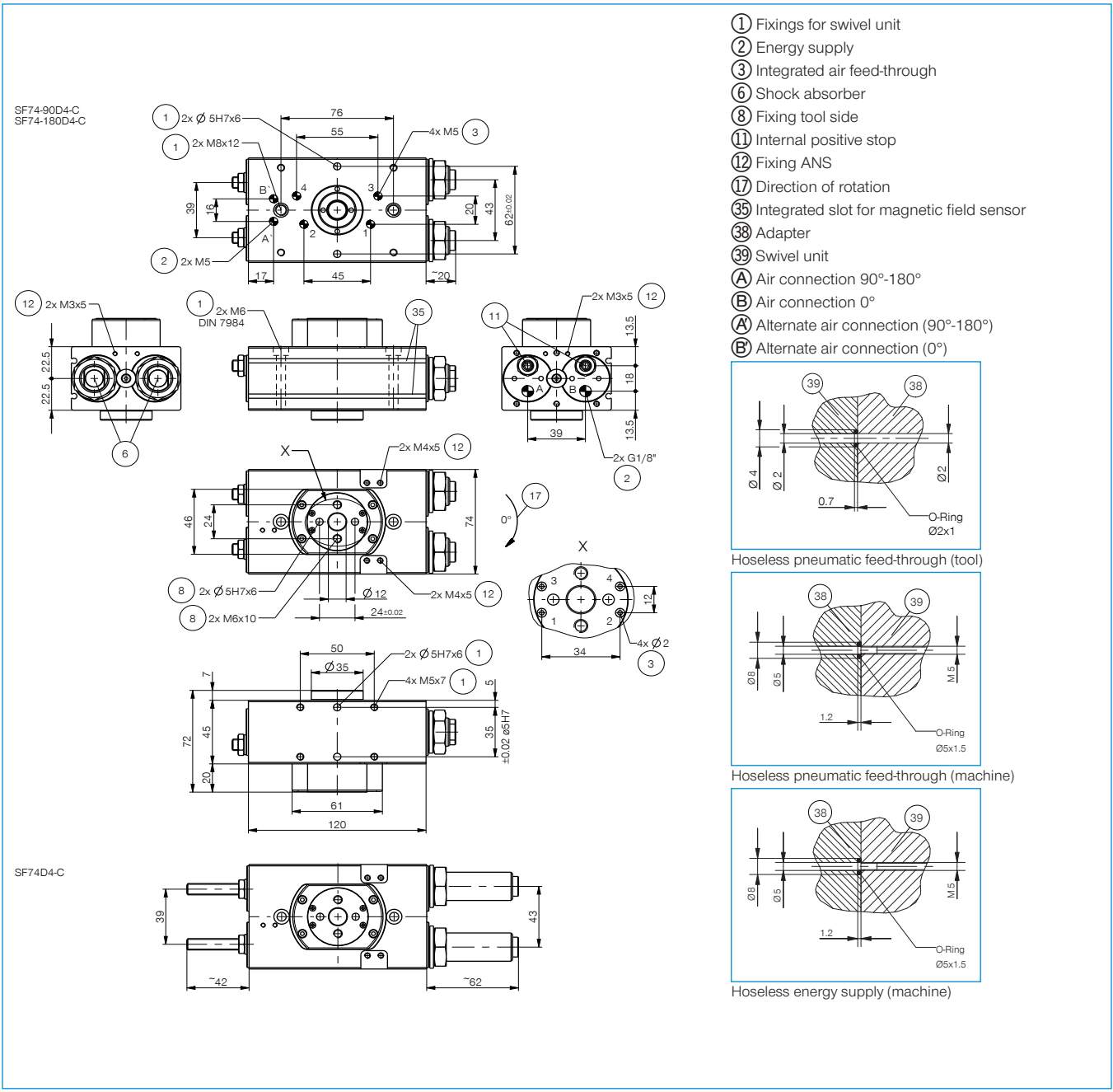
Inductive proximity switch
- Cable 5 m
NJ8-E2



Inductive proximity switch
- Connector M8
NJ8-E2S

Order no.	Technical Data*		
	SF74-90D4-C	SF74-180D4-C	SF74D4-C
Swivel angle [°]	90	180	0-180
Torque [Nm]	5.5	5.5	5.5
Swivel angle regulable +/- [°]	3	3	180
Repetition accuracy +/- [°]	0.01	0.01	0.01
Passage bore Ø [mm]	12	12	12
Axial bearing load [N]	1120	1120	1120
Radial bearing load [Nm]	88	88	88
Operating pressure min. [bar]	3	3	3
Operating pressure max. [bar]	8	8	8
Operating temperature min. [°C]	5	5	5
Operating temperature max. [°C]	+80	+80	+80
Air volume per cycle [cm³]	42	84	84
Weight [kg]	1.8	1.8	1.8

*All data measured at 6 bar



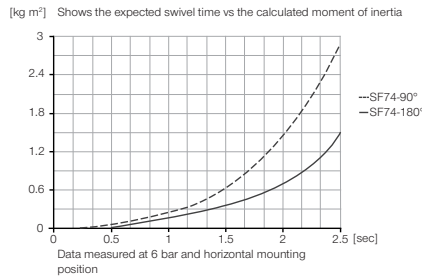
FLAT SWIVEL UNITS

INSTALLATION SIZE SF74D6-C

▶ PRODUCT SPECIFICATIONS



▶ Moment of inertia



▶ INCLUDED IN DELIVERY



Flow Control Valves - with Swivel joint

DRV1-8X6



O-Ring

COR0020100

▶ RECOMMENDED ACCESSORIES



2-Position-Sensor Cable 0,3 m - Connector M8

MFSP2SKHC-02



Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



Plug-in connector Straight Cable 5m - Socket M8 (female)

KAG500



Plug-in connector Angled Cable 5m - Socket M8 (female)

KAW500



Pressure Safety Valve

DSV1-8

▶ RECOMMENDED ACCESSORY ATTACHMENT KIT



Attachment Kit

ANS0012



Inductive proximity switch - Cable 5 m

NJ6.5-E2-01



Inductive proximity switch - Connector M8

NJ6.5-E2S



Inductive proximity switch - Cable 5 m

NJ8-E2



Inductive proximity switch - Connector M8

NJ8-E2S

Order no.	Technical Data*		
	SF74-90D6-C	SF74-180D6-C	SF74D6-C
Swivel angle [°]	90	180	0-180
Torque [Nm]	4.5	4.5	4.5
Swivel angle regulable +/- [°]	3	3	180
Repetition accuracy +/- [°]	0.01	0.01	0.01
Passage bore Ø [mm]	12	12	12
Axial bearing load [N]	1120	1120	1120
Radial bearing load [Nm]	88	88	88
Operating pressure min. [bar]	3	3	3
Operating pressure max. [bar]	8	8	8
Operating temperature min. [°C]	5	5	5
Operating temperature max. [°C]	+80	+80	+80
Air volume per cycle [cm³]	42	84	84
Weight [kg]	1.8	1.8	1.8

*All data measured at 6 bar

- ① Fixings for swivel unit
- ② Energy supply
- ③ Integrated air feed-through
- ⑥ Shock absorber
- ⑧ Fixing tool side
- ⑪ Internal positive stop
- ⑫ Fixing ANS
- ⑰ Direction of rotation
- ⑳ Integrated slot for magnetic field sensor
- ㉑ Adapter
- ㉒ Swivel unit
- Ⓐ Air connection 90°-180°
- Ⓑ Air connection 0°
- Ⓐ Alternate air connection (90°-180°)
- Ⓑ Alternate air connection (0°)

Hoseless pneumatic feed-through (tool)

Hoseless pneumatic feed-through (machine)

Hoseless energy supply (machine)

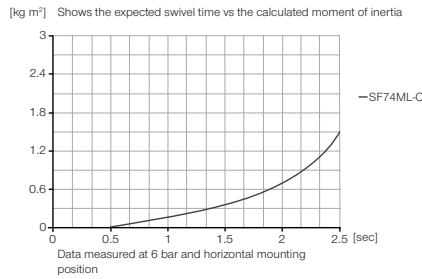
FLAT SWIVEL UNITS

INSTALLATION SIZE SF74ML-C

▶ PRODUCT SPECIFICATIONS



▶ Moment of inertia



▶ INCLUDED IN DELIVERY



Flow Control Valves - with Swivel joint
DRV1-8X6



Attachment Kit
ANS0068



Commissioning USB
052650

▶ RECOMMENDED ACCESSORIES



Magnetic field sensor
Straight Cable 5 m
MFS204KHC



Magnetic field sensor
Straight Cable 0,3 m -
Connector M8
MFS204SKHC



Plug-in connector Straight
Cable 5m - Socket M8
(female)
KAG500



Plug-in connector
customizable Straight -
Connector M8
S8-G-3



Pressure Safety Valve
DSV1-8

▶ RECOMMENDED ACCESSORY ATTACHMENT KIT



Inductive proximity switch
- Cable 5 m
NJ6.5-E2-01



Inductive proximity switch
- Connector M8
NJ6.5-E2S



Inductive proximity switch
- Cable 5 m
NJ8-E2



Inductive proximity switch
- Connector M8
NJ8-E2S

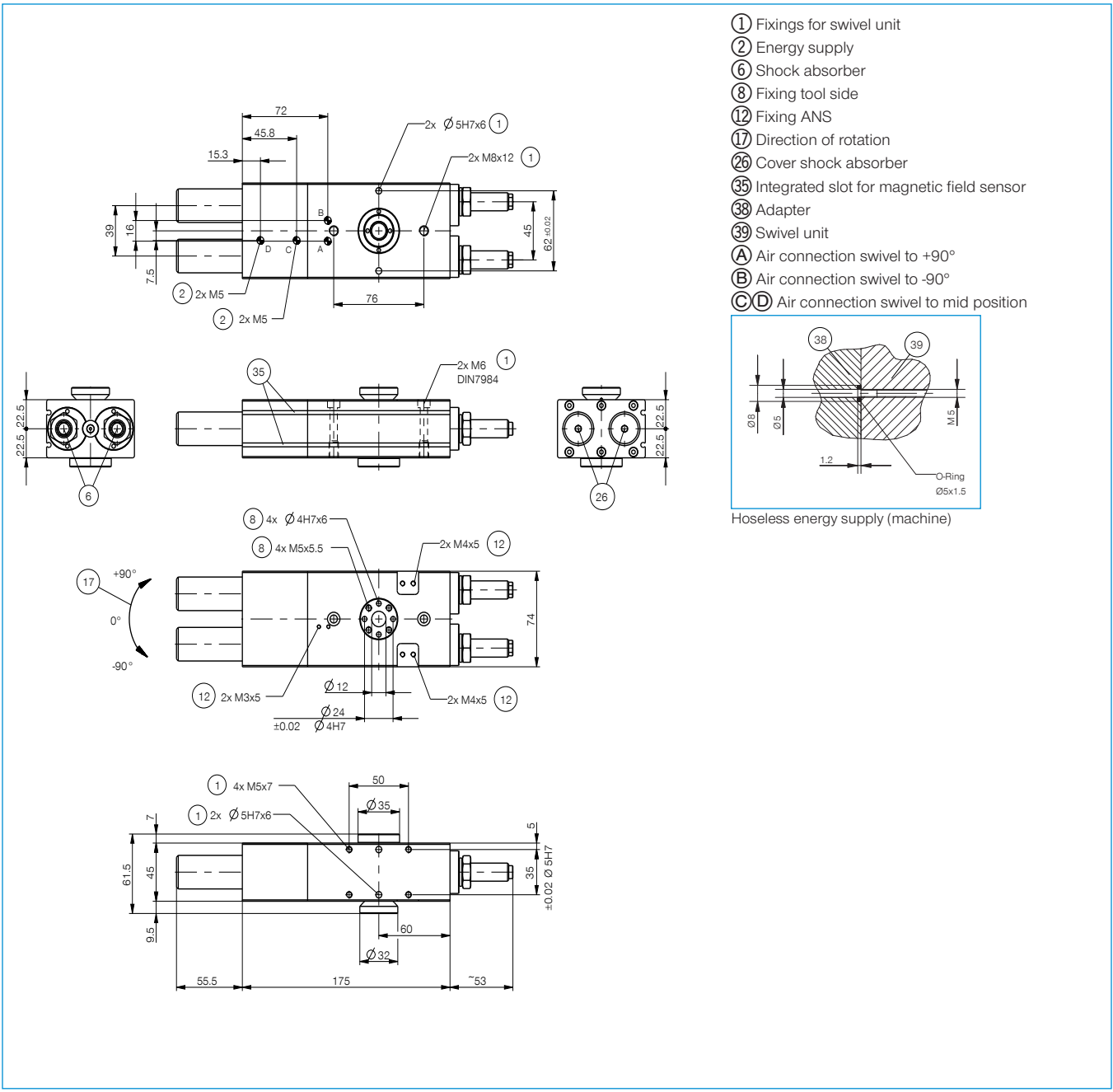


Plug-in connector Angled
Cable 5m - Socket M8
(female)
KAW500

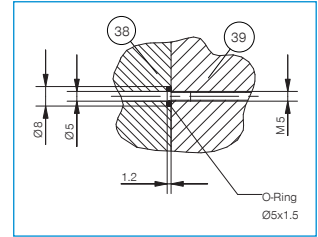
► **Technical Data***

Order no.	SF74ML-C
Swivel angle [°]	-90 / 0 / +90
Torque [Nm]	7.3
Swivel angle regulable +/- [°]	3
Repetition accuracy +/- [°]	0.01
Passage bore Ø [mm]	12
Axial bearing load [N]	1120
Radial bearing load [Nm]	88
Operating pressure min. [bar]	3
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm³]	125
Weight [kg]	2.4

*All data measured at 6 bar



- ① Fixings for swivel unit
- ② Energy supply
- ⑥ Shock absorber
- ⑧ Fixing tool side
- ⑫ Fixing ANS
- ⑰ Direction of rotation
- ⑳ Cover shock absorber
- ㉓ Integrated slot for magnetic field sensor
- ㉔ Adapter
- ㉕ Swivel unit
- Ⓐ Air connection swivel to +90°
- Ⓑ Air connection swivel to -90°
- Ⓒ Ⓓ Air connection swivel to mid position



Hoseless energy supply (machine)

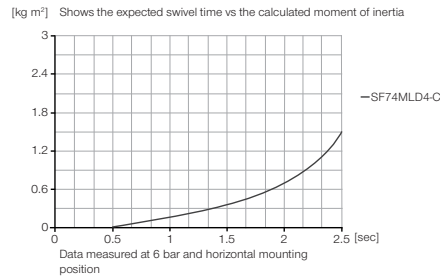
FLAT SWIVEL UNITS

INSTALLATION SIZE SF74MLD4-C

▶ PRODUCT SPECIFICATIONS



▶ Moment of inertia



▶ INCLUDED IN DELIVERY



Flow Control Valves - with Swivel joint
DRV1-8X6



O-Ring
COR0020100



Attachment Kit
ANS0069



Commissioning USB
052650

▶ RECOMMENDED ACCESSORIES



Magnetic field sensor Straight Cable 5 m
MFS204KHC



Magnetic field sensor Straight Cable 0,3 m - Connector M8
MFS204SKHC



Plug-in connector Straight Cable 5m - Socket M8 (female)
KAG500



Plug-in connector customizable Straight - Connector M8
S8-G-3



Pressure Safety Valve
DSV1-8

▶ RECOMMENDED ACCESSORY ATTACHMENT KIT



Inductive proximity switch - Cable 5 m
NJ6.5-E2-01



Inductive proximity switch - Connector M8
NJ6.5-E2S



Inductive proximity switch - Cable 5 m
NJ8-E2



Inductive proximity switch - Connector M8
NJ8-E2S



Plug-in connector Angled Cable 5m - Socket M8 (female)
KAW500

► Technical Data*

Order no.	SF74MLD4-C
Swivel angle [°]	-90 / 0 / +90
Torque [Nm]	5.5
Swivel angle regulable +/- [°]	3
Repetition accuracy +/- [°]	0.01
Passage bore Ø [mm]	12
Axial bearing load [N]	1120
Radial bearing load [Nm]	88
Operating pressure min. [bar]	3
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm³]	125
Weight [kg]	2.6

*All data measured at 6 bar

① Fixings for swivel unit
 ② Energy supply
 ③ Integrated air feed-through
 ⑥ Shock absorber
 ⑧ Fixing tool side
 ⑫ Fixing ANS
 ⑰ Direction of rotation
 ⑳ Cover shock absorber
 ㉓ Integrated slot for magnetic field sensor
 ㉔ Adapter
 ㉕ Swivel unit
 A Air connection swivel to +90°
 B Air connection swivel to -90°
 C D Air connection swivel to mid position

Hoseless pneumatic feed-through (tool)
 Hoseless pneumatic feed-through (machine)
 Hoseless energy supply (machine)

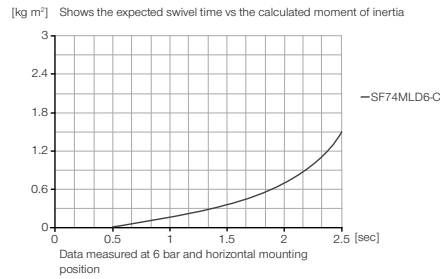
FLAT SWIVEL UNITS

INSTALLATION SIZE SF74MLD6-C

▶ PRODUCT SPECIFICATIONS



▶ Moment of inertia



▶ INCLUDED IN DELIVERY



Flow Control Valves - with Swivel joint
DRV1-8X6



O-Ring
COR0020100



Attachment Kit
ANS0070



Commissioning USB
052650

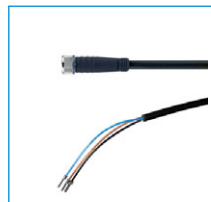
▶ RECOMMENDED ACCESSORIES



Magnetic field sensor Straight Cable 5 m
MFS204KHC



Magnetic field sensor Straight Cable 0,3 m - Connector M8
MFS204SKHC



Plug-in connector Straight Cable 5m - Socket M8 (female)
KAG500



Plug-in connector customizable Straight - Connector M8
S8-G-3



Pressure Safety Valve
DSV1-8

▶ RECOMMENDED ACCESSORY ATTACHMENT KIT



Inductive proximity switch - Cable 5 m
NJ6.5-E2-01



Inductive proximity switch - Connector M8
NJ6.5-E2S



Inductive proximity switch - Cable 5 m
NJ8-E2



Inductive proximity switch - Connector M8
NJ8-E2S



Plug-in connector Angled Cable 5m - Socket M8 (female)
KAW500

► Technical Data*

Order no.	SF74MLD6-C
Swivel angle [°]	-90 / 0 / +90
Torque [Nm]	4.5
Swivel angle regulable +/- [°]	3
Repetition accuracy +/- [°]	0.01
Passage bore Ø [mm]	12
Axial bearing load [N]	1120
Radial bearing load [Nm]	88
Operating pressure min. [bar]	3
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm³]	125
Weight [kg]	2.6

*All data measured at 6 bar

① Fixings for swivel unit
 ② Energy supply
 ③ Integrated air feed-through
 ⑥ Shock absorber
 ⑧ Fixing tool side
 ⑫ Fixing ANS
 ⑰ Direction of rotation
 ⑳ Cover shock absorber
 ㉓ Integrated slot for magnetic field sensor
 ㉔ Adapter
 ㉕ Swivel unit
 A Air connection swivel to +90°
 B Air connection swivel to -90°
 C D Air connection swivel to mid position

Hoseless pneumatic feed-through (tool)

Hoseless pneumatic feed-through (machine)

Hoseless energy supply (machine)

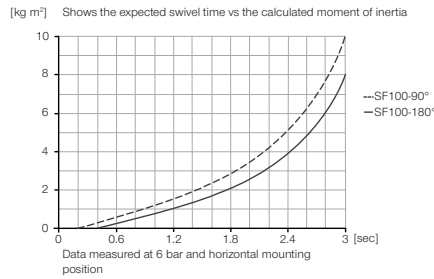
FLAT SWIVEL UNITS

INSTALLATION SIZE SF100N-C

▶ PRODUCT SPECIFICATIONS



▶ Moment of inertia



▶ INCLUDED IN DELIVERY



Flow Control Valves - with Swivel joint
DRV1-8X6

▶ RECOMMENDED ACCESSORIES



Magnetic field sensor
Straight Cable 5 m
MFS204KHC



Magnetic field sensor
Straight Cable 0,3 m -
Connector M8
MFS204SKHC



Plug-in connector Straight
Cable 5m - Socket M8
(female)
KAG500



Plug-in connector
customizable Straight -
Connector M8
S8-G-3



Pressure Safety Valve
DSV1-8

▶ RECOMMENDED ACCESSORY ATTACHMENT KIT



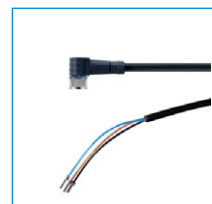
Attachment Kit
ANS0015



Inductive proximity switch
- Cable 5 m
NJ8-E2



Inductive proximity switch
- Connector M8
NJ8-E2S

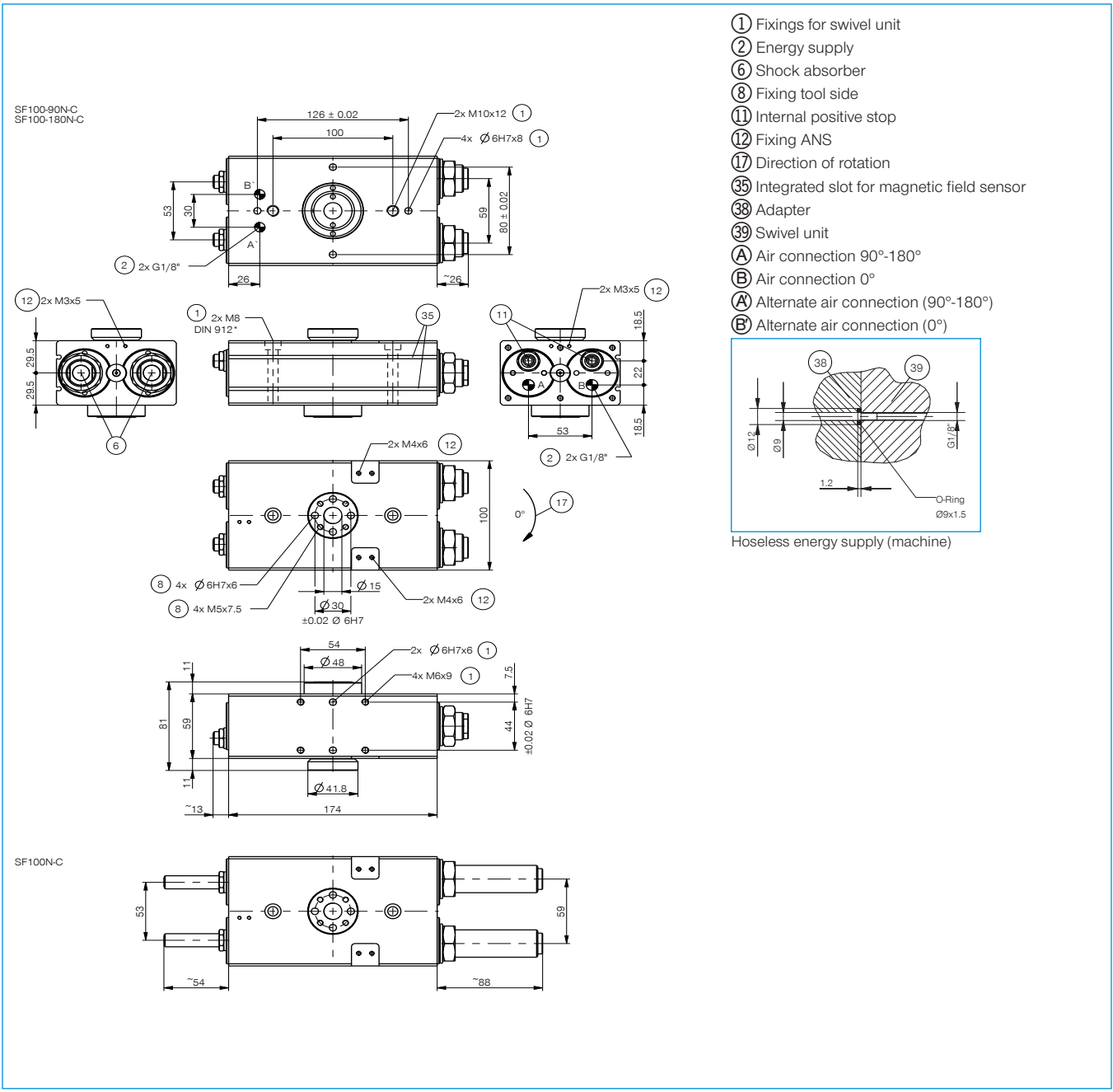


Plug-in connector Angled
Cable 5m - Socket M8
(female)
KAW500

► Technical Data*

Order no.	SF100-90N-C	SF100-180N-C	SF100N-C
Swivel angle [°]	90	180	0-180
Torque [Nm]	20	20	20
Swivel angle regulable +/- [°]	3	3	180
Repetition accuracy +/- [°]	0.01	0.01	0.01
Passage bore Ø [mm]	15	15	15
Axial bearing load [N]	2500	2500	2500
Radial bearing load [Nm]	155	155	155
Operating pressure min. [bar]	3	3	3
Operating pressure max. [bar]	8	8	8
Operating temperature min. [°C]	5	5	5
Operating temperature max. [°C]	+80	+80	+80
Air volume per cycle [cm³]	103	206	206
Weight [kg]	3.7	3.7	3.7

*All data measured at 6 bar



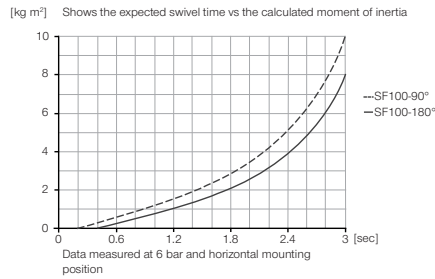
FLAT SWIVEL UNITS

INSTALLATION SIZE SF100D4-C

▶ PRODUCT SPECIFICATIONS



▶ Moment of inertia



▶ INCLUDED IN DELIVERY



Flow Control Valves - with Swivel joint
DRV1-8X6



O-Ring
COR0030100

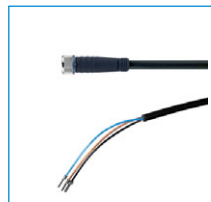
▶ RECOMMENDED ACCESSORIES



Magnetic field sensor
Straight Cable 5 m
MFS204KHC



Magnetic field sensor
Straight Cable 0,3 m -
Connector M8
MFS204SKHC



Plug-in connector Straight
Cable 5m - Socket M8
(female)
KAG500



Plug-in connector
customizable Straight -
Connector M8
S8-G-3



Pressure Safety Valve
DSV1-8

▶ RECOMMENDED ACCESSORY ATTACHMENT KIT



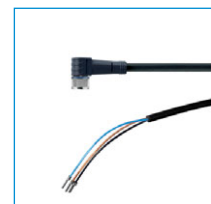
Attachment Kit
ANS0017



Inductive proximity switch
- Cable 5 m
NJ8-E2



Inductive proximity switch
- Connector M8
NJ8-E2S



Plug-in connector Angled
Cable 5m - Socket M8
(female)
KAW500

► Technical Data*

Order no.	SF100-90D4-C	SF100-180D4-C	SF100D4-C
Swivel angle [°]	90	180	0-180
Torque [Nm]	15	15	15
Swivel angle regulable +/- [°]	3	3	180
Repetition accuracy +/- [°]	0.01	0.01	0.01
Passage bore Ø [mm]	15	15	15
Axial bearing load [N]	2500	2500	2500
Radial bearing load [Nm]	155	155	155
Operating pressure min. [bar]	3	3	3
Operating pressure max. [bar]	8	8	8
Operating temperature min. [°C]	5	5	5
Operating temperature max. [°C]	+80	+80	+80
Air volume per cycle [cm³]	103	206	206
Weight [kg]	4	4	4

*All data measured at 6 bar

① Fixings for swivel unit
 ② Energy supply
 ③ Integrated air feed-through
 ⑥ Shock absorber
 ⑧ Fixing tool side
 ⑪ Internal positive stop
 ⑫ Fixing ANS
 ⑰ Direction of rotation
 ⑳ Integrated slot for magnetic field sensor
 ㉔ Adapter
 ㉙ Swivel unit
 A Air connection 90°-180°
 B Air connection 0°
 A Alternate air connection (90°-180°)
 B Alternate air connection (0°)

Hoseless pneumatic feed-through (tool)
 Hoseless pneumatic feed-through (machine)
 Hoseless energy supply (machine)

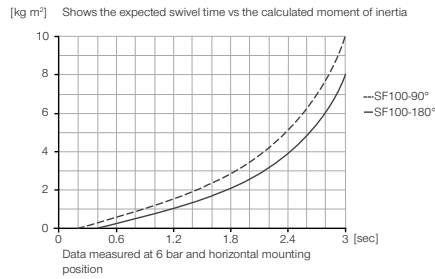
FLAT SWIVEL UNITS

INSTALLATION SIZE SF100D6-C

▶ PRODUCT SPECIFICATIONS



▶ Moment of inertia



▶ INCLUDED IN DELIVERY



Flow Control Valves - with Swivel joint
DRV1-8X6



O-Ring
COR0030100

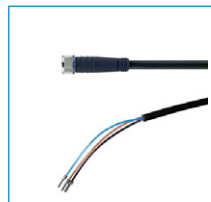
▶ RECOMMENDED ACCESSORIES



Magnetic field sensor
Straight Cable 5 m
MFS204KHC



Magnetic field sensor
Straight Cable 0,3 m -
Connector M8
MFS204SKHC



Plug-in connector Straight
Cable 5m - Socket M8
(female)
KAG500



Plug-in connector
customizable Straight -
Connector M8
S8-G-3



Pressure Safety Valve
DSV1-8

▶ RECOMMENDED ACCESSORY ATTACHMENT KIT



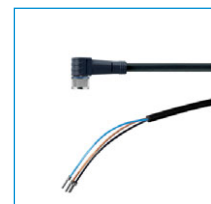
Attachment Kit
ANS0017



Inductive proximity switch
- Cable 5 m
NJ8-E2



Inductive proximity switch
- Connector M8
NJ8-E2S



Plug-in connector Angled
Cable 5m - Socket M8
(female)
KAW500

► Technical Data*

Order no.	SF100-90D6-C	SF100-180D6-C	SF100D6-C
Swivel angle [°]	90	180	0-180
Torque [Nm]	13	13	13
Swivel angle regulable +/- [°]	3	3	180
Repetition accuracy +/- [°]	0.01	0.01	0.01
Passage bore Ø [mm]	15	15	15
Axial bearing load [N]	2500	2500	2500
Radial bearing load [Nm]	155	155	155
Operating pressure min. [bar]	3	3	3
Operating pressure max. [bar]	8	8	8
Operating temperature min. [°C]	5	5	5
Operating temperature max. [°C]	+80	+80	+80
Air volume per cycle [cm³]	103	206	206
Weight [kg]	4.1	4.1	4.1

*All data measured at 6 bar

SF100-90D6-C / SF100-180D6-C

SF100D6-C

- ① Fixings for swivel unit
- ② Energy supply
- ③ Integrated air feed-through
- ⑥ Shock absorber
- ⑧ Fixing tool side
- ⑪ Internal positive stop
- ⑫ Fixing ANS
- ⑰ Direction of rotation
- ⑳ Integrated slot for magnetic field sensor
- ㉔ Adapter
- ㉕ Swivel unit
- A Air connection 90°-180°
- B Air connection 0°
- X Alternate air connection (90°-180°)
- X Alternate air connection (0°)

Hoseless pneumatic feed-through (tool)

Hoseless pneumatic feed-through (machine)

Hoseless energy supply (machine)

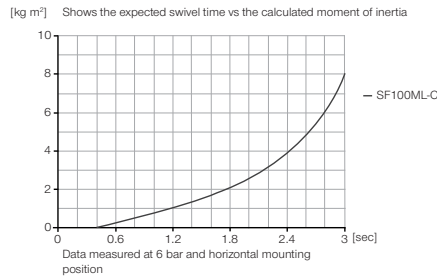
FLAT SWIVEL UNITS

INSTALLATION SIZE SF100ML-C

▶ PRODUCT SPECIFICATIONS



▶ Moment of inertia



▶ INCLUDED IN DELIVERY



Flow Control Valves - with Swivel joint
DRV1-8X6



Attachment Kit
ANS0071



Commissioning USB
052650

▶ RECOMMENDED ACCESSORIES



Magnetic field sensor
Straight Cable 5 m
MFS204KHC



Magnetic field sensor
Straight Cable 0,3 m -
Connector M8
MFS204SKHC



Plug-in connector Straight
Cable 5m - Socket M8
(female)
KAG500



Plug-in connector
customizable Straight -
Connector M8
S8-G-3



Pressure Safety Valve
DSV1-8

▶ RECOMMENDED ACCESSORY ATTACHMENT KIT



Inductive proximity switch
- Cable 5 m
NJ8-E2



Inductive proximity switch
- Connector M8
NJ8-E2S

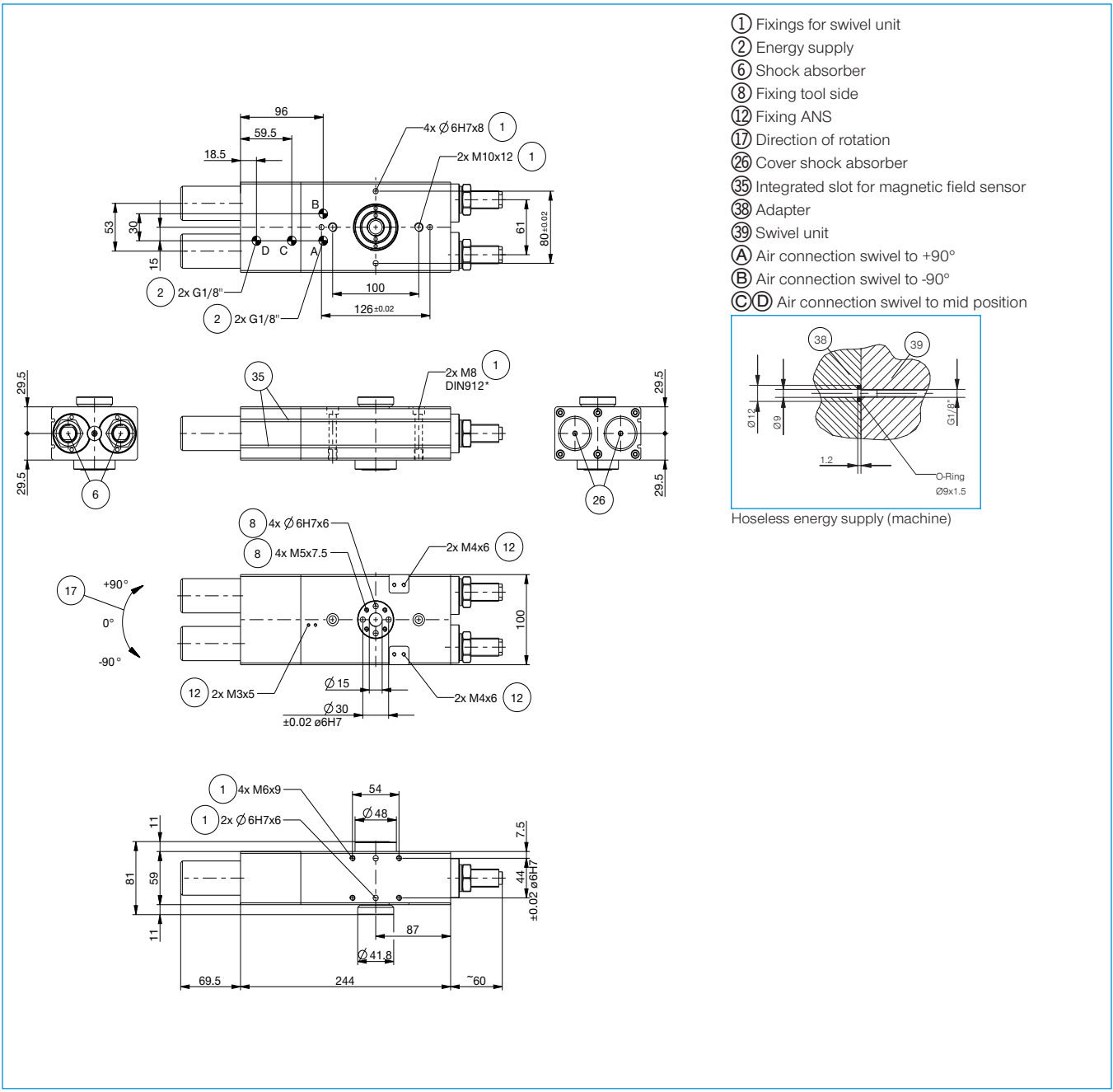


Plug-in connector Angled
Cable 5m - Socket M8
(female)
KAW500

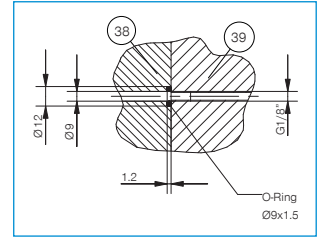
► Technical Data*

Order no.	SF100ML-C
Swivel angle [°]	-90 / 0 / +90
Torque [Nm]	20
Swivel angle regulable +/- [°]	3
Repetition accuracy +/- [°]	0.01
Passage bore Ø [mm]	15
Axial bearing load [N]	2500
Radial bearing load [Nm]	155
Operating pressure min. [bar]	3
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm ³]	304
Weight [kg]	5.4

*All data measured at 6 bar



- ① Fixings for swivel unit
- ② Energy supply
- ⑥ Shock absorber
- ⑧ Fixing tool side
- ⑫ Fixing ANS
- ⑰ Direction of rotation
- ⑳ Cover shock absorber
- ㉓ Integrated slot for magnetic field sensor
- ㉔ Adapter
- ㉕ Swivel unit
- Ⓐ Air connection swivel to +90°
- Ⓑ Air connection swivel to -90°
- Ⓒ Ⓓ Air connection swivel to mid position



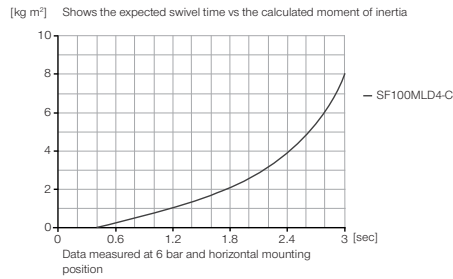
FLAT SWIVEL UNITS

INSTALLATION SIZE SF100MLD4-C

▶ PRODUCT SPECIFICATIONS



▶ Moment of inertia



▶ INCLUDED IN DELIVERY



Flow Control Valves - with Swivel joint
DRV1-8X6



O-Ring
COR0030100



Attachment Kit
ANS0072



Commissioning USB
052650

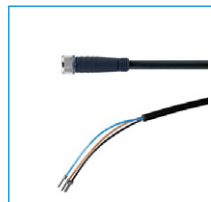
▶ RECOMMENDED ACCESSORIES



Magnetic field sensor
Straight Cable 5 m
MFS204KHC



Magnetic field sensor
Straight Cable 0,3 m -
Connector M8
MFS204SKHC



Plug-in connector Straight
Cable 5m - Socket M8
(female)
KAG500



Plug-in connector
customizable Straight -
Connector M8
S8-G-3



Pressure Safety Valve
DSV1-8

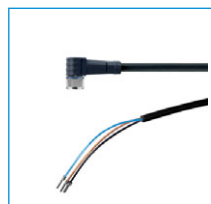
▶ RECOMMENDED ACCESSORY ATTACHMENT KIT



Inductive proximity switch
- Cable 5 m
NJ8-E2



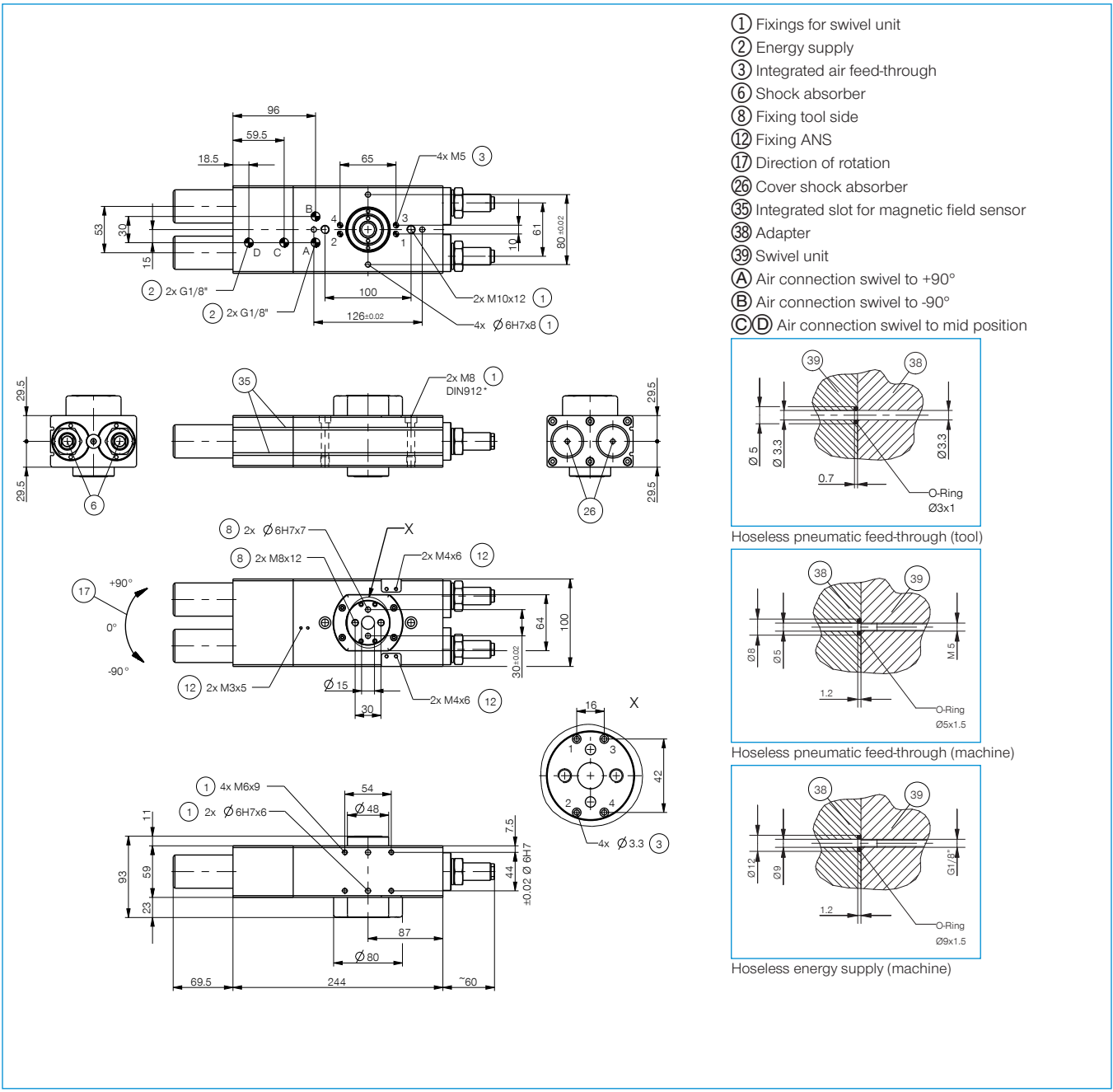
Inductive proximity switch
- Connector M8
NJ8-E2S



Plug-in connector Angled
Cable 5m - Socket M8
(female)
KAW500

Order no.	Technical Data*
Swivel angle [°]	-90 / 0 / +90
Torque [Nm]	15
Swivel angle regulable +/- [°]	3
Repetition accuracy +/- [°]	0.01
Passage bore Ø [mm]	15
Axial bearing load [N]	2500
Radial bearing load [Nm]	155
Operating pressure min. [bar]	3
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm³]	304
Weight [kg]	5.7

*All data measured at 6 bar



- ① Fixings for swivel unit
- ② Energy supply
- ③ Integrated air feed-through
- ⑥ Shock absorber
- ⑧ Fixing tool side
- ⑫ Fixing ANS
- ⑰ Direction of rotation
- ⑳ Cover shock absorber
- ㉓ Integrated slot for magnetic field sensor
- ㉔ Adapter
- ㉕ Swivel unit
- A Air connection swivel to +90°
- B Air connection swivel to -90°
- C D Air connection swivel to mid position

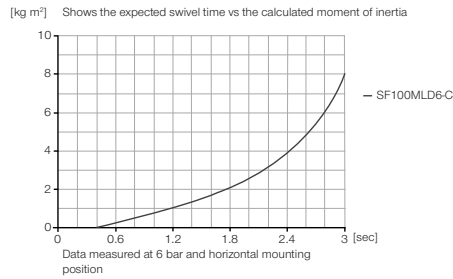
FLAT SWIVEL UNITS

INSTALLATION SIZE SF100MLD6-C

▶ PRODUCT SPECIFICATIONS



▶ Moment of inertia



▶ INCLUDED IN DELIVERY



Flow Control Valves - with Swivel joint
DRV1-8X6



O-Ring
COR0030100



Attachment Kit
ANS0073



Commissioning USB
052650

▶ RECOMMENDED ACCESSORIES



Magnetic field sensor
Straight Cable 5 m
MFS204KHC



Magnetic field sensor
Straight Cable 0,3 m -
Connector M8
MFS204SKHC



Plug-in connector Straight
Cable 5m - Socket M8
(female)
KAG500



Plug-in connector
customizable Straight -
Connector M8
S8-G-3



Pressure Safety Valve
DSV1-8

▶ RECOMMENDED ACCESSORY ATTACHMENT KIT



Inductive proximity switch
- Cable 5 m
NJ8-E2



Inductive proximity switch
- Connector M8
NJ8-E2S

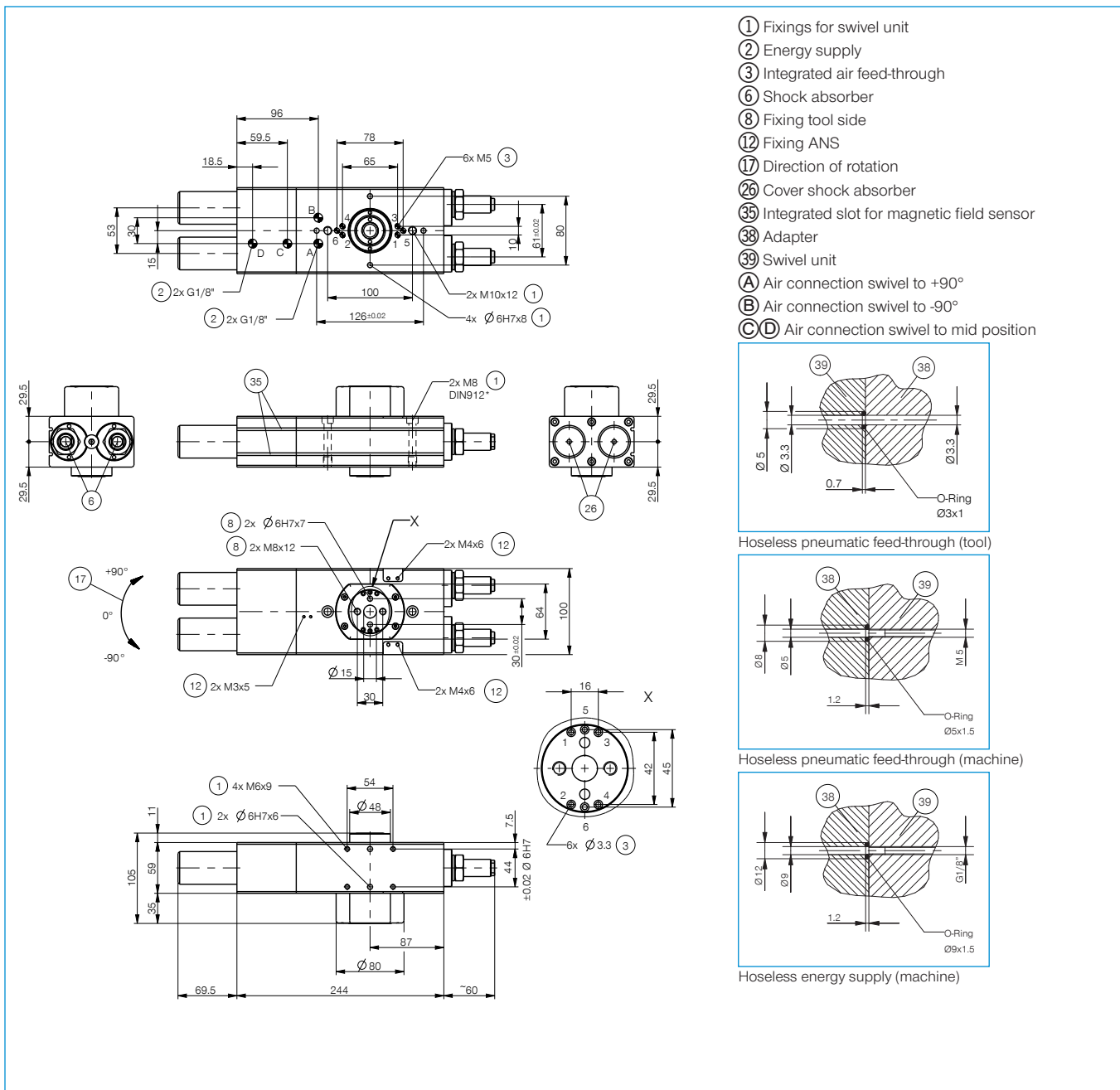


Plug-in connector Angled
Cable 5m - Socket M8
(female)
KAW500

► Technical Data*

Order no.	SF100MLD6-C
Swivel angle [°]	-90 / 0 / +90
Torque [Nm]	13
Swivel angle regulable +/- [°]	3
Repetition accuracy +/- [°]	0.01
Passage bore Ø [mm]	15
Axial bearing load [N]	2500
Radial bearing load [Nm]	155
Operating pressure min. [bar]	3
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm³]	304
Weight [kg]	5.8

*All data measured at 6 bar



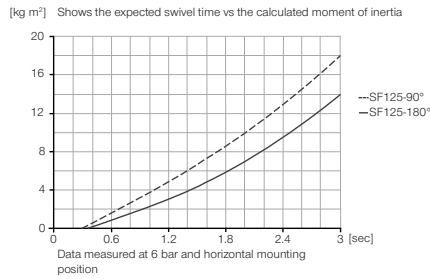
FLAT SWIVEL UNITS

INSTALLATION SIZE SF125N-C

▶ PRODUCT SPECIFICATIONS



▶ Moment of inertia



▶ INCLUDED IN DELIVERY



Flow Control Valves - with Swivel joint

DRV1-4X8

▶ RECOMMENDED ACCESSORIES



Magnetic field sensor
Straight Cable 5 m

MFS204KHC



Magnetic field sensor
Straight Cable 0,3 m -
Connector M8

MFS204SKHC



Plug-in connector Straight
Cable 5m - Socket M8
(female)

KAG500



Plug-in connector
customizable Straight -
Connector M8

S8-G-3



Pressure Safety Valve

DSV1-8

▶ RECOMMENDED ACCESSORY ATTACHMENT KIT



Attachment Kit

ANS0035



Inductive proximity switch
- Cable 5 m

NJ8-E2



Inductive proximity switch
- Cable 5 m

NJ12-E2

Order no.	Technical Data*		
	SF125-90N-C	SF125-180N-C	SF125N-C
Swivel angle [°]	90	180	0-180
Torque [Nm]	38	38	38
Swivel angle regulable +/- [°]	3	3	180
Repetition accuracy +/- [°]	0.01	0.01	0.01
Passage bore Ø [mm]	26	26	26
Axial bearing load [N]	3400	3400	3400
Radial bearing load [Nm]	391	391	391
Operating pressure min. [bar]	3	3	3
Operating pressure max. [bar]	8	8	8
Operating temperature min. [°C]	5	5	5
Operating temperature max. [°C]	+80	+80	+80
Air volume per cycle [cm³]	220	440	440
Weight [kg]	8.8	8.8	9.8

*All data measured at 6 bar

SF125-90N-C
SF125-180N-C

SF125N-C

- ① Fixings for swivel unit
- ② Energy supply
- ⑥ Shock absorber
- ⑧ Fixing tool side
- ⑪ Internal positive stop
- ⑫ Fixing ANS
- ⑮ Fix stop and switch cam 90°
- ⑯ Fix stop and switch cam 180°
- ⑰ Direction of rotation
- ⑳ Fix stop with integrated shock absorber
- ㉓ Integrated slot for magnetic field sensor
- ㉔ Adapter
- ㉕ Swivel unit
- A Air connection 90°-180°
- B Air connection 0°
- A' Alternate air connection (90°-180°)
- B' Alternate air connection (0°)

Hoseless energy supply (machine)

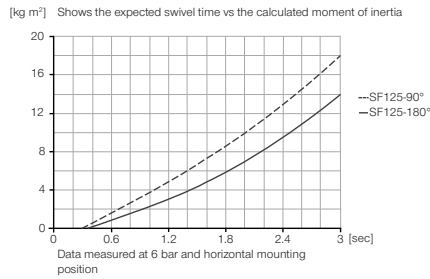
FLAT SWIVEL UNITS

INSTALLATION SIZE SF125D4-C

▶ PRODUCT SPECIFICATIONS



▶ Moment of inertia



▶ INCLUDED IN DELIVERY



Flow Control Valves - with Swivel joint
DRV1-4X8



O-Ring
COR0040150

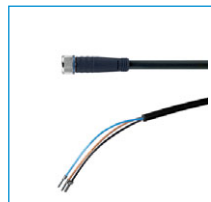
▶ RECOMMENDED ACCESSORIES



Magnetic field sensor Straight Cable 5m
MFS204KHC



Magnetic field sensor Straight Cable 0,3m - Connector M8
MFS204SKHC



Plug-in connector Straight Cable 5m - Socket M8 (female)
KAG500



Plug-in connector customizable Straight - Connector M8
S8-G-3



Pressure Safety Valve
DSV1-8

▶ RECOMMENDED ACCESSORY ATTACHMENT KIT



Attachment Kit
ANS0036



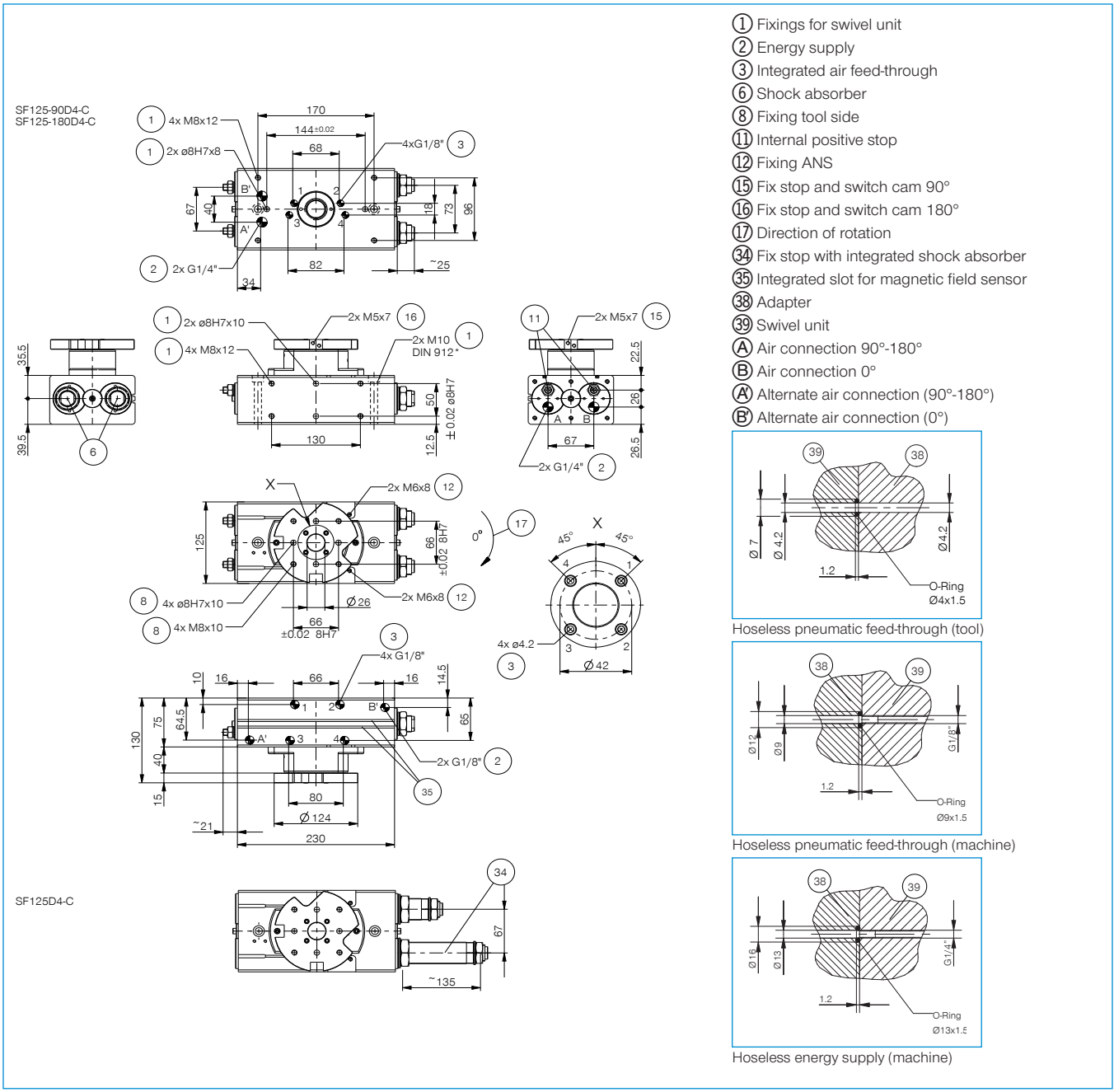
Inductive proximity switch - Cable 5m
NJ8-E2



Inductive proximity switch - Cable 5m
NJ12-E2

Order no.	► Technical Data*		
	SF125-90D4-C	SF125-180D4-C	SF125D4-C
Swivel angle [°]	90	180	0-180
Torque [Nm]	34	34	34
Swivel angle regulable +/- [°]	3	3	180
Repetition accuracy +/- [°]	0.01	0.01	0.01
Passage bore Ø [mm]	26	26	26
Axial bearing load [N]	3400	3400	3400
Radial bearing load [Nm]	391	391	391
Operating pressure min. [bar]	3	3	3
Operating pressure max. [bar]	8	8	8
Operating temperature min. [°C]	5	5	5
Operating temperature max. [°C]	+80	+80	+80
Air volume per cycle [cm ³]	220	440	440
Weight [kg]	9.5	9.5	10.5

*All data measured at 6 bar



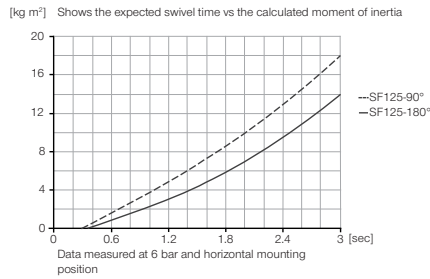
FLAT SWIVEL UNITS

INSTALLATION SIZE SF125D8-C

▶ PRODUCT SPECIFICATIONS



▶ Moment of inertia



▶ INCLUDED IN DELIVERY



Flow Control Valves - with Swivel joint

DRV1-4X8



O-Ring

COR0040150

▶ RECOMMENDED ACCESSORIES



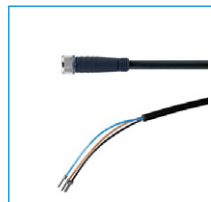
Magnetic field sensor Straight Cable 5 m

MFS204KHC



Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



Plug-in connector Straight Cable 5m - Socket M8 (female)

KAG500



Plug-in connector customizable Straight - Connector M8

S8-G-3



Pressure Safety Valve

DSV1-8

▶ RECOMMENDED ACCESSORY ATTACHMENT KIT



Attachment Kit

ANS0037



Inductive proximity switch - Cable 5 m

NJ8-E2



Inductive proximity switch - Cable 5 m

NJ12-E2

► Technical Data*

Order no.	SF125-90D8-C	SF125-180D8-C	SF125D8-C
Swivel angle [°]	90	180	0-180
Torque [Nm]	32	32	32
Swivel angle regulable +/- [°]	3	3	180
Repetition accuracy +/- [°]	0.01	0.01	0.01
Passage bore Ø [mm]	26	26	26
Axial bearing load [N]	3400	3400	3400
Radial bearing load [Nm]	391	391	391
Operating pressure min. [bar]	3	3	3
Operating pressure max. [bar]	8	8	8
Operating temperature min. [°C]	5	5	5
Operating temperature max. [°C]	+80	+80	+80
Air volume per cycle [cm³]	220	440	440
Weight [kg]	10.5	10.5	11.5

*All data measured at 6 bar

SF125-90D8-C
SF125-180D8-C

SF125D8-C

- ① Fixings for swivel unit
- ② Energy supply
- ③ Integrated air feed-through
- ⑥ Shock absorber
- ⑧ Fixing tool side
- ⑪ Internal positive stop
- ⑫ Fixing ANS
- ⑮ Fix stop and switch cam 90°
- ⑯ Fix stop and switch cam 180°
- ⑰ Direction of rotation
- ⑳ Fix stop with integrated shock absorber
- ㉓ Integrated slot for magnetic field sensor
- ㉔ Adapter
- ㉕ Swivel unit
- Ⓐ Air connection 90°-180°
- Ⓑ Air connection 0°
- Ⓐ Alternate air connection (90°-180°)
- Ⓑ Alternate air connection (0°)

Hoseless pneumatic feed-through (tool)

Hoseless pneumatic feed-through (machine)

Hoseless energy supply (machine)

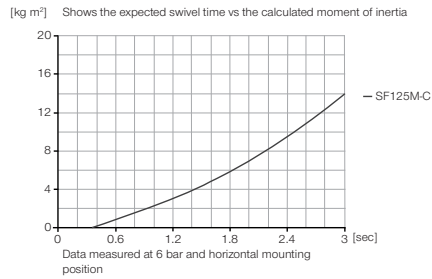
FLAT SWIVEL UNITS

INSTALLATION SIZE SF125M-C

▶ PRODUCT SPECIFICATIONS



▶ Moment of inertia



▶ INCLUDED IN DELIVERY



Flow Control Valves - with Swivel joint
DRV1-4X8



Attachment Kit
ANS0071



Commissioning USB
052650

▶ RECOMMENDED ACCESSORIES



Magnetic field sensor
Straight Cable 5 m
MFS204KHC



Magnetic field sensor
Straight Cable 0,3 m -
Connector M8
MFS204SKHC



Plug-in connector Straight
Cable 5m - Socket M8
(female)
KAG500



Plug-in connector
customizable Straight -
Connector M8
S8-G-3



Pressure Safety Valve
DSV1-8

▶ RECOMMENDED ACCESSORY ATTACHMENT KIT



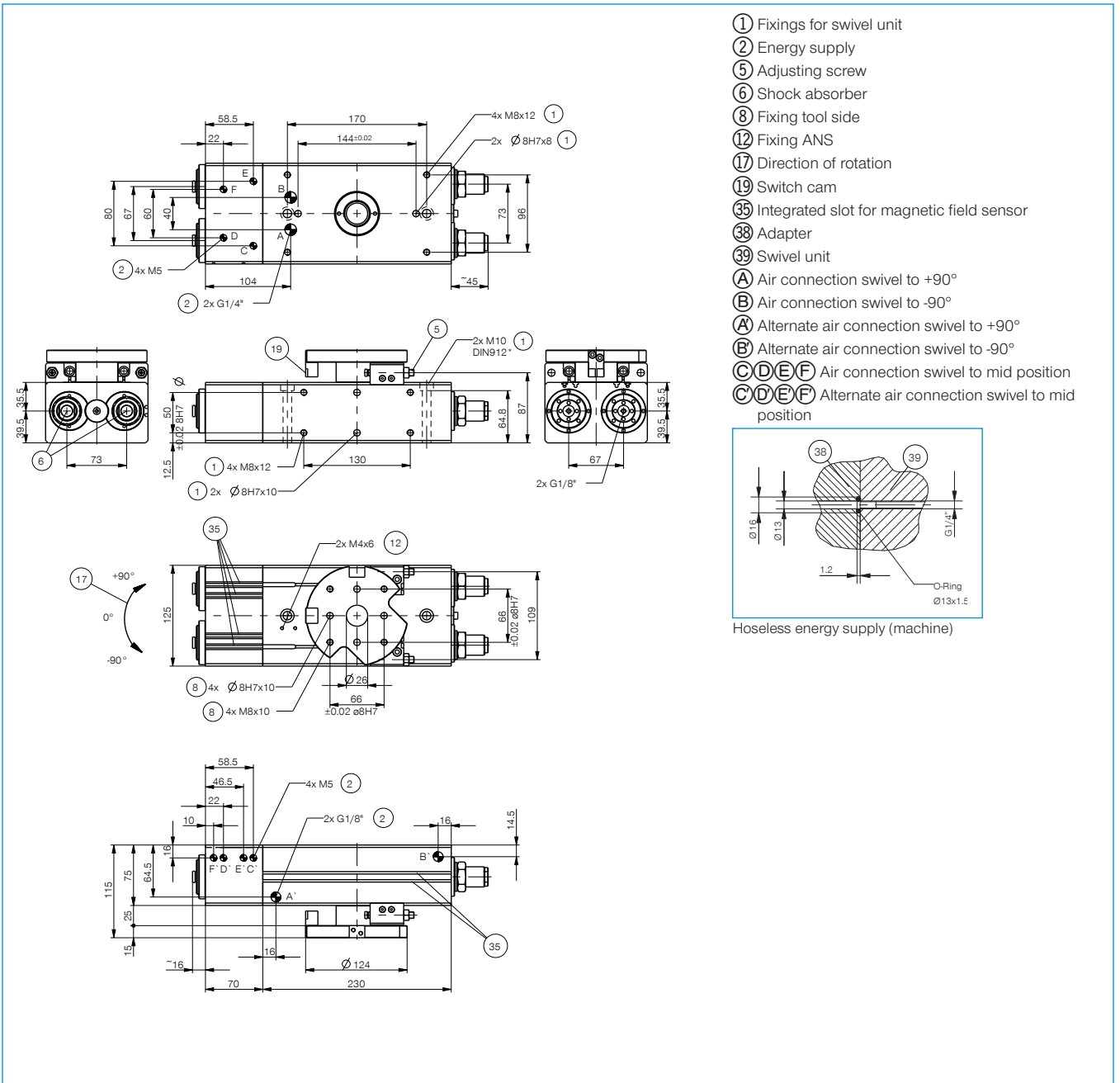
Inductive proximity switch
- Cable 5 m
NJ8-E2



Inductive proximity switch
- Cable 5 m
NJ12-E2

Order no.	Technical Data*
Swivel angle [°]	-90 / 0 / +90
Torque [Nm]	38
Swivel angle regulable +/- [°]	3
Repetition accuracy +/- [°]	0.01
Passage bore Ø [mm]	26
Axial bearing load [N]	3400
Radial bearing load [Nm]	391
Operating pressure min. [bar]	3
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm ³]	540
Weight [kg]	11.9

*All data measured at 6 bar



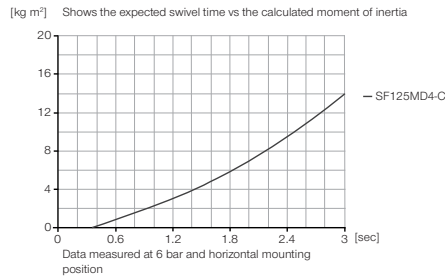
FLAT SWIVEL UNITS

INSTALLATION SIZE SF125MD4-C

▶ PRODUCT SPECIFICATIONS



▶ Moment of inertia



▶ INCLUDED IN DELIVERY



Flow Control Valves - with Swivel joint
DRV1-4X8



O-Ring
COR0040150



Attachment Kit
ANS0075



Commissioning USB
052650

▶ RECOMMENDED ACCESSORIES



Magnetic field sensor Straight Cable 5 m
MFS204KHC



Magnetic field sensor Straight Cable 0,3 m - Connector M8
MFS204SKHC



Plug-in connector Straight Cable 5m - Socket M8 (female)
KAG500



Plug-in connector customizable Straight - Connector M8
S8-G-3



Pressure Safety Valve
DSV1-8

▶ RECOMMENDED ACCESSORY ATTACHMENT KIT



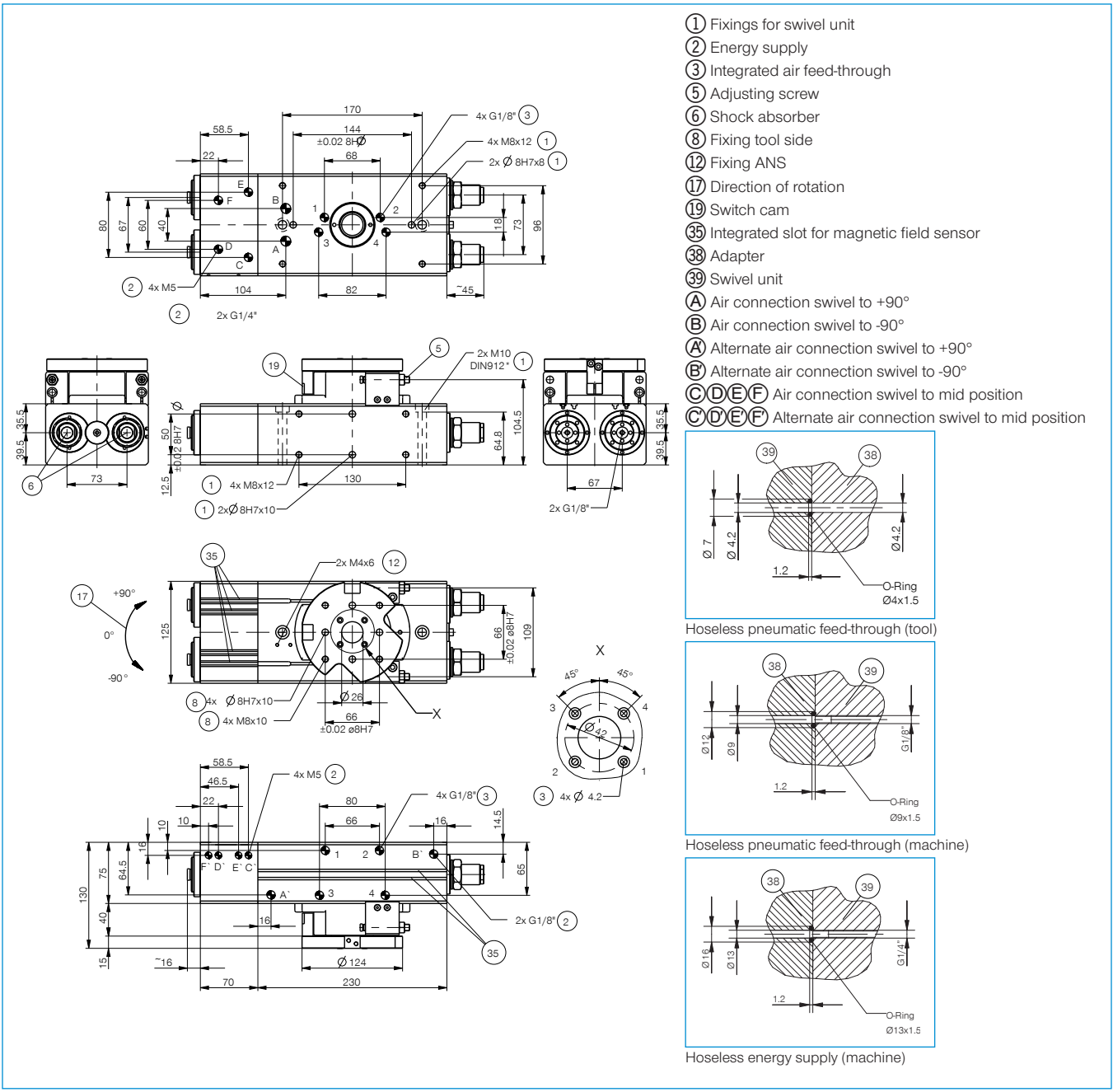
Inductive proximity switch - Cable 5 m
NJ8-E2



Inductive proximity switch - Cable 5 m
NJ12-E2

Order no.	Technical Data*
Swivel angle [°]	-90 / 0 / +90
Torque [Nm]	34
Swivel angle regulable +/- [°]	3
Repetition accuracy +/- [°]	0.01
Passage bore Ø [mm]	26
Axial bearing load [N]	3400
Radial bearing load [Nm]	391
Operating pressure min. [bar]	3
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm³]	540
Weight [kg]	12.9

*All data measured at 6 bar



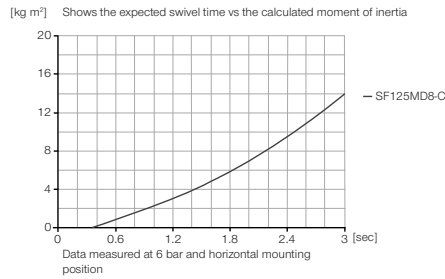
FLAT SWIVEL UNITS

INSTALLATION SIZE SF125MD8-C

▶ PRODUCT SPECIFICATIONS



▶ Moment of inertia



▶ INCLUDED IN DELIVERY



Flow Control Valves - with Swivel joint
DRV1-4X8



O-Ring
COR0040150



Attachment Kit
ANS0076



Commissioning USB
052650

▶ RECOMMENDED ACCESSORIES



Magnetic field sensor
Straight Cable 5 m
MFS204KHC



Magnetic field sensor
Straight Cable 0,3 m -
Connector M8
MFS204SKHC



Plug-in connector Straight
Cable 5m - Socket M8
(female)
KAG500



Plug-in connector
customizable Straight -
Connector M8
S8-G-3



Pressure Safety Valve
DSV1-8

▶ RECOMMENDED ACCESSORY ATTACHMENT KIT



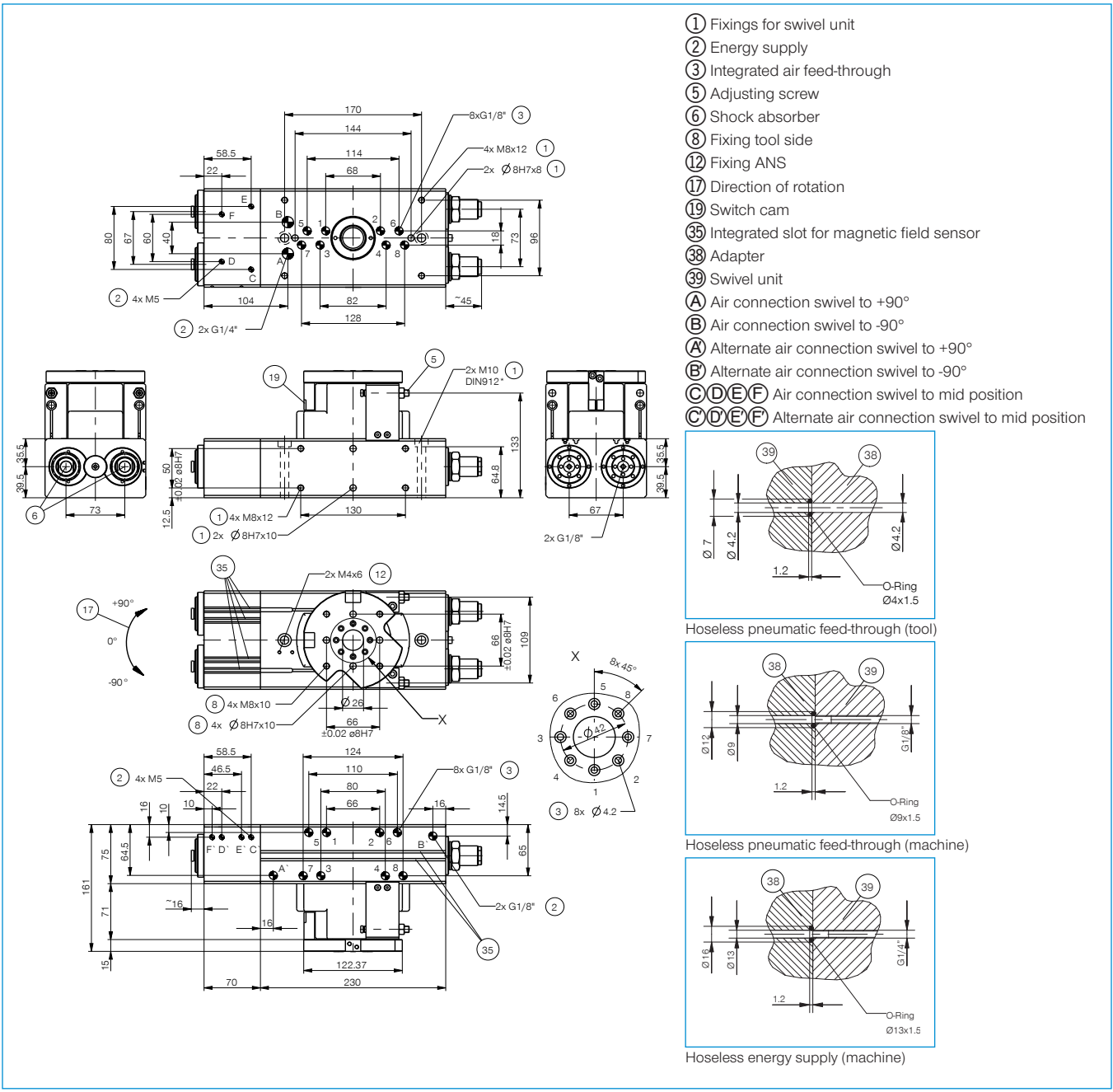
Inductive proximity switch
- Cable 5 m
NJ8-E2



Inductive proximity switch
- Cable 5 m
NJ12-E2

Order no.	Technical Data*
Swivel angle [°]	-90 / 0 / +90
Torque [Nm]	32
Swivel angle regulable +/- [°]	3
Repetition accuracy +/- [°]	0.01
Passage bore Ø [mm]	26
Axial bearing load [N]	3400
Radial bearing load [Nm]	391
Operating pressure min. [bar]	3
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm³]	540
Weight [kg]	12.9

*All data measured at 6 bar



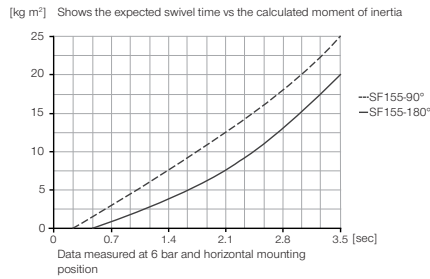
FLAT SWIVEL UNITS

INSTALLATION SIZE SF155N-C

▶ PRODUCT SPECIFICATIONS



▶ Moment of inertia



▶ INCLUDED IN DELIVERY



Flow Control Valves - with Swivel joint
DRV1-4X8

▶ RECOMMENDED ACCESSORIES



Magnetic field sensor
Straight Cable 5 m
MFS204KHC



Magnetic field sensor
Straight Cable 0,3 m -
Connector M8
MFS204SKHC



Plug-in connector Straight
Cable 5m - Socket M8
(female)
KAG500



Plug-in connector
customizable Straight -
Connector M8
S8-G-3



Pressure Safety Valve
DSV1-8

▶ RECOMMENDED ACCESSORY ATTACHMENT KIT



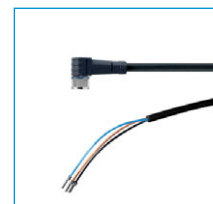
Attachment Kit
ANS0038



Inductive proximity switch
- Cable 5 m
NJ8-E2



Inductive proximity switch
- Cable 5 m
NJ12-E2



Plug-in connector Angled
Cable 5m - Socket M8
(female)
KAW500

► **Technical Data***

Order no.	SF155-90N-C	SF155-180N-C	SF155N-C
Swivel angle [°]	90	180	0-180
Torque [Nm]	62	62	62
Swivel angle regulable +/- [°]	3	3	180
Repetition accuracy +/- [°]	0.01	0.01	0.01
Passage bore Ø [mm]	40	40	40
Axial bearing load [N]	5900	5900	5900
Radial bearing load [Nm]	761	761	761
Operating pressure min. [bar]	3	3	3
Operating pressure max. [bar]	8	8	8
Operating temperature min. [°C]	5	5	5
Operating temperature max. [°C]	+80	+80	+80
Air volume per cycle [cm³]	350	700	700
Weight [kg]	15	15	16.5

*All data measured at 6 bar

SF155-90N-C
SF155-180N-C

SF155N-C

- ① Fixings for swivel unit
- ② Energy supply
- ⑥ Shock absorber
- ⑧ Fixing tool side
- ⑪ Internal positive stop
- ⑫ Fixing ANS
- ⑮ Fix stop and switch cam 90°
- ⑯ Fix stop and switch cam 180°
- ⑰ Direction of rotation
- ⑳ Fix stop with integrated shock absorber
- ㉑ Integrated slot for magnetic field sensor
- ㉒ Adapter
- ㉓ Swivel unit
- Ⓐ Air connection 90°-180°
- Ⓑ Air connection 0°
- Ⓐ Alternate air connection (90°-180°)
- Ⓑ Alternate air connection (0°)

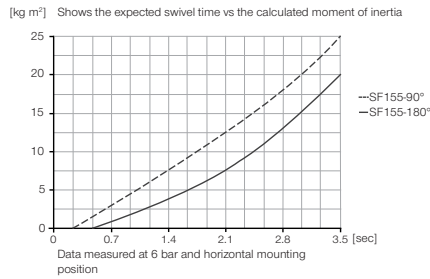
FLAT SWIVEL UNITS

INSTALLATION SIZE SF155D4-C

▶ PRODUCT SPECIFICATIONS



▶ Moment of inertia



▶ INCLUDED IN DELIVERY



Flow Control Valves - with Swivel joint
DRV1-4X8



O-Ring
COR0040150

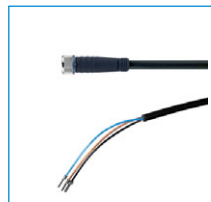
▶ RECOMMENDED ACCESSORIES



Magnetic field sensor
Straight Cable 5 m
MFS204KHC



Magnetic field sensor
Straight Cable 0,3 m -
Connector M8
MFS204SKHC



Plug-in connector Straight
Cable 5m - Socket M8
(female)
KAG500



Plug-in connector
customizable Straight -
Connector M8
S8-G-3



Pressure Safety Valve
DSV1-8

▶ RECOMMENDED ACCESSORY ATTACHMENT KIT



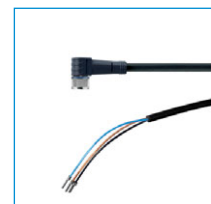
Attachment Kit
ANS0039



Inductive proximity switch
- Cable 5 m
NJ8-E2



Inductive proximity switch
- Cable 5 m
NJ12-E2



Plug-in connector Angled
Cable 5m - Socket M8
(female)
KAW500

Order no.	Technical Data*		
	SF155-90D4-C	SF155-180D4-C	SF155D4-C
Swivel angle [°]	90	180	0-180
Torque [Nm]	58	58	58
Swivel angle regulable +/- [°]	3	3	180
Repetition accuracy +/- [°]	0.01	0.01	0.01
Passage bore Ø [mm]	40	40	40
Axial bearing load [N]	5900	5900	5900
Radial bearing load [Nm]	761	761	761
Operating pressure min. [bar]	3	3	3
Operating pressure max. [bar]	8	8	8
Operating temperature min. [°C]	5	5	5
Operating temperature max. [°C]	+80	+80	+80
Air volume per cycle [cm³]	350	700	700
Weight [kg]	16	16	17.5

*All data measured at 6 bar

SF155-90D4-C
SF155-180D4-C

SF155D4-C

- ① Fixings for swivel unit
- ② Energy supply
- ③ Integrated air feed-through
- ⑥ Shock absorber
- ⑧ Fixing tool side
- ⑪ Internal positive stop
- ⑫ Fixing ANS
- ⑮ Fix stop and switch cam 90°
- ⑯ Fix stop and switch cam 180°
- ⑰ Direction of rotation
- ⑳ Fix stop with integrated shock absorber
- ㉓ Integrated slot for magnetic field sensor
- ㉔ Adapter
- ㉕ Swivel unit
- Ⓐ Air connection 90°-180°
- Ⓑ Air connection 0°
- Ⓐ Alternate air connection (90°-180°)
- Ⓑ Alternate air connection (0°)

Hoseless pneumatic feed-through (tool)

Hoseless pneumatic feed-through (machine)

Hoseless energy supply (machine)

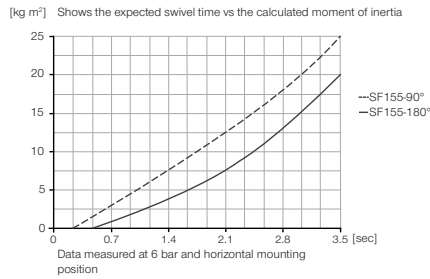
FLAT SWIVEL UNITS

INSTALLATION SIZE SF155D8-C

▶ PRODUCT SPECIFICATIONS



▶ Moment of inertia



▶ INCLUDED IN DELIVERY



Flow Control Valves - with Swivel joint
DRV1-4X8



O-Ring
COR0040150

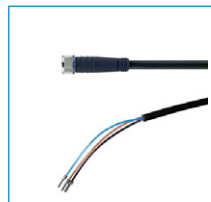
▶ RECOMMENDED ACCESSORIES



Magnetic field sensor
Straight Cable 5m
MFS204KHC



Magnetic field sensor
Straight Cable 0,3m -
Connector M8
MFS204SKHC



Plug-in connector Straight
Cable 5m - Socket M8
(female)
KAG500



Plug-in connector
customizable Straight -
Connector M8
S8-G-3



Pressure Safety Valve
DSV1-8

▶ RECOMMENDED ACCESSORY ATTACHMENT KIT



Attachment Kit
ANS0040



Inductive proximity switch
- Cable 5m
NJ8-E2



Inductive proximity switch
- Cable 5m
NJ12-E2



Plug-in connector Angled
Cable 5m - Socket M8
(female)
KAW500

Order no.	Technical Data*		
	SF155-90D8-C	SF155-180D8-C	SF155D8-C
Swivel angle [°]	90	180	0-180
Torque [Nm]	54	54	54
Swivel angle regulable +/- [°]	3	3	180
Repetition accuracy +/- [°]	0.01	0.01	0.01
Passage bore Ø [mm]	40	40	40
Axial bearing load [N]	5900	5900	5900
Radial bearing load [Nm]	761	761	761
Operating pressure min. [bar]	3	3	3
Operating pressure max. [bar]	8	8	8
Operating temperature min. [°C]	5	5	5
Operating temperature max. [°C]	+80	+80	+80
Air volume per cycle [cm³]	350	700	700
Weight [kg]	17.5	17.5	19

*All data measured at 6 bar

SF155-90D8-C
SF155-180D8-C

SF155D8-C

- ① Fixings for swivel unit
- ② Energy supply
- ③ Integrated air feed-through
- ⑥ Shock absorber
- ⑧ Fixing tool side
- ⑪ Internal positive stop
- ⑫ Fixing ANS
- ⑮ Fix stop and switch cam 90°
- ⑯ Fix stop and switch cam 180°
- ⑰ Direction of rotation
- ⑳ Fix stop with integrated shock absorber
- ㉑ Integrated slot for magnetic field sensor
- ㉒ Adapter
- ㉓ Swivel unit
- Ⓐ Air connection 90°-180°
- Ⓑ Air connection 0°
- Ⓐ Alternate air connection (90°-180°)
- Ⓑ Alternate air connection (0°)

Hoseless pneumatic feed-through (tool)

Hoseless pneumatic feed-through (machine)

Hoseless energy supply (machine)

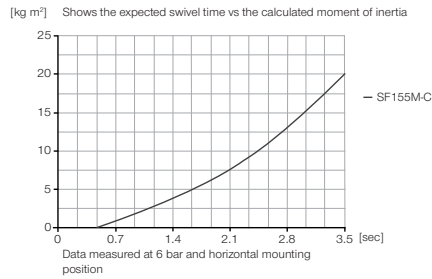
FLAT SWIVEL UNITS

INSTALLATION SIZE SF155M-C

▶ PRODUCT SPECIFICATIONS



▶ Moment of inertia



▶ INCLUDED IN DELIVERY



Flow Control Valves - with Swivel joint
DRV1-4X8



Attachment Kit
ANS0077



Commissioning USB
052650

▶ RECOMMENDED ACCESSORIES



Magnetic field sensor
Straight Cable 5 m
MFS204KHC



Magnetic field sensor
Straight Cable 0,3 m -
Connector M8
MFS204SKHC



Plug-in connector Straight
Cable 5m - Socket M8
(female)
KAG500



Plug-in connector
customizable Straight -
Connector M8
S8-G-3



Pressure Safety Valve
DSV1-8

▶ RECOMMENDED ACCESSORY ATTACHMENT KIT



Inductive proximity switch
- Cable 5 m
NJ8-E2



Inductive proximity switch
- Cable 5 m
NJ12-E2

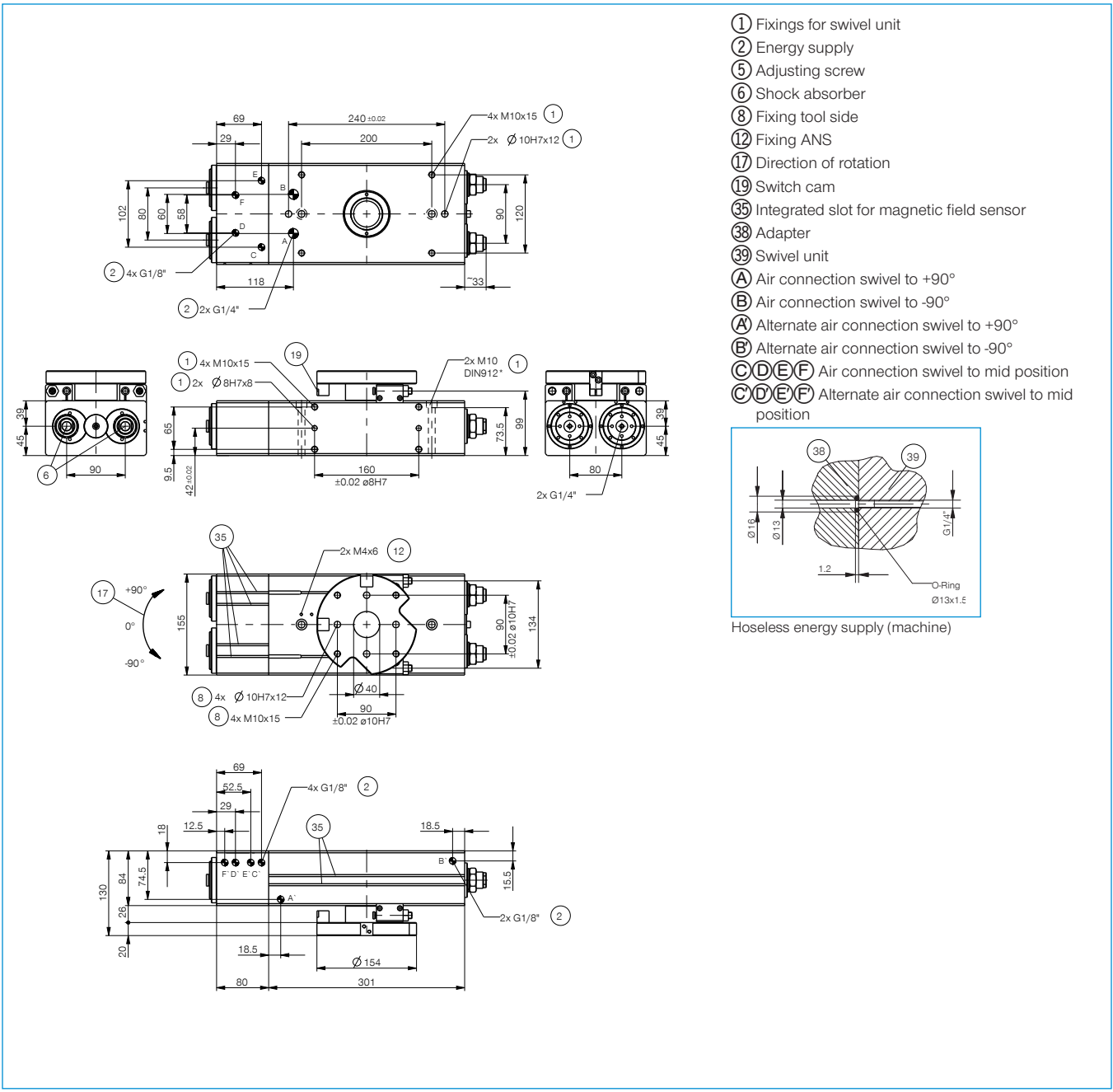


Plug-in connector Angled
Cable 5m - Socket M8
(female)
KAW500

► Technical Data*

Order no.	SF155M-C
Swivel angle [°]	-90 / 0 / +90
Torque [Nm]	62
Swivel angle regulable +/- [°]	3
Repetition accuracy +/- [°]	0.01
Passage bore Ø [mm]	40
Axial bearing load [N]	5900
Radial bearing load [Nm]	761
Operating pressure min. [bar]	3
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm³]	1010
Weight [kg]	19.3

*All data measured at 6 bar



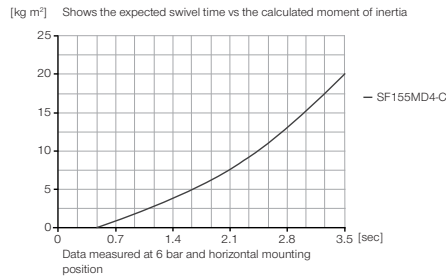
FLAT SWIVEL UNITS

INSTALLATION SIZE SF155MD4-C

▶ PRODUCT SPECIFICATIONS



▶ Moment of inertia



▶ INCLUDED IN DELIVERY



Flow Control Valves - with Swivel joint
DRV1-4X8



O-Ring
COR0040150



Attachment Kit
ANS0078



Commissioning USB
052650

▶ RECOMMENDED ACCESSORIES



Magnetic field sensor
Straight Cable 5 m
MFS204KHC



Magnetic field sensor
Straight Cable 0,3 m -
Connector M8
MFS204SKHC



Plug-in connector Straight
Cable 5m - Socket M8
(female)
KAG500



Plug-in connector
customizable Straight -
Connector M8
S8-G-3



Pressure Safety Valve
DSV1-8

▶ RECOMMENDED ACCESSORY ATTACHMENT KIT



Inductive proximity switch
- Cable 5 m
NJ8-E2



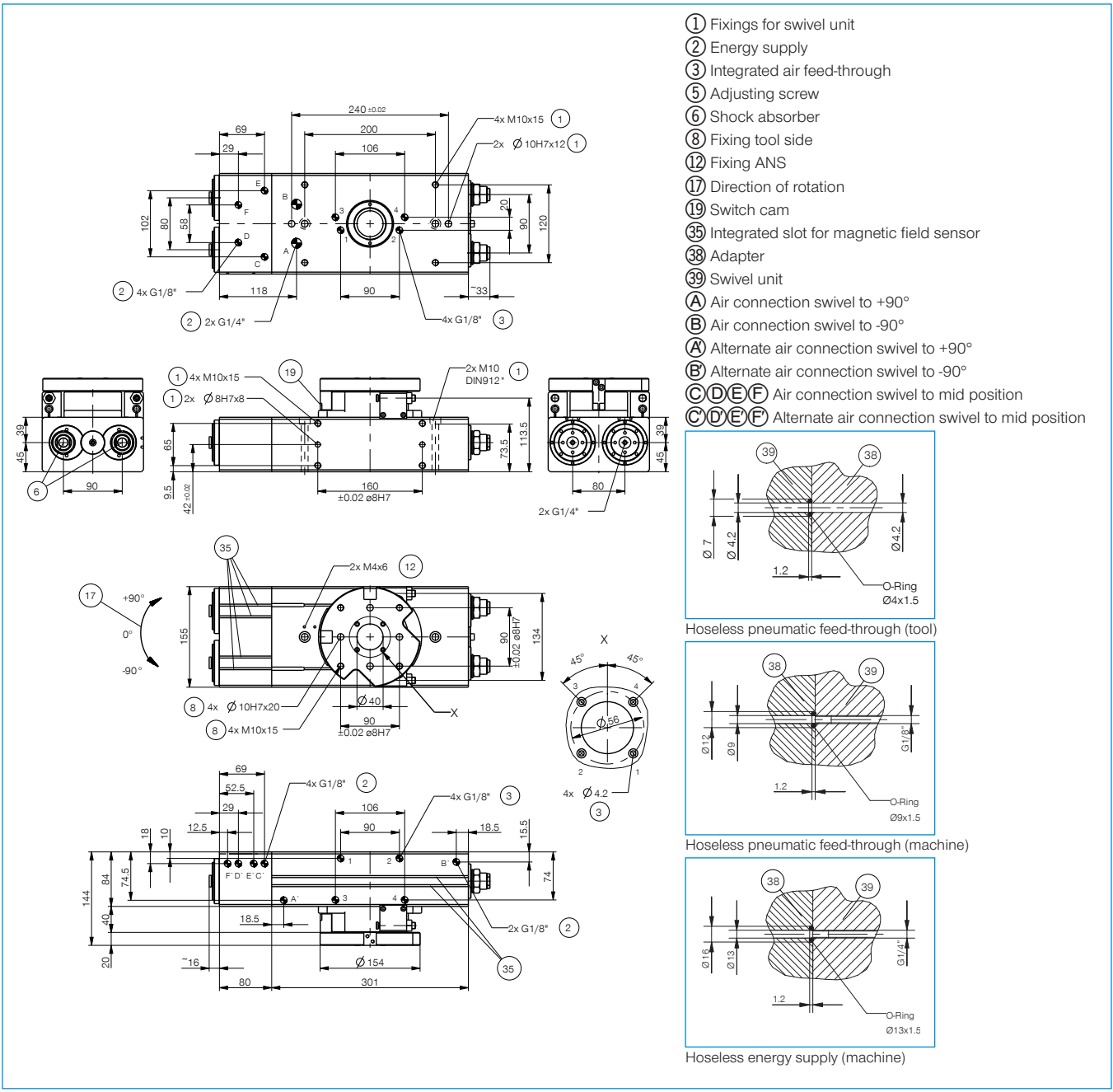
Inductive proximity switch
- Cable 5 m
NJ12-E2



Plug-in connector Angled
Cable 5m - Socket M8
(female)
KAW500

► Technical Data*	
Order no.	SF155MD4-C
Swivel angle [°]	-90 / 0 / +90
Torque [Nm]	58
Swivel angle regulable +/- [°]	3
Repetition accuracy +/- [°]	0.01
Passage bore Ø [mm]	40
Axial bearing load [N]	5900
Radial bearing load [Nm]	761
Operating pressure min. [bar]	3
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm³]	1010
Weight [kg]	20.3

*All data measured at 6 bar



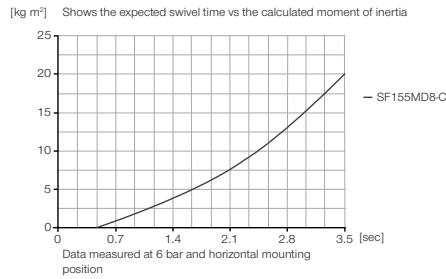
FLAT SWIVEL UNITS

INSTALLATION SIZE SF155MD8-C

▶ PRODUCT SPECIFICATIONS



▶ Moment of inertia



▶ INCLUDED IN DELIVERY



Flow Control Valves - with Swivel joint
DRV1-4X8



O-Ring
COR0040150



Attachment Kit
ANS0079



Commissioning USB
052650

▶ RECOMMENDED ACCESSORIES



Magnetic field sensor Straight Cable 5 m
MFS204KHC



Magnetic field sensor Straight Cable 0,3 m - Connector M8
MFS204SKHC



Plug-in connector Straight Cable 5m - Socket M8 (female)
KAG500



Plug-in connector customizable Straight - Connector M8
S8-G-3



Pressure Safety Valve
DSV1-8

▶ RECOMMENDED ACCESSORY ATTACHMENT KIT



Inductive proximity switch - Cable 5 m
NJ8-E2



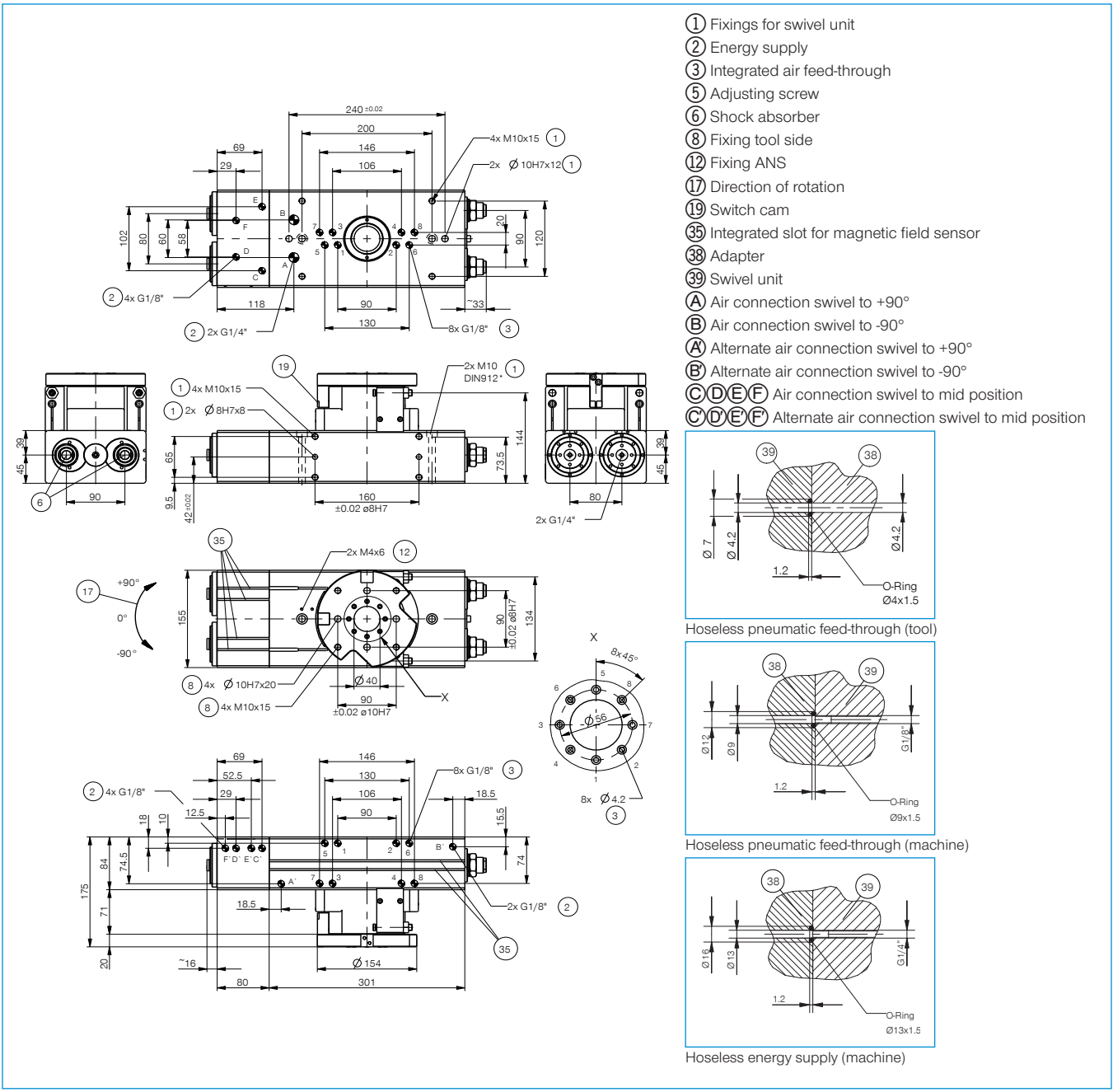
Inductive proximity switch - Cable 5 m
NJ12-E2



Plug-in connector Angled Cable 5m - Socket M8 (female)
KAW500

► Technical Data*	
Order no.	SF155MD8-C
Swivel angle [°]	-90 / 0 / +90
Torque [Nm]	54
Swivel angle regulable +/- [°]	3
Repetition accuracy +/- [°]	0.01
Passage bore Ø [mm]	40
Axial bearing load [N]	5900
Radial bearing load [Nm]	761
Operating pressure min. [bar]	3
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm³]	1010
Weight [kg]	21.8

*All data measured at 6 bar



FLAT SWIVEL UNITS

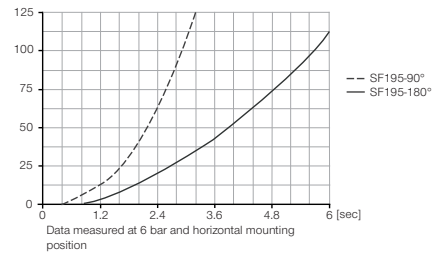
INSTALLATION SIZE SF195N-C

▶ PRODUCT SPECIFICATIONS



▶ Moment of inertia

[kg m²] Shows the expected swivel time vs the calculated moment of inertia



▶ INCLUDED IN DELIVERY



Flow Control Valves - with Swivel joint

DRV1-4X8

▶ RECOMMENDED ACCESSORIES



Magnetic field sensor
Straight Cable 5m

MFS204KHC



Magnetic field sensor
Straight Cable 0,3m -
Connector M8

MFS204SKHC



Plug-in connector Straight
Cable 5m - Socket M8
(female)

KAG500



Plug-in connector
customizable Straight -
Connector M8

S8-G-3



Pressure Safety Valve

DSV1-8

▶ RECOMMENDED ACCESSORY ATTACHMENT KIT



Attachment Kit

ANS0041



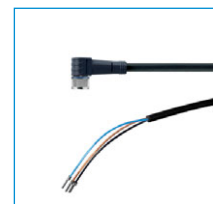
Inductive proximity switch
- Cable 5m

NJ8-E2



Inductive proximity switch
- Cable 5m

NJ12-E2



Plug-in connector Angled
Cable 5m - Socket M8
(female)

KAW500

► Technical Data*

Order no.	SF195-90N-C	SF195-180N-C	SF195N-C
Swivel angle [°]	90	180	0-180
Torque [Nm]	130	130	130
Swivel angle regulable +/- [°]	3	3	180
Repetition accuracy +/- [°]	0.01	0.01	0.01
Passage bore Ø [mm]	40	40	40
Axial bearing load [N]	7000	7000	7000
Radial bearing load [Nm]	1253	1253	1253
Operating pressure min. [bar]	3	3	3
Operating pressure max. [bar]	8	8	8
Operating temperature min. [°C]	5	5	5
Operating temperature max. [°C]	+80	+80	+80
Air volume per cycle [cm³]	740	1480	1480
Weight [kg]	27.5	27.5	29.5

*All data measured at 6 bar

SF195-90N-C
SF195-180N-C

SF195N-C

- ① Fixings for swivel unit
- ② Energy supply
- ⑥ Shock absorber
- ⑧ Fixing tool side
- ⑪ Internal positive stop
- ⑫ Fixing ANS
- ⑮ Fix stop and switch cam 90°
- ⑯ Fix stop and switch cam 180°
- ⑰ Direction of rotation
- ⑳ Fix stop with integrated shock absorber
- ㉓ Integrated slot for magnetic field sensor
- ㉔ Adapter
- ㉕ Swivel unit
- A Air connection 90°-180°
- B Air connection 0°
- A Alternate air connection (90°-180°)
- B Alternate air connection (0°)

Hoseless energy supply (machine)

FLAT SWIVEL UNITS

INSTALLATION SIZE SF195D4-C

▶ PRODUCT SPECIFICATIONS



▶ Moment of inertia

[kg m²] Shows the expected swivel time vs the calculated moment of inertia



▶ INCLUDED IN DELIVERY



Flow Control Valves - with Swivel joint

DRV1-4X8



O-Ring

COR0050100

▶ RECOMMENDED ACCESSORIES



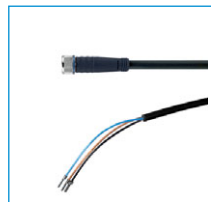
Magnetic field sensor
Straight Cable 5m

MFS204KHC



Magnetic field sensor
Straight Cable 0,3 m -
Connector M8

MFS204SKHC



Plug-in connector Straight
Cable 5m - Socket M8
(female)

KAG500



Plug-in connector
customizable Straight -
Connector M8

S8-G-3



Pressure Safety Valve

DSV1-8

▶ RECOMMENDED ACCESSORY ATTACHMENT KIT



Attachment Kit

ANS0042



Inductive proximity switch
- Cable 5m

NJ8-E2



Inductive proximity switch
- Cable 5m

NJ12-E2



Plug-in connector Angled
Cable 5m - Socket M8
(female)

KAW500

► Technical Data*

Order no.	SF195-90D4-C	SF195-180D4-C	SF195D4-C
Swivel angle [°]	90	180	0-180
Torque [Nm]	125	125	125
Swivel angle regulable +/- [°]	3	3	180
Repetition accuracy +/- [°]	0.01	0.01	0.01
Passage bore Ø [mm]	40	40	40
Axial bearing load [N]	7000	7000	7000
Radial bearing load [Nm]	1253	1253	1253
Operating pressure min. [bar]	3	3	3
Operating pressure max. [bar]	8	8	8
Operating temperature min. [°C]	5	5	5
Operating temperature max. [°C]	+80	+80	+80
Air volume per cycle [cm³]	740	1480	1480
Weight [kg]	29	29	31

*All data measured at 6 bar

SF195-90D4-C
SF195-180D4-C

SF195D4-C

- ① Fixings for swivel unit
- ② Energy supply
- ⑥ Shock absorber
- ⑧ Fixing tool side
- ⑪ Internal positive stop
- ⑫ Fixing ANS
- ⑮ Fix stop and switch cam 90°
- ⑯ Fix stop and switch cam 180°
- ⑰ Direction of rotation
- ⑳ Fix stop with integrated shock absorber
- ㉑ Integrated slot for magnetic field sensor
- ㉒ Adapter
- ㉓ Swivel unit
- A Air connection 90°-180°
- B Air connection 0°
- A' Alternate air connection (90°-180°)
- B' Alternate air connection (0°)

Hoseless pneumatic feed-through (tool)

Hoseless pneumatic feed-through (machine)

Hoseless energy supply (machine)

FLAT SWIVEL UNITS

INSTALLATION SIZE SF195D8-C

▶ PRODUCT SPECIFICATIONS



▶ Moment of inertia

[kg m²] Shows the expected swivel time vs the calculated moment of inertia



▶ INCLUDED IN DELIVERY



Flow Control Valves - with Swivel joint

DRV1-4X8



O-Ring

COR0050100

▶ RECOMMENDED ACCESSORIES



Magnetic field sensor
Straight Cable 5 m

MFS204KHC



Magnetic field sensor
Straight Cable 0,3 m -
Connector M8

MFS204SKHC



Plug-in connector Straight
Cable 5m - Socket M8
(female)

KAG500



Plug-in connector
customizable Straight -
Connector M8

S8-G-3



Pressure Safety Valve

DSV1-8

▶ RECOMMENDED ACCESSORY ATTACHMENT KIT



Attachment Kit

ANS0043



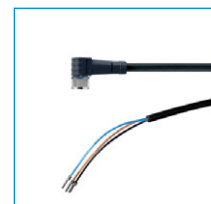
Inductive proximity switch
- Cable 5 m

NJ8-E2



Inductive proximity switch
- Cable 5 m

NJ12-E2



Plug-in connector Angled
Cable 5m - Socket M8
(female)

KAW500

Order no.	Technical Data*		
	SF195-90D8-C	SF195-180D8-C	SF195D8-C
Swivel angle [°]	90	180	0-180
Torque [Nm]	120	120	120
Swivel angle regulable +/- [°]	3	3	180
Repetition accuracy +/- [°]	0.01	0.01	0.01
Passage bore Ø [mm]	40	40	40
Axial bearing load [N]	7000	7000	7000
Radial bearing load [Nm]	1253	1253	1253
Operating pressure min. [bar]	3	3	3
Operating pressure max. [bar]	8	8	8
Operating temperature min. [°C]	5	5	5
Operating temperature max. [°C]	+80	+80	+80
Air volume per cycle [cm³]	740	1480	1480
Weight [kg]	31.5	31.5	33.5

*All data measured at 6 bar

SF195-90D8-C
SF195-180D8-C

SF195D8-C

- ① Fixings for swivel unit
- ② Energy supply
- ⑥ Shock absorber
- ⑧ Fixing tool side
- ⑪ Internal positive stop
- ⑫ Fixing ANS
- ⑮ Fix stop and switch cam 90°
- ⑯ Fix stop and switch cam 180°
- ⑰ Direction of rotation
- ⑳ Fix stop with integrated shock absorber
- ㉓ Integrated slot for magnetic field sensor
- ㉔ Adapter
- ㉕ Swivel unit
- A Air connection 90°-180°
- B Air connection 0°
- A Alternate air connection (90°-180°)
- B Alternate air connection (0°)

Hoseless pneumatic feed-through (tool)

Hoseless pneumatic feed-through (machine)

Hoseless energy supply (machine)

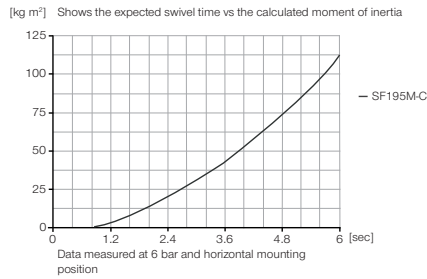
FLAT SWIVEL UNITS

INSTALLATION SIZE SF195M-C

▶ PRODUCT SPECIFICATIONS



▶ Moment of inertia



▶ INCLUDED IN DELIVERY



Flow Control Valves - with Swivel joint
DRV1-4X8



Attachment Kit
ANS0080



Commissioning USB
052650

▶ RECOMMENDED ACCESSORIES



Magnetic field sensor
Straight Cable 5 m
MFS204KHC



Magnetic field sensor
Straight Cable 0,3 m -
Connector M8
MFS204SKHC



Plug-in connector Straight
Cable 5m - Socket M8
(female)
KAG500



Plug-in connector
customizable Straight -
Connector M8
S8-G-3



Pressure Safety Valve
DSV1-8

▶ RECOMMENDED ACCESSORY ATTACHMENT KIT



Inductive proximity switch
- Cable 5 m
NJ8-E2



Inductive proximity switch
- Cable 5 m
NJ12-E2

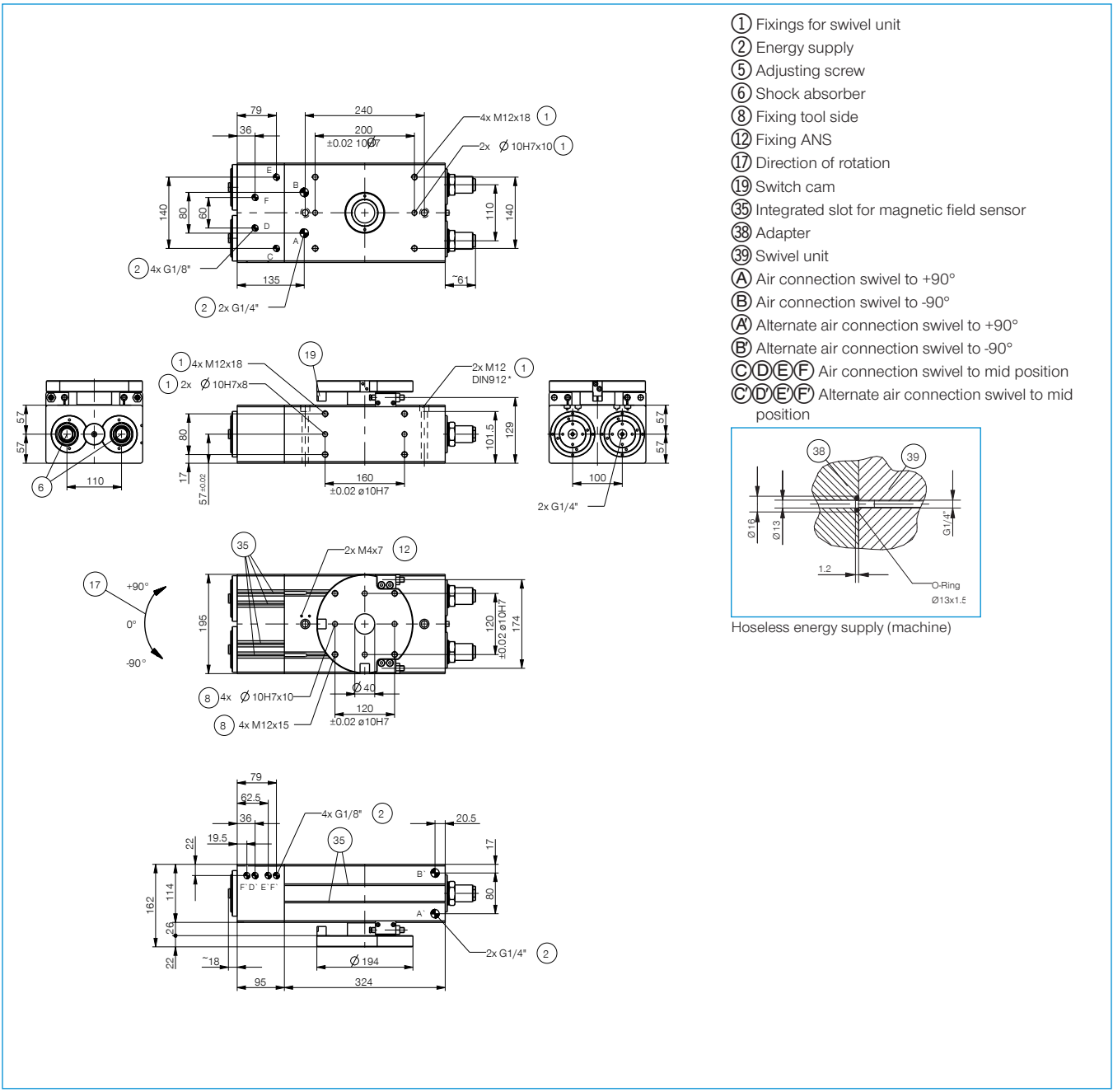


Plug-in connector Angled
Cable 5m - Socket M8
(female)
KAW500

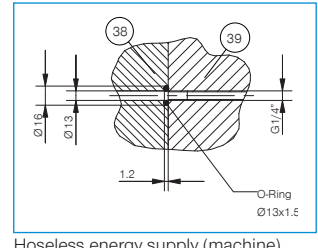
► Technical Data*

Order no.	SF195M-C
Swivel angle [°]	-90 / 0 / +90
Torque [Nm]	130
Swivel angle regulable +/- [°]	3
Repetition accuracy +/- [°]	0.01
Passage bore Ø [mm]	40
Axial bearing load [N]	7000
Radial bearing load [Nm]	1253
Operating pressure min. [bar]	3
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm³]	2035
Weight [kg]	37.1

*All data measured at 6 bar



- ① Fixings for swivel unit
- ② Energy supply
- ⑤ Adjusting screw
- ⑥ Shock absorber
- ⑧ Fixing tool side
- ⑫ Fixing ANS
- ⑰ Direction of rotation
- ⑲ Switch cam
- ⑳ Integrated slot for magnetic field sensor
- ㉔ Adapter
- ㉕ Swivel unit
- Ⓐ Air connection swivel to +90°
- Ⓑ Air connection swivel to -90°
- Ⓐ Alternate air connection swivel to +90°
- Ⓑ Alternate air connection swivel to -90°
- Ⓒ Ⓓ Ⓔ Ⓕ Air connection swivel to mid position
- Ⓒ Ⓓ Ⓔ Ⓕ Alternate air connection swivel to mid position



Hoseless energy supply (machine)

FLAT SWIVEL UNITS

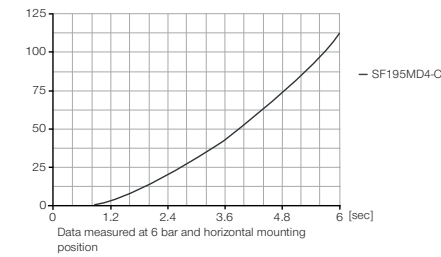
INSTALLATION SIZE SF195MD4-C

▶ PRODUCT SPECIFICATIONS



▶ Moment of inertia

[kg m²] Shows the expected swivel time vs the calculated moment of inertia



▶ INCLUDED IN DELIVERY



Flow Control Valves - with Swivel joint
DRV1-4X8



O-Ring
COR0050100



Attachment Kit
ANS0081



Commissioning USB
052650

▶ RECOMMENDED ACCESSORIES



Magnetic field sensor
Straight Cable 5 m
MFS204KHC



Magnetic field sensor
Straight Cable 0,3 m -
Connector M8
MFS204SKHC



Plug-in connector Straight
Cable 5m - Socket M8
(female)
KAG500



Plug-in connector
customizable Straight -
Connector M8
S8-G-3



Pressure Safety Valve
DSV1-8

▶ RECOMMENDED ACCESSORY ATTACHMENT KIT



Inductive proximity switch
- Cable 5 m
NJ8-E2



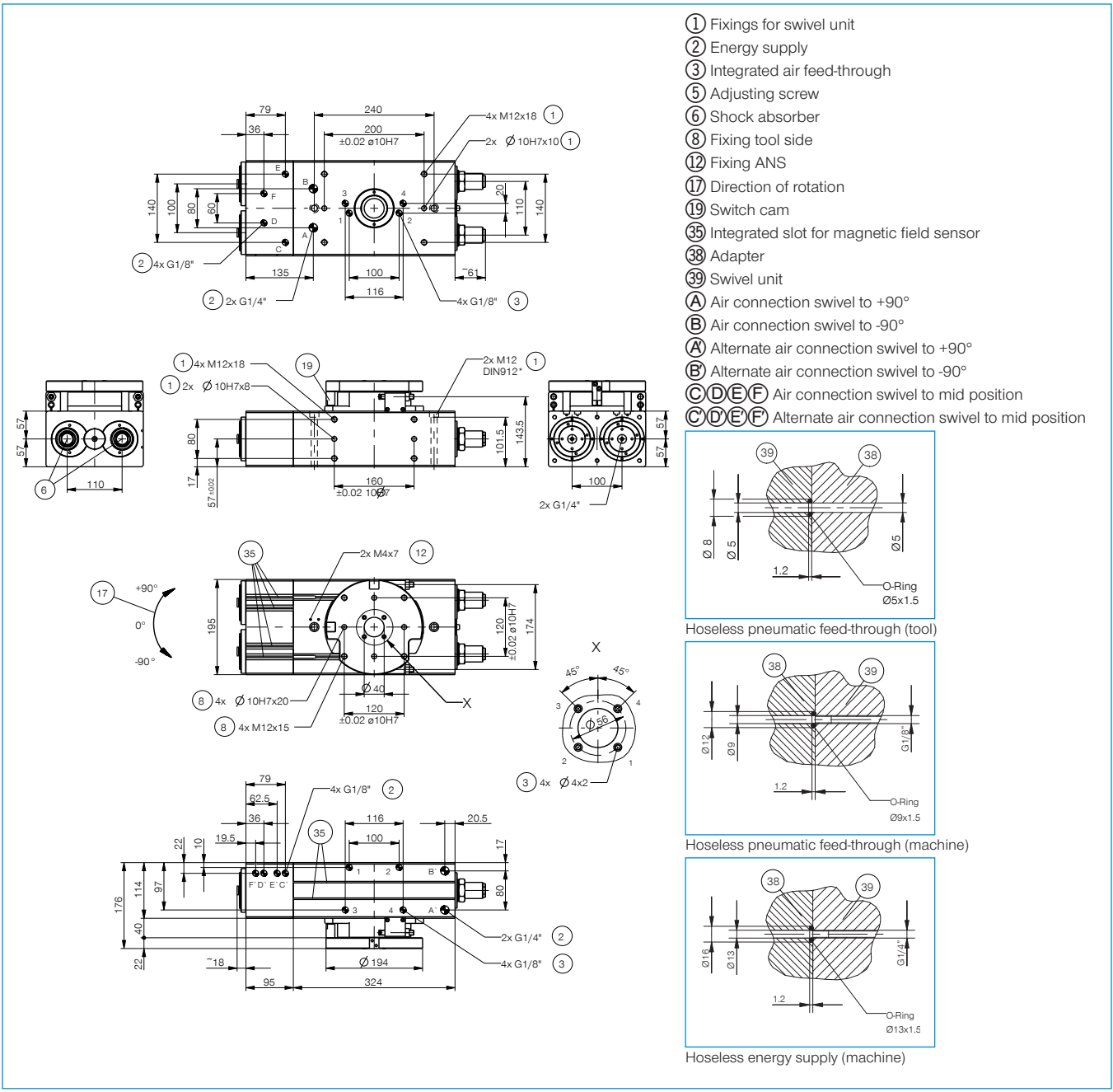
Inductive proximity switch
- Cable 5 m
NJ12-E2



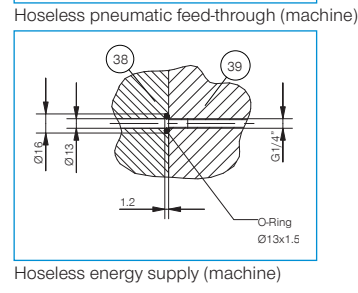
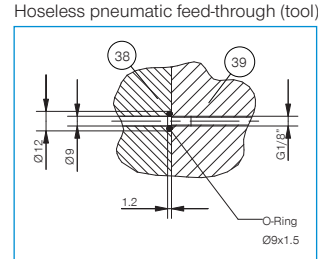
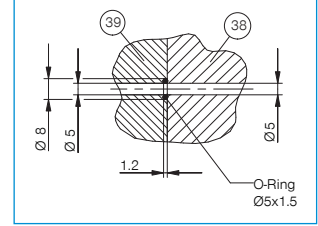
Plug-in connector Angled
Cable 5m - Socket M8
(female)
KAW500

► Technical Data*	
Order no.	SF195MD4-C
Swivel angle [°]	-90 / 0 / +90
Torque [Nm]	125
Swivel angle regulable +/- [°]	3
Repetition accuracy +/- [°]	0.01
Passage bore Ø [mm]	40
Axial bearing load [N]	7000
Radial bearing load [Nm]	1253
Operating pressure min. [bar]	3
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm³]	2035
Weight [kg]	41.1

*All data measured at 6 bar



- ① Fixings for swivel unit
- ② Energy supply
- ③ Integrated air feed-through
- ⑤ Adjusting screw
- ⑥ Shock absorber
- ⑧ Fixing tool side
- ⑫ Fixing ANS
- ⑰ Direction of rotation
- ⑱ Switch cam
- ⑳ Integrated slot for magnetic field sensor
- ㉓ Adapter
- ㉔ Swivel unit
- Ⓐ Air connection swivel to +90°
- Ⓑ Air connection swivel to -90°
- Ⓒ Alternate air connection swivel to +90°
- Ⓓ Alternate air connection swivel to -90°
- Ⓔ Air connection swivel to mid position
- Ⓕ Alternate air connection swivel to mid position



FLAT SWIVEL UNITS

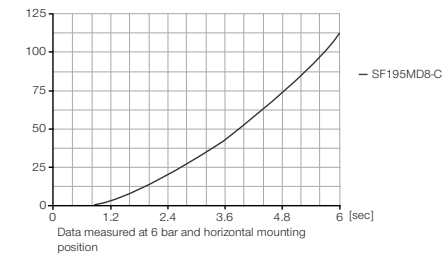
INSTALLATION SIZE SF195MD8-C

▶ PRODUCT SPECIFICATIONS



▶ Moment of inertia

[kg m²] Shows the expected swivel time vs the calculated moment of inertia



▶ INCLUDED IN DELIVERY



Flow Control Valves - with Swivel joint
DRV1-4X8



O-Ring
COR0050100



Attachment Kit
ANS0082



Commissioning USB
052650

▶ RECOMMENDED ACCESSORIES



Magnetic field sensor Straight Cable 5 m
MFS204KHC



Magnetic field sensor Straight Cable 0,3 m - Connector M8
MFS204SKHC



Plug-in connector Straight Cable 5m - Socket M8 (female)
KAG500



Plug-in connector customizable Straight - Connector M8
S8-G-3



Pressure Safety Valve
DSV1-8

▶ RECOMMENDED ACCESSORY ATTACHMENT KIT



Inductive proximity switch - Cable 5 m
NJ8-E2



Inductive proximity switch - Cable 5 m
NJ12-E2

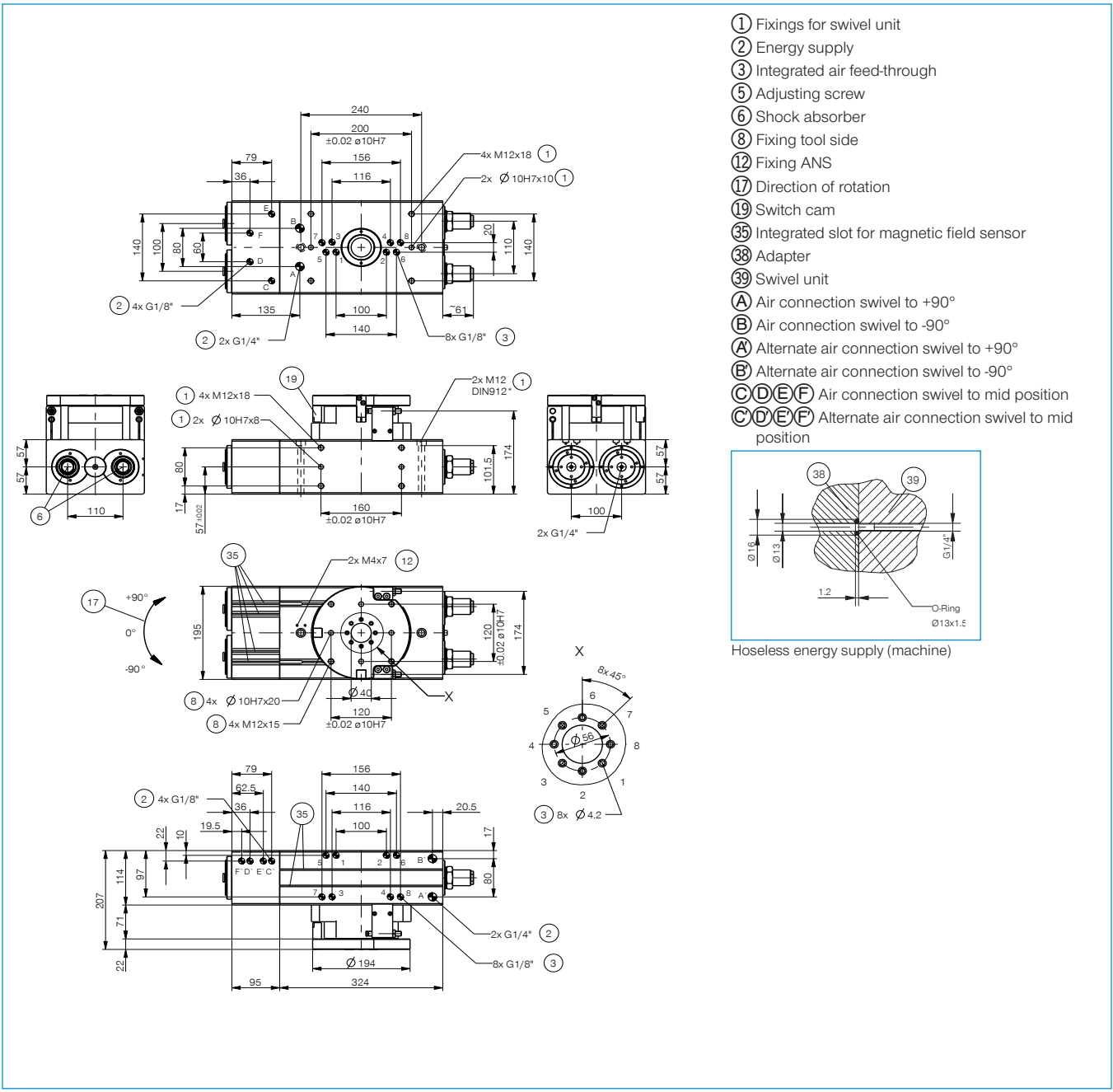


Plug-in connector Angled Cable 5m - Socket M8 (female)
KAW500

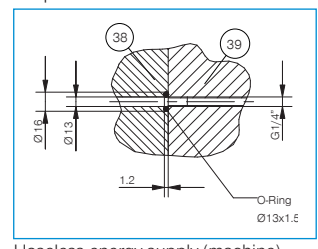
► Technical Data*

Order no.	SF195MD8-C
Swivel angle [°]	-90 / 0 / +90
Torque [Nm]	120
Swivel angle regulable +/- [°]	3
Repetition accuracy +/- [°]	0.01
Passage bore Ø [mm]	40
Axial bearing load [N]	7000
Radial bearing load [Nm]	1253
Operating pressure min. [bar]	3
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm³]	2035
Weight [kg]	41.1

*All data measured at 6 bar



- ① Fixings for swivel unit
- ② Energy supply
- ③ Integrated air feed-through
- ⑤ Adjusting screw
- ⑥ Shock absorber
- ⑧ Fixing tool side
- ⑫ Fixing ANS
- ⑰ Direction of rotation
- ⑲ Switch cam
- ⑳ Integrated slot for magnetic field sensor
- ㉔ Adapter
- ㉕ Swivel unit
- Ⓐ Air connection swivel to +90°
- Ⓑ Alternate air connection swivel to -90°
- Ⓒ Air connection swivel to mid position
- Ⓓ Alternate air connection swivel to mid position



Hoseless energy supply (machine)

FLAT SWIVEL UNITS

OVERVIEW OF SERIES



▶ ELECTRICAL



Series DES

656

FLAT SWIVEL UNITS

SERIES DES

▶ PRODUCT ADVANTAGES



“The unique”

▶ Decide for yourself!

With the standard motor or motors from another manufacturer - You decide what harmonises the best with your system

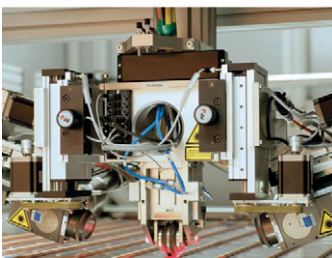
▶ Integrated media transmission

The D1 media exchanger makes cable breaks and undefined interference contours through the power supply line a thing of the past

▶ Freely positionable

No matter whether your task involves rotating, lifting or cycling: The unit is universally usable and can be uniquely adjusted to your application

▶ THE BEST PRODUCT FOR YOUR APPLICATION



▶ Our products love the challenge!

Extreme conditions, all over the world—our tried and tested components and systems give you limitless possibilities:

Find the best product for your specific use:

www.zimmer-group.com

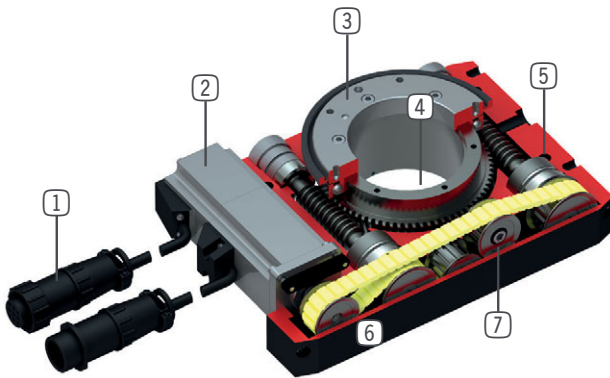
HOW TO ORDER CORRECTLY

- ▶ The product order numbers are arranged according to this diagram:

Order no.	DES140	<input type="checkbox"/>	<input type="checkbox"/>	
Feed-through, 12x electrical, 1x pneumatic		D1		
Unpowered; installation provided by customer			-99	



► BENEFITS IN DETAIL

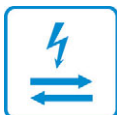


- 1 Energy supply**
 - motor cable, female
 - encoder cable, male
- 2 Drive**
 - AC servo motor
- 3 Intake flange**
 - for connection to application-specific adapter plate (to be produced by the customer)
 - simple tool connection
- 4 Central bore**
 - for cable feed-through
- 5 Mounting and positioning**
 - mounting possible from several sides for versatile positioning
- 6 Robust, lightweight housing**
 - Hard-coated aluminum alloy
- 7 Force transfer**
 - tooth belt/gear rack/worm gear

► SERIES CHARACTERISTICS



Number of installation sizes	2
Swivel angle	∞
Torque	12 Nm - 64 Nm
Weight	4 kg - 15,9 kg
AP class	3



electrical feed-through



fluid feed-through



Integrated sensing



Self locking mechanism



Freely selectable positionability



Adjustable swivel angle



IP54



5 million maintenance-free revolutions (max.)

FLAT SWIVEL UNITS

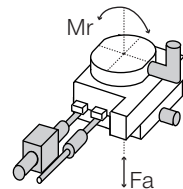
INSTALLATION SIZE DES140

▶ PRODUCT SPECIFICATIONS



▶ Forces and moments

Indicates the static load on the bearing.



Fa [N]	7000
Mr [Nm]	400

▶ INCLUDED IN DELIVERY



Commissioning USB

052650

▶ RECOMMENDED ACCESSORIES



Indra Works Drive Start Up CD

ZUBHCSS



Drive controller Profibus

ZUBHCS



Drive control unit SER-COS III, PROFINET IO, EtherNet/IP, EtherCAT

ZUBHCSME



Programming cable

ZUBHCSKAP01



Power cable 5 m

ZUBHCSKAL05



Power cable 10 m

ZUBHCSKAL10



Power cable 25 m

ZUBHCSKAL25



Encoder cable 5 m

ZUBHCSKAG05



Encoder cable 10 m

ZUBHCSKAG10



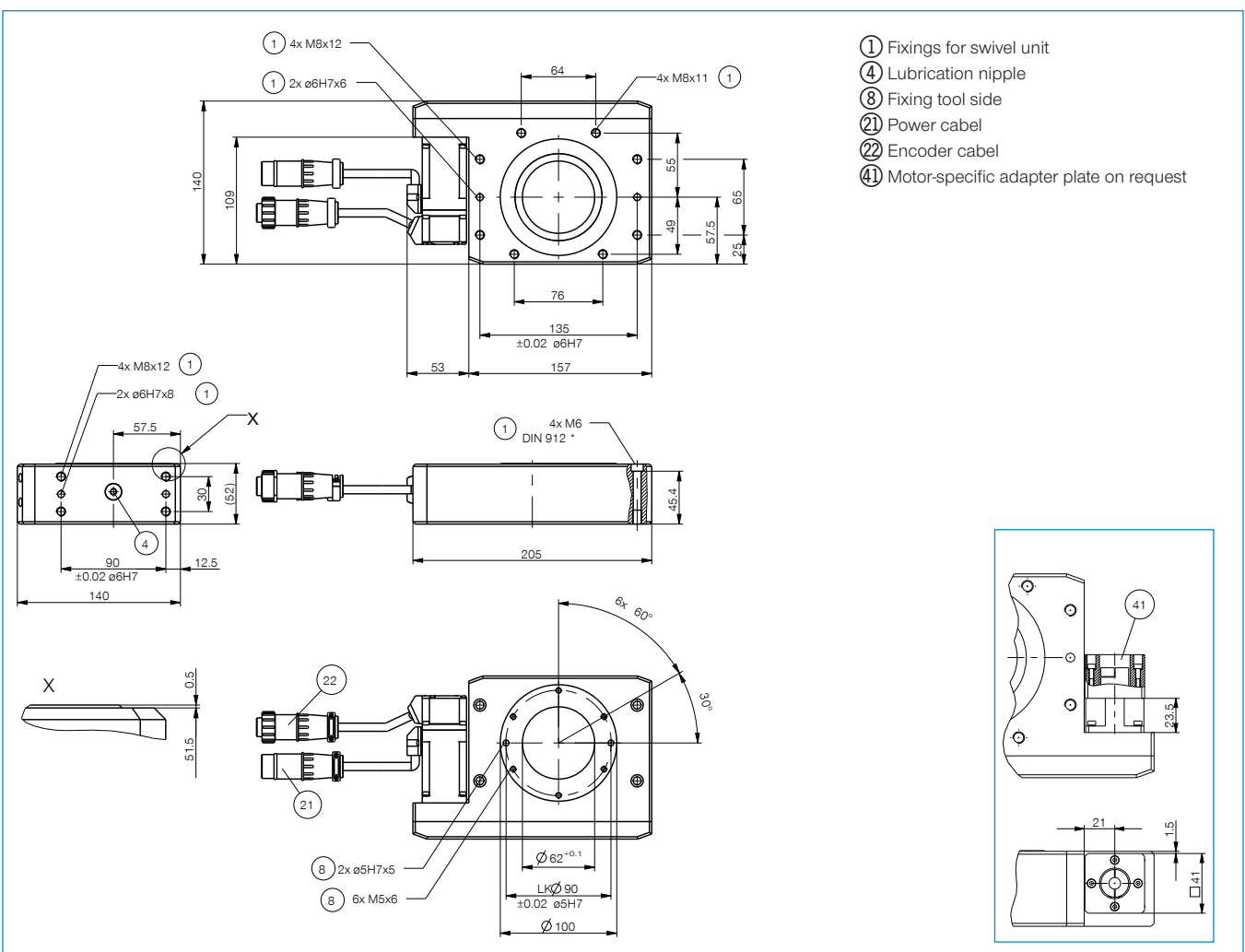
Encoder cable 25 m

ZUBHCSKAG25

► Technical Data

Order no.	DES140	DES140-99
Drive *	AC servo motor	Specific to the customer*
Rotation angle [°]	unlimited	
Nominal torque [Nm]	9	
Torque max. [Nm]	12	
Nominal speed [rpm]	30	
Max. speed [rpm]	50	
Swivel time 360° with 30 rpm [s] **	2.5	
Swivel time 360° with 50 rpm [s] **	1.8	
Moment of inertia max. [kg m ²]	1	
Jaw speed in positioning mode [rad/s ²]	50	
Positioning delay [rad/s ²]	50	
Electrical energy transfer		
Pneumatic energy transfer [Quantity]		
Self locking mechanism	Helical gear / worm gear	Helical gear / worm gear
Power transfer	Helical gear / worm gear	Helical gear / worm gear
Repetition accuracy +/- [°]	0.1	0.1
Operating temperature [°C]	5 ... +80	5 ... +80
Protection to IEC 60529	IP54	
Net input voltage	1x200-240 VAC 50HZ	
Continuous current [A]	0.9	
Peak current [A]	3	
Weight [kg]	4.2	4

*Select the third-party motor corresponding to the motor performance figures in the DES series - Accessories chapter
 **Swivel time does not depend on the moment of inertia (the maximum moment of inertia must not be exceeded)



FLAT SWIVEL UNITS

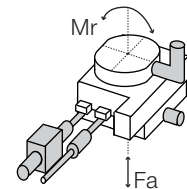
INSTALLATION SIZE DES140D1

▶ PRODUCT SPECIFICATIONS



▶ Forces and moments

Indicates the static load on the bearing.



Fa [N]	7000
Mr [Nm]	400

▶ INCLUDED IN DELIVERY



Commissioning USB

052650

▶ RECOMMENDED ACCESSORIES



Indra Works Drive Start Up CD

ZUBHCSS



Drive controller Profibus

ZUBHCS



Drive control unit SER-COS III, PROFINET IO, EtherNet/IP, EtherCAT

ZUBHCSME



Round plug, straight - M23 socket

RSTVSM23G12B-B



Round plug, angular - M23 socket

RSTVSM23W12B-B



Round plug, straight - M23 plug

RSTVSM23G12S-B



Round plug, angular - M23 plug

RSTVSM23W12S-B



Programming cable

ZUBHCSKAP01



Power cable 5 m

ZUBHCSKAL05



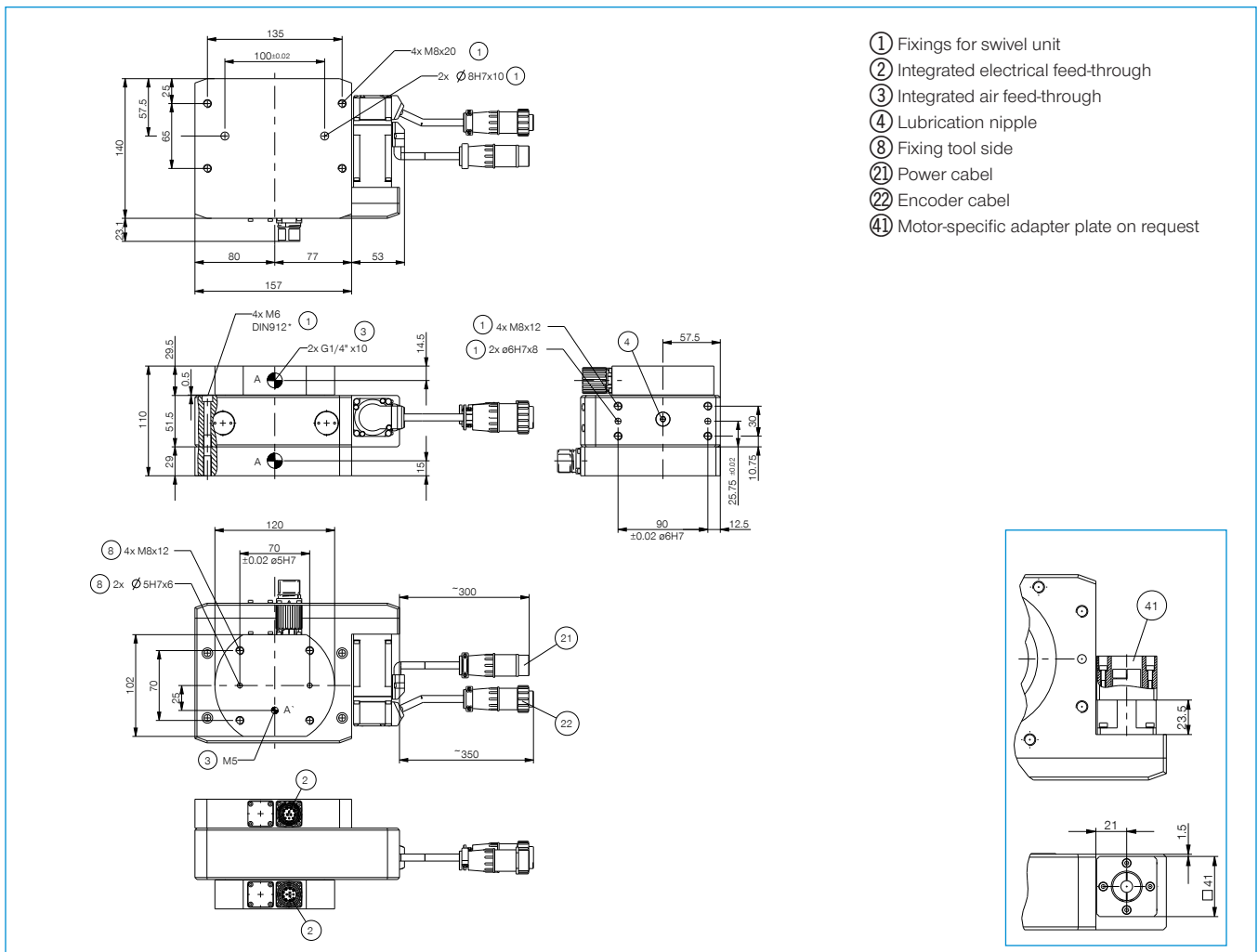
Power cable 10 m

ZUBHCSKAL10

Order no.	► Technical Data	
	DES140D1	DES140D1-99
Drive *	AC servo motor	Specific to the customer*
Rotation angle [°]	unlimited	
Nominal torque [Nm]	7	
Torque max. [Nm]	10	
Nominal speed [rpm]	30	
Max. speed [rpm]	50	
Swivel time 360° with 30 rpm [s] **	2.5	
Swivel time 360° with 50 rpm [s] **	1.8	
Moment of inertia max. [kg m ²]	1	
Jaw speed in positioning mode [rad/s ²]	50	
Positioning delay [rad/s ²]	50	
Electrical energy transfer	12x2A / 12x120V DC	12x2A / 12x120V DC
Pneumatic energy transfer [Quantity]	1	1
Self locking mechanism	Helical gear / worm gear	Helical gear / worm gear
Power transfer	Helical gear / worm gear	Helical gear / worm gear
Repetition accuracy +/- [°]	0.1	0.1
Operating temperature [°C]	5 ... +80	5 ... +80
Protection to IEC 60529	IP54	
Net input voltage	1x200-240 VAC 50HZ	
Continuous current [A]	0.9	
Peak current [A]	3	
Weight [kg]	7	6.8

*Select the third-party motor corresponding to the motor performance figures in the DES series - Accessories chapter

**Swivel time does not depend on the moment of inertia (the maximum moment of inertia must not be exceeded)



FLAT SWIVEL UNITS

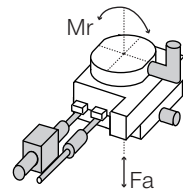
INSTALLATION SIZE DES190

▶ PRODUCT SPECIFICATIONS



▶ Forces and moments

Indicates the static load on the bearing.



Fa [N]	8000
Mr [Nm]	525

▶ INCLUDED IN DELIVERY



Commissioning USB

052650

▶ RECOMMENDED ACCESSORIES



Indra Works Drive Start Up CD

ZUBHCSS



Drive controller Profibus

ZUBHCS



Drive control unit SER-COS III, PROFINET IO, EtherNet/IP, EtherCAT

ZUBHCSME



Programming cable

ZUBHCSKAP01



Power cable 5 m

ZUBHCSKAL05



Power cable 10 m

ZUBHCSKAL10



Power cable 25 m

ZUBHCSKAL25



Encoder cable 5 m

ZUBHCSKAG05



Encoder cable 10 m

ZUBHCSKAG10



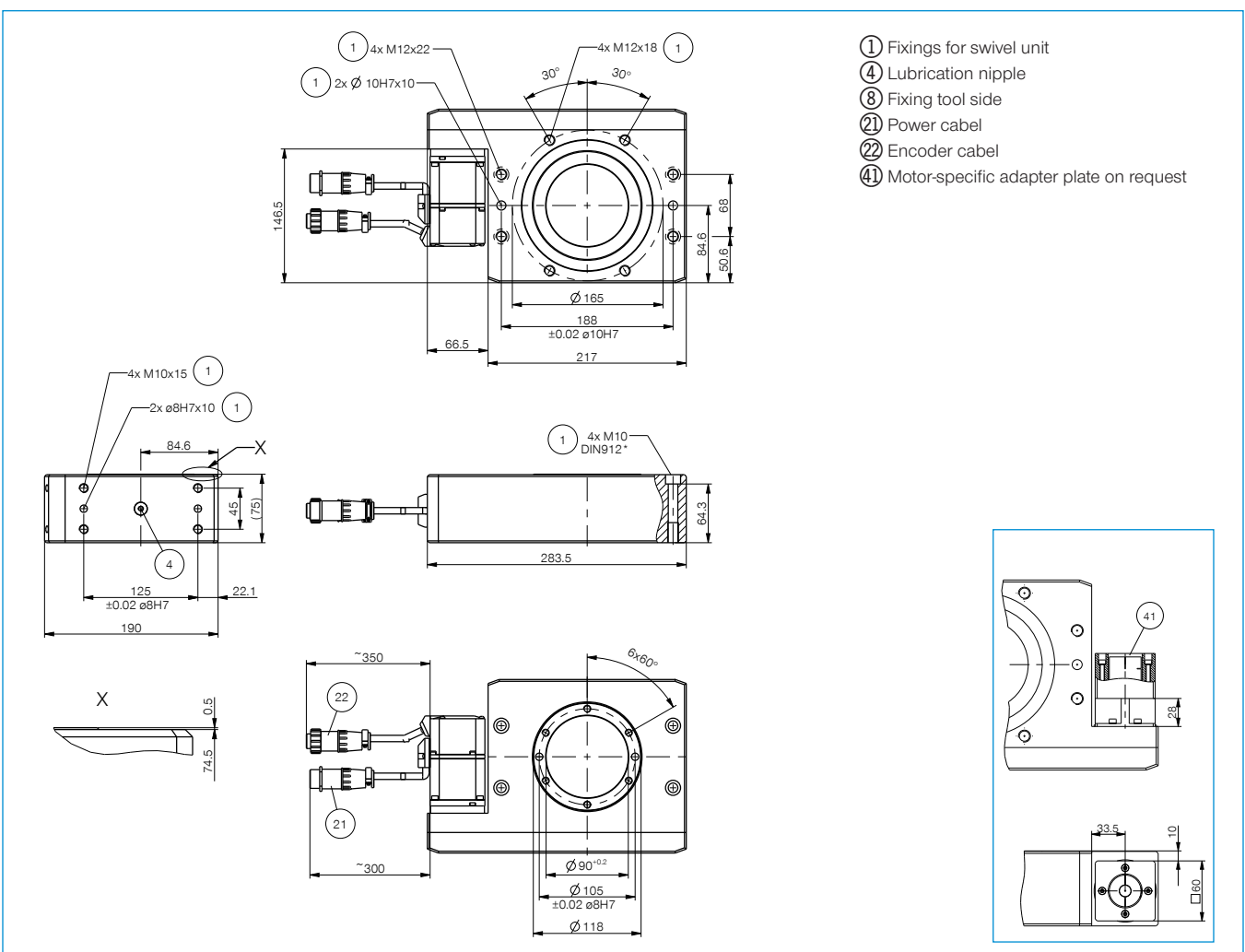
Encoder cable 25 m

ZUBHCSKAG25

► Technical Data

Order no.	DES190	DES190-99
Drive *	AC servo motor	Specific to the customer*
Rotation angle [°]	unlimited	
Nominal torque [Nm]	50	
Torque max. [Nm]	64	
Nominal speed [rpm]	15	
Max. speed [rpm]	25	
Swivel time 360° with 15 rpm [s] **	4.6	
Swivel time 360° with 25 rpm [s] **	3	
Moment of inertia max. [kg m ²]	3	
Jaw speed in positioning mode [rad/s ²]	50	
Positioning delay [rad/s ²]	50	
Electrical energy transfer		
Pneumatic energy transfer [Quantity]		
Self locking mechanism	Helical gear / worm gear	Helical gear / worm gear
Power transfer	Helical gear / worm gear	Helical gear / worm gear
Repetition accuracy +/- [°]	0.05	0.05
Operating temperature [°C]	5 ... +80	5 ... +80
Protection to IEC 60529	IP54	
Net input voltage	1x200-240 VAC 50HZ	
Continuous current [A]	2.3	
Peak current [A]	7.4	
Weight [kg]	11.2	10.8

*Select the third-party motor corresponding to the motor performance figures in the DES series - Accessories chapter
 **Swivel time does not depend on the moment of inertia (the maximum moment of inertia must not be exceeded)



FLAT SWIVEL UNITS

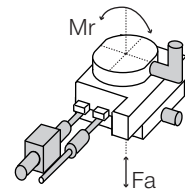
INSTALLATION SIZE DES190D1

▶ PRODUCT SPECIFICATIONS



▶ Forces and moments

Indicates the static load on the bearing.



Fa [N]	8000
Mr [Nm]	525

▶ INCLUDED IN DELIVERY



Commissioning USB

052650

▶ RECOMMENDED ACCESSORIES



Indra Works Drive Start Up CD

ZUBHCSS



Drive controller Profibus

ZUBHCS



Drive control unit SER-COS III, PROFINET IO, EtherNet/IP, EtherCAT

ZUBHCSME



Round plug, straight - M23 socket

RSTVSM23G12B-B



Round plug, angular - M23 socket

RSTVSM23W12B-B



Round plug, straight - M23 plug

RSTVSM23G12S-B



Round plug, angular - M23 plug

RSTVSM23W12S-B



Programming cable

ZUBHCSKAP01



Power cable 5 m

ZUBHCSKAL05



Power cable 10 m

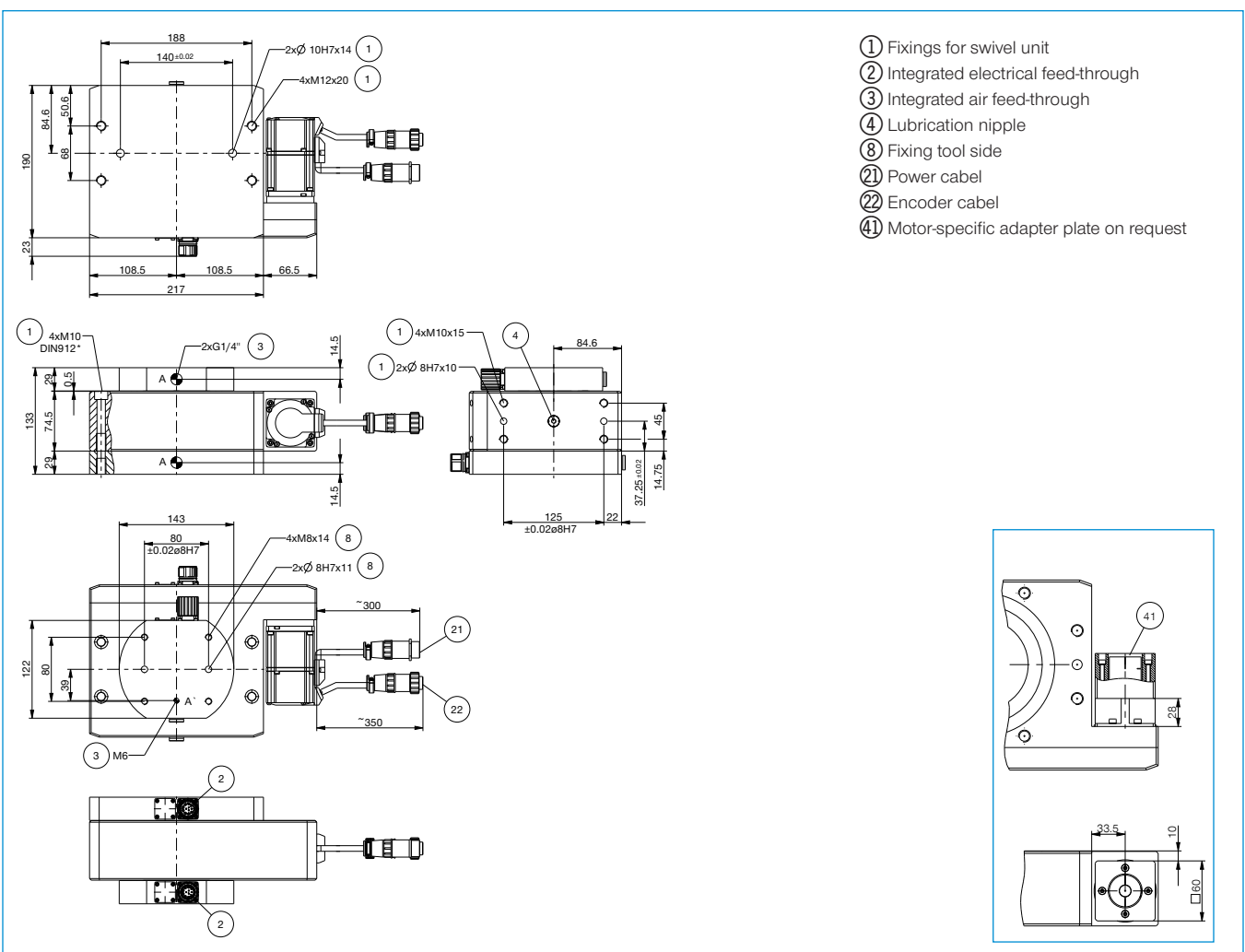
ZUBHCSKAL10

► Technical Data

Order no.	DES190D1	DES190D1-99
Drive *	AC servo motor	Specific to the customer*
Rotation angle [°]	unlimited	
Nominal torque [Nm]	48	
Torque max. [Nm]	62	
Nominal speed [rpm]	15	
Max. speed [rpm]	25	
Swivel time 360° with 15 rpm [s] **	4.6	
Swivel time 360° with 25 rpm [s] **	3	
Moment of inertia max. [kg m ²]	3	
Jaw speed in positioning mode [rad/s ²]	50	
Positioning delay [rad/s ²]	50	
Electrical energy transfer	12x2A / 12x48V DC	12x2A / 12x48V DC
Pneumatic energy transfer [Quantity]	1	1
Self locking mechanism	Helical gear / worm gear	Helical gear / worm gear
Power transfer	Helical gear / worm gear	Helical gear / worm gear
Repetition accuracy +/- [°]	0.05	0.05
Operating temperature [°C]	5 ... +80	5 ... +80
Protection to IEC 60529	IP54	
Net input voltage	1x200-240 VAC 50HZ	
Continuous current [A]	2.3	
Peak current [A]	7.4	
Weight [kg]	15.9	15.5

*Select the third-party motor corresponding to the motor performance figures in the DES series - Accessories chapter

**Swivel time does not depend on the moment of inertia (the maximum moment of inertia must not be exceeded)



FLAT SWIVEL UNITS

DES SERIES - ACCESSORIES

▶ RECOMMENDED ACCESSORIES



Indra Works Drive Start Up CD

ZUBHCSS



Drive controller Profibus

ZUBHCS



Drive control unit SERCOS III, PROF-INET IO, EtherNet/IP, EtherCAT

ZUBHCSME



Line filter

ZUBHCSN



Encoder cable 5 m

ZUBHCSKAG05



Encoder cable 10 m

ZUBHCSKAG10



Encoder cable 25 m

ZUBHCSKAG25



Programming cable

ZUBHCSKAP01



Power cable 5 m

ZUBHCSKAL05



Power cable 10 m

ZUBHCSKAL10



Power cable 25 m

ZUBHCSKAL25



Straight Fittings - Quick Connect Style

GV1-8X4



Angled Fittings - Quick Connect Style

WV1-4X8



Round plug, straight - M23 plug

RSTVSM23G12S-B



Round plug, angular - M23 plug

RSTVSM23W12S-B



Round plug, straight - M23 socket

RSTVSM23G12B-B

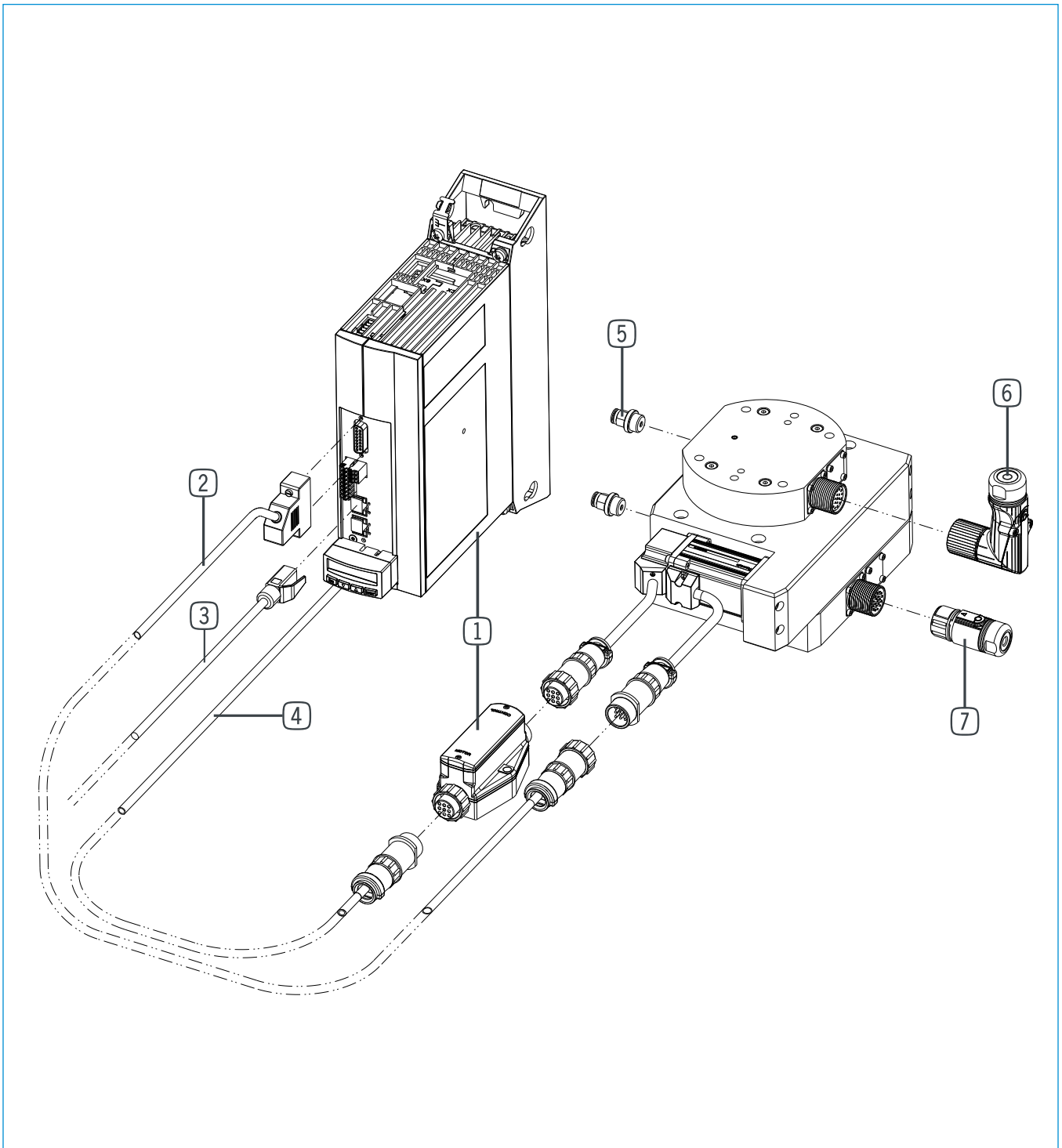


Round plug, angular - M23 socket

RSTVSM23W12B-B

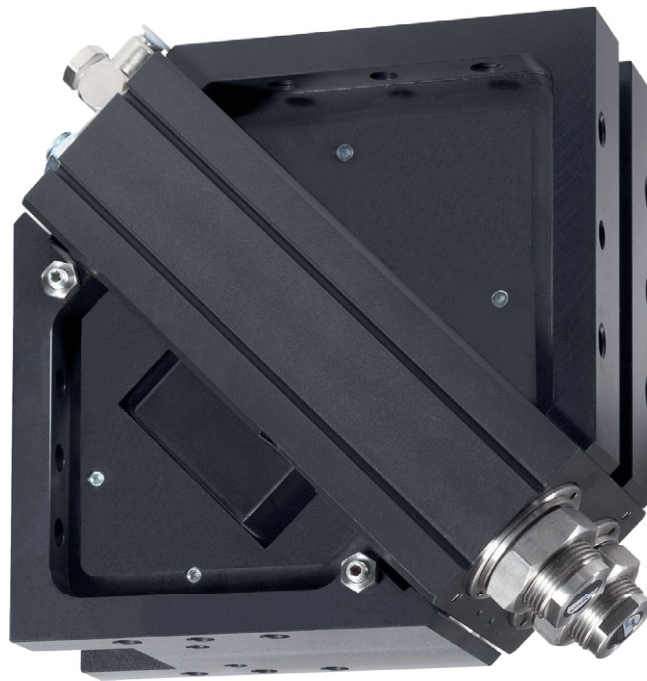
► Technical data for motors

Order no.	MSM019B	MSM031C
compatible with	DES140	DES190
Manufacturer	BOSCH	BOSCH
Nominal torque [Nm]	0,32	1,3
Torque max. [Nm]	0.95	3.8
Nominal speed [rpm]	3000	3000
Max. speed [rpm]	5000	5000
Protection to IEC 60529	IP54	IP54



ANGLE PIVOT UNITS

OVERVIEW OF SERIES

**▶ PNEUMATIC**

Series SWM1000

670



Series SW

680

ANGLE PIVOT UNITS

SERIES SWM1000

▶ PRODUCT ADVANTAGES



“The slim”

▶ Optimised design

Adjusted to a gantry axle, you can integrate the unit in your machine loading system to save space

▶ Large locating flange

The large mounting surface simplifies your design and allows secure attachment of follow-on tools

▶ Failure-free continuous operation

Our uncompromising “Made in Germany” quality guarantees up to 10 million maintenance-free gripping cycles

▶ THE BEST PRODUCT FOR YOUR APPLICATION



▶ Our products love the challenge!

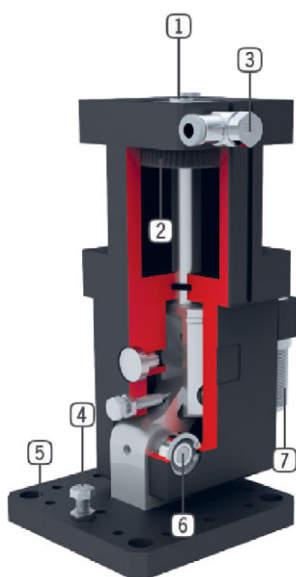
Extreme conditions, all over the world—our tried and tested components and systems give you limitless possibilities:

Find the best product for your specific use:

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► BENEFITS IN DETAIL



- ① **Mounting and positioning**
- ② **Drive**
 - double-acting pneumatic cylinder
- ③ **Air flow control valve**
 - for speed regulation
 - included in scope of delivery
- ④ **Adjustable end position**
 - +/- 3° adjustable end position
- ⑤ **Intake flange**
 - for connection to application-specific adapter plate (to be supplied by the customer)
- ⑥ **Force transfer 90° pivoting**
 - toggle lever principle
- ⑦ **Patented, hydraulic shock absorber**
 - adjustable end position damping

► SERIES CHARACTERISTICS



Number of installation sizes	4
Swivel angle	90°
Torque	10 Nm - 64 Nm
Weight	0,65 kg - 3,5 kg
AP class	3



Powerstop end position damping



IP30



Magnetic field sensor



10 million maintenance-free cycles (max.)



Positionability - 2 positions

ANGLE PIVOT UNITS

INSTALLATION SIZE SWM1035

▶ PRODUCT SPECIFICATIONS



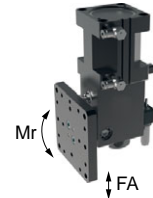
▶ Moment of inertia

Shows the torque when lifting vs the swivel angle.



▶ Forces and moments

Indicates the static load on the bearing.



Fa [N]	200
Mr [Nm]	10

▶ INCLUDED IN DELIVERY



Flow Control Valves - with Swivel joint
DRVM5X4



Centering Disc
DST60800

▶ RECOMMENDED ACCESSORIES



Attachment Kit
ANS0046



Shock Absorbers
M8X1M



Magnetic field sensor Angled Cable 5 m
MFS103KHC



Magnetic field sensor Angled Cable 0,3 m - Connector M8
MFS103SKHC



Magnetic field sensor Straight Cable 5 m
MFS204KHC



Magnetic field sensor Straight Cable 0,3 m - Connector M8
MFS204SKHC



Plug-in connector Straight Cable 5m - Socket M8 (female)
KAG500



Plug-in connector Angled Cable 5m - Socket M8 (female)
KAW500



Plug-in connector customizable Straight - Connector M8
S8-G-3

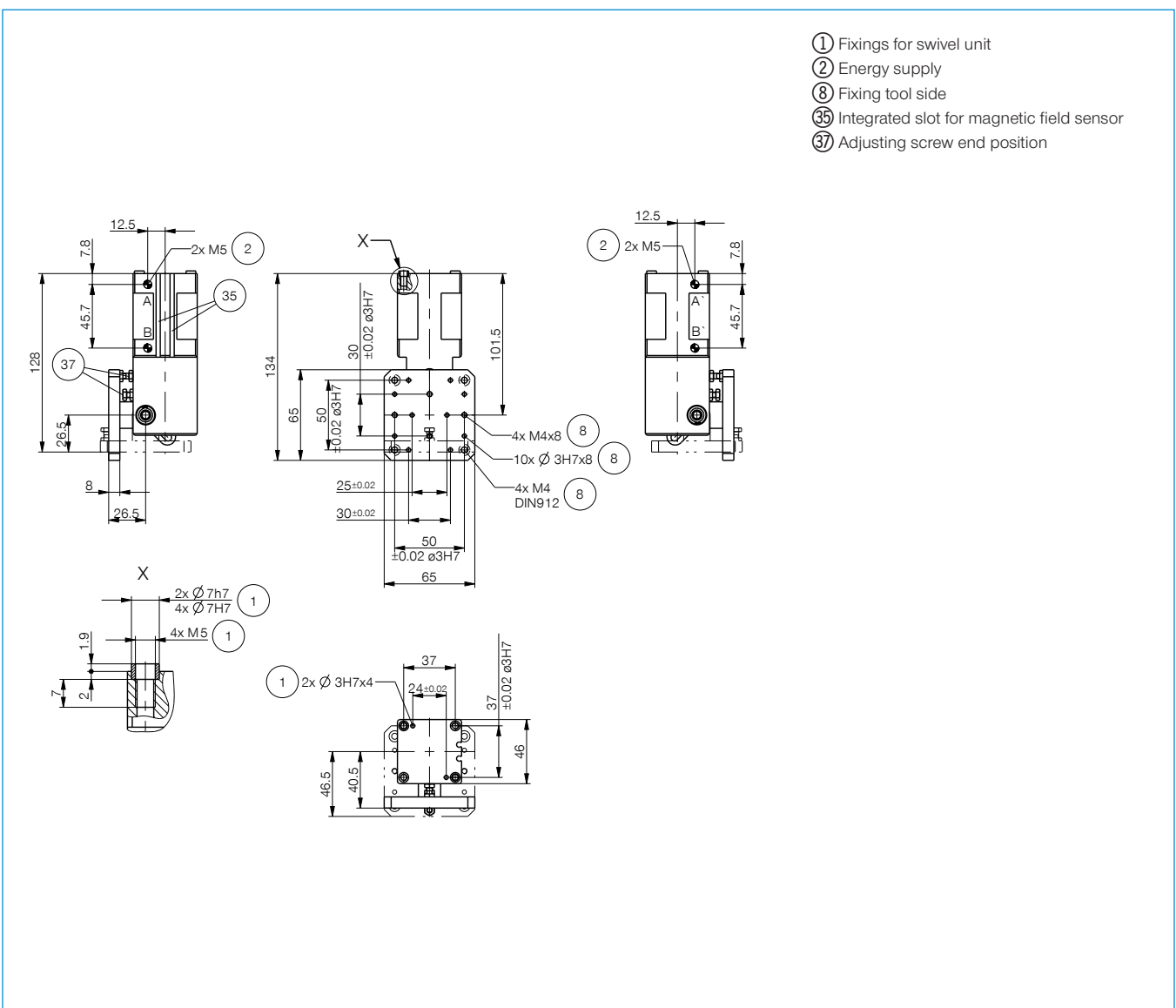


Pressure Safety Valve
DSV1-8

► Technical Data*

Order no.	SWM1035
Swivel angle [°]	90
Swivel angle regulable +/- [°]	3
Torque 0° [Nm]	10
Torque 45° [Nm]	7
Torque 90° [Nm]	10
Repetition accuracy +/- [°]	0.01
Swivel time without extension load [s]	0.3
Operating pressure min. [bar]	3
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm³]	55
Weight [kg]	0.65

*All data measured at 6 bar



- ① Fixings for swivel unit
- ② Energy supply
- ⑧ Fixing tool side
- ③⑤ Integrated slot for magnetic field sensor
- ③⑦ Adjusting screw end position

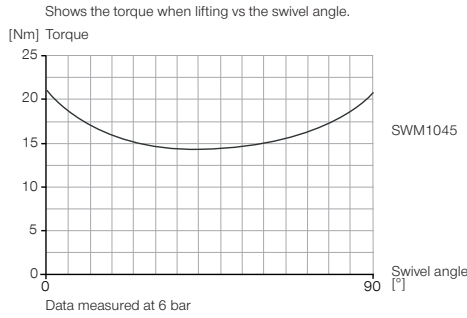
ANGLE PIVOT UNITS

INSTALLATION SIZE SWM1045

▶ PRODUCT SPECIFICATIONS

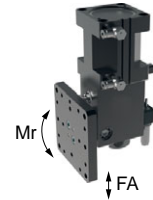


▶ Moment of inertia



▶ Forces and moments

Indicates the static load on the bearing.



Fa [N]	300
Mr [Nm]	20

▶ INCLUDED IN DELIVERY



Flow Control Valves - with Swivel joint
DRVM5X4



Centering Disc
DST40800

▶ RECOMMENDED ACCESSORIES



Attachment Kit
ANS0047



Shock Absorbers
M10X1H



Magnetic field sensor Angled Cable 5 m
MFS103KHC



Magnetic field sensor Angled Cable 0,3 m - Connector M8
MFS103SKHC



Magnetic field sensor Straight Cable 5 m
MFS204KHC



Magnetic field sensor Straight Cable 0,3 m - Connector M8
MFS204SKHC



Plug-in connector Straight Cable 5m - Socket M8 (female)
KAG500



Plug-in connector Angled Cable 5m - Socket M8 (female)
KAW500



Plug-in connector customizable Straight - Connector M8
S8-G-3

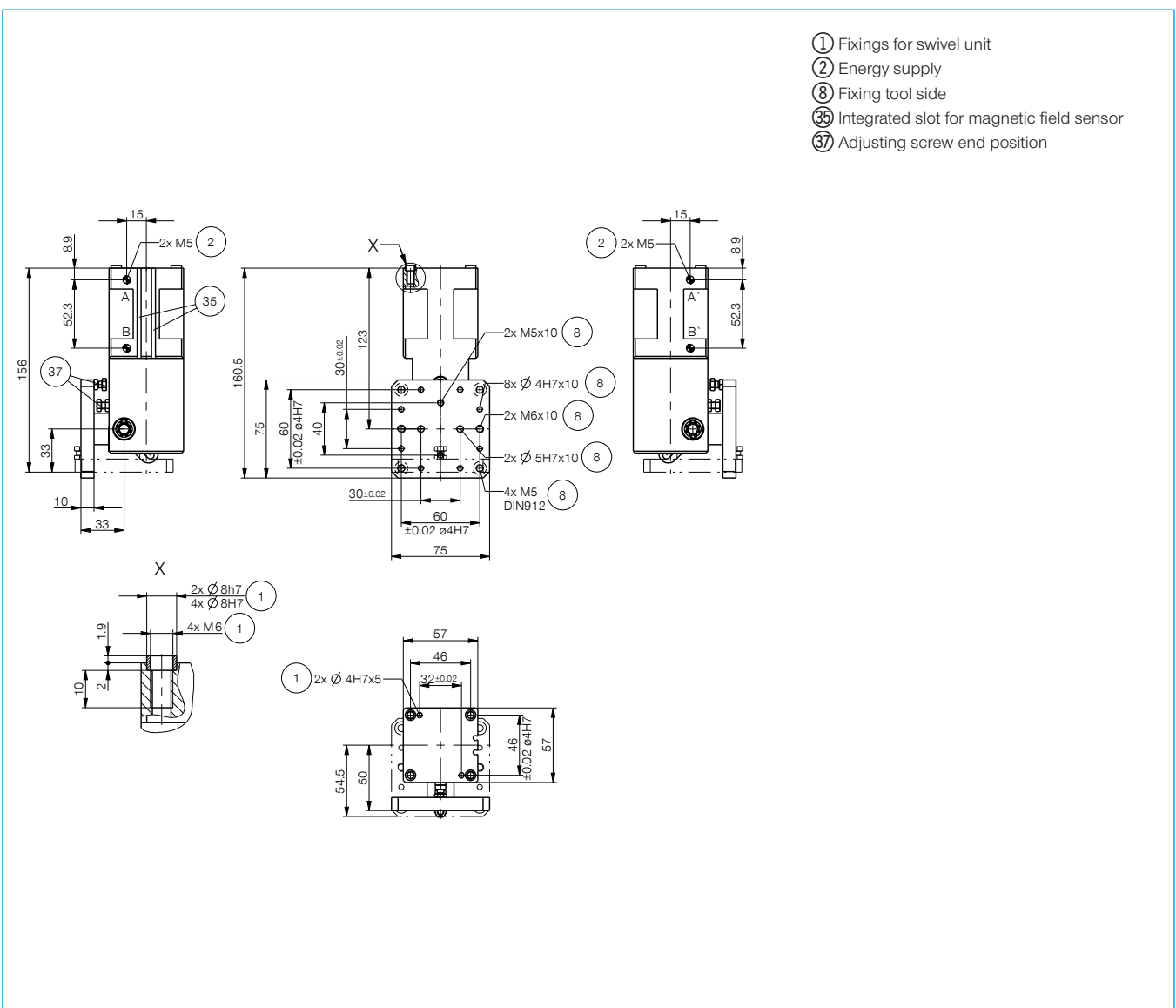


Pressure Safety Valve
DSV1-8

► **Technical Data***

Order no.	SWM1045
Swivel angle [°]	90
Swivel angle regulable +/- [°]	3
Torque 0° [Nm]	21
Torque 45° [Nm]	14
Torque 90° [Nm]	21
Repetition accuracy +/- [°]	0.01
Swivel time without extension load [s]	0.4
Operating pressure min. [bar]	3
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm³]	110
Weight [kg]	1.2

*All data measured at 6 bar



ANGLE PIVOT UNITS

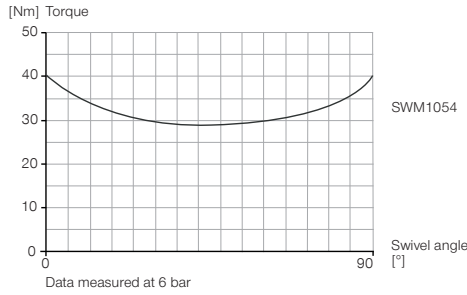
INSTALLATION SIZE SWM1054

▶ PRODUCT SPECIFICATIONS



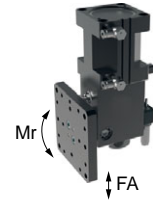
▶ Moment of inertia

Shows the torque when lifting vs the swivel angle.



▶ Forces and moments

Indicates the static load on the bearing.



Fa [N]	400
Mr [Nm]	30

▶ INCLUDED IN DELIVERY



Flow Control Valves - with Swivel joint
DRV1-8X6



Centering Disc
DST11500

▶ RECOMMENDED ACCESSORIES



Attachment Kit
ANS0048



Shock Absorbers
M12X1H



Magnetic field sensor Angled Cable 5 m
MFS103KHC



Magnetic field sensor Angled Cable 0,3 m - Connector M8
MFS103SKHC



Magnetic field sensor Straight Cable 5 m
MFS204KHC



Magnetic field sensor Straight Cable 0,3 m - Connector M8
MFS204SKHC



Plug-in connector Straight Cable 5m - Socket M8 (female)
KAG500



Plug-in connector Angled Cable 5m - Socket M8 (female)
KAW500



Plug-in connector customizable Straight - Connector M8
S8-G-3

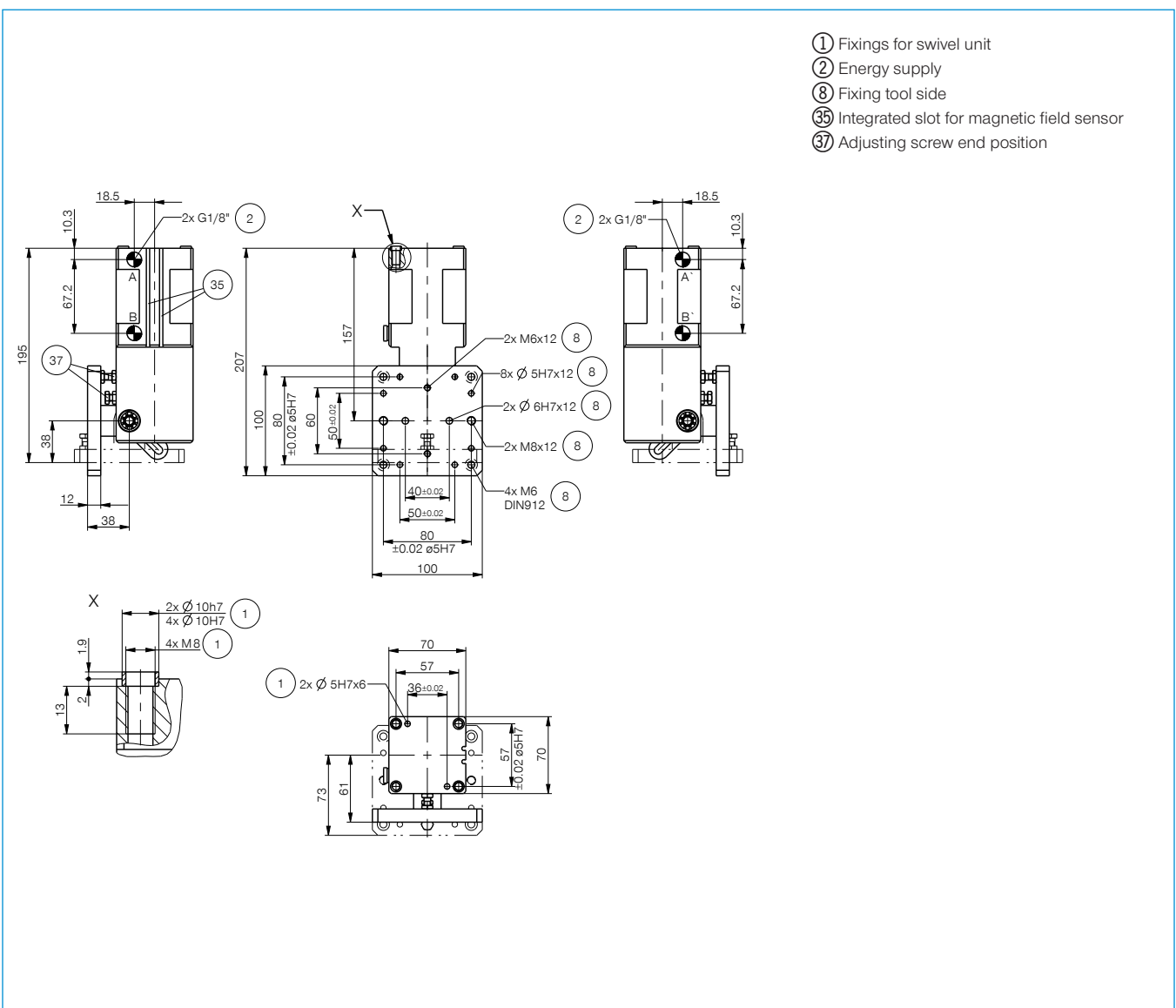


Pressure Safety Valve
DSV1-8

► **Technical Data***

Order no.	SWM1054
Swivel angle [°]	90
Swivel angle regulable +/- [°]	3
Torque 0° [Nm]	40
Torque 45° [Nm]	29
Torque 90° [Nm]	40
Repetition accuracy +/- [°]	0.01
Swivel time without extension load [s]	0.5
Operating pressure min. [bar]	3
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm ³]	215
Weight [kg]	2.3

*All data measured at 6 bar



- ① Fixings for swivel unit
- ② Energy supply
- ⑧ Fixing tool side
- ③⑤ Integrated slot for magnetic field sensor
- ③⑦ Adjusting screw end position

ANGLE PIVOT UNITS

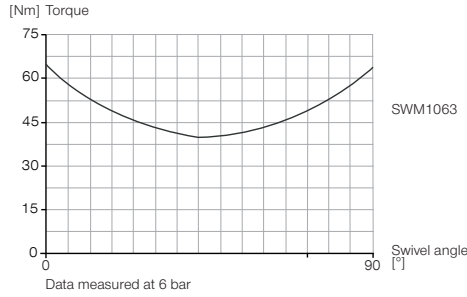
INSTALLATION SIZE SWM1063

▶ PRODUCT SPECIFICATIONS



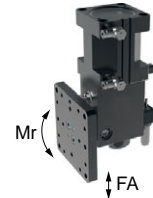
▶ Moment of inertia

Shows the torque when lifting vs the swivel angle.



▶ Forces and moments

Indicates the static load on the bearing.



Fa [N]	500
Mr [Nm]	45

▶ INCLUDED IN DELIVERY



Flow Control Valves - with Swivel joint
DRV1-8X6



Centering Disc
DST42000

▶ RECOMMENDED ACCESSORIES



Attachment Kit
ANS0049



Shock Absorbers
M14X1H



Magnetic field sensor Angled Cable 5 m
MFS103KHC



Magnetic field sensor Angled Cable 0,3 m - Connector M8
MFS103SKHC



Magnetic field sensor Straight Cable 5 m
MFS204KHC



Magnetic field sensor Straight Cable 0,3 m - Connector M8
MFS204SKHC



Plug-in connector Straight Cable 5m - Socket M8 (female)
KAG500



Plug-in connector Angled Cable 5m - Socket M8 (female)
KAW500



Plug-in connector customizable Straight - Connector M8
S8-G-3

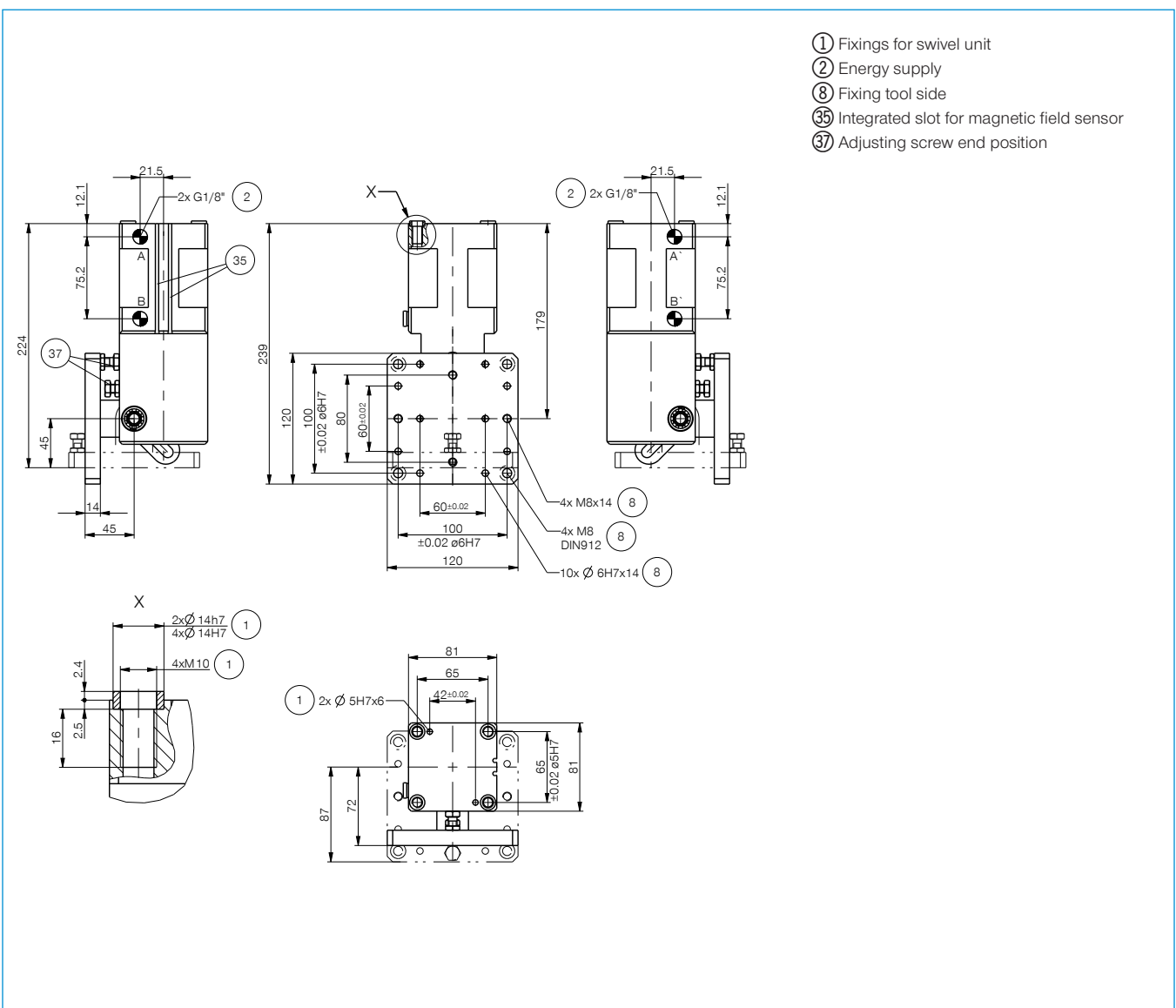


Pressure Safety Valve
DSV1-8

► **Technical Data***

Order no.	SWM1063
Swivel angle [°]	90
Swivel angle regulable +/- [°]	3
Torque 0° [Nm]	64
Torque 45° [Nm]	39
Torque 90° [Nm]	64
Repetition accuracy +/- [°]	0.01
Swivel time without extension load [s]	0.6
Operating pressure min. [bar]	3
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm ³]	340
Weight [kg]	3.5

*All data measured at 6 bar

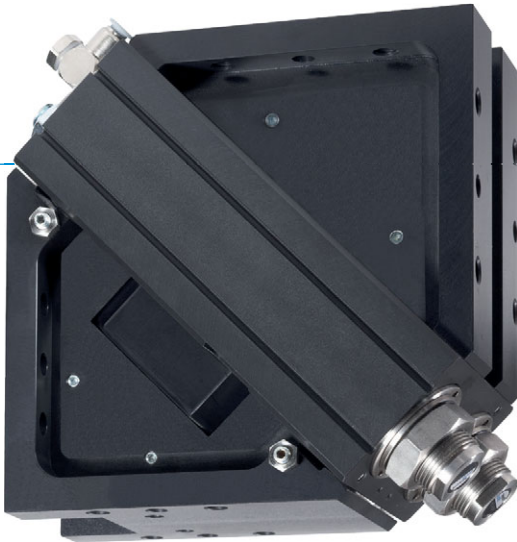


- ① Fixings for swivel unit
- ② Energy supply
- ⑧ Fixing tool side
- ③⑤ Integrated slot for magnetic field sensor
- ③⑦ Adjusting screw end position

ANGLE PIVOT UNITS

SERIES SW

▶ PRODUCT ADVANTAGES



“The superior”

▶ Up to 100% more performance than the benchmark

Superior end position damping lets you swivel more mass in the shortest amount of time, increasing your machine’s component output

▶ Includes two angle flanges

Reduce your design and manufacturing efforts with the angle pivot unit aligned on the machine loading system

▶ More than 100% higher radial bearing load than the benchmark

The generously scaled bearings stand for robustness and long service life and provide the highest process reliability for your application

▶ THE BEST PRODUCT FOR YOUR APPLICATION



▶ Our products love the challenge!

Extreme conditions, all over the world—our tried and tested components and systems give you limitless possibilities:

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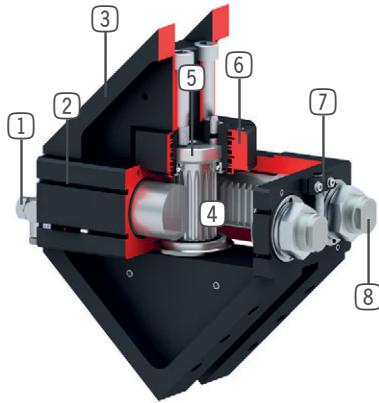
HOW TO ORDER CORRECTLY

- ▶ The product order numbers are arranged according to this diagram:

Order no.	SW50	<input type="checkbox"/>	-C	
two double acting pneumatic cylinders, hoseless pneumatic 4 way rotary distributor		D4		
two double acting pneumatic cylinders, hoseless pneumatic 8 way rotary distributor		D8		



► BENEFITS IN DETAIL



- 1 Air flow control valve**
- for speed regulation (included in the delivery)
- 2 Sensing slot**
- mounting and positioning of magnetic field sensors
- 3 Robust, lightweight housing**
- Hard-coated aluminum alloy
- 4 Force transfer**
- rack and pinion
- 5 Two way ball bearing hollow shaft**
- for feedthrough cables and hoses
- high forces and moments capacity
- 6 Up to 8 way integrated air feed-through**
- for hoseless air transfer
- hose package does not have to be pivoted
- 7 Mounting block**
- mounting for inductive proximity switch
- 8 Integrated and patented hydraulic shock absorbers**
- adjustable end position damping
- heating is prevented through installation in pneumatic pressure chamber

► SERIES CHARACTERISTICS



Number of installation sizes	6
Swivel angle	180°
Torque	1,5 Nm - 120 Nm
Weight	1,2 kg - 48,2 kg
AP class	3



Powerstop end position damping



fluid feed-through



Inductive sensor



Magnetic field sensor



Positionability - 2 positions



IP64



10 million maintenance-free cycles (max.)

ANGLE PIVOT UNITS

INSTALLATION SIZE SW50

▶ PRODUCT SPECIFICATIONS



▶ INCLUDED IN DELIVERY



Flow Control Valves - with Swivel joint
DRVM5X4



O-Ring
COR0050100

▶ RECOMMENDED ACCESSORIES



Magnetic field sensor
Straight Cable 5 m
MFS204KHC



Magnetic field sensor
Straight Cable 0,3 m -
Connector M8
MFS204SKHC



Plug-in connector Straight
Cable 5m - Socket M8
(female)
KAG500



Plug-in connector
customizable Straight -
Connector M12
S12-G-3



Pressure Safety Valve
DSV1-8

▶ RECOMMENDED ACCESSORY ATTACHMENT KIT



Attachment Kit
ANS0062



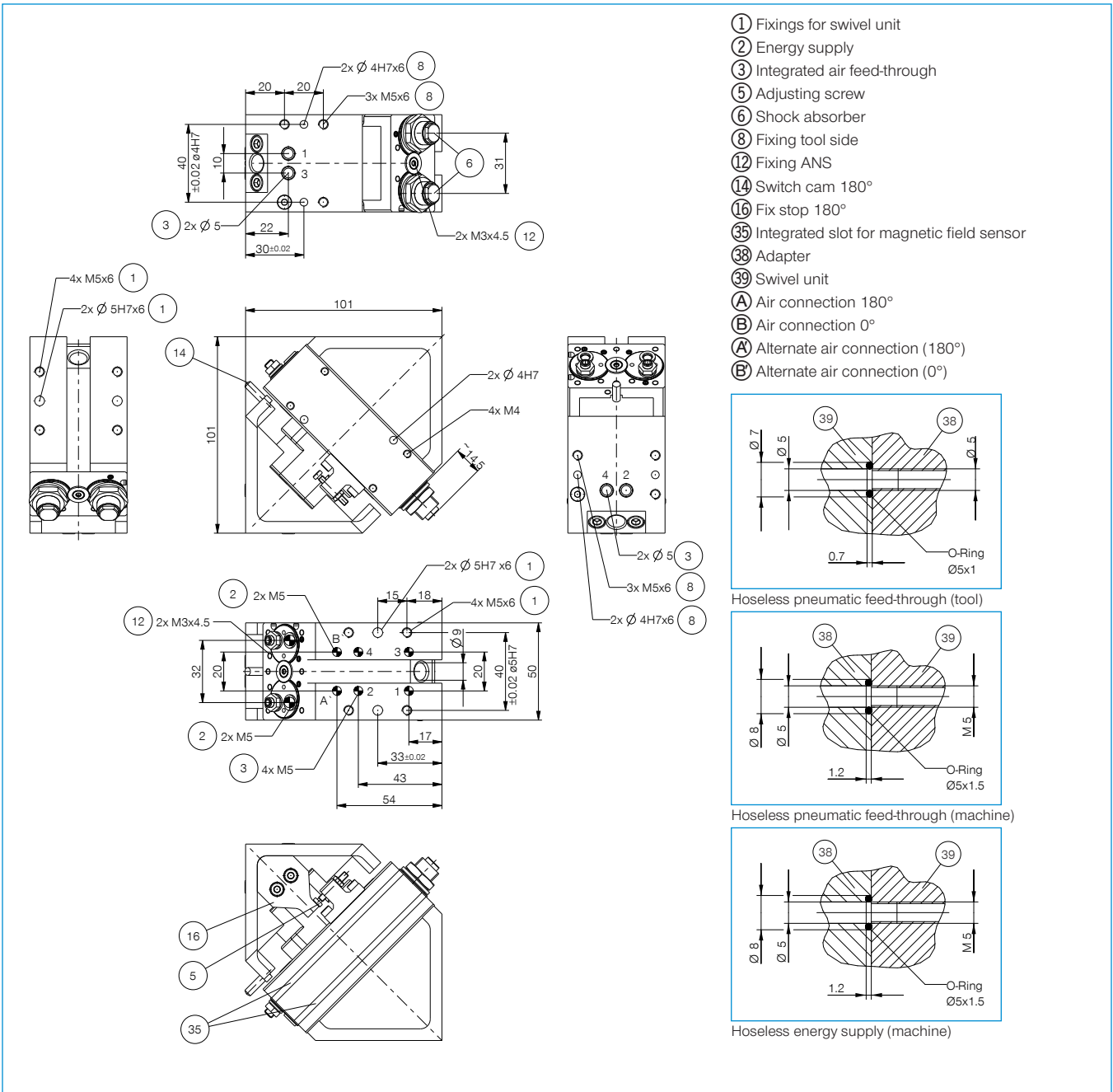
Inductive proximity switch
- Cable 5 m
NJ8-E2



Inductive proximity switch
- Connector M8
NJ8-E2S

Order no.	SW50D4-C
Swivel angle [°]	180
Torque [Nm]	1.5
Repetition accuracy +/- [°]	0.01
Swivel time [s]**	0.3
Passage bore Ø [mm]	9
Axial bearing load [N]	490
Radial bearing load [Nm]	25
Operating pressure min. [bar]	3
Operating pressure max. [bar]	8
Operating temperature [°C]	5 ... +80
Air volume per cycle [cm³]	15
Weight [kg]	1.2

*All data measured at 6 bar
 **without extension load



ANGLE PIVOT UNITS

INSTALLATION SIZE SW74

▶ PRODUCT SPECIFICATIONS



▶ INCLUDED IN DELIVERY



Flow Control Valves - with Swivel joint
DRV1-8X6



O-Ring
COR0050100

▶ RECOMMENDED ACCESSORIES



Magnetic field sensor
Straight Cable 5 m
MFS204KHC



Magnetic field sensor
Straight Cable 0,3 m -
Connector M8
MFS204SKHC



Plug-in connector Straight
Cable 5m - Socket M8
(female)
KAG500



Plug-in connector
customizable Straight -
Connector M12
S12-G-3



Pressure Safety Valve
DSV1-8

▶ RECOMMENDED ACCESSORY ATTACHMENT KIT



Attachment Kit
ANS0063



Inductive proximity switch
- Cable 5 m
NJ8-E2



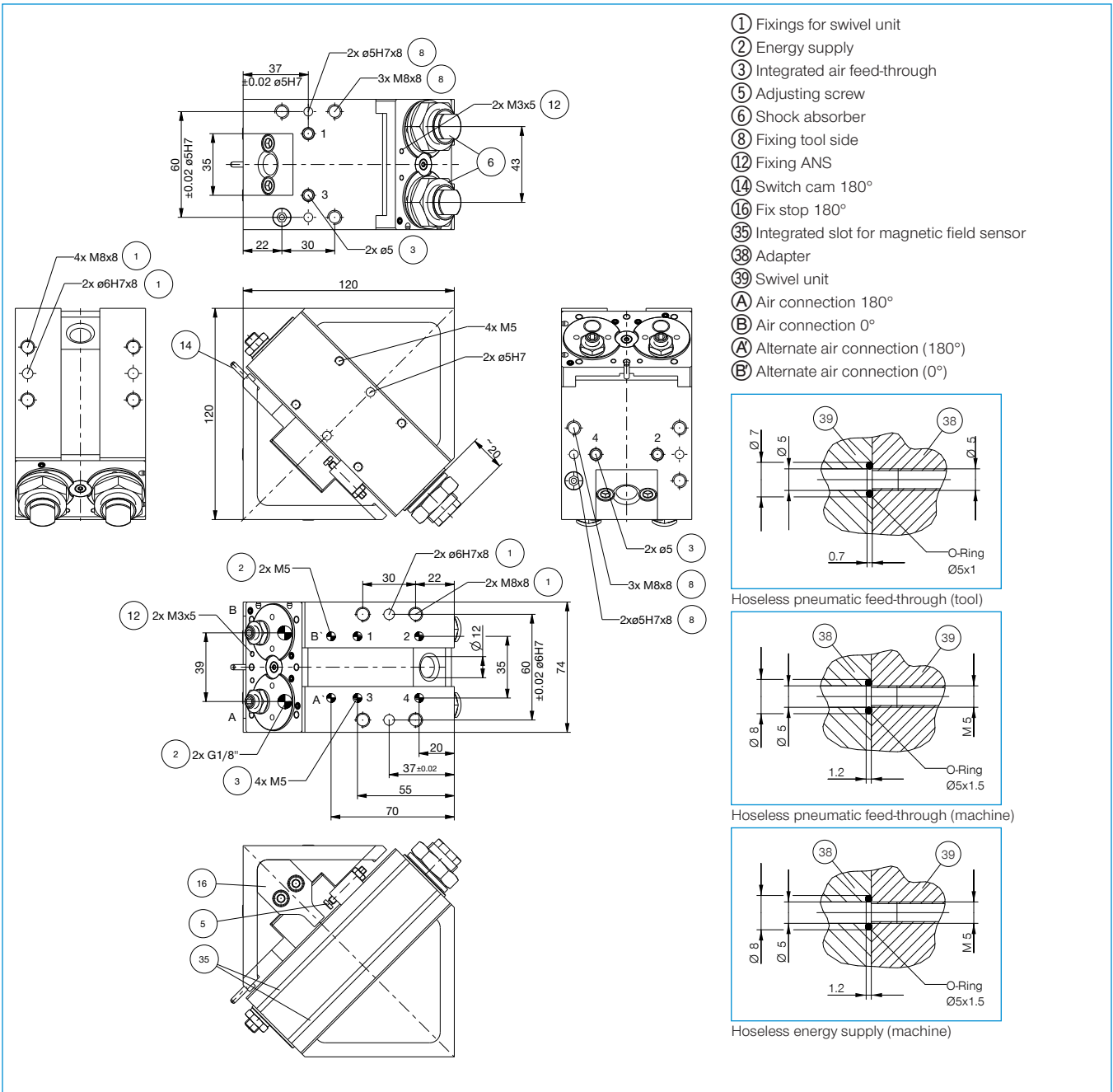
Inductive proximity switch
- Connector M8
NJ8-E2S

► **Technical Data***

Order no.	SW74D4-C
Swivel angle [°]	180
Torque [Nm]	5.5
Repetition accuracy +/- [°]	0.01
Swivel time [s]**	0.3
Passage bore Ø [mm]	12
Axial bearing load [N]	1120
Radial bearing load [Nm]	90
Operating pressure min. [bar]	3
Operating pressure max. [bar]	8
Operating temperature [°C]	5 ... +80
Air volume per cycle [cm³]	42
Weight [kg]	2.6

* All data measured at 6 bar

**without extension load



ANGLE PIVOT UNITS

INSTALLATION SIZE SW100

▶ PRODUCT SPECIFICATIONS



▶ INCLUDED IN DELIVERY



Flow Control Valves - with Swivel joint
DRV1-8X6



O-Ring
COR0050100

▶ RECOMMENDED ACCESSORIES



Magnetic field sensor
Straight Cable 5 m
MFS204KHC



Magnetic field sensor
Straight Cable 0,3 m -
Connector M8
MFS204SKHC



Plug-in connector Straight
Cable 5m - Socket M8
(female)
KAG500



Plug-in connector
customizable Straight -
Connector M12
S12-G-3



Pressure Safety Valve
DSV1-8

▶ RECOMMENDED ACCESSORY ATTACHMENT KIT



Attachment Kit
ANS0064



Inductive proximity switch
- Cable 5 m
NJ8-E2

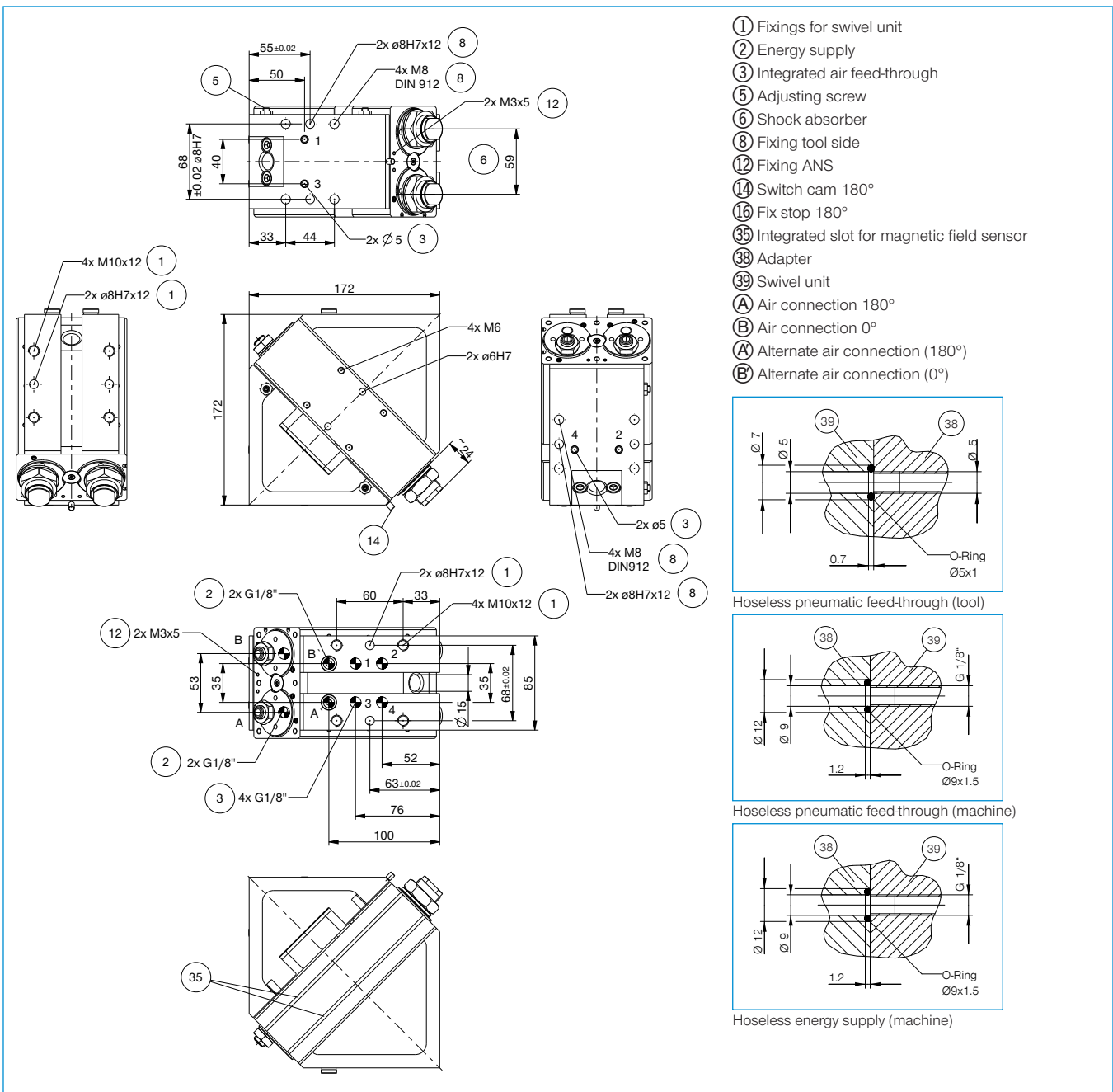


Inductive proximity switch
- Connector M8
NJ8-E2S

Order no.	SW100D4-C
Swivel angle [°]	180
Torque [Nm]	15
Repetition accuracy +/- [°]	0.01
Swivel time [s] **	0.5
Passage bore Ø [mm]	15
Axial bearing load [N]	2500
Radial bearing load [Nm]	155
Operating pressure min. [bar]	3
Operating pressure max. [bar]	8
Operating temperature [°C]	5 ... +80
Air volume per cycle [cm³]	108
Weight [kg]	6.3

* All data measured at 6 bar

** without extension load



ANGLE PIVOT UNITS

INSTALLATION SIZE SW125

▶ PRODUCT SPECIFICATIONS



▶ INCLUDED IN DELIVERY



Flow Control Valves - with Swivel joint
DRV1-4X8



O-Ring
COR0090150

▶ RECOMMENDED ACCESSORIES



Inductive proximity switch - Cable 5 m

NJ8-E2



Inductive proximity switch - Cable 5 m

NJ12-E2



Magnetic field sensor Straight Cable 5 m

MFS204KHC



Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



Plug-in connector Straight Cable 5m - Socket M8 (female)

KAG500



Plug-in connector Angled Cable 5m - Socket M8 (female)

KAW500



Plug-in connector customizable Straight - Connector M8

S8-G-3



Plug-in connector customizable Straight - Connector M12

S12-G-3

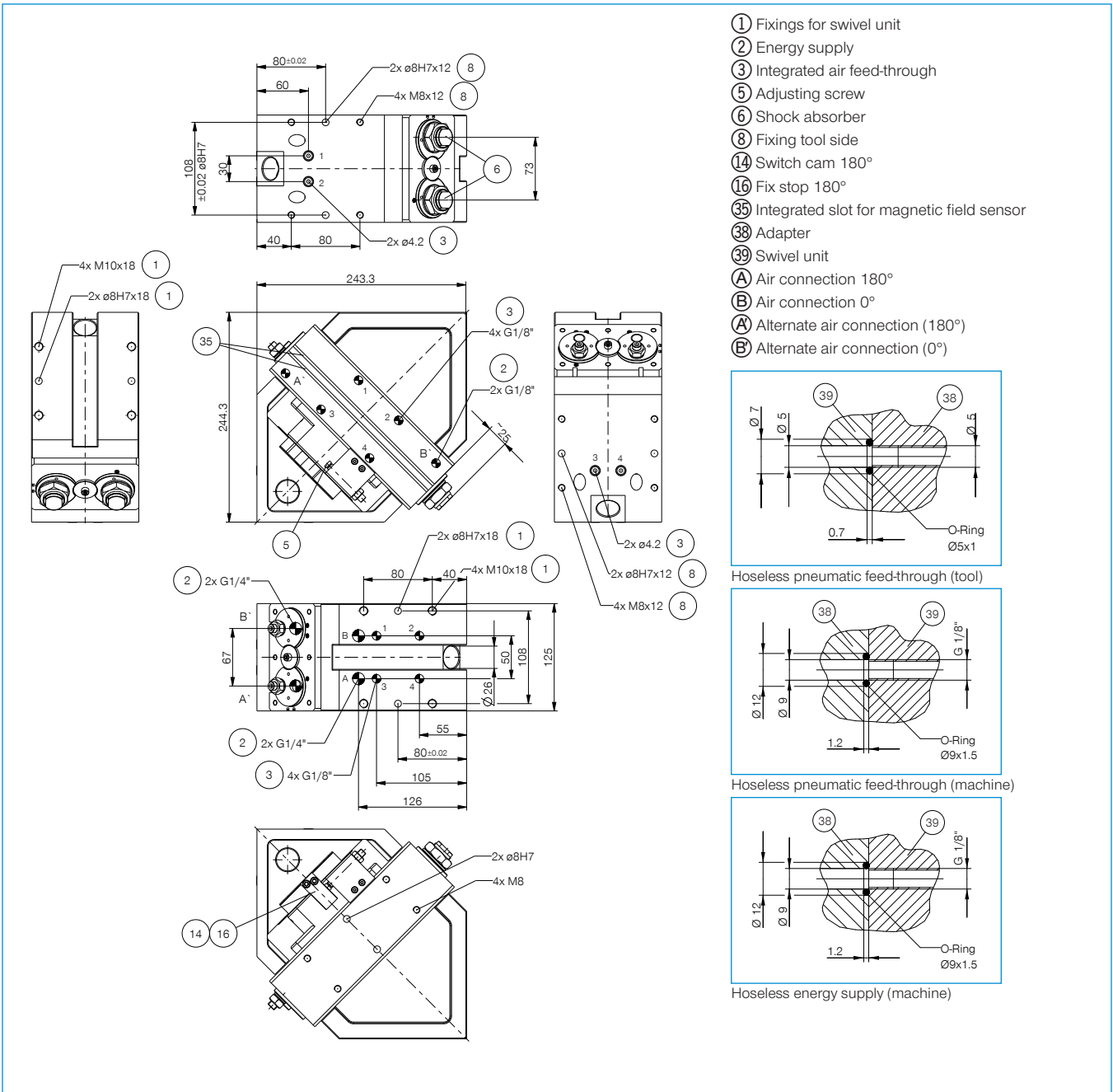


Pressure Safety Valve

DSV1-8

► Technical Data*	
Order no.	SW125D4-C
Swivel angle [°]	180
Torque [Nm]	34
Repetition accuracy +/- [°]	0.01
Swivel time [s]**	0.6
Passage bore Ø [mm]	26
Axial bearing load [N]	3400
Radial bearing load [Nm]	390
Operating pressure min. [bar]	3
Operating pressure max. [bar]	8
Operating temperature [°C]	5 ... +80
Air volume per cycle [cm³]	440
Weight [kg]	15.3

* All data measured at 6 bar
 ** without extension load

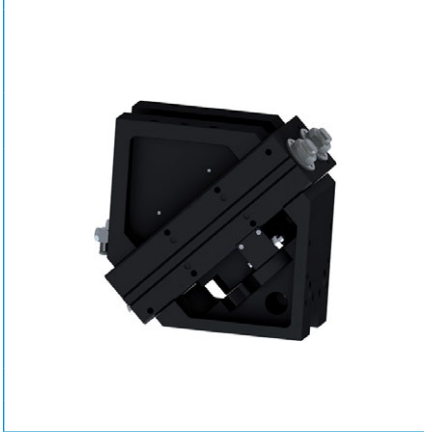


- ① Fixings for swivel unit
- ② Energy supply
- ③ Integrated air feed-through
- ⑤ Adjusting screw
- ⑥ Shock absorber
- ⑧ Fixing tool side
- ⑭ Switch cam 180°
- ⑯ Fix stop 180°
- ⑳ Integrated slot for magnetic field sensor
- ㉑ Adapter
- ㉒ Swivel unit
- Ⓐ Air connection 180°
- Ⓑ Air connection 0°
- Ⓐ Alternate air connection (180°)
- Ⓑ Alternate air connection (0°)

ANGLE PIVOT UNITS

INSTALLATION SIZE SW155

▶ PRODUCT SPECIFICATIONS



▶ INCLUDED IN DELIVERY



Flow Control Valves - with Swivel joint
DRV1-4X8



O-Ring
COR0090150

▶ RECOMMENDED ACCESSORIES



Inductive proximity switch - Cable 5 m

NJ8-E2



Inductive proximity switch - Cable 5 m

NJ12-E2



Magnetic field sensor Straight Cable 5 m

MFS204KHC



Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



Plug-in connector Straight Cable 5m - Socket M8 (female)

KAG500



Plug-in connector Angled Cable 5m - Socket M8 (female)

KAW500



Plug-in connector customizable Straight - Connector M8

S8-G-3



Plug-in connector customizable Straight - Connector M12

S12-G-3



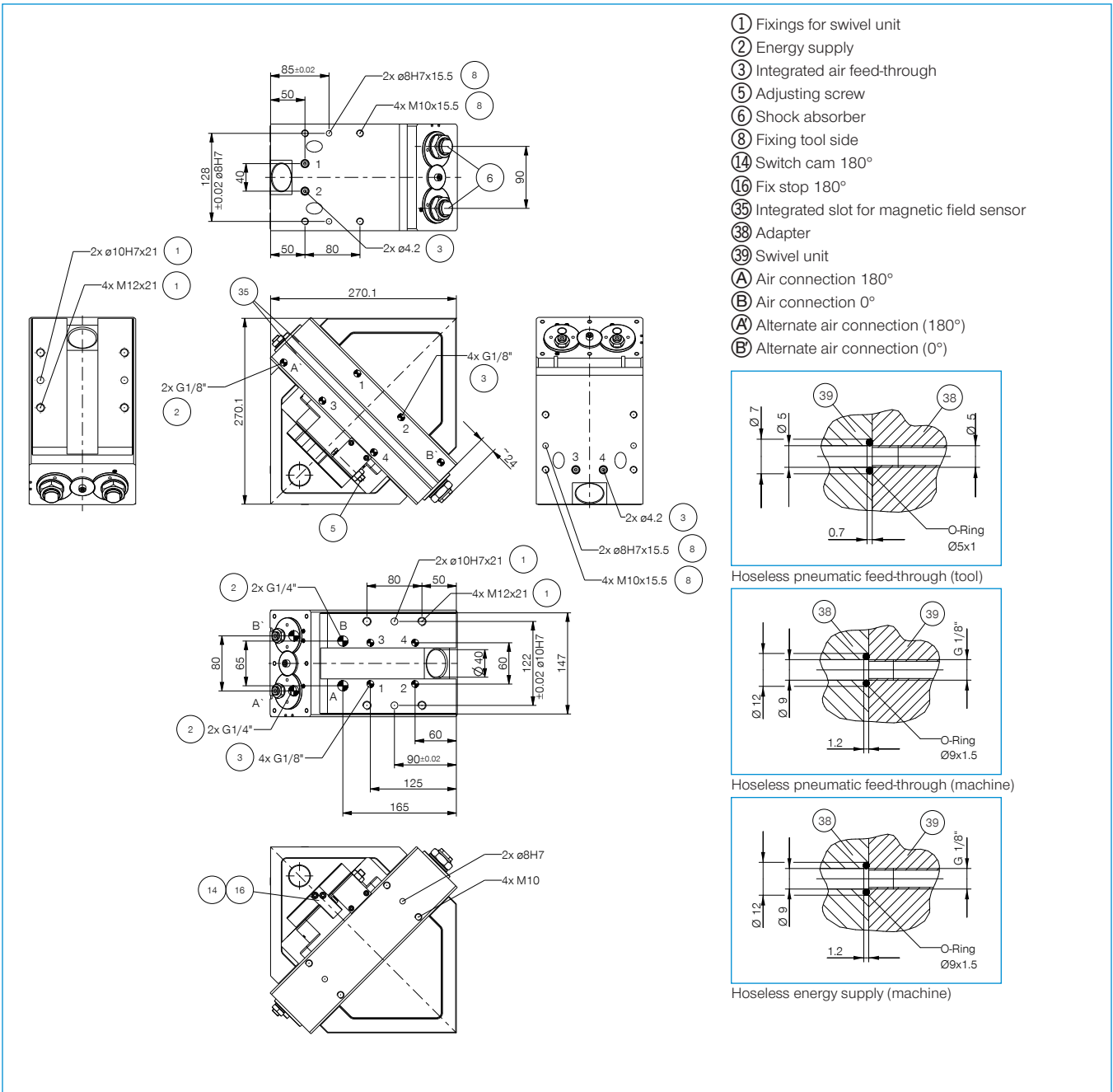
Pressure Safety Valve

DSV1-8

Order no.	SW155D4-C
Swivel angle [°]	180
Torque [Nm]	58
Repetition accuracy +/- [°]	0.01
Swivel time [s]**	0.8
Passage bore Ø [mm]	40
Axial bearing load [N]	5900
Radial bearing load [Nm]	760
Operating pressure min. [bar]	3
Operating pressure max. [bar]	8
Operating temperature [°C]	5 ... +80
Air volume per cycle [cm³]	730
Weight [kg]	25.3

* All data measured at 6 bar
 ** without extension load

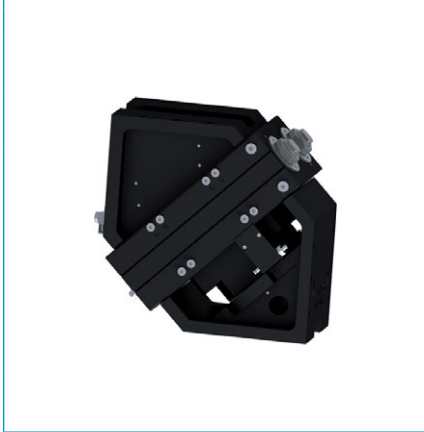
► Technical Data*



ANGLE PIVOT UNITS

INSTALLATION SIZE SW195

▶ PRODUCT SPECIFICATIONS



▶ INCLUDED IN DELIVERY



Flow Control Valves - with Swivel joint
DRV1-4X8



O-Ring
COR0120150

▶ RECOMMENDED ACCESSORIES



Inductive proximity switch - Cable 5 m

NJ8-E2



Inductive proximity switch - Cable 5 m

NJ12-E2



Magnetic field sensor Straight Cable 5 m

MFS204KHC



Magnetic field sensor Straight Cable 0,3 m - Connector M8

MFS204SKHC



Plug-in connector Straight Cable 5m - Socket M8 (female)

KAG500



Plug-in connector Angled Cable 5m - Socket M8 (female)

KAW500



Plug-in connector customizable Straight - Connector M8

S8-G-3



Plug-in connector customizable Straight - Connector M12

S12-G-3

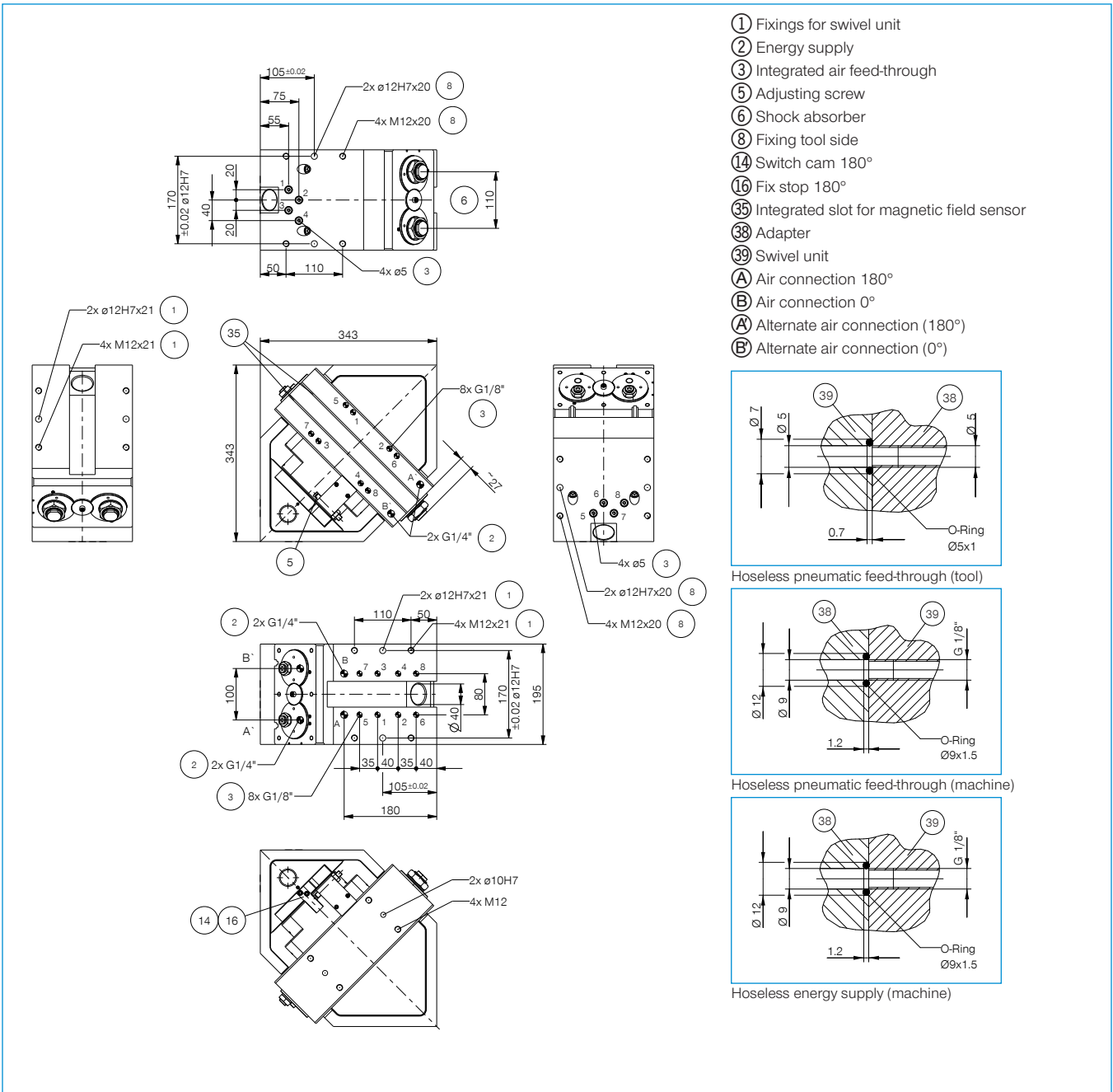


Pressure Safety Valve

DSV1-8

► Technical Data*	
Order no.	SW195D8-C
Swivel angle [°]	180
Torque [Nm]	120
Repetition accuracy +/- [°]	0.01
Swivel time [s]**	1.1
Passage bore Ø [mm]	40
Axial bearing load [N]	7000
Radial bearing load [Nm]	1250
Operating pressure min. [bar]	3
Operating pressure max. [bar]	8
Operating temperature [°C]	5 ... +80
Air volume per cycle [cm³]	1520
Weight [kg]	48.2

* All data measured at 6 bar
 ** without extension load

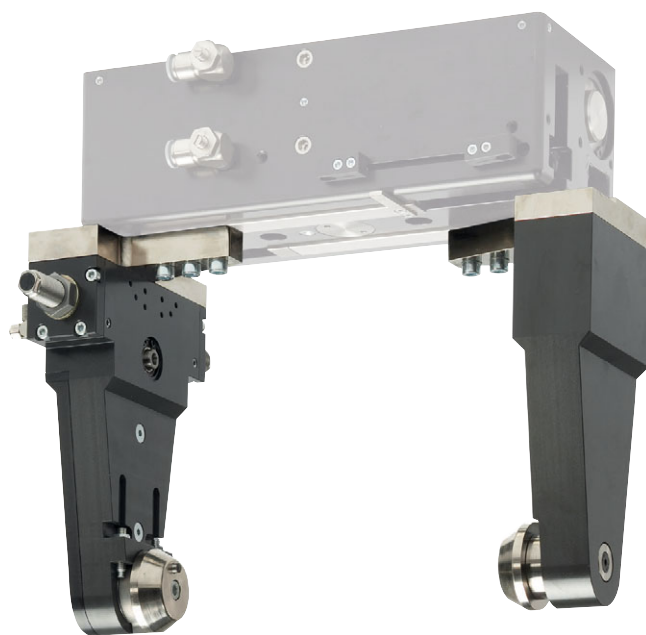


- ① Fixings for swivel unit
- ② Energy supply
- ③ Integrated air feed-through
- ⑤ Adjusting screw
- ⑥ Shock absorber
- ⑧ Fixing tool side
- ⑭ Switch cam 180°
- ⑯ Fix stop 180°
- ⑳ Integrated slot for magnetic field sensor
- ㉑ Adapter
- ㉒ Swivel unit
- Ⓐ Air connection 180°
- Ⓑ Air connection 0°
- Ⓐ Alternate air connection (180°)
- Ⓑ Alternate air connection (0°)

SWIVEL JAWS

OVERVIEW OF SERIES





▶ PNEUMATIC



Series SB

696

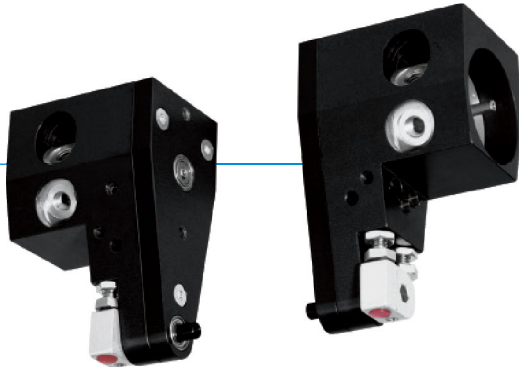


Series SBZ

704

SWIVEL JAWS SERIES SB

▶ PRODUCT ADVANTAGES



“The economical”

▶ Concentration on the essentials

The most cost-effective type of swivelling reduces your production costs

▶ Proven technology

We have more than 20 years of proven reliability, which ensures uninterrupted production for you

▶ Flexible swivel angle

90° or 180°; you decide which using the provided limit stops. This allows you to be flexible while only needing to maintain one product in your system

▶ THE BEST PRODUCT FOR YOUR APPLICATION



▶ Our products love the challenge!

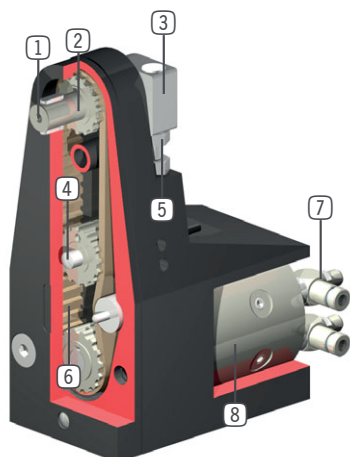
Extreme conditions, all over the world—our tried and tested components and systems give you limitless possibilities:

Find the best product for your specific use:

www.zimmer-group.com



► BENEFITS IN DETAIL



- 1 Drive shaft**
 - as hexagonal or round shaft with feather key, depending on design
 - quick and cost effective positioning of application-specific workpiece intakes
- 2 Two way bearing drive shaft**
 - high forces and moments capacity
- 3 Stop**
 - swivel angle of 90 and 180°
 - stable, with Fibroflex stop surface
- 4 Position sensing**
 - inquiry of end positions 0° and 90° (or 180°) via inductive proximity switch
 - integrated in housing, therefore no additional interference contour
- 5 End position**
 - +/- 3° adjustable end position
- 6 Force transfer**
 - stable toothed belt with steel reinforcement
 - quiet, reliable, durable
- 7 Energy supply**
 - possible from several sides
- 8 Drive**
 - double-acting rotor cylinder

► SERIES CHARACTERISTICS



Number of installation sizes	3
Swivel angle	90° - 180°
Torque	0,1 Nm - 1,6 Nm
Weight (pair)	0,3 kg - 2,2 kg
AP class	2



Elastomer end position damping



Inductive sensor



Positionability - 2 positions



Adjustable swivel angle



IP54

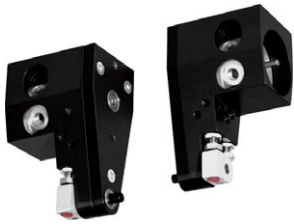


10 million maintenance-free cycles (max.)

SWIVEL JAWS

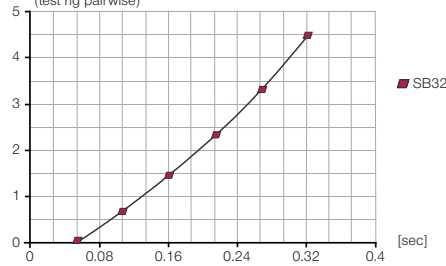
INSTALLATION SIZE SB32

▶ PRODUCT SPECIFICATIONS



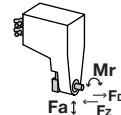
▶ Moment of inertia

[kg cm²] Shows the expected swivel time against the calculated moment of inertia (test rig pairwise)



▶ Forces and moments

Indicates the static load on the bearing.



Fa [N]	180
Mr [Nm]	2.1
FD [N]**	90
FZ [N]**	90

▶ INCLUDED IN DELIVERY



Stop 90°

GEH03350



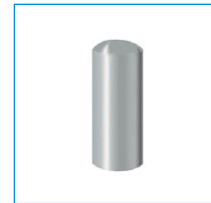
Stop 180°

GEH03340



Sleeve For Proximity Switch

DMS03210



Cylinder Pin

C632504100

▶ RECOMMENDED ACCESSORIES



Basic jaw

SB32-1-B



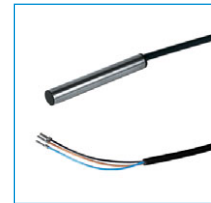
Basic jaw

SB32-1-B-01



Basic Jaw Rubberized

SB32-2-B



Inductive proximity switch - Cable 5 m

NJ4-E2-01



Inductive Proximity Switch Cable 0,3 m - Connector M8 NJ4-E2SK-01



Plug-in connector Straight Cable 5m - Socket M8 (female)

KAG500



Plug-in connector Angled Cable 5m - Socket M8 (female)

KAW500



Plug-in connector customizable Straight - Connector M8

S8-G-3



Plug-in connector customizable Straight - Connector M12

S12-G-3

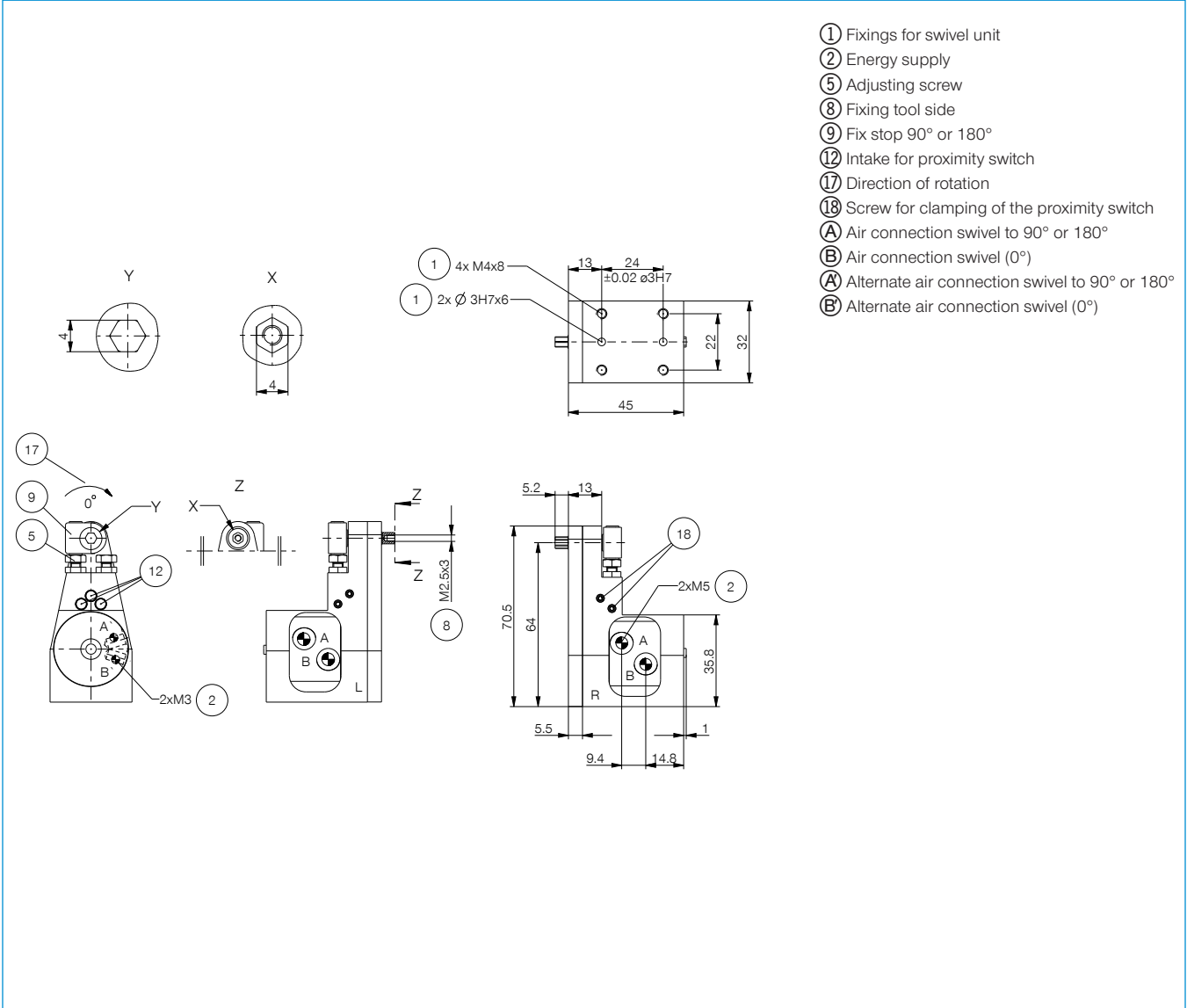


Pressure Safety Valve

DSV1-8

Order no.	SB32-D
Swivel angle [°]	90 / 180
Torque per jaw [Nm]	0.1
Swivel angle regulable +/- [°]	3
Repetition accuracy +/- [°]	0.5
Operating pressure min. [bar]	3
Operating pressure max. [bar]	7
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm³]	2
Weight (pair) [kg]	0.3
FD [N]**	90
FZ [N]**	90

*All data measured at 6 bar
 **Observe the gripper force



SWIVEL JAWS

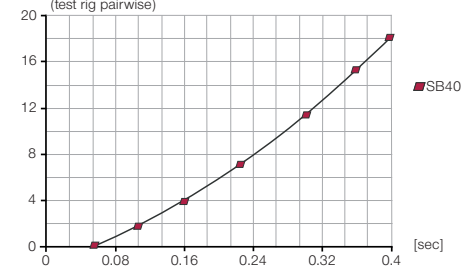
INSTALLATION SIZE SB40

▶ PRODUCT SPECIFICATIONS



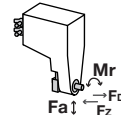
▶ Moment of inertia

[kg cm²] Shows the expected swivel time against the calculated moment of inertia (test rig pairwise)



▶ Forces and moments

Indicates the static load on the bearing.



Fa [N]	770
Mr [Nm]	10.8
FD [N]**	385
FZ [N]**	385

▶ INCLUDED IN DELIVERY



Stop 90°

GEH04160



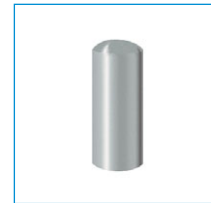
Stop 180°

GEH04150



Sleeve For Proximity Switch

DMS03210



Cylinder Pin

C632504100

▶ RECOMMENDED ACCESSORIES



Basic jaw

SB40-1



Basic Jaw Rubberized

SB40-2



Inductive proximity switch - Cable 5 m

NJ4-E2-01



Inductive Proximity Switch Cable 0,3 m - Connector M8

NJ4-E2SK-01



Plug-in connector Straight Cable 5m - Socket M8 (female)

KAG500



Plug-in connector Angled Cable 5m - Socket M8 (female)

KAW500



Plug-in connector customizable Straight - Connector M8

S8-G-3



Plug-in connector customizable Straight - Connector M12

S12-G-3

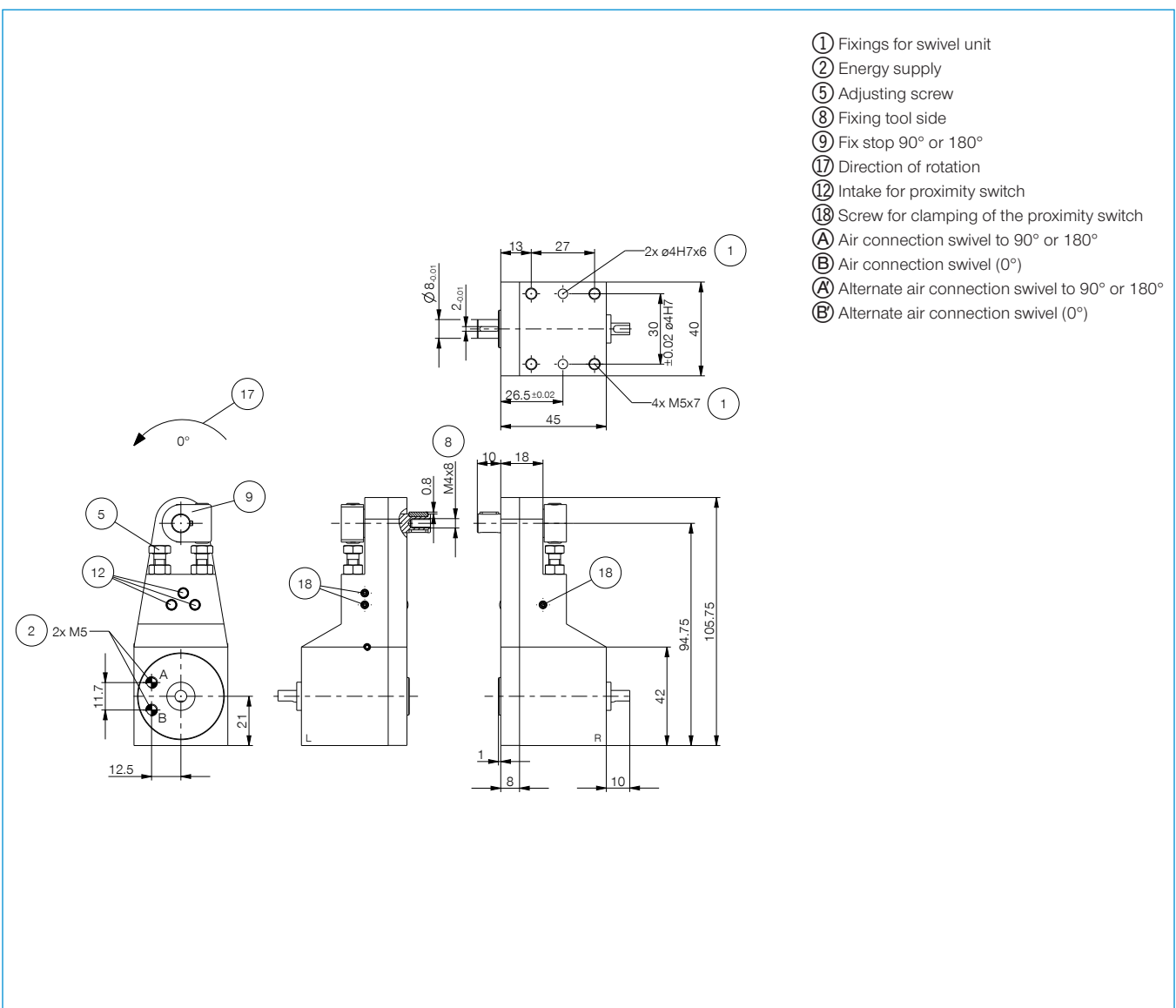


Pressure Safety Valve

DSV1-8

Order no.	SB40-B
Swivel angle [°]	90 / 180
Torque per jaw [Nm]	0.3
Swivel angle regulable +/- [°]	3
Repetition accuracy +/- [°]	0.5
Operating pressure min. [bar]	3
Operating pressure max. [bar]	7
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm³]	4
Weight (pair) [kg]	0.7
FD [N]**	385
FZ [N]**	385

*All data measured at 6 bar
 **Observe the gripper force



- ① Fixings for swivel unit
- ② Energy supply
- ⑤ Adjusting screw
- ⑧ Fixing tool side
- ⑨ Fix stop 90° or 180°
- ⑰ Direction of rotation
- ⑱ Intake for proximity switch
- ⑲ Screw for clamping of the proximity switch
- A Air connection swivel to 90° or 180°
- B Air connection swivel (0°)
- A Alternate air connection swivel to 90° or 180°
- B Alternate air connection swivel (0°)

SWIVEL JAWS

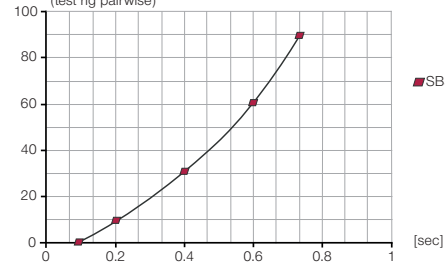
INSTALLATION SIZE SB54

▶ PRODUCT SPECIFICATIONS



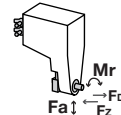
▶ Moment of inertia

[kg cm²] Shows the expected swivel time against the calculated moment of inertia (test rig pairwise)



▶ Forces and moments

Indicates the static load on the bearing.



Fa [N]	850
Mr [Nm]	15.3
FD [N]**	425
FZ [N]**	425

▶ INCLUDED IN DELIVERY



Stop 90°

GEH05501



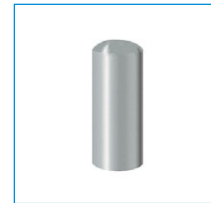
Stop 180°

GEH05491



Sleeve For Proximity Switch

DMS03210



Straight pin

KUN05410

▶ RECOMMENDED ACCESSORIES



Basic jaw

SB54-1



Basic Jaw Rubberized

SB54-2



Inductive proximity switch - Cable 5 m

NJ4-E2-01



Inductive Proximity Switch Cable 0,3 m - Connector M8

NJ4-E2SK-01



Plug-in connector Straight Cable 5m - Socket M8 (female)

KAG500



Plug-in connector Angled Cable 5m - Socket M8 (female)

KAW500



Plug-in connector customizable Straight - Connector M8

S8-G-3



Plug-in connector customizable Straight - Connector M12

S12-G-3

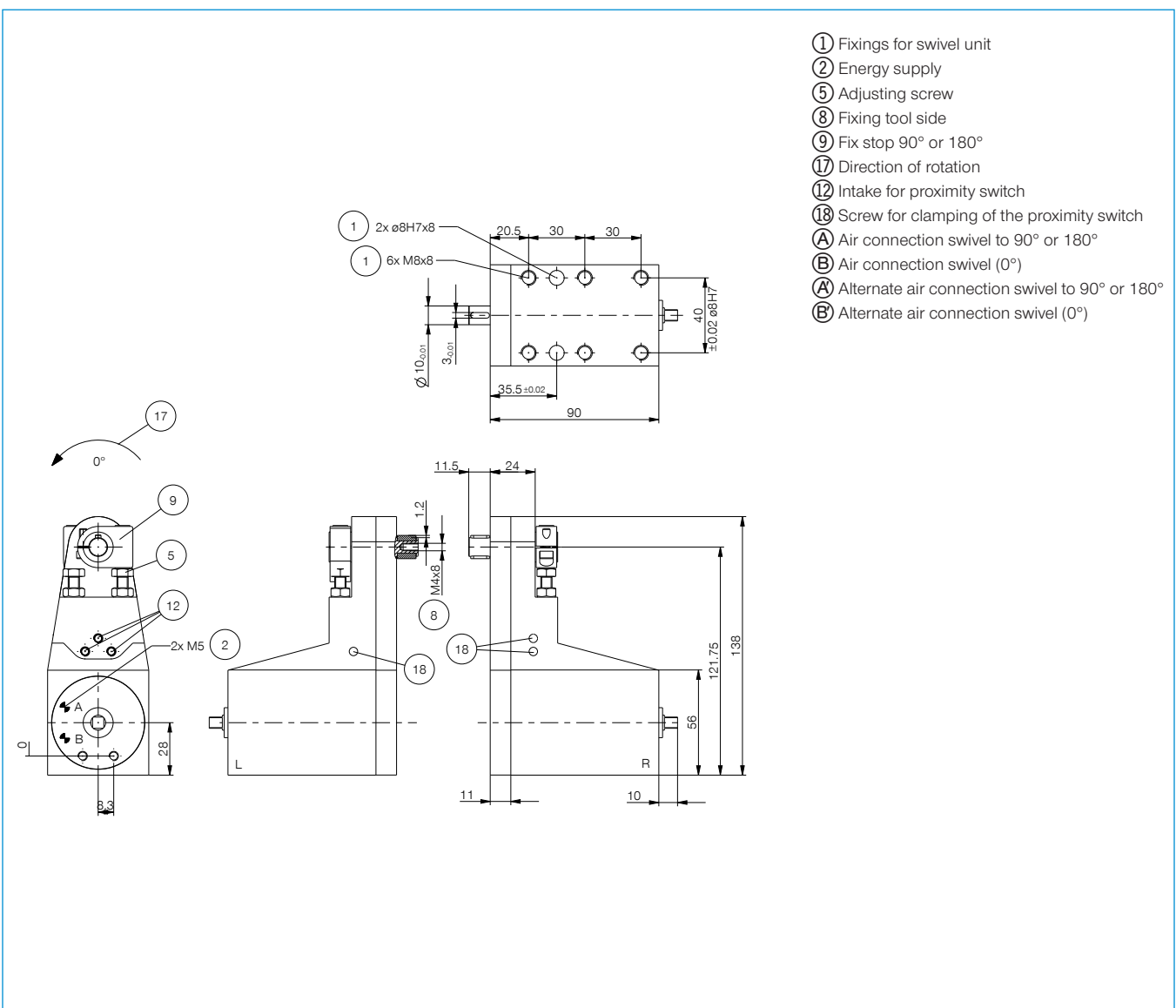


Pressure Safety Valve

DSV1-8

► Technical Data*	
Order no.	SB54-B
Swivel angle [°]	90 / 180
Torque per jaw [Nm]	1.6
Swivel angle regulable +/- [°]	3
Repetition accuracy +/- [°]	0.5
Operating pressure min. [bar]	3
Operating pressure max. [bar]	7
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm³]	16
Weight (pair) [kg]	2.2
FD [N]**	425
FZ [N]**	425

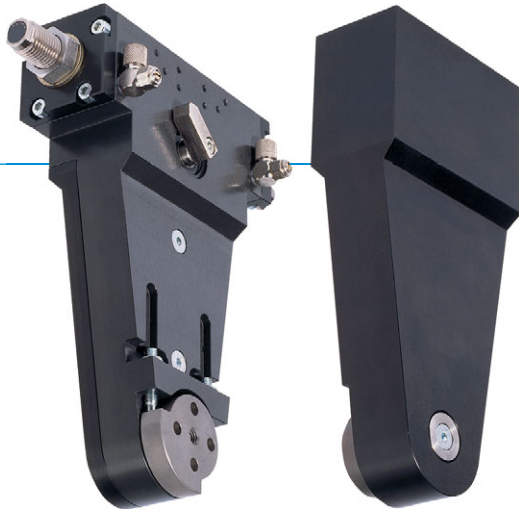
*All data measured at 6 bar
 **Observe the gripper force



- ① Fixings for swivel unit
- ② Energy supply
- ⑤ Adjusting screw
- ⑧ Fixing tool side
- ⑨ Fix stop 90° or 180°
- ⑰ Direction of rotation
- ⑱ Intake for proximity switch
- ⑲ Screw for clamping of the proximity switch
- A Air connection swivel to 90° or 180°
- B Air connection swivel (0°)
- A Alternate air connection swivel to 90° or 180°
- B Alternate air connection swivel (0°)

SWIVEL JAWS SERIES SBZ

▶ PRODUCT ADVANTAGES



“The superior”

▶ Shock absorber with spiral groove technology

Superior end position damping lets you swivel more mass in the shortest amount of time, increasing your machine’s component output

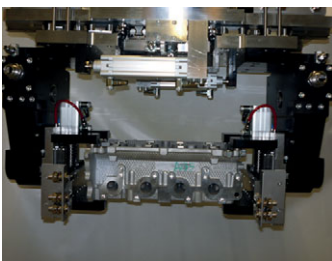
▶ Force transmission via gear wheel set

The robust gear wheels stand for precision, reliability and long service life and guarantee smooth operation

▶ Failure-free continuous operation

Our uncompromising “Made in Germany” quality guarantees up to 10 million maintenance-free gripping cycles

▶ THE BEST PRODUCT FOR YOUR APPLICATION



▶ Our products love the challenge!

Extreme conditions, all over the world—our tried and tested components and systems give you limitless possibilities:

Find the best product for your specific use:

www.zimmer-group.com

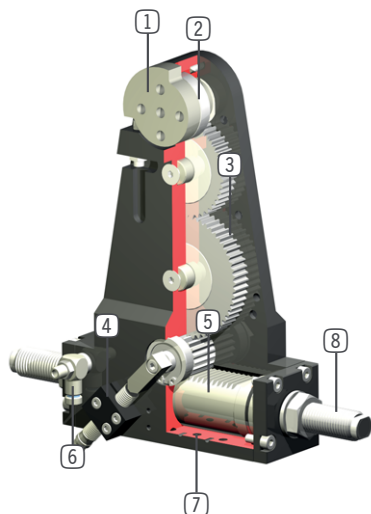
HOW TO ORDER CORRECTLY

- ▶ The product order numbers are arranged according to this diagram:

Order no.	SB100	<input type="checkbox"/>	<input type="checkbox"/>	-B
counter bearing (no drive)		G		
Rotation angle 90°			-90	
Rotation angle 180°			-180	



► BENEFITS IN DETAIL



- ① **Two way bearing drive shaft**
 - high forces and moments capacity
- ② **Drive flange**
 - large size drive flange with end stop and large central hole (from SB150)
- ③ **Force transfer**
 - stable gear wheel set
 - precise, reliable, durable
- ④ **Position sensing**
 - inquiry of end positions 0° and 90° (or 180°) via inductive proximity switch
 - adjustable on rotatable switch cam
- ⑤ **Drive**
 - double-acting pneumatic cylinder
- ⑥ **Air flow control valve**
 - for speed regulation (included in the delivery)
- ⑦ **Mounting and positioning**
 - mounting possible from several sides for versatile positioning
- ⑧ **Integrated and patented hydraulic shock absorbers**
 - adjustable end position damping

► SERIES CHARACTERISTICS



Number of installation sizes	5
Swivel angle	90° - 180°
Torque	1,2 Nm - 57 Nm
Weight	0,45 kg - 28 kg
AP class	3



Powerstop end position damping



Inductive sensor



Positionability - 2 positions



IP54



10 million maintenance-free cycles (max.)

SWIVEL JAWS

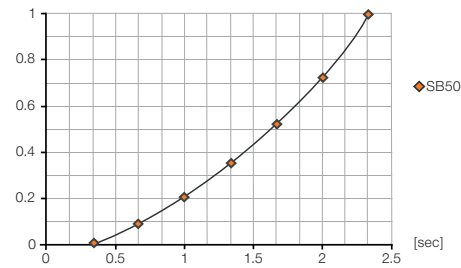
INSTALLATION SIZE SB50

▶ PRODUCT SPECIFICATIONS



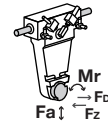
▶ Moment of inertia

[kg m²] Shows the expected swivel time against the calculated moment of inertia



▶ Forces and moments

Indicates the static load on the bearing.



Fa [N]	1720
Mr [Nm]	15
FD [N]**	860
FZ [N]**	630

▶ INCLUDED IN DELIVERY



Mounting block

KB8K-02



Flow Control Valves - with Swivel joint

DRVM5X4

▶ RECOMMENDED ACCESSORIES



Inductive proximity switch - Cable 5 m

NJ8-E2



Inductive proximity switch - Connector M8

NJ8-E2S



Plug-in connector Straight Cable 5m - Socket M8 (female)

KAG500



Plug-in connector Angled Cable 5m - Socket M8 (female)

KAW500



Plug-in connector customizable Straight - Connector M8

S8-G-3



Plug-in connector customizable Straight - Connector M12

S12-G-3

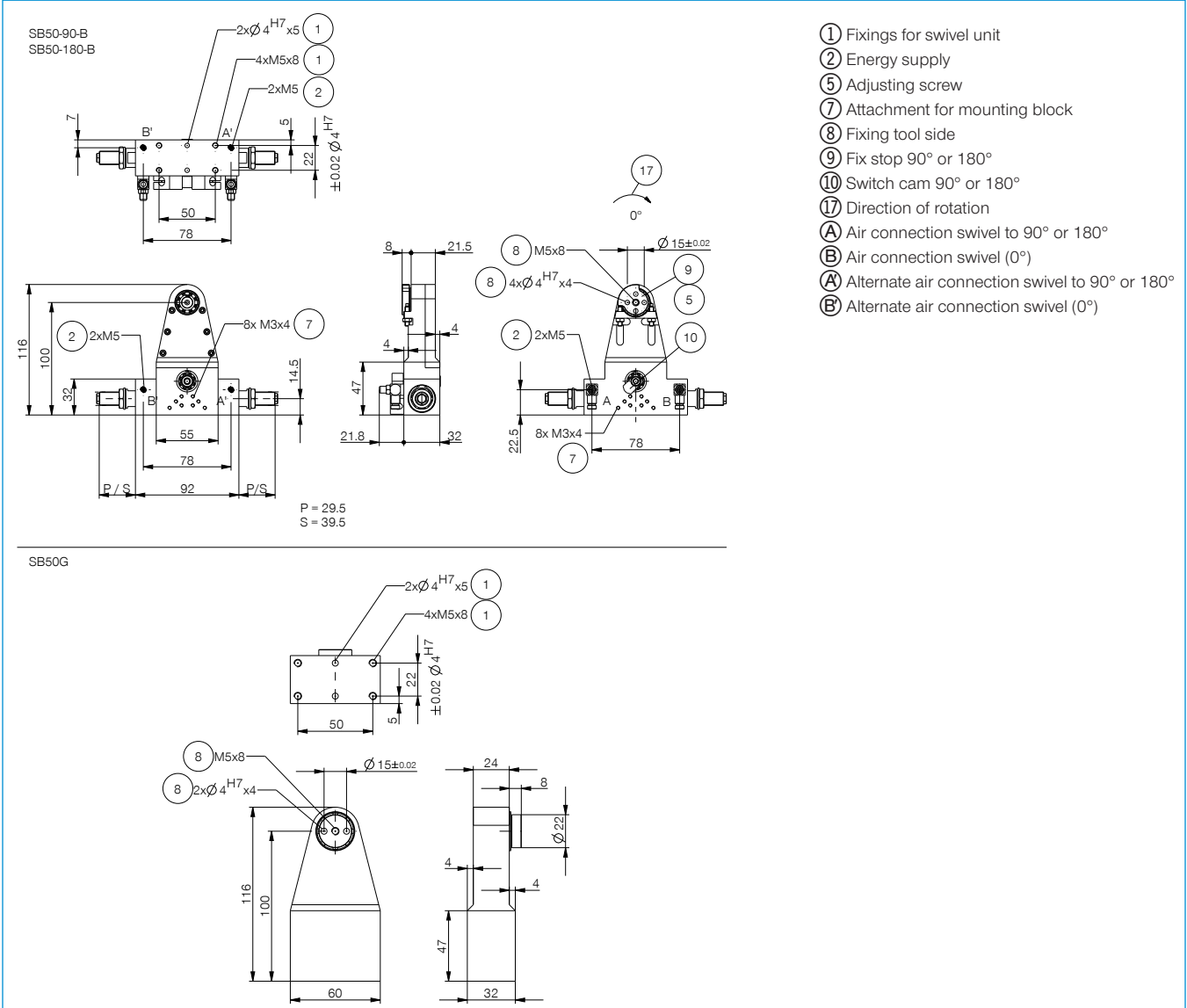


Pressure Safety Valve

DSV1-8

Order no.	► Technical Data*		
	SB50-90-B	SB50-180-B	SB50G
Swivel angle [°]	90	180	
Torque per jaw [Nm]	1.2	1.2	
Swivel angle regulable +/- [°]	3	3	
Repetition accuracy +/- [°]	0.01	0.01	
Operating pressure min. [bar]	3	3	
Operating pressure max. [bar]	8	8	
Operating temperature min. [°C]	5	5	5
Operating temperature max. [°C]	+80	+80	+80
Air volume per cycle [cm³]	5.5	7.5	
Weight [kg]	0.75	0.75	0.45
FD [N]**	860	860	860
FZ [N]**	630	630	630

*All data measured at 6 bar
 **Observe the gripper force



SWIVEL JAWS

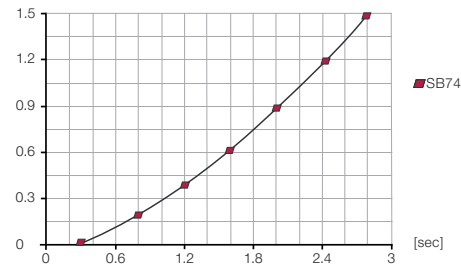
INSTALLATION SIZE SB74

▶ PRODUCT SPECIFICATIONS



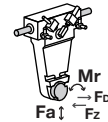
▶ Moment of inertia

[kg m²] Shows the expected swivel time against the calculated moment of inertia



▶ Forces and moments

Indicates the static load on the bearing.



Fa [N]	2400
Mr [Nm]	20
FD [N]**	1200
FZ [N]**	630

▶ INCLUDED IN DELIVERY



Mounting block

KB8K-02



Flow Control Valves - with Swivel joint

DRVM5X4

▶ RECOMMENDED ACCESSORIES



Inductive proximity switch - Cable 5 m

NJ8-E2



Inductive proximity switch - Connector M8

NJ8-E2S



Plug-in connector Straight Cable 5m - Socket M8 (female)

KAG500



Plug-in connector Angled Cable 5m - Socket M8 (female)

KAW500



Plug-in connector customizable Straight - Connector M8

S8-G-3



Plug-in connector customizable Straight - Connector M12

S12-G-3



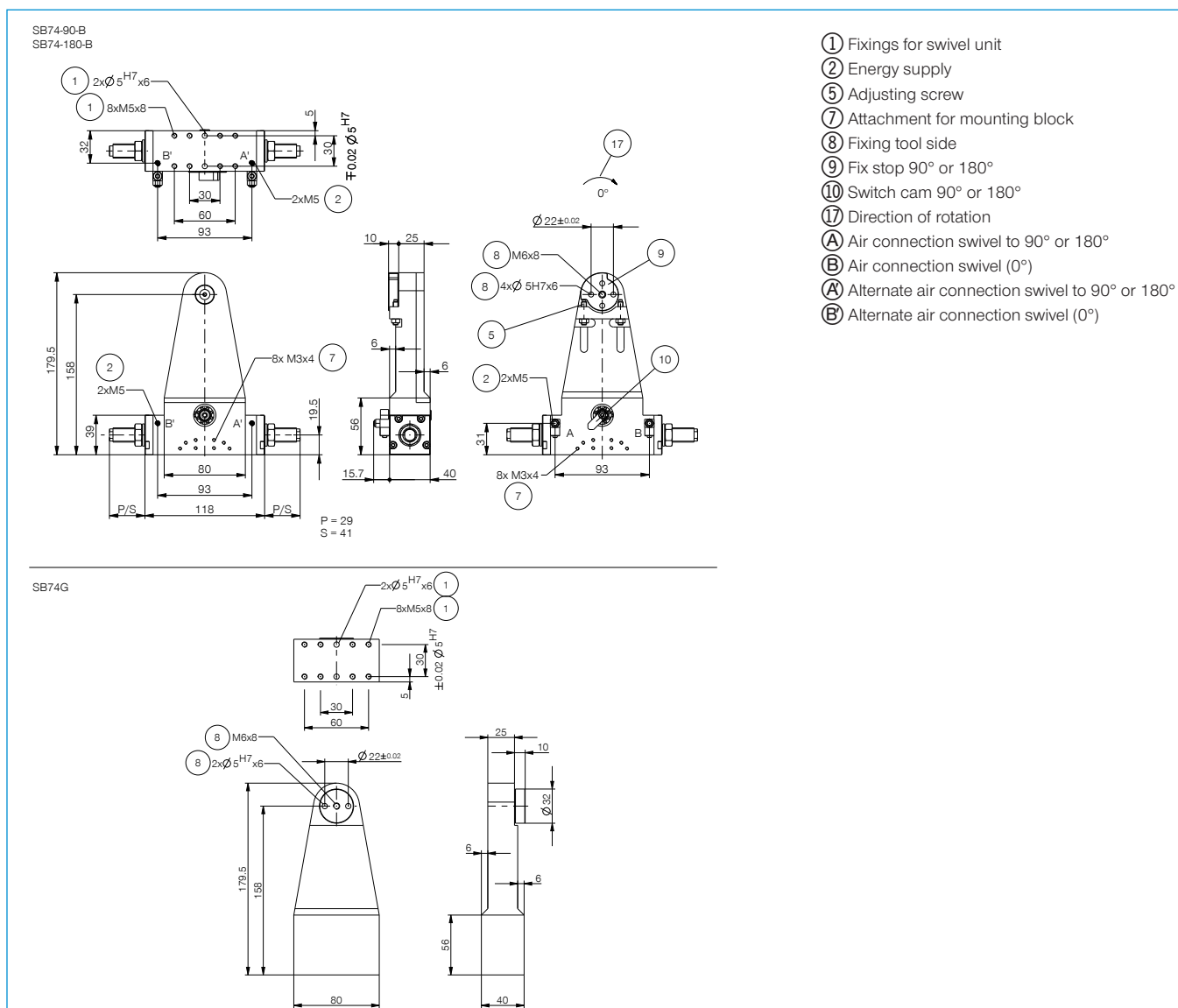
Pressure Safety Valve

DSV1-8

Order no.	Technical Data*		
	SB74-90-B	SB74-180-B	SB74G
Swivel angle [°]	90	180	
Torque per jaw [Nm]	3.5	3.5	
Swivel angle regulable +/- [°]	3	3	
Repetition accuracy +/- [°]	0.01	0.01	
Operating pressure min. [bar]	3	3	
Operating pressure max. [bar]	8	8	
Operating temperature min. [°C]	5	5	5
Operating temperature max. [°C]	+80	+80	+80
Air volume per cycle [cm³]	16	21	
Weight [kg]	1.7	1.7	1.1
FD [N]**	1200	1200	1200
FZ [N]**	630	630	630

*All data measured at 6 bar

**Observe the gripper force



SWIVEL JAWS

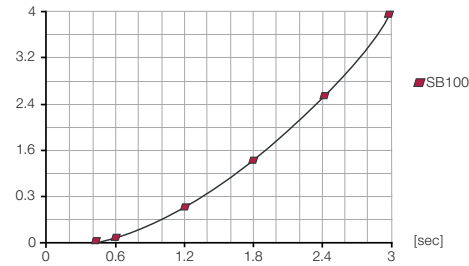
INSTALLATION SIZE SB100

▶ PRODUCT SPECIFICATIONS



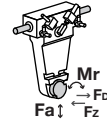
▶ Moment of inertia

[kg m²] Shows the expected swivel time against the calculated moment of inertia



▶ Forces and moments

Indicates the static load on the bearing.



Fa [N]	4000
Mr [Nm]	70
FD [N]**	2000
FZ [N]**	1200

▶ INCLUDED IN DELIVERY



Mounting block

KB8K-02



Flow Control Valves - with Swivel joint

DRV1-8X6

▶ RECOMMENDED ACCESSORIES



Inductive proximity switch - Cable 5 m

NJ8-E2



Inductive proximity switch - Connector M8

NJ8-E2S



Plug-in connector Straight Cable 5m - Socket M8 (female)

KAG500



Plug-in connector Angled Cable 5m - Socket M8 (female)

KAW500



Plug-in connector customizable Straight - Connector M8

S8-G-3



Plug-in connector customizable Straight - Connector M12

S12-G-3



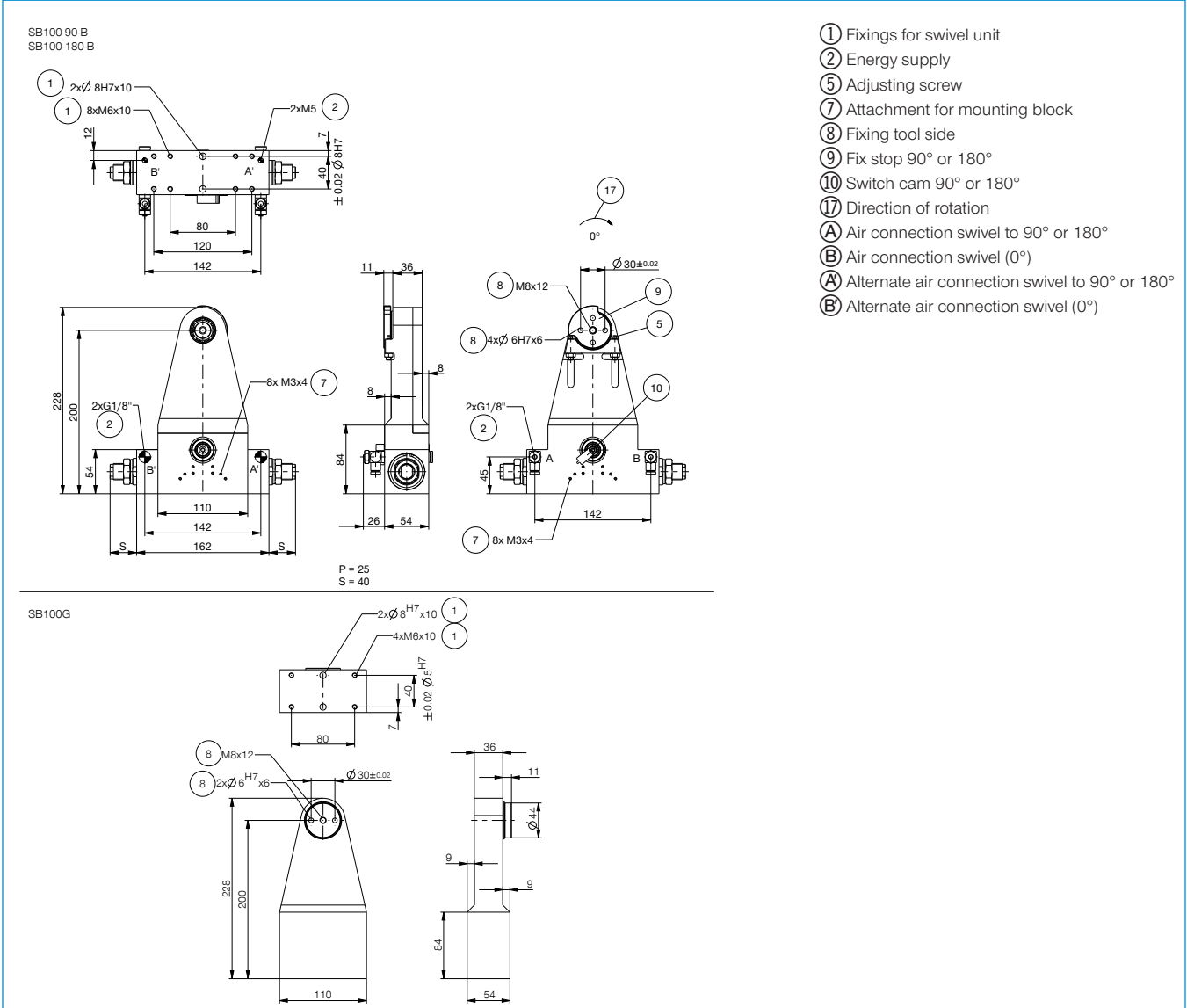
Pressure Safety Valve

DSV1-8

► Technical Data*

Order no.	SB100-90-B	SB100-180-B	SB100G
Swivel angle [°]	90	180	
Torque per jaw [Nm]	10	10	
Swivel angle regulable +/- [°]	3	3	
Repetition accuracy +/- [°]	0.01	0.01	
Operating pressure min. [bar]	3	3	
Operating pressure max. [bar]	8	8	
Operating temperature min. [°C]	5	5	5
Operating temperature max. [°C]	+80	+80	+80
Air volume per cycle [cm³]	40	54	
Weight [kg]	4	4	1.5
FD [N]**	2000	2000	2000
FZ [N]**	1200	1200	1200

*All data measured at 6 bar
 **Observe the gripper force



SWIVEL JAWS

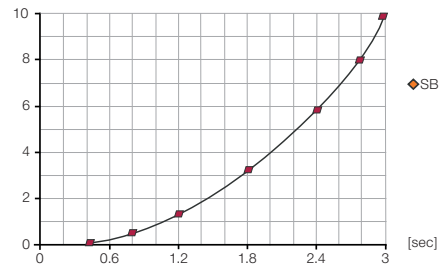
INSTALLATION SIZE SB150

▶ PRODUCT SPECIFICATIONS



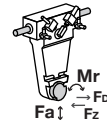
▶ Moment of inertia

[kg m²] Shows the expected swivel time against the calculated moment of inertia



▶ Forces and moments

Indicates the static load on the bearing.



Fa [N]	15000
Mr [Nm]	270
FD [N]**	7500
FZ [N]**	3700

▶ INCLUDED IN DELIVERY



Mounting block

KB8K



Flow Control Valves - with Swivel joint

DRV1-4X8

▶ RECOMMENDED ACCESSORIES



Inductive proximity switch - Cable 5 m

NJ8-E2



Inductive proximity switch - Connector M8

NJ8-E2S



Plug-in connector Straight Cable 5m - Socket M8 (female)

KAG500



Plug-in connector Angled Cable 5m - Socket M8 (female)

KAW500



Plug-in connector customizable Straight - Connector M8

S8-G-3



Plug-in connector customizable Straight - Connector M12

S12-G-3

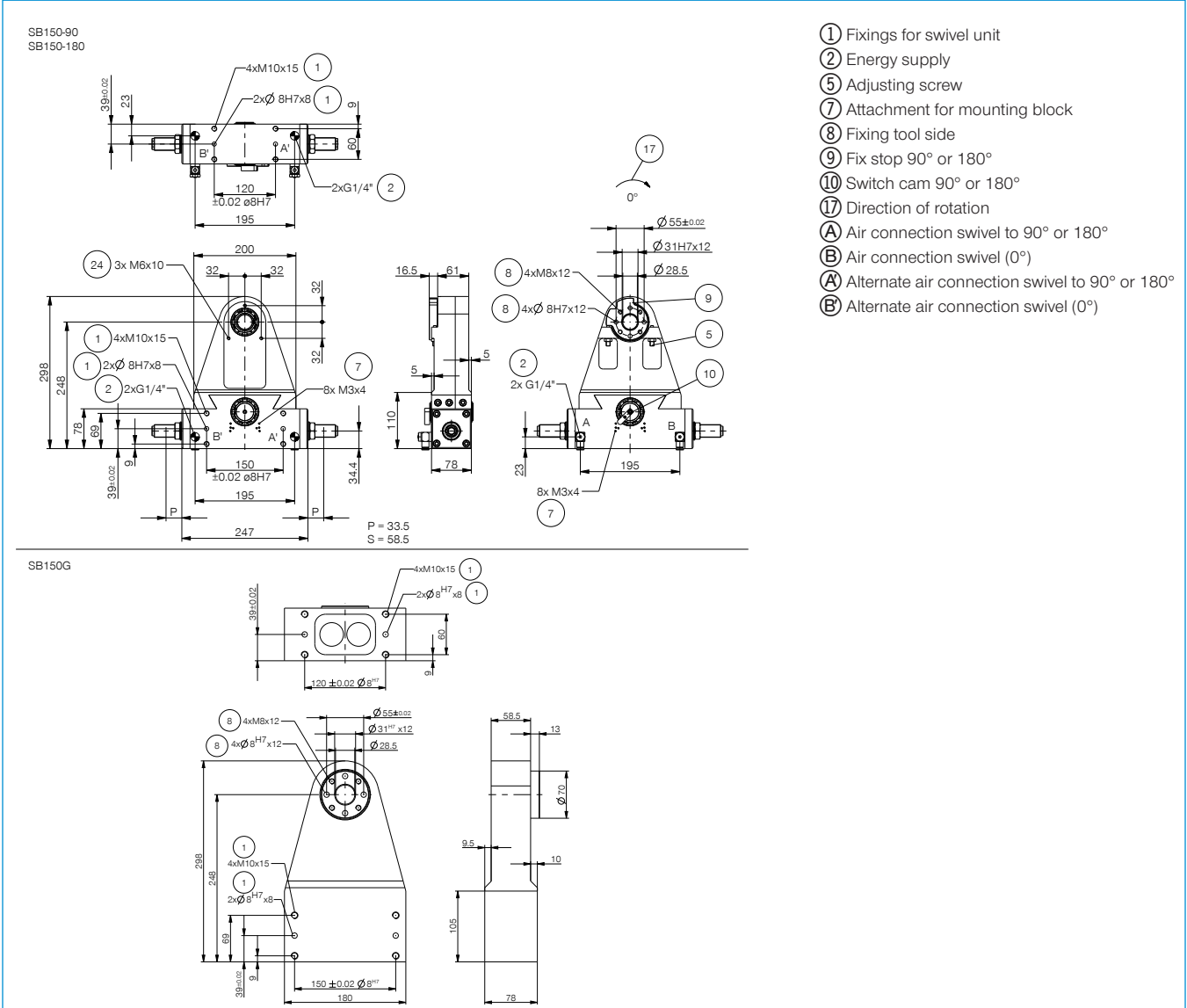


Pressure Safety Valve

DSV1-8

Order no.	▶ Technical Data*		
	SB150-90	SB150-180	SB150G
Swivel angle [°]	90	180	
Torque per jaw [Nm]	23	23	
Swivel angle regulable +/- [°]	3	3	
Repetition accuracy +/- [°]	0.01	0.01	0.01
Operating pressure min. [bar]	3	3	
Operating pressure max. [bar]	8	8	
Operating temperature min. [°C]	5	5	5
Operating temperature max. [°C]	+80	+80	+80
Air volume per cycle [cm³]	190	260	
Weight [kg]	11	11	6.5
FD [N]**	7500	7500	7500
FZ [N]**	3700	3700	3700

*All data measured at 6 bar
 **Observe the gripper force



SWIVEL JAWS

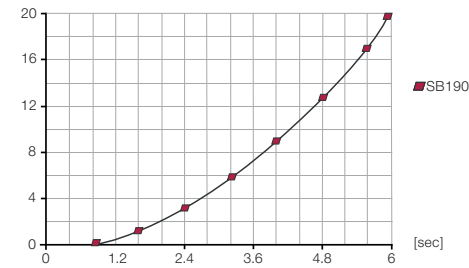
INSTALLATION SIZE SB190

▶ PRODUCT SPECIFICATIONS



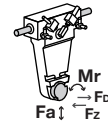
▶ Moment of inertia

[kg m²] Shows the expected swivel time against the calculated moment of inertia



▶ Forces and moments

Indicates the static load on the bearing.



Fa [N]	25000
Mr [Nm]	600
FD [N]**	12500
FZ [N]**	6100

▶ INCLUDED IN DELIVERY



Mounting block

KB12-03



Flow Control Valves - with Swivel joint

DRV1-4X8

▶ RECOMMENDED ACCESSORIES



Inductive proximity switch - Cable 5 m

NJ12-E2



Inductive proximity switch - Connector M8

NJ12-E2S



Plug-in connector Straight Cable 5m - Socket M8 (female)

KAG500



Plug-in connector Angled Cable 5m - Socket M8 (female)

KAW500



Plug-in connector customizable Straight - Connector M8

S8-G-3



Plug-in connector customizable Straight - Connector M12

S12-G-3



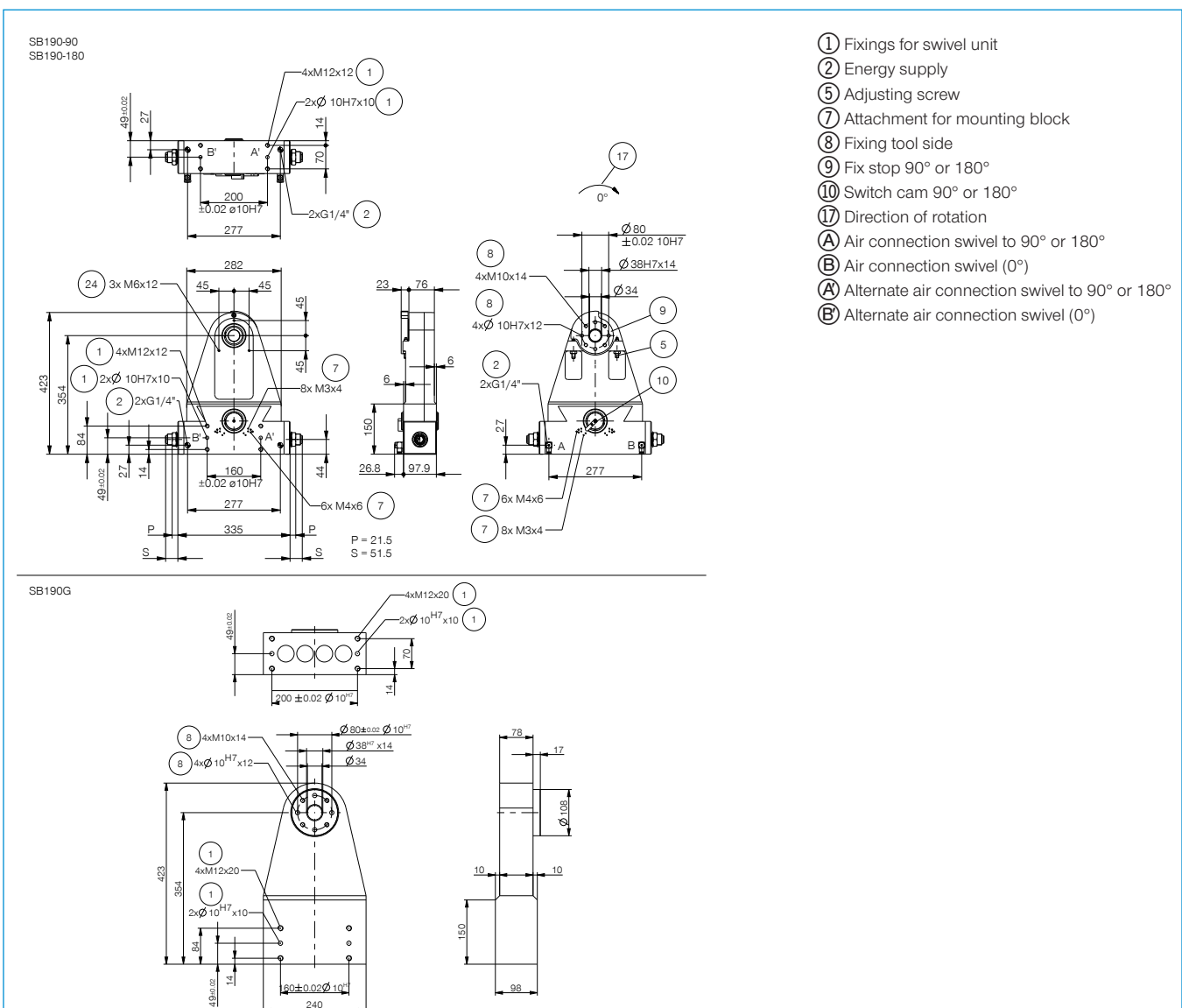
Pressure Safety Valve

DSV1-8

Order no.	► Technical Data*		
	SB190-90	SB190-180	SB190G
Swivel angle [°]	90	180	
Torque per jaw [Nm]	57	57	
Swivel angle regulable +/- [°]	3	3	
Repetition accuracy +/- [°]	0.01	0.01	
Operating pressure min. [bar]	3	3	
Operating pressure max. [bar]	8	8	
Operating temperature min. [°C]	5	5	5
Operating temperature max. [°C]	+80	+80	+80
Air volume per cycle [cm ³]	320	320	
Weight [kg]	28	28	19.5
FD [N]**	12500	12500	12500
FZ [N]**	6100	6100	6100

*All data measured at 6 bar

**Observe the gripper force



LINEAR CYLINDERS

OVERVIEW OF SERIES



▶ PNEUMATIC

	Series SHX	718
	Series LI	724

LINEAR CYLINDERS

SERIES SHX

▶ PRODUCT ADVANTAGES



▶ Proven technology

We have more than 20 years of proven reliability, which ensures uninterrupted production for you

▶ Constant drive force

Equal force and travel time when retracting and extending increases your machine's process reliability

▶ Failure-free continuous operation

Our uncompromising "Made in Germany" quality guarantees up to 10 million maintenance-free cycles

▶ THE BEST PRODUCT FOR YOUR APPLICATION



▶ Our products love the challenge!

Extreme conditions, all over the world—our tried and tested components and systems give you limitless possibilities:

Find the best product for your specific use:

www.zimmer-group.com

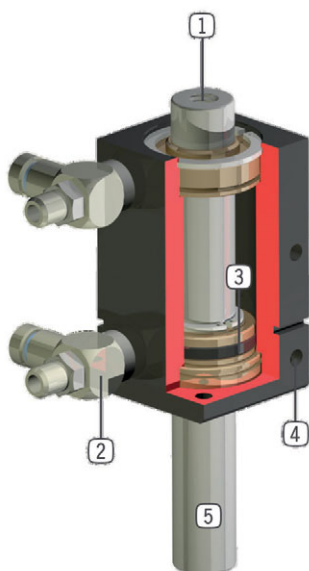
HOW TO ORDER CORRECTLY

- ▶ The product order numbers are arranged according to this diagram:

Order no.	SHX-	<input type="checkbox"/>	25	
Continuous piston rod		D		

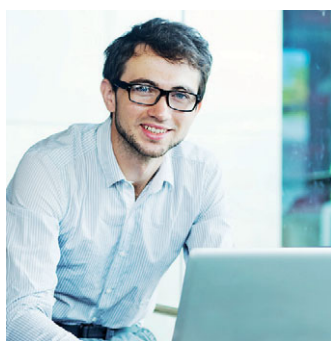


► BENEFITS IN DETAIL



- ① **Connection to customer specific application**
 - possible from several sides on XD series
- ② **Energy supply**
 - reducing exhaust air is recommended
- ③ **Drive**
 - double-acting pneumatic cylinder
- ④ **Mounting and positioning**
 - mounting possible from several sides for versatile positioning
- ⑤ **Piston rod**
 - polished, hard chrome plated steel
 - continuous in design XD

► FURTHER INFORMATION IS AVAILABLE ONLINE



► **Technical Information**

All information just a click away at: www.zimmer-group.com

Find data, illustrations, 3-D models and operating instructions for your installation size using the order number for your desired product.

Quick, clear and always up-to-date.



LINEAR CYLINDERS

INSTALLATION SIZE SH-X

▶ PRODUCT SPECIFICATIONS



▶ RECOMMENDED ACCESSORIES



Mounting block

KB3M



Inductive proximity switch
- Cable 5 m

NJ3-E2



Inductive Proximity Switch
Cable 0,3 m - Connector
M8

NJ3-E2SK



Plug-in connector Straight
Cable 5m - Socket M8
(female)

KAG500



Plug-in connector Angled
Cable 5m - Socket M8
(female)

KAW500



Plug-in connector customiz-
able Straight - Connector M8

S8-G-3



Plug-in connector customiz-
able Straight - Connector M12

S12-G-3



Flow Control Valves - with
Swivel joint

DRVM5X4

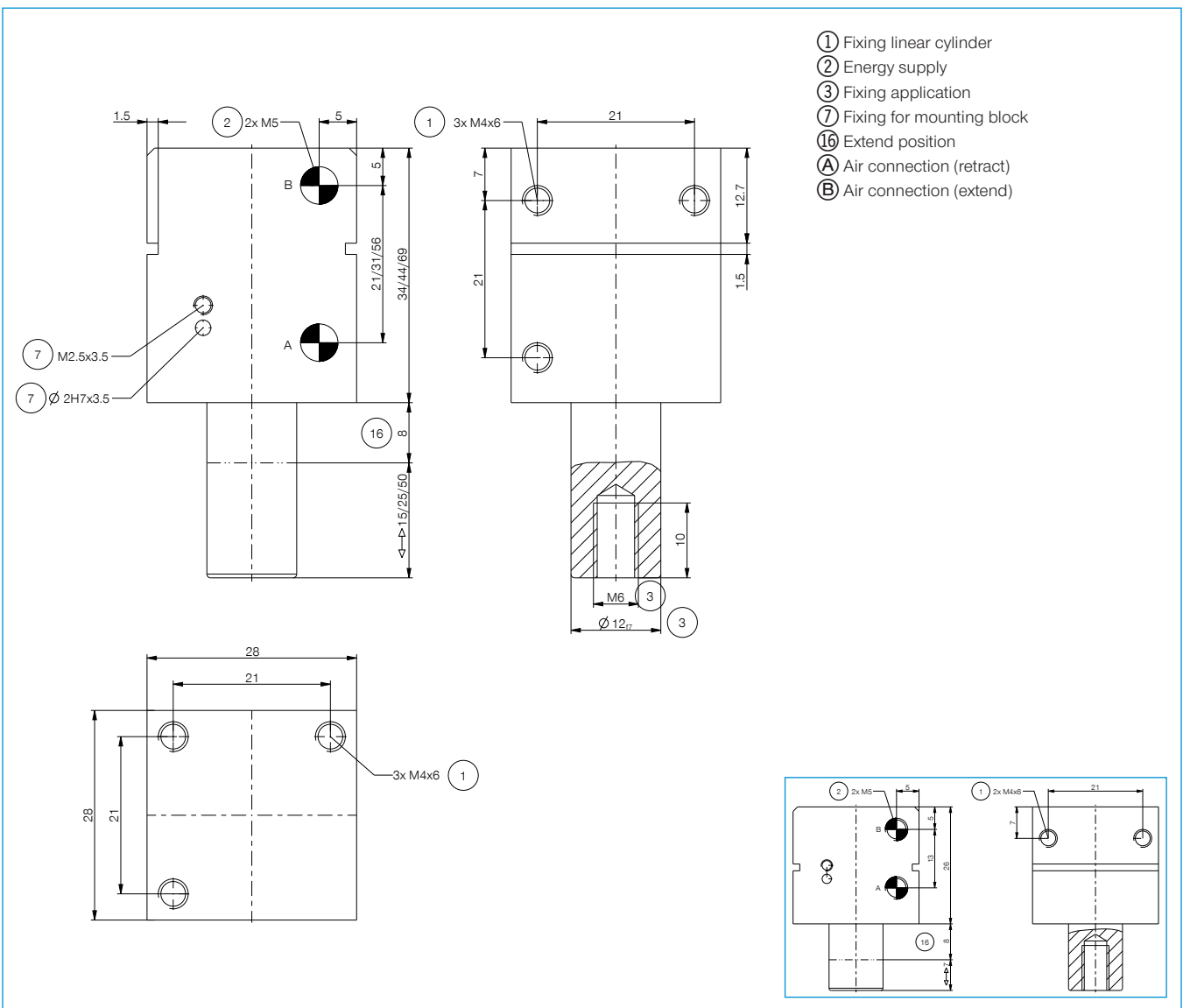


Pressure Safety Valve

DSV1-8

Order no.	► Technical Data*			
	SH-X7	SH-X15	SH-X25	SH-X50
Stroke [mm]	7	15	25	50
Retraction force [N]	100	100	100	100
Extension time [ms]	5	15	34	65
Retraction time [ms]	7.5	24	60	124
Operating temperature min. [°C]	5	5	5	5
Operating temperature max. [°C]	+80	+80	+80	+80
Air volume per cycle [cm³]	1.7	3.4	13.4	30
Weight [kg]	0.09	0.1	0.13	0.18

*All data measured at 6 bar



LINEAR CYLINDERS

INSTALLATION SIZE SH-XD

▶ PRODUCT SPECIFICATIONS



▶ RECOMMENDED ACCESSORIES



Mounting block

KB3M



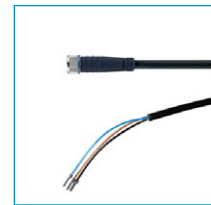
Inductive proximity switch
- Cable 5 m

NJ3-E2



Inductive Proximity Switch
Cable 0,3 m - Connector
M8

NJ3-E2SK



Plug-in connector Straight
Cable 5m - Socket M8
(female)

KAG500



Plug-in connector Angled
Cable 5m - Socket M8
(female)

KAW500



Plug-in connector customiz-
able Straight - Connector M8

S8-G-3



Plug-in connector customiz-
able Straight - Connector M12

S12-G-3



Flow Control Valves - with
Swivel joint

DRVM5X4

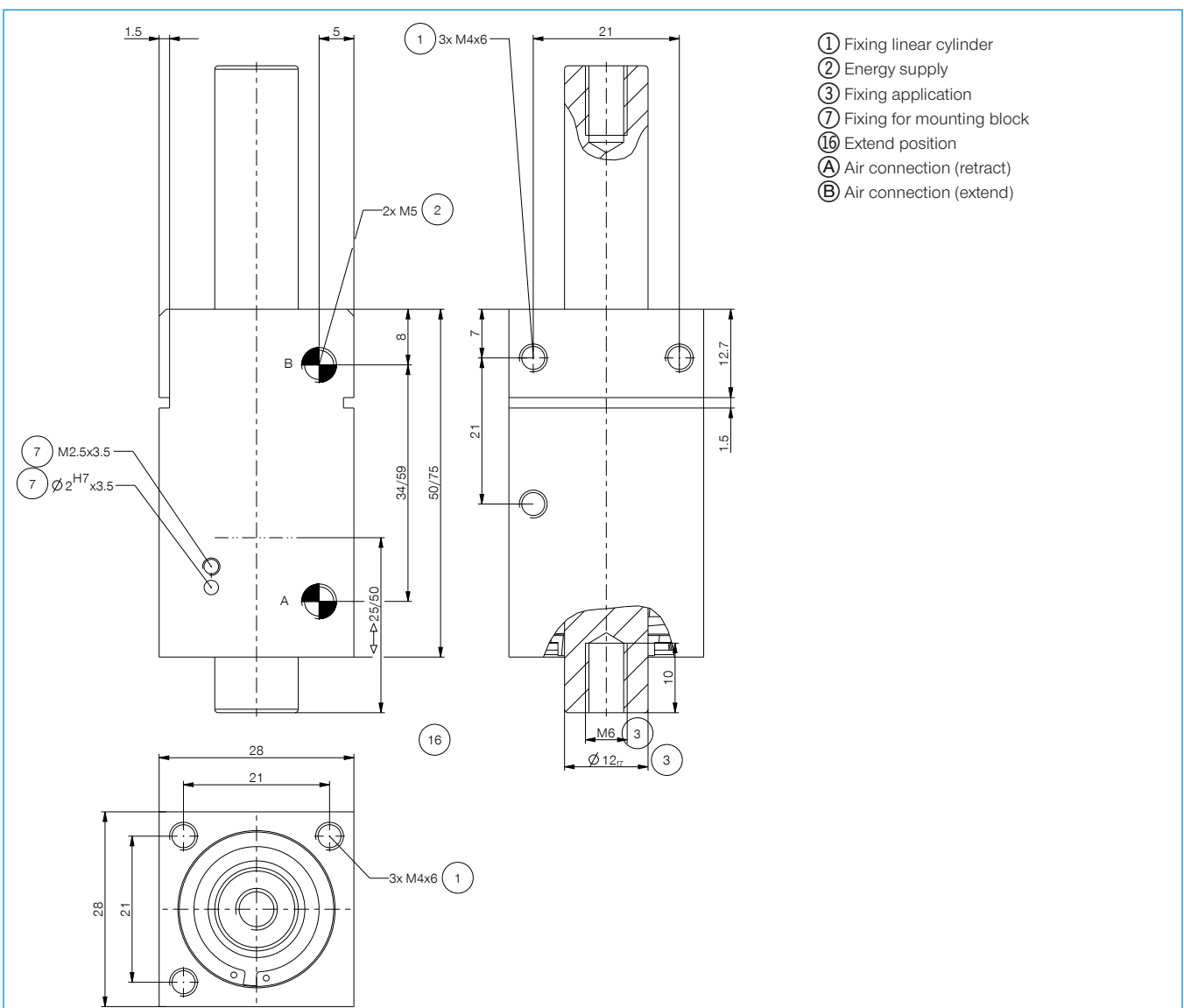


Pressure Safety Valve

DSV1-8

Order no.	Technical Data*	
	SH-XD25	SH-XD50
Stroke [mm]	25	50
Retraction force [N]	100	100
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm ³]	12	25
Weight [kg]	0.19	0.27

*All data measured at 6 bar



LINEAR CYLINDERS

SERIES LI

▶ PRODUCT ADVANTAGES



▶ Large locating flange

The large mounting surface simplifies your design and allows secure attachment of follow-on tools

▶ Dampened end position

By using PowerStop shock absorbers, you can gently move up to the end positions, increasing the process reliability and durability of your application

▶ Failure-free continuous operation

Our uncompromising “Made in Germany” quality guarantees up to 10 million maintenance-free cycles

▶ THE BEST PRODUCT FOR YOUR APPLICATION



▶ Our products love the challenge!

Extreme conditions, all over the world—our tried and tested components and systems give you limitless possibilities:

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www.zimmer-group.com

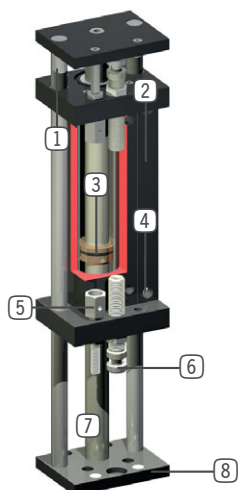
HOW TO ORDER CORRECTLY

- ▶ The product order numbers are arranged according to this diagram:

Order no.	LI40	<input type="checkbox"/>		
3 way guiding, continuous piston rod		D		
2 way guiding		S		

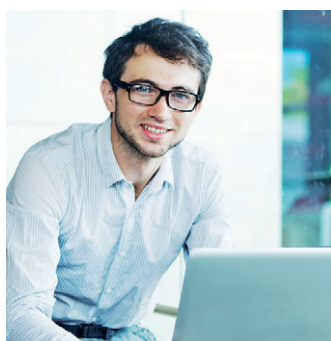


► BENEFITS IN DETAIL



- ① **Guide rod**
 - hardened, polished steel shaft
- ② **Mounting block**
 - mounting for inductive proximity switch
- ③ **Drive**
 - double-acting pneumatic cylinder
- ④ **Energy supply**
 - reducing exhaust air is recommended
- ⑤ **End stop confirmation screw**
 - direct flange position sensing
 - included in scope of delivery
- ⑥ **End position damping**
 - with elastomer absorber or patented hydraulic shock absorber
- ⑦ **Piston rod**
 - polished, hard chrome plated steel
 - continuous in design D
- ⑧ **Intake flange**
 - for connection to application-specific adapter plate (to be supplied by the customer)

► FURTHER INFORMATION IS AVAILABLE ONLINE



► **Technical Information**

All information just a click away at: www.zimmer-group.com

Find data, illustrations, 3-D models and operating instructions for your installation size using the order number for your desired product.

Quick, clear and always up-to-date.



LINEAR CYLINDERS

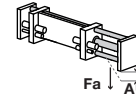
INSTALLATION SIZE LI16

▶ PRODUCT SPECIFICATIONS



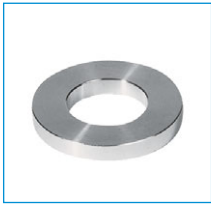
▶ Forces and moments

Max allowable static forces and moments.



4

▶ RECOMMENDED ACCESSORIES



Centering Disc

ZE12H7X4



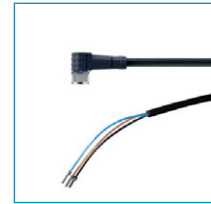
Inductive proximity switch
- Connector M8

NJ8-E2S



Plug-in connector Straight
Cable 5m - Socket M8
(female)

KAG500



Plug-in connector Angled
Cable 5m - Socket M8
(female)

KAW500



Flow Control Valves - with
Swivel joint

DRV5X4

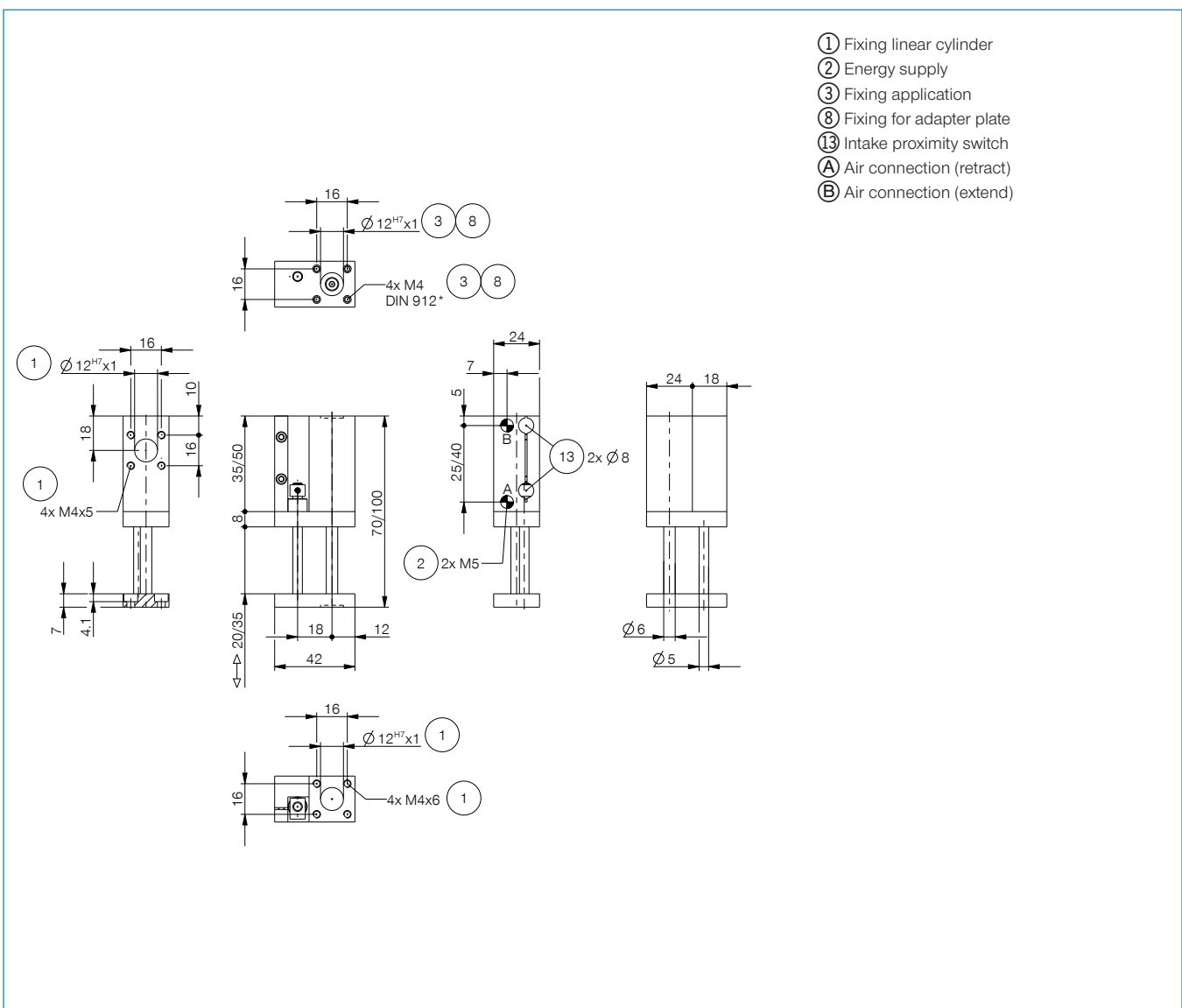


Adapter plate

AP16

Order no.	► Technical Data*	
	LI16-20	LI16-35
Stroke [mm]	20	35
Pressure force max. [N]	100	100
Retraction force [N]	80	80
Travel time without external load [s]	0.04	0.07
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm³]	5	13
Weight [kg]	0.15	0.18
Load Fa max. [N]	25	15
Max. deflection A [mm]	0.05	0.05

*All data measured at 6 bar



LINEAR CYLINDERS

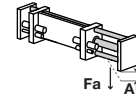
INSTALLATION SIZE LI16D

▶ PRODUCT SPECIFICATIONS

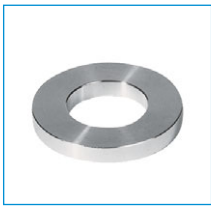


▶ Forces and moments

Max allowable static forces and moments.



▶ RECOMMENDED ACCESSORIES



Centering Disc

ZE12H7X4



Inductive proximity switch
- Connector M8

NJ8-E2S



Plug-in connector Straight
Cable 5m - Socket M8
(female)

KAG500



Plug-in connector Angled
Cable 5m - Socket M8
(female)

KAW500



Flow Control Valves - with
Swivel joint

DRVM5X4



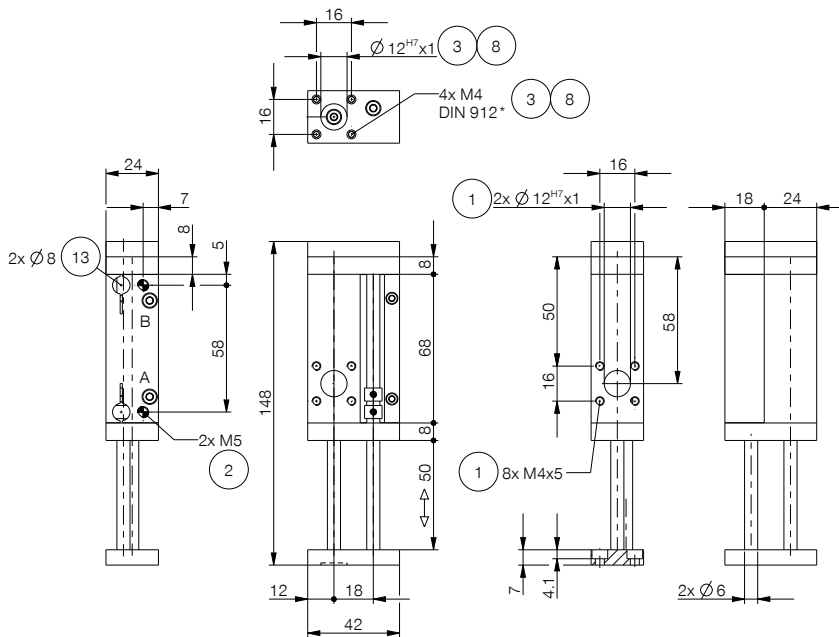
Adapter plate

AP16

► Technical Data*	
Order no.	LI16-50D
Stroke [mm]	50
Pressure force max. [N]	80
Retraction force [N]	80
Travel time without external load [s]	0.1
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm³]	15
Weight [kg]	0.3
Load Fa max. [N]	40
Max. deflection A [mm]	0.1

*All data measured at 6 bar

- ① Fixing linear cylinder
- ② Energy supply
- ③ Fixing application
- ⑧ Fixing for adapter plate
- ⑬ Intake proximity switch
- A Air connection (retract)
- B Air connection (extend)



LINEAR CYLINDERS

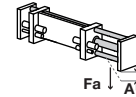
LI30-15 / LI30-30

▶ PRODUCT SPECIFICATIONS



▶ Forces and moments

Max allowable static forces and moments.



▶ RECOMMENDED ACCESSORIES



Absorber intake

HV30



Shock Absorbers

AD-M10X1



Shock Absorbers

M10X1S



Centering Disc

ZE20H7X4



Inductive proximity switch
- Connector M8

NJ12-E2S



Plug-in connector Straight Cable 5m - Socket M8 (female)

KAG500



Plug-in connector Angled Cable 5m - Socket M8 (female)

KAW500



Flow Control Valves - with Swivel joint

DRVM5X4

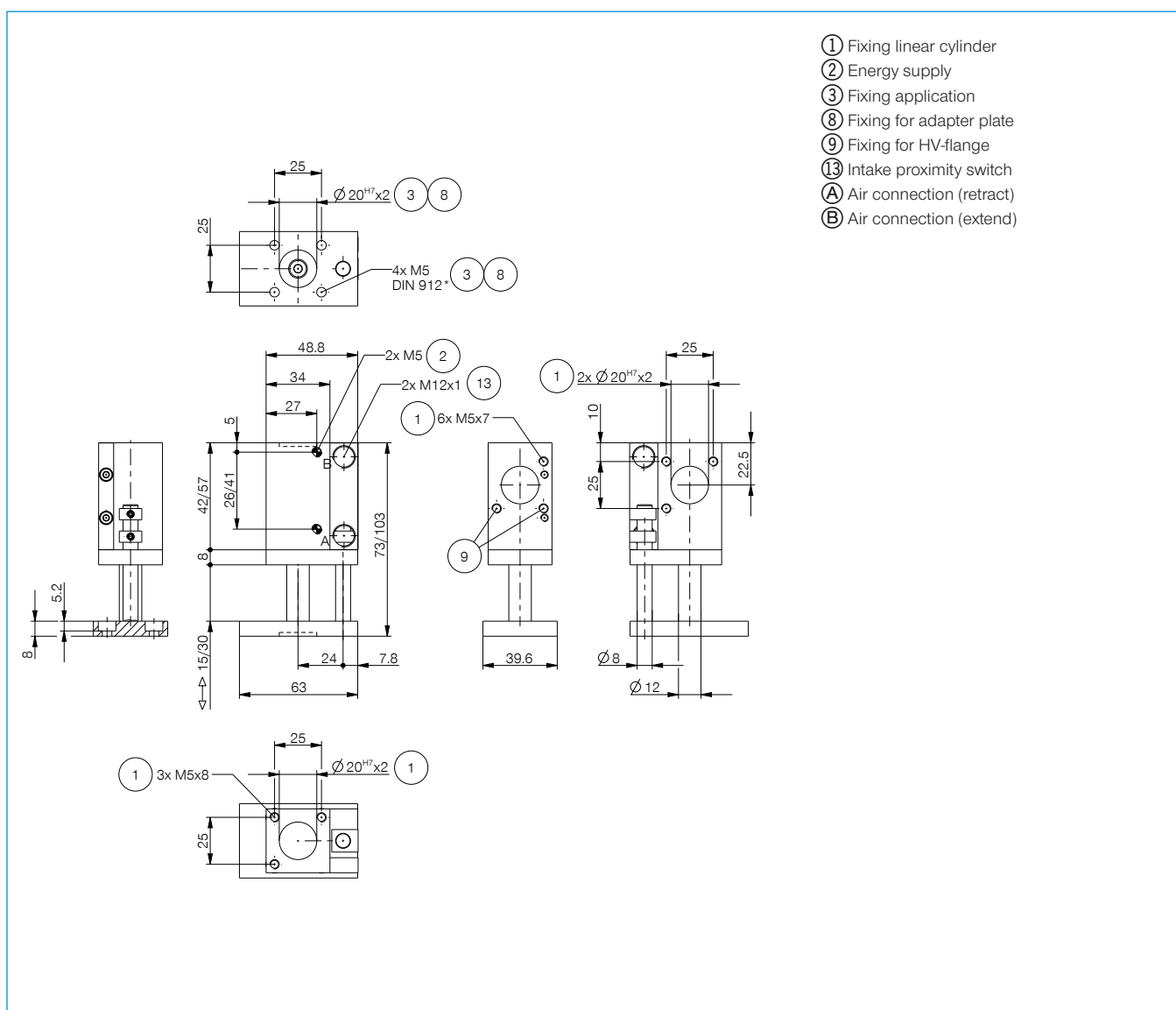


Adapter plate

AP30

Order no.	► Technical Data*	
	LI30-15	LI30-30
Stroke [mm]	15	30
Pressure force max. [N]	270	270
Retraction force [N]	200	200
Travel time without external load [s]	0.06	0.14
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm³]	12	25
Weight [kg]	0.3	0.36
Load Fa max. [N]	70	50
Max. deflection A [mm]	0.05	0.05

*All data measured at 6 bar



LINEAR CYLINDERS

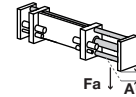
LI30-60 / LI30-90

▶ PRODUCT SPECIFICATIONS



▶ Forces and moments

Max allowable static forces and moments.



4

▶ RECOMMENDED ACCESSORIES



Absorber intake

HV30



Shock Absorbers

AD-M10X1



Shock Absorbers

M10X1S



Centering Disc

ZE20H7X4



Inductive proximity switch
- Connector M8

NJ12-E2S



Plug-in connector Straight Cable 5m - Socket M8 (female)

KAG500



Plug-in connector Angled Cable 5m - Socket M8 (female)

KAW500



Flow Control Valves - with Swivel joint

DRVM5X4

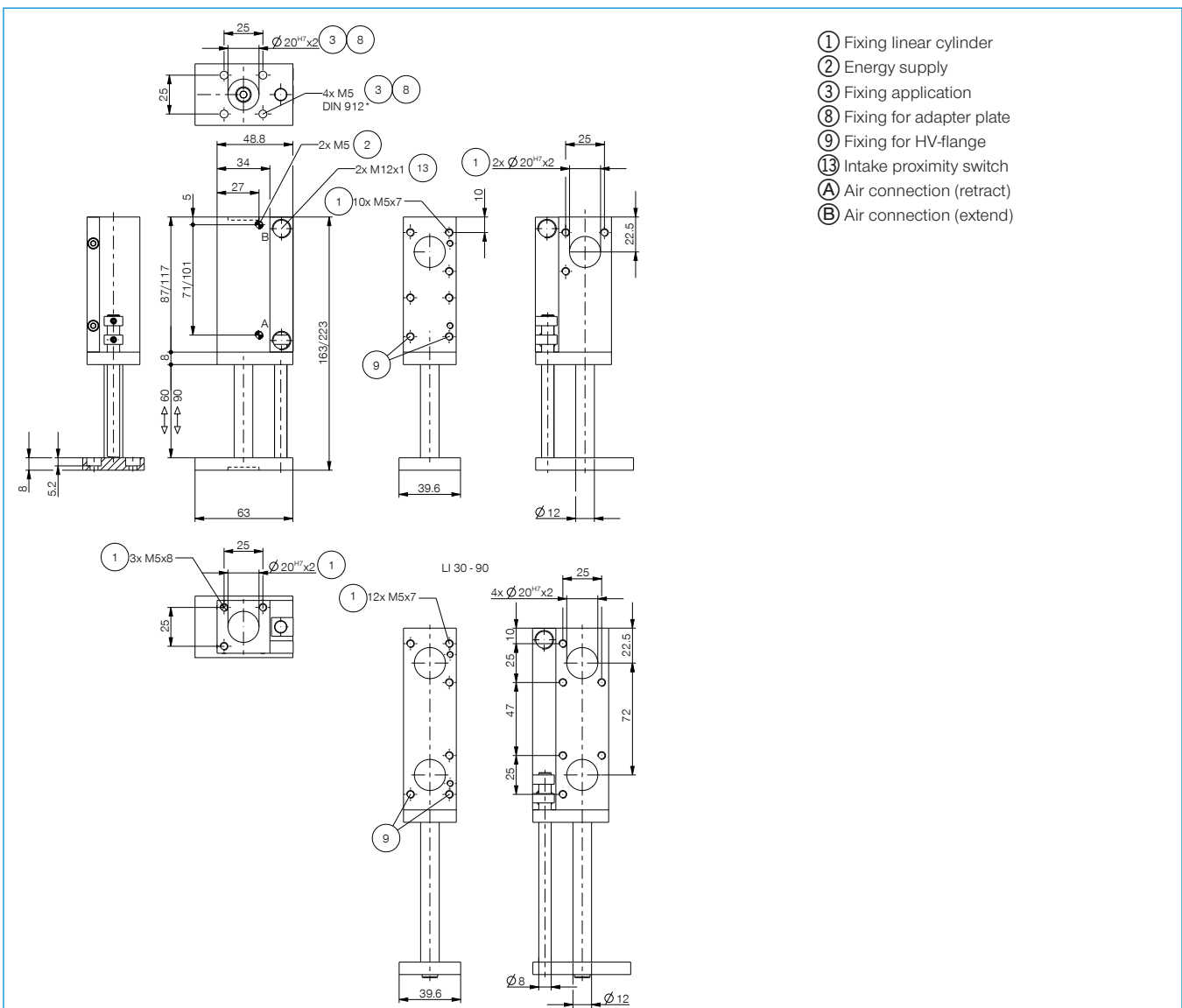


Adapter plate

AP30

Order no.	▶ Technical Data*	
	LI30-60	LI30-90
Stroke [mm]	60	90
Pressure force max. [N]	270	270
Retraction force [N]	200	200
Travel time without external load [s]	0.25	0.26
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm ³]	50	92
Weight [kg]	0.46	0.56
Load Fa max. [N]	30	20
Max. deflection A [mm]	0.05	0.05

*All data measured at 6 bar



LINEAR CYLINDERS

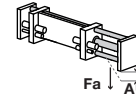
INSTALLATION SIZE LI30D

▶ PRODUCT SPECIFICATIONS



▶ Forces and moments

Max allowable static forces and moments.



▶ RECOMMENDED ACCESSORIES



Absorber intake

HV30



Shock Absorbers

AD-M10X1



Shock Absorbers

M10X1S



Centering Disc

ZE20H7X4



Inductive proximity switch
- Connector M8

NJ12-E2S



Plug-in connector Straight Cable 5m - Socket M8 (female)

KAG500



Plug-in connector Angled Cable 5m - Socket M8 (female)

KAW500



Flow Control Valves - with Swivel joint

DRVM5X4

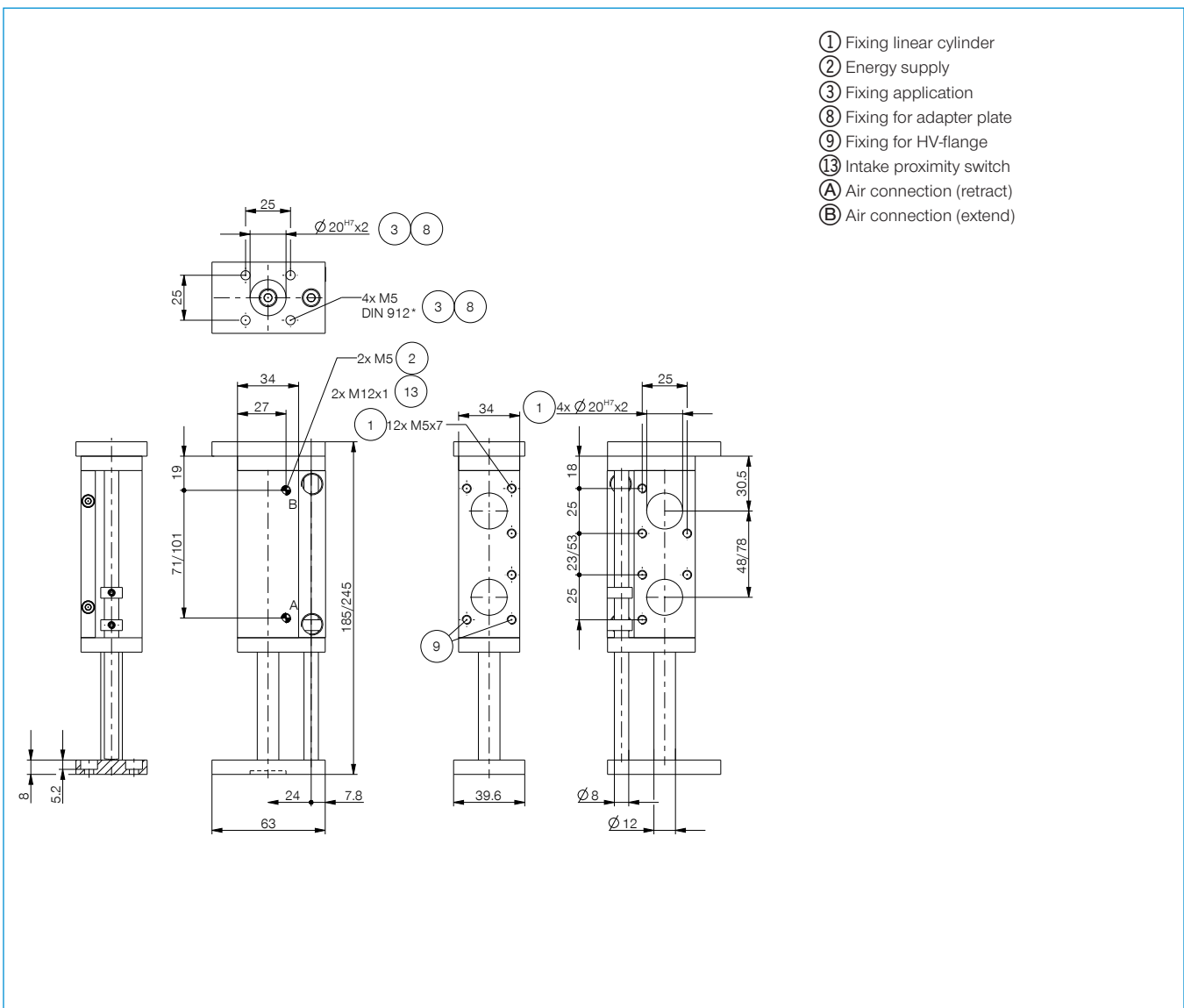


Adapter plate

AP30

Order no.	Technical Data*	
	LI30-60D	LI30-90D
Stroke [mm]	60	90
Pressure force max. [N]	200	200
Retraction force [N]	200	200
Travel time without external load [s]	0.21	0.25
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm³]	50	66
Weight [kg]	0.7	0.85
Load Fa max. [N]	80	60
Max. deflection A [mm]	0.1	0.1

*All data measured at 6 bar



LINEAR CYLINDERS

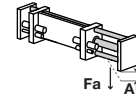
INSTALLATION SIZE LI40

▶ PRODUCT SPECIFICATIONS



▶ Forces and moments

Max allowable static forces and moments.



▶ RECOMMENDED ACCESSORIES



Absorber intake

HV40



Shock Absorbers

AD-M10X1



Shock Absorbers

M10X1S



Centering Disc

ZE20H7X4



Inductive proximity switch
- Connector M8

NJ12-E2S



Plug-in connector Straight Cable 5m - Socket M8 (female)

KAG500



Plug-in connector Angled Cable 5m - Socket M8 (female)

KAW500



Flow Control Valves - with Swivel joint

DRVM5X4

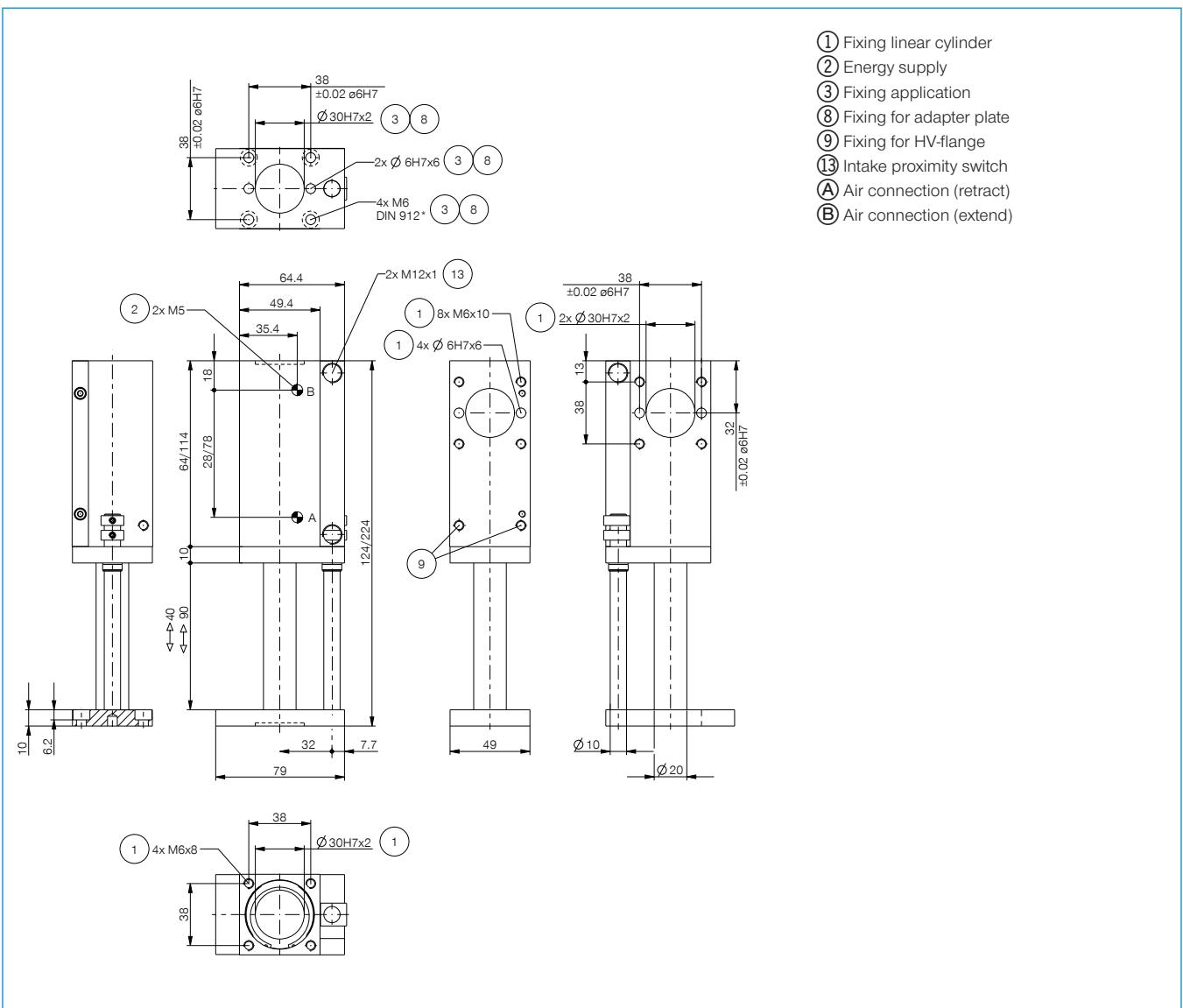


Adapter plate

AP40

Order no.	► Technical Data*	
	LI40-40	LI40-90
Stroke [mm]	40	90
Pressure force max. [N]	450	450
Retraction force [N]	270	270
Travel time without external load [s]	0.08	0.2
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm³]	50	117
Weight [kg]	0.74	0.88
Load Fa max. [N]	80	30
Max. deflection A [mm]	0.05	0.05

*All data measured at 6 bar



LINEAR CYLINDERS

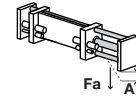
LI40-90S / LI40-130S / LI40-160S

▶ PRODUCT SPECIFICATIONS



▶ Forces and moments

Max allowable static forces and moments.



▶ RECOMMENDED ACCESSORIES



Shock Absorbers

AD-M14X1.5



Shock Absorbers

M14X1.5S



Centering Disc

ZE30H7X4



Inductive proximity switch
- Connector M8

NJ12-E2S



Plug-in connector
Straight Cable 5m - Socket
M8 (female)

KAG500



Plug-in connector Angled Cable
5m - Socket M8 (female)

KAW500



Flow Control Valves - with
Swivel joint

DRV1-8X6



Stop Stroke Adjustment
Screws

AI-M8X1-53



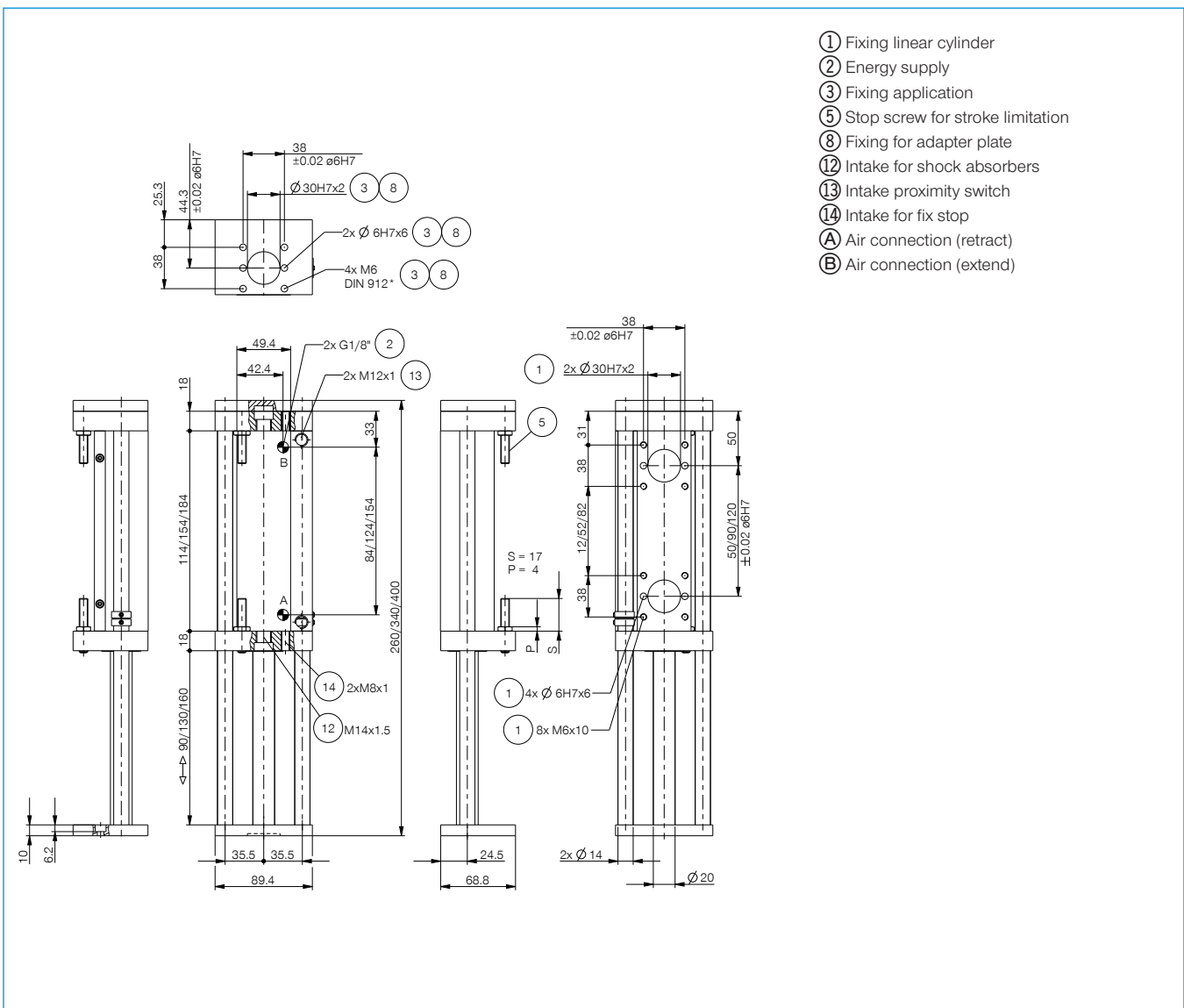
Adapter plate

AP40-S

► **Technical Data***

Order no.	LI40-90S	LI40-130S	LI40-160S
Stroke [mm]	90	130	160
Pressure force max. [N]	270	270	270
Retraction force [N]	270	270	270
Travel time without external load [s]	0.09	0.13	0.16
Operating temperature min. [°C]	5	5	5
Operating temperature max. [°C]	+80	+80	+80
Air volume per cycle [cm³]	100	133	166
Weight [kg]	2.9	3.5	3.9
Load Fa max. [N]	300	230	150
Max. deflection A [mm]	0.09	0.13	0.16
Radial load Mr max. [Ncm]	600	400	320
Max. rotation D at 100 mm [mm]	0.1	0.1	0.1

*All data measured at 6 bar



LINEAR CYLINDERS

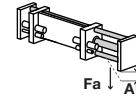
LI40-200S / LI40-250S / LI40-300S

▶ PRODUCT SPECIFICATIONS



▶ Forces and moments

Max allowable static forces and moments.



▶ RECOMMENDED ACCESSORIES



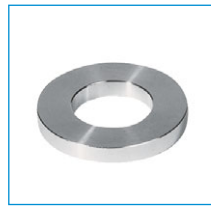
Shock Absorbers

AD-M14X1.5



Shock Absorbers

M14X1.5S



Centering Disc

ZE30H7X4



Inductive proximity switch
- Connector M8

NJ12-E2S



Plug-in connector
Straight Cable 5m - Socket
M8 (female)

KAG500



Plug-in connector Angled Cable
5m - Socket M8 (female)

KAW500



Flow Control Valves - with
Swivel joint

DRV1-8X6



Stop Stroke Adjustment
Screws

AI-M8X1-53

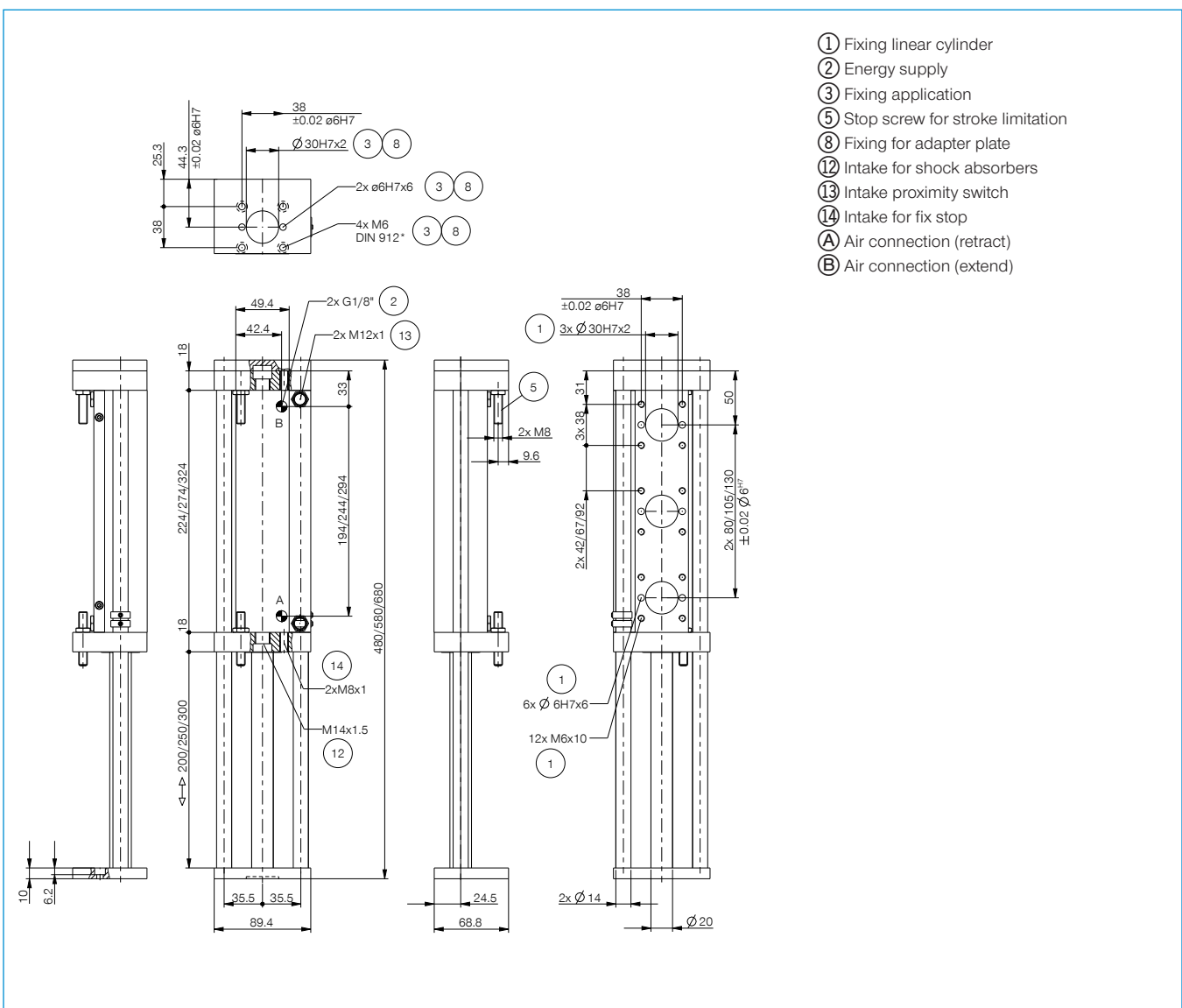


Adapter plate

AP40-S

Order no.	Technical Data*		
	LI40-200S	LI40-250S	LI40-300S
Stroke [mm]	200	250	300
Pressure force max. [N]	270	270	270
Retraction force [N]	270	270	270
Travel time without external load [s]	0.22	0.28	0.4
Radial load Mr max. [Ncm]	230	130	100
Max. rotation D at 100 mm [mm]	0.1	0.1	0.1
Operating temperature min. [°C]	5	5	5
Operating temperature max. [°C]	+80	+80	+80
Air volume per cycle [cm ³]	216	266	316
Weight [kg]	4.5	5.2	5.9
Load Fa max. [N]	120	90	65
Max. deflection A [mm]	0.2	0.25	0.3

*All data measured at 6 bar



LINEAR CYLINDERS

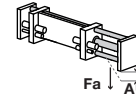
LI50-50S / LI50-90S

▶ PRODUCT SPECIFICATIONS



▶ Forces and moments

Max allowable static forces and moments.

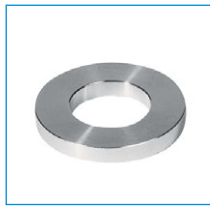


▶ RECOMMENDED ACCESSORIES



Shock Absorbers

M20X1.5S



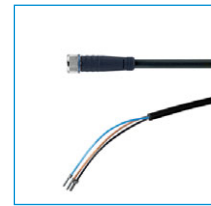
Centering Disc

ZE30H7X4



Inductive proximity switch
- Connector M8

NJ12-E2S



Plug-in connector Straight
Cable 5m - Socket M8
(female)

KAG500



Plug-in connector Angled
Cable 5m - Socket M8
(female)

KAW500



Flow Control Valves - with
Swivel joint

DRV1-8X6



Stop Stroke Adjustment
Screws

AI-M8X1-53



Adapter plate

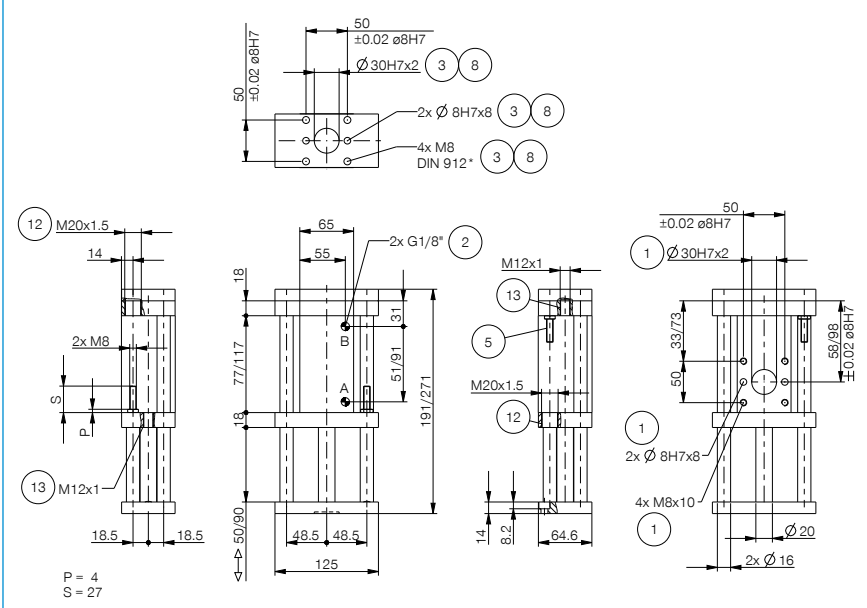
AP50-S

► Technical Data*

Order no.	LI50-50S	LI50-90S
Stroke [mm]	50	90
Pressure force max. [N]	950	950
Retraction force [N]	950	950
Travel time without external load [s]	0.13	0.24
Radial load Mr max. [Ncm]	1500	1100
Max. rotation D at 100 mm [mm]	0.08	0.08
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm³]	166	300
Weight [kg]	2.9	3.6
Load Fa max. [N]	300	200
Max. deflection A [mm]	0.03	0.05

*All data measured at 6 bar

- ① Fixing linear cylinder
- ② Energy supply
- ③ Fixing application
- ⑤ Stop screw for stroke limitation
- ⑧ Fixing for adapter plate
- ⑫ Intake for shock absorbers
- ⑬ Intake proximity switch
- Ⓐ Air connection (retract)
- Ⓑ Air connection (extend)



LINEAR CYLINDERS

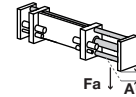
LI50-130S / LI50-160S / LI50-200S

▶ PRODUCT SPECIFICATIONS



▶ Forces and moments

Max allowable static forces and moments.



▶ RECOMMENDED ACCESSORIES



Shock Absorbers

M20X1.5S



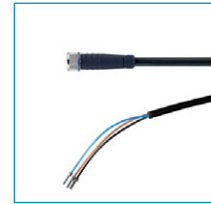
Centering Disc

ZE30H7X4



Inductive proximity switch
- Connector M8

NJ12-E2S



Plug-in connector Straight
Cable 5m - Socket M8
(female)

KAG500



Plug-in connector Angled
Cable 5m - Socket M8
(female)

KAW500



Flow Control Valves - with
Swivel joint

DRV1-8X6



Stop Stroke Adjustment
Screws

AI-M8X1-53



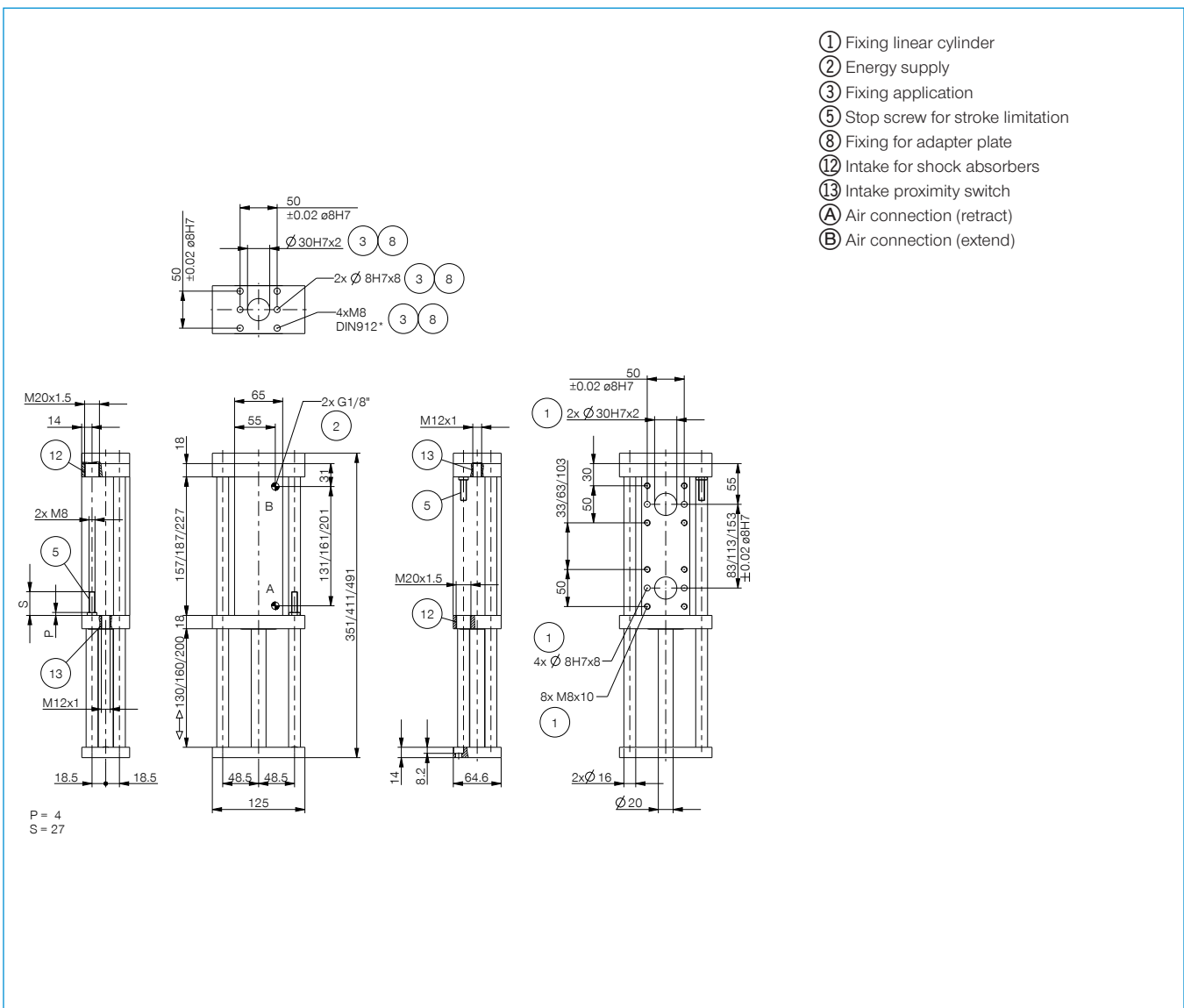
Adapter plate

AP50-S

► Technical Data*

Order no.	LI50-130S	LI50-160S	LI50-200S
Stroke [mm]	130	160	200
Pressure force max. [N]	950	950	950
Retraction force [N]	950	950	950
Travel time without external load [s]	0.34	0.42	0.48
Radial load Mr max. [Ncm]	900	750	400
Max. rotation D at 100 mm [mm]	0.1	0.1	0.1
Operating temperature min. [°C]	5	5	5
Operating temperature max. [°C]	+80	+80	+80
Air volume per cycle [cm ³]	433	533	666
Weight [kg]	4.4	4.8	5.5
Load Fa max. [N]	130	100	90
Max. deflection A [mm]	0.05	0.08	0.1

*All data measured at 6 bar



LINEAR CYLINDERS

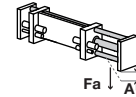
LI50-250S / LI50-300S

▶ PRODUCT SPECIFICATIONS



▶ Forces and moments

Max allowable static forces and moments.



▶ RECOMMENDED ACCESSORIES



Shock Absorbers

M20X1.5S



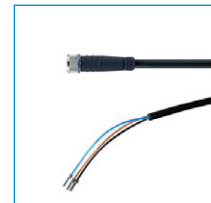
Centering Disc

ZE30H7X4



Inductive proximity switch
- Connector M8

NJ12-E2S



Plug-in connector Straight
Cable 5m - Socket M8
(female)

KAG500



Plug-in connector Angled
Cable 5m - Socket M8
(female)

KAW500



Flow Control Valves - with
Swivel joint

DRV1-8X6



Stop Stroke Adjustment
Screws

AI-M8X1-53

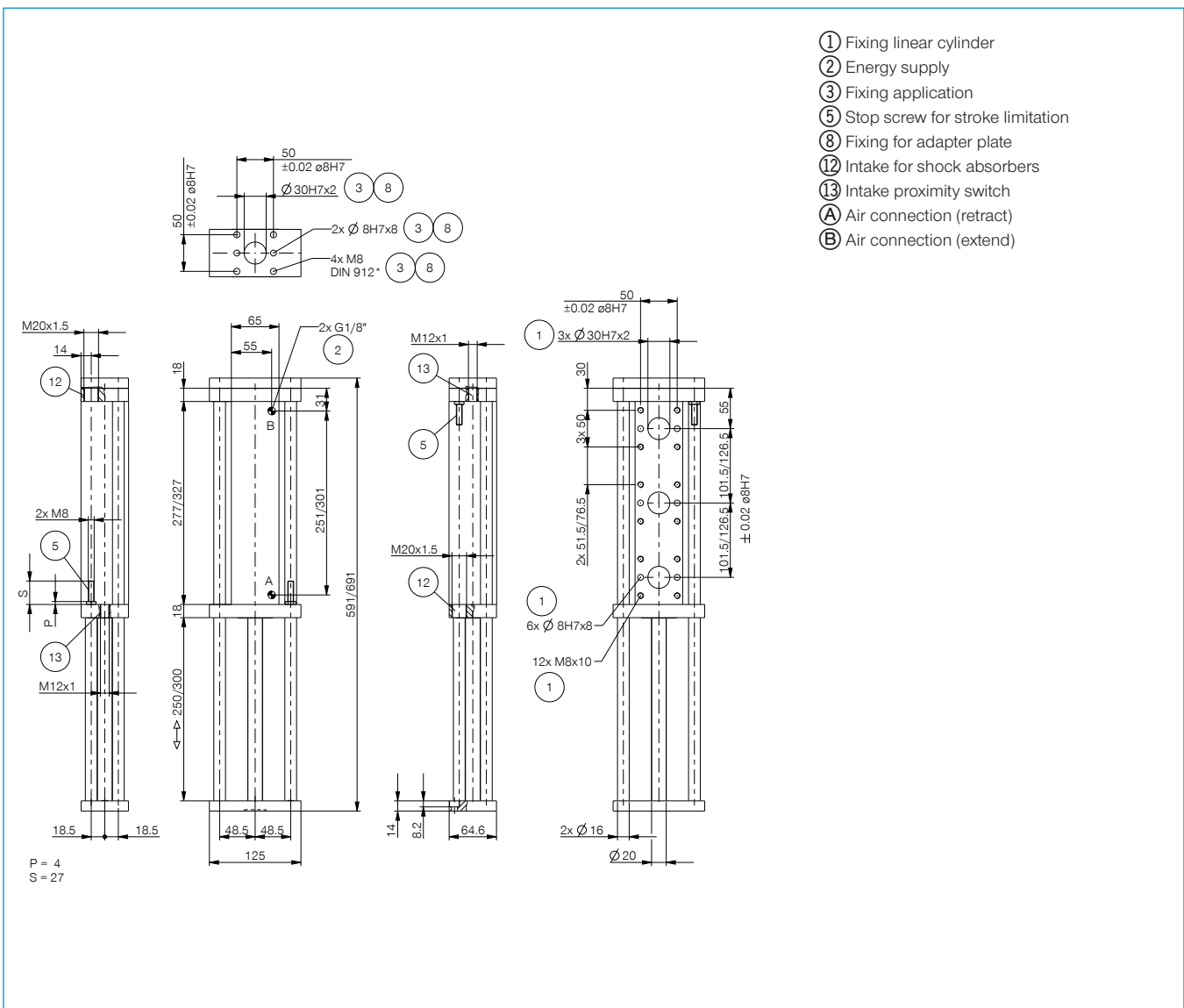


Adapter plate

AP50-S

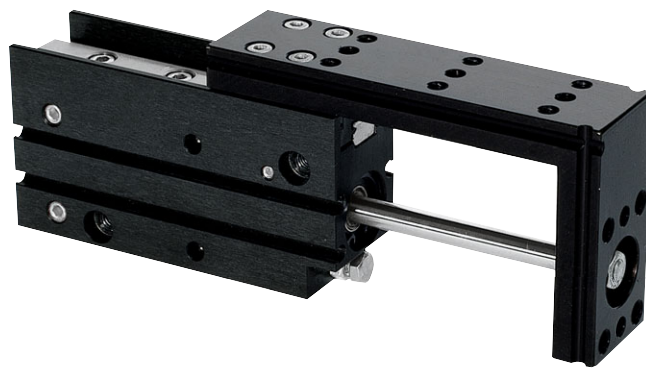
Order no.	Technical Data*	
	LI50-250S	LI50-300S
Stroke [mm]	250	300
Pressure force max. [N]	950	950
Retraction force [N]	950	950
Travel time without external load [s]	0.63	0.84
Radial load Mr max. [Ncm]	250	200
Max. rotation D at 100 mm [mm]	0.1	0.1
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm ³]	833	1000
Weight [kg]	6.4	7.2
Load Fa max. [N]	75	55
Max. deflection A [mm]	0.15	0.2




*All data measured at 6 bar



LINEAR RAIL SLIDES

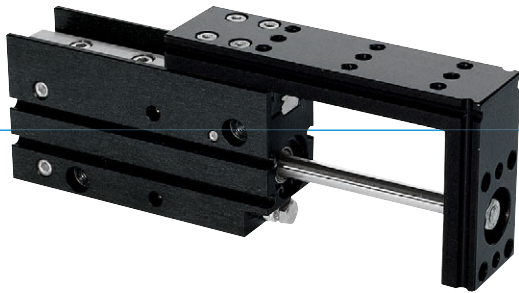
OVERVIEW OF SERIES



▶ PNEUMATIC		
	Series LS	750
	Series LSF	760
	Series LSX	766

LINEAR RAIL SLIDES SERIES LS

▶ PRODUCT ADVANTAGES



▶ **Precise profile guide**

The linear guide with ball bearing circulation and scrapers provides high precision and rigidity

▶ **Standardised adapter plate**

Reduce your manufacturing effort and ensure standardisation for your follow-on tools

▶ **Modular layout**

Makes it possible to combine several units directly to each other and to minimise your design effort

▶ THE BEST PRODUCT FOR YOUR APPLICATION



▶ **Our products love the challenge!**

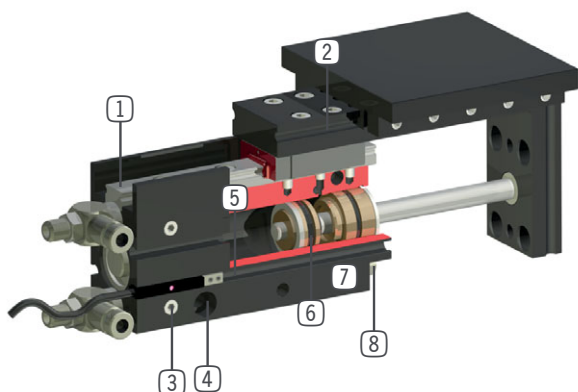
Extreme conditions, all over the world—our tried and tested components and systems give you limitless possibilities:

Find the best product for your specific use:

www.zimmer-group.com

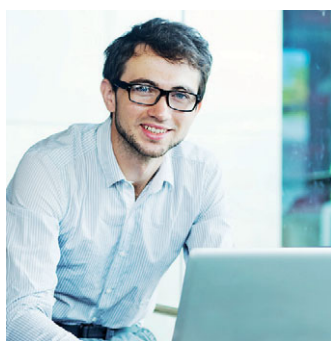


► BENEFITS IN DETAIL



- ① **Linear guide with recirculating ball and wiper**
 - dual linear guidance for high forces and moments capacity
- ② **Mounting groove**
 - quick and cost-effective positioning of adapter plates: Accessory, Art. No. AP...G
- ③ **Energy supply**
 - possible from several sides
- ④ **Mounting and positioning**
 - mounting possible from several sides for versatile positioning
- ⑤ **Mounting groove for magnetic field sensor integrated, space saving position sensing**
- ⑥ **Drive**
 - double-acting pneumatic cylinder
- ⑦ **Robust, lightweight housing**
 - Hard-coated aluminum alloy
- ⑧ **Stroke limiting screw**

► FURTHER INFORMATION IS AVAILABLE ONLINE



► Technical Information

All information just a click away at: www.zimmer-group.com

Find data, illustrations, 3D models and operating instructions for your installation size using the order number for your desired product.

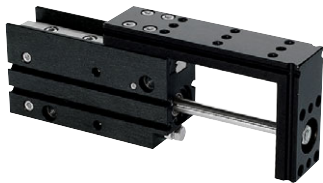
Quick, clear and always up-to-date.



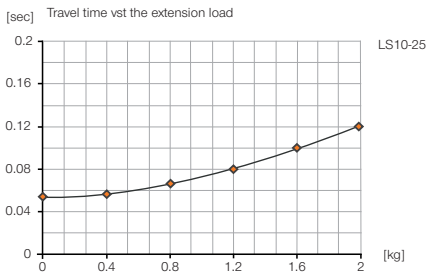
LINEAR RAIL SLIDES

LS10-25

PRODUCT SPECIFICATIONS

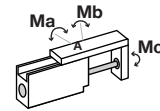


Time diagram



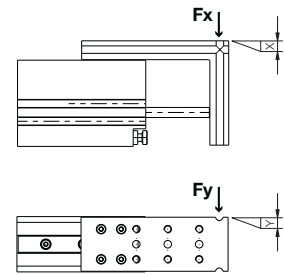
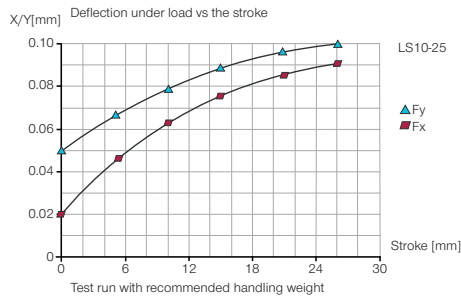
Forces and moments

Max allowable static forces and moments on face A.



Ma [Nm]	3.2
Mb [Nm]	3.2
Mc [Nm]	5.1

Load diagram



RECOMMENDED ACCESSORIES



Magnetic field sensor
Straight Cable 5 m

MFS204KHC



Magnetic field sensor
Straight Cable 0,3 m -
Connector M8

MFS204SKHC



Plug-in connector Straight
Cable 5m - Socket M8
(female)

KAG500



Plug-in connector Angled
Cable 5m - Socket M8
(female)

KAW500



Plug-in connector
customizable Straight -
Connector M8

S8-G-3



Plug-in connector customiz-
able Straight - Connector M12

S12-G-3



Flow Control Valves - with
Swivel joint

DRVM3X4



Pressure Safety Valve

DSV1-8

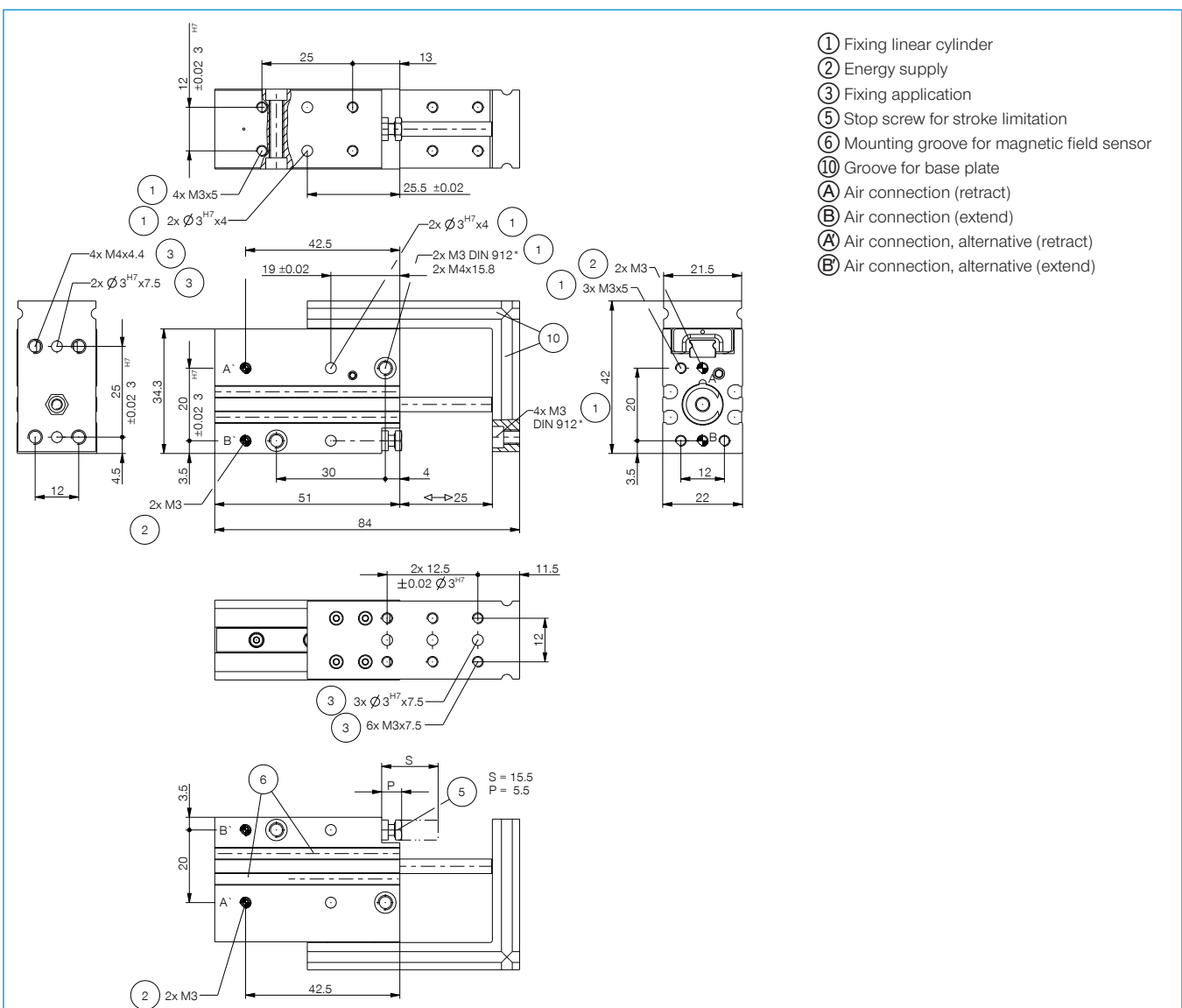


Adapter plate

APLS10G

Order no.	LS10-25
Stroke [mm]	25
Pressure force max. [N]	40
Retraction force [N]	30
Piston diameter [mm]	10
Guide rail size [mm]	7
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm ³]	3.6
Weight [kg]	0.15

*All data measured at 6 bar

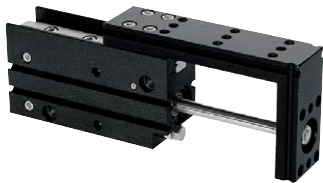


- ① Fixing linear cylinder
- ② Energy supply
- ③ Fixing application
- ⑤ Stop screw for stroke limitation
- ⑥ Mounting groove for magnetic field sensor
- ⑩ Groove for base plate
- A Air connection (retract)
- B Air connection (extend)
- A Air connection, alternative (retract)
- B Air connection, alternative (extend)

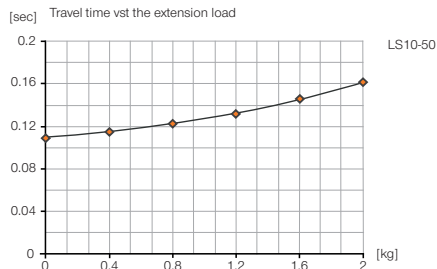
LINEAR RAIL SLIDES

LS10-50

PRODUCT SPECIFICATIONS

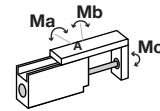


Time diagram



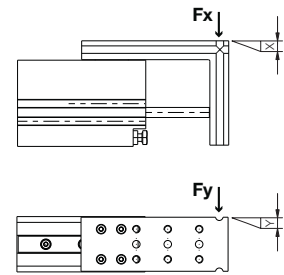
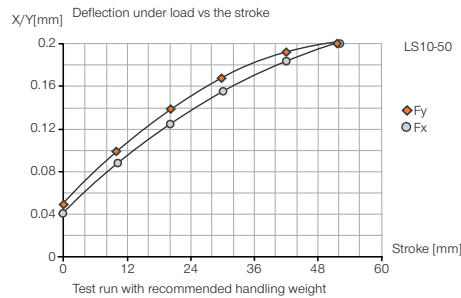
Forces and moments

Max allowable static forces and moments on face A.



Ma [Nm]	3.2
Mb [Nm]	3.2
Mc [Nm]	5.1

Load diagram



RECOMMENDED ACCESSORIES



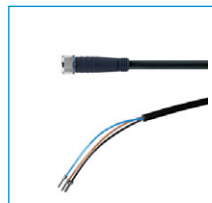
Magnetic field sensor
Straight Cable 5 m

MFS204KHC



Magnetic field sensor
Straight Cable 0,3 m -
Connector M8

MFS204SKHC



Plug-in connector Straight
Cable 5m - Socket M8
(female)

KAG500



Plug-in connector Angled
Cable 5m - Socket M8
(female)

KAW500



Plug-in connector
customizable Straight -
Connector M8

S8-G-3



Plug-in connector customiz-
able Straight - Connector M12

S12-G-3



Flow Control Valves - with
Swivel joint

DRVM3X4



Pressure Safety Valve

DSV1-8



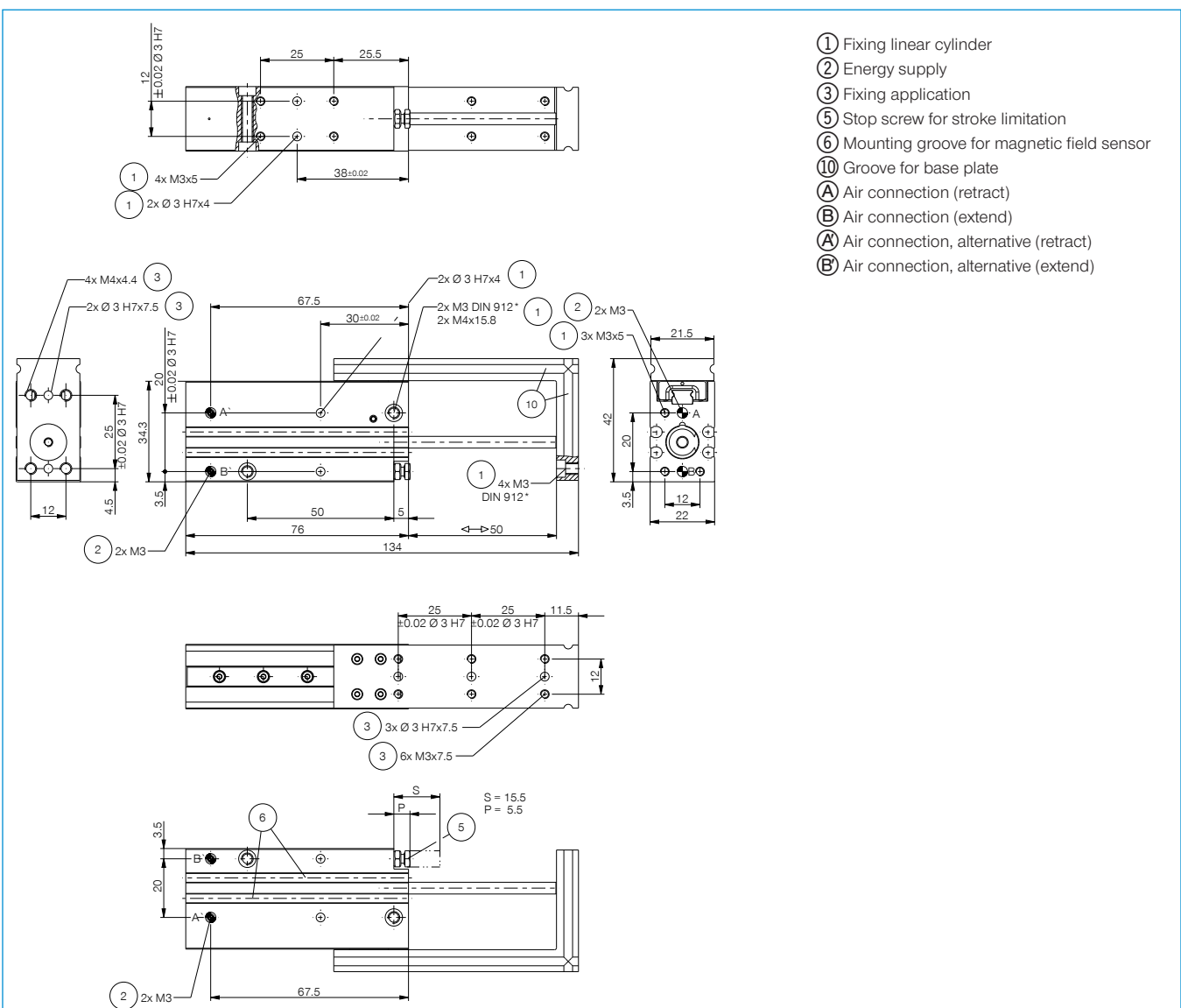
Adapter plate

APLS10G

► **Technical Data***

Order no.	LS10-50
Stroke [mm]	50
Pressure force max. [N]	40
Retraction force [N]	30
Piston diameter [mm]	10
Guide rail size [mm]	7
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm ³]	7.2
Weight [kg]	0.2

*All data measured at 6 bar



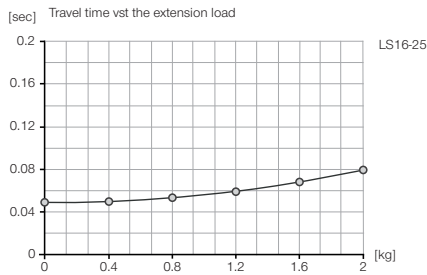
LINEAR RAIL SLIDES

LS16-25

▶ PRODUCT SPECIFICATIONS

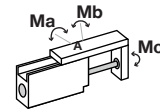


▶ Time diagram



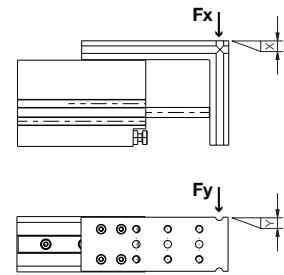
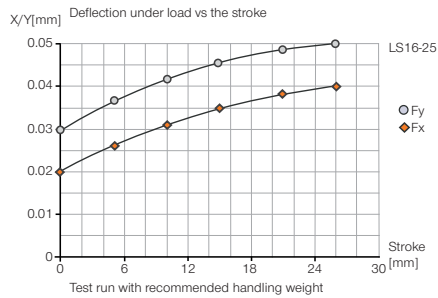
▶ Forces and moments

Max allowable static forces and moments on face A.



Ma [Nm]	6.4
Mb [Nm]	6.4
Mc [Nm]	9.6

▶ Load diagram



▶ RECOMMENDED ACCESSORIES



Magnetic field sensor
Straight Cable 0,3 m -
Connector M8
MFS204SKHC



Plug-in connector Straight
Cable 5m - Socket M8
(female)
KAG500



Plug-in connector Angled
Cable 5m - Socket M8
(female)
KAW500



Plug-in connector
customizable Straight -
Connector M12
S12-G-3



Flow Control Valves - with
Swivel joint
DRVM5X4



Pressure Safety Valve

DSV1-8

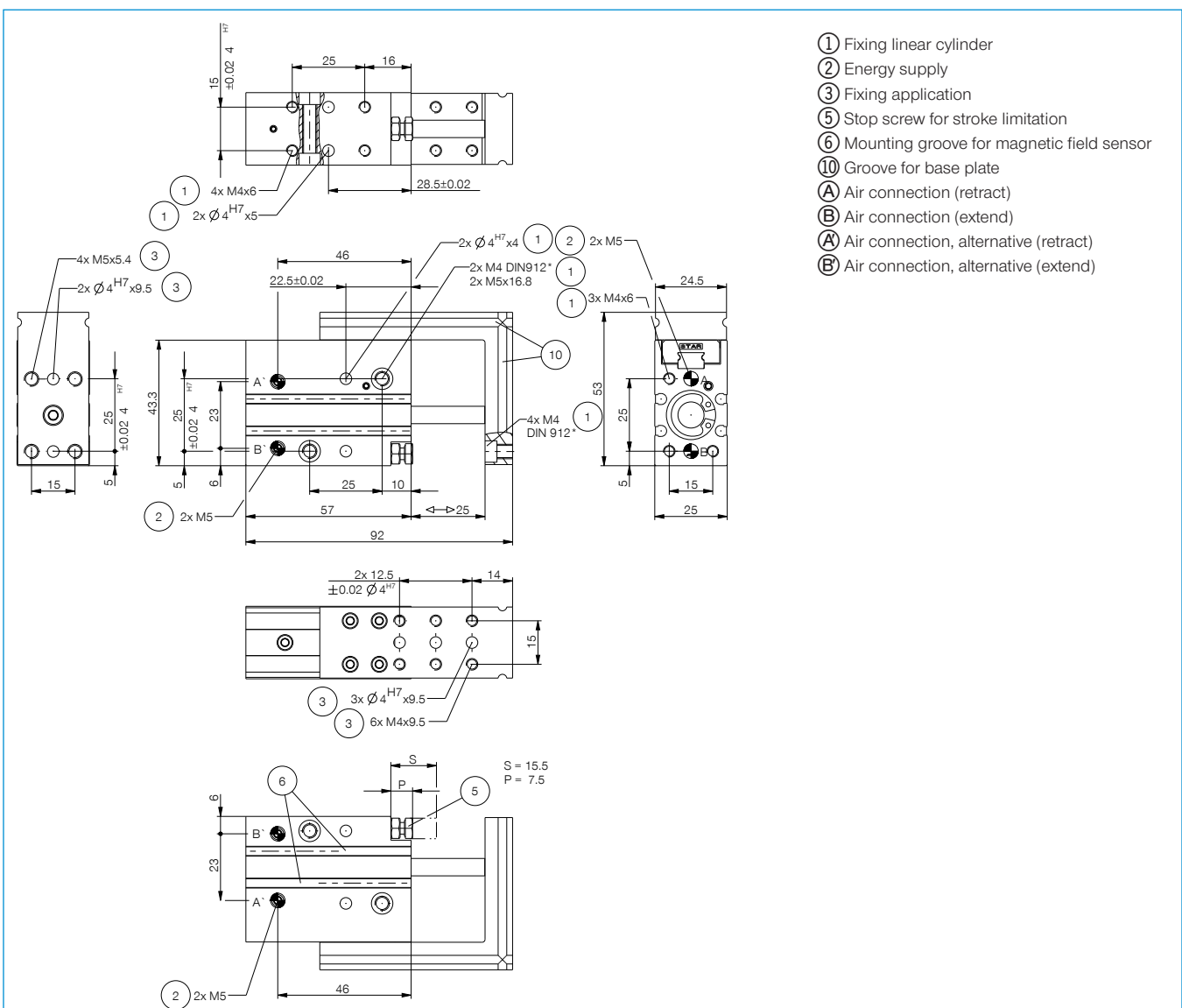


Adapter plate

APLS16G

Order no.	Technical Data*
Stroke [mm]	25
Pressure force max. [N]	100
Retraction force [N]	85
Piston diameter [mm]	16
Guide rail size [mm]	9
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm ³]	9.6
Weight [kg]	0.25

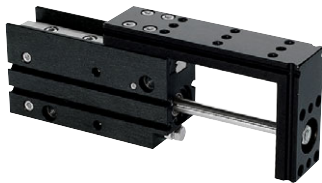
*All data measured at 6 bar



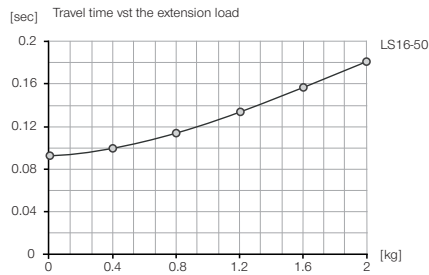
LINEAR RAIL SLIDES

LS16-50

▶ PRODUCT SPECIFICATIONS

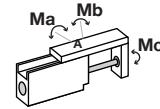


▶ Time diagram



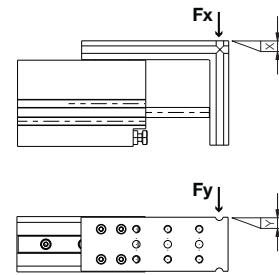
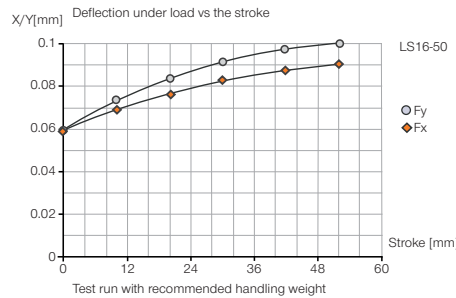
▶ Forces and moments

Max allowable static forces and moments on face A.



Ma [Nm]	6.4
Mb [Nm]	6.4
Mc [Nm]	9.6

▶ Load diagram



▶ RECOMMENDED ACCESSORIES



Magnetic field sensor
Straight Cable 0,3 m -
Connector M8
MFS204SKHC



Plug-in connector Straight
Cable 5m - Socket M8
(female)
KAG500



Plug-in connector Angled
Cable 5m - Socket M8
(female)
KAW500



Plug-in connector
customizable Straight -
Connector M12
S12-G-3



Flow Control Valves - with
Swivel joint
DRV5X4



Pressure Safety Valve

DSV1-8



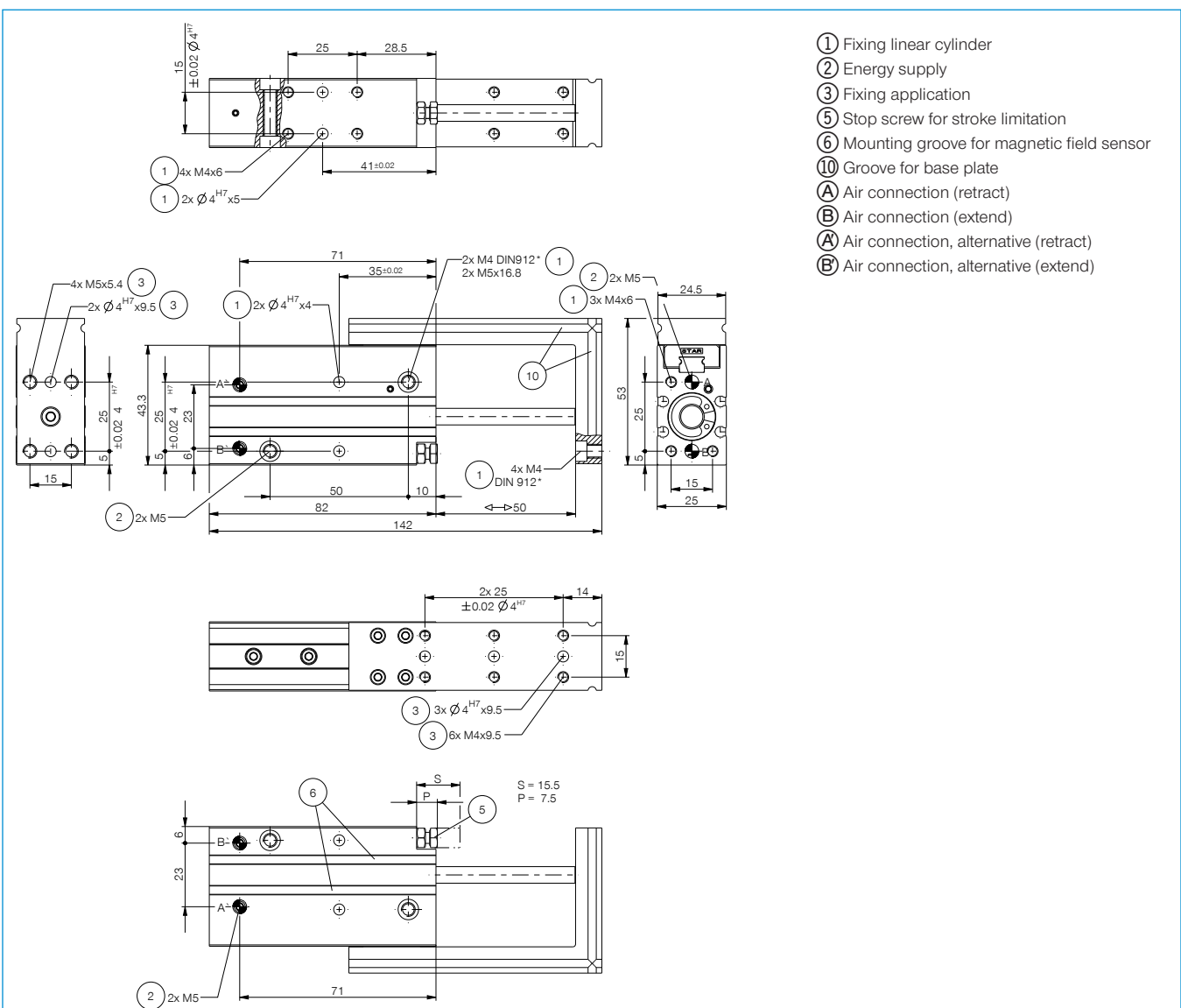
Adapter plate

APLS16G

► **Technical Data***

Order no.	LS16-50
Stroke [mm]	50
Pressure force max. [N]	100
Retraction force [N]	85
Piston diameter [mm]	16
Guide rail size [mm]	9
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm ³]	19.2
Weight [kg]	0.3

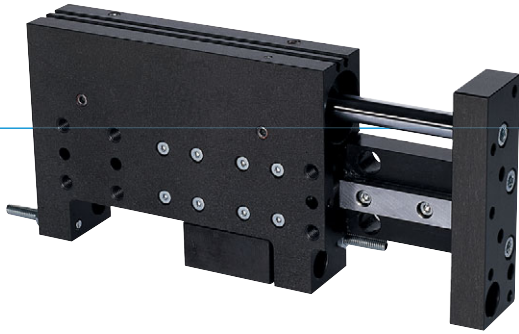
*All data measured at 6 bar



LINEAR RAIL SLIDES

SERIES LSF

▶ PRODUCT ADVANTAGES



▶ **Precise profile guide**

The linear guide with ball bearing circulation and scrapers provides high precision and rigidity

▶ **Dampened end position**

By using PowerStop shock absorbers, you can gently move up to the end positions, increasing the process reliability and durability of your application

▶ **Flat structure**

Reduces the interference contours for your application

▶ THE BEST PRODUCT FOR YOUR APPLICATION



▶ **Our products love the challenge!**

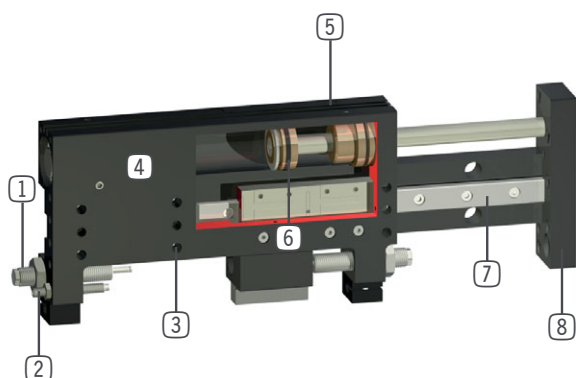
Extreme conditions, all over the world—our tried and tested components and systems give you limitless possibilities:

Find the best product for your specific use:

www.zimmer-group.com

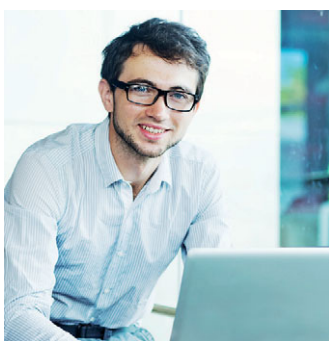


► BENEFITS IN DETAIL



- ① **Patented, hydraulic shock absorber**
 - adjustable end position damping
 - included in scope of delivery
- ② **Stroke limiting screw**
- ③ **Mounting and positioning**
 - possible from several sides
- ④ **Robust, lightweight and extremely flat structure housing**
 - Hard-coated aluminum alloy
- ⑤ **Mounting groove for magnetic field sensor**
 - integrated, space saving position sensing
- ⑥ **Drive**
 - double-acting pneumatic cylinder
- ⑦ **Linear guide with recirculating ball and wiper**
 - dual linear guidance for high forces and moments capacity
- ⑧ **Intake flange**
 - simple application connection

► FURTHER INFORMATION IS AVAILABLE ONLINE



► Technical Information

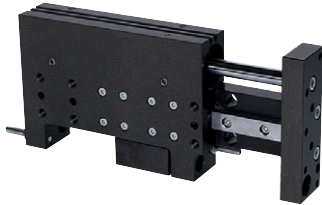
All information just a click away at: www.zimmer-group.com
Find data, illustrations, 3D models and operating instructions for your installation size using the order number for your desired product.
Quick, clear and always up-to-date.



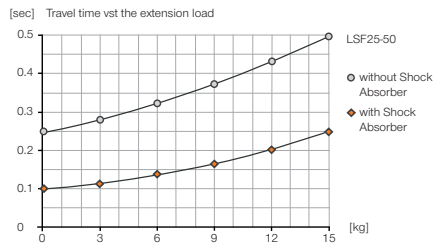
LINEAR RAIL SLIDES

LSF25-50

PRODUCT SPECIFICATIONS

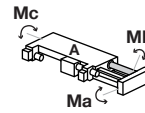


Time diagram



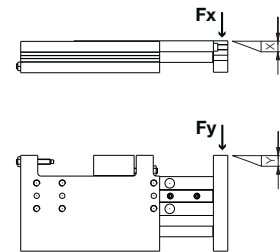
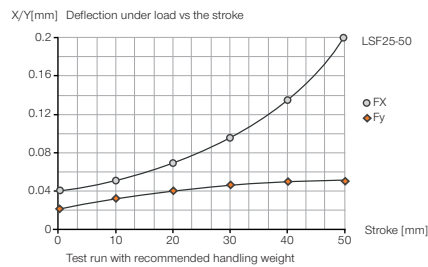
Forces and moments

Max allowable static forces and moments on face A.



Ma [Nm]	100
Mb [Nm]	100
Mc [Nm]	40

Load diagram

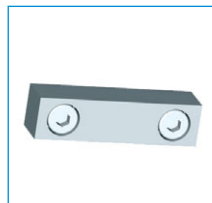


RECOMMENDED ACCESSORIES



Mounting block

KB8



Switch cam + screws

SN09



Shock Absorbers

M12X1S



Inductive proximity switch
- Cable 5 m

NJ8-E2



Inductive proximity switch
- Connector M8

NJ8-E2S



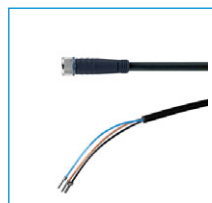
Magnetic field sensor
Straight Cable 5 m

MFS204KHC



Magnetic field sensor Straight
Cable 0,3 m - Connector M8

MFS204SKHC



Plug-in connector Straight Ca-
ble 5m - Socket M8 (female)

KAG500



Plug-in connector Angled Ca-
ble 5m - Socket M8 (female)

KAW500

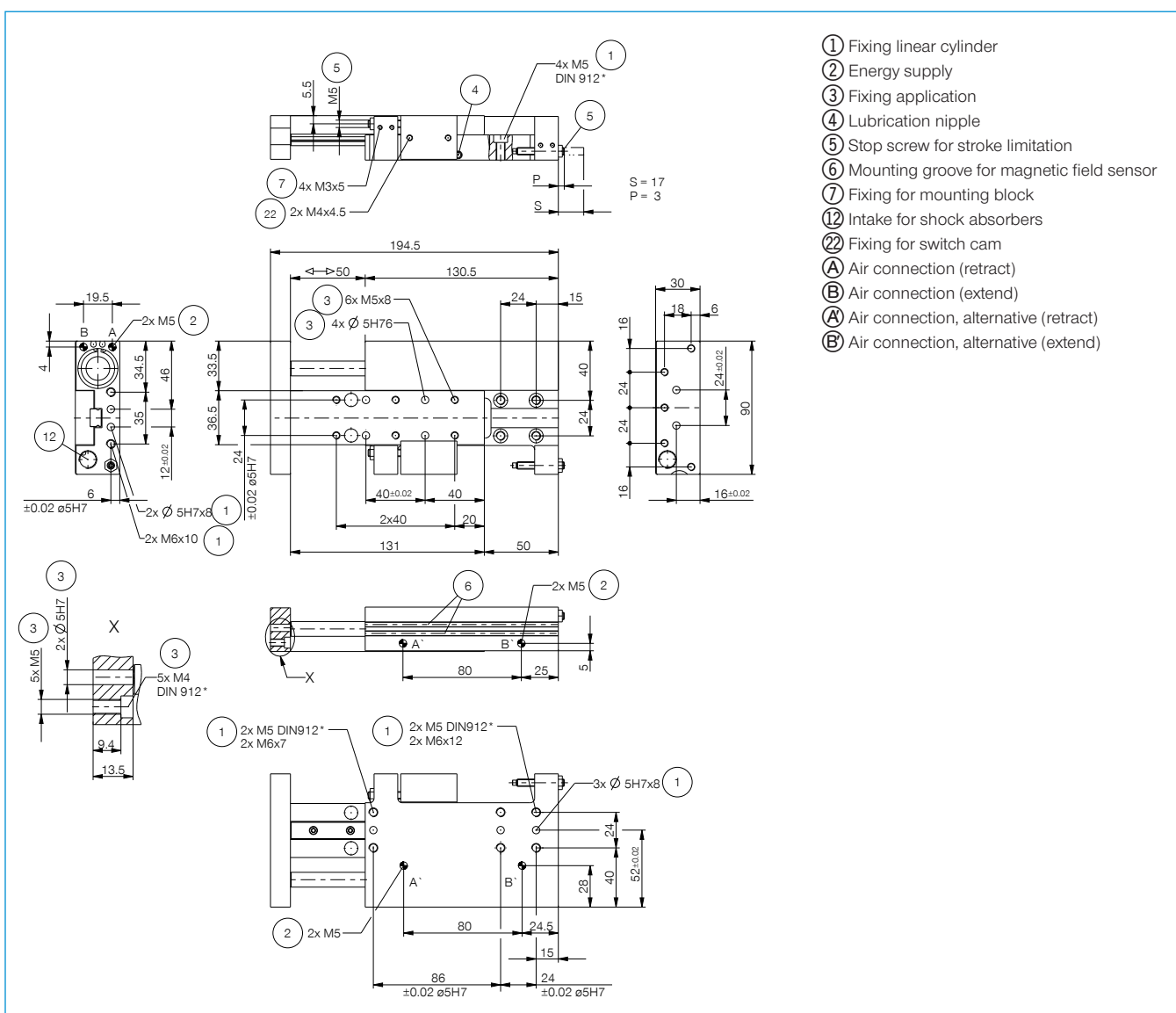


Plug-in connector customiz-
able Straight - Connector M8

S8-G-3

Order no.	Technical Data*
Stroke [mm]	50
Pressure force max. [N]	265
Retraction force [N]	220
Piston diameter [mm]	25
Guide rail size [mm]	12
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm³]	45
Weight [kg]	1

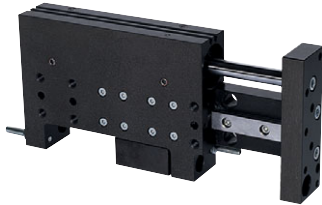
*All data measured at 6 bar



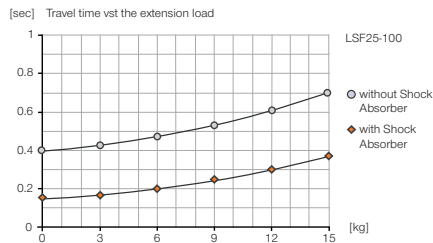
LINEAR RAIL SLIDES

LSF25-100

PRODUCT SPECIFICATIONS

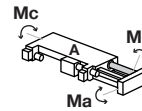


Time diagram



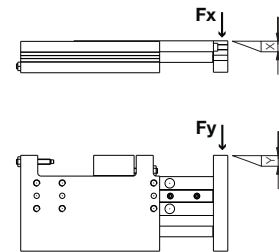
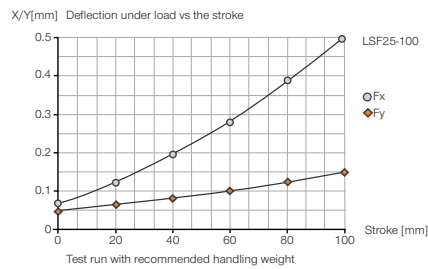
Forces and moments

Max allowable static forces and moments on face A.



Ma [Nm]	100
Mb [Nm]	100
Mc [Nm]	40

Load diagram

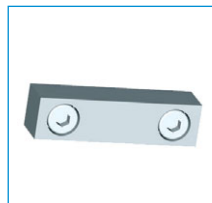


RECOMMENDED ACCESSORIES



Mounting block

KB8



Switch cam + screws

SN09



Shock Absorbers

M12X1S



Inductive proximity switch
- Cable 5 m

NJ8-E2



Inductive proximity switch
- Connector M8

NJ8-E2S



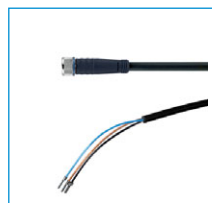
Magnetic field sensor
Straight Cable 5 m

MFS204KHC



Magnetic field sensor Straight
Cable 0,3 m - Connector M8

MFS204SKHC



Plug-in connector Straight Ca-
ble 5m - Socket M8 (female)

KAG500



Plug-in connector Angled Ca-
ble 5m - Socket M8 (female)

KAW500

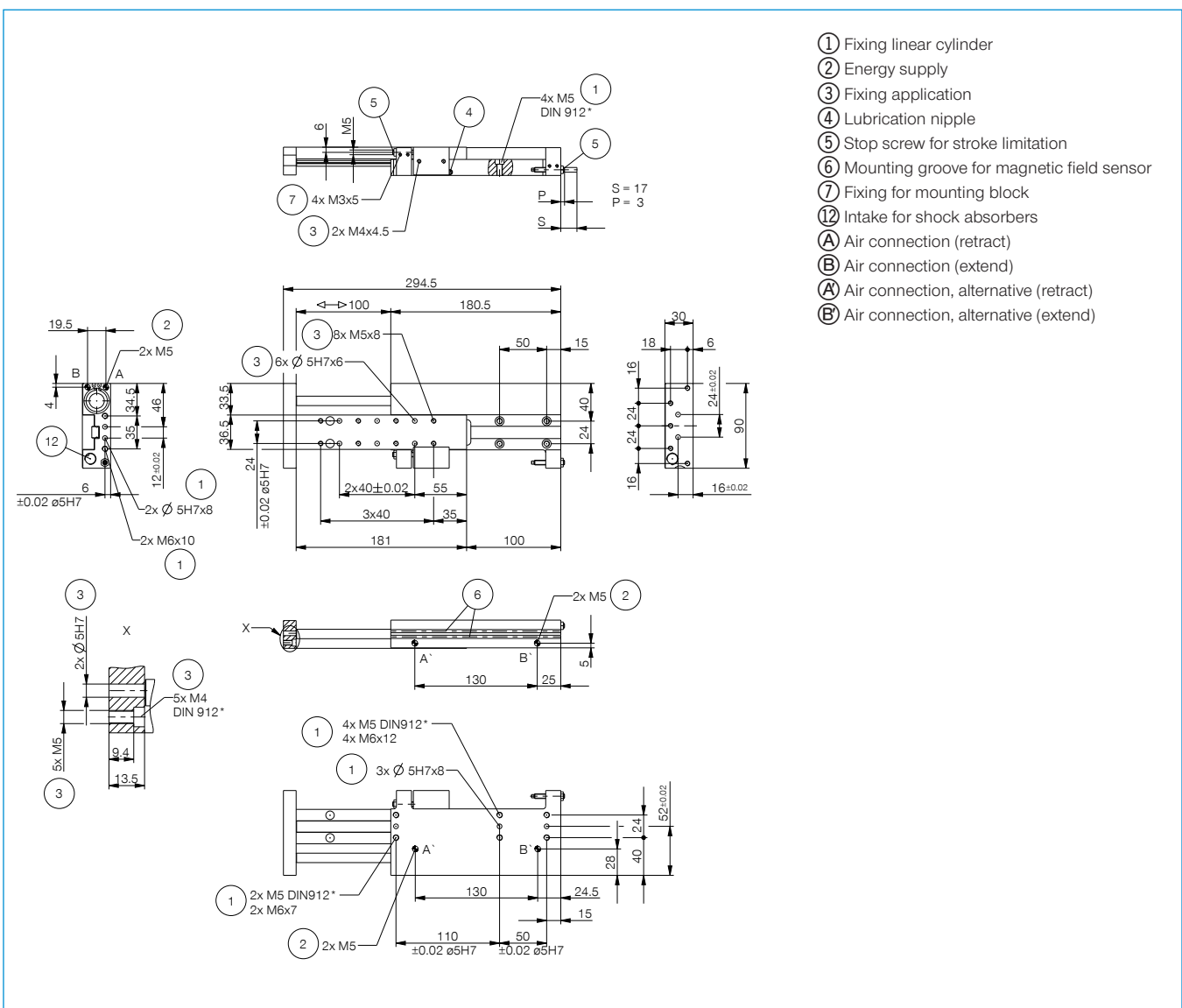


Plug-in connector customiz-
able Straight - Connector M8

S8-G-3

Order no.	LSF25-100
Stroke [mm]	100
Pressure force max. [N]	265
Retraction force [N]	220
Piston diameter [mm]	25
Guide rail size [mm]	12
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm ³]	90
Weight [kg]	1.3

*All data measured at 6 bar



LINEAR RAIL SLIDES

SERIES LSX

▶ PRODUCT ADVANTAGES



▶ **Precise double rail profile guide**

The linear guide with ball bearing circulation and scrapers provides high precision and rigidity

▶ **Dampened end position**

By using PowerStop shock absorbers, you can gently move up to the end positions, increasing the process reliability and durability of your application

▶ **Failure-free continuous operation**

Our uncompromising “Made in Germany” quality guarantees up to 10 million maintenance-free cycles

▶ THE BEST PRODUCT FOR YOUR APPLICATION



▶ **Our products love the challenge!**

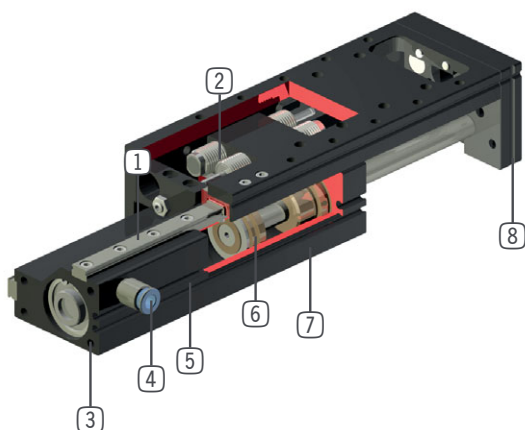
Extreme conditions, all over the world—our tried and tested components and systems give you limitless possibilities:

Find the best product for your specific use:

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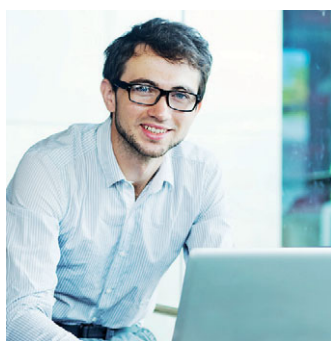


► BENEFITS IN DETAIL



- ① **Linear guide with recirculating ball and wiper**
 - two way linear guide for forces and moments capacity
- ② **Patented, hydraulic shock absorber**
 - adjustable end position damping
 - included in scope of delivery
- ③ **Mounting and positioning**
 - mounting possible from several sides for versatile positioning
- ④ **Energy supply**
 - possible from several sides
- ⑤ **Mounting groove for magnetic field sensor**
 - integrated, space saving position sensing
- ⑥ **Robust, lightweight housing**
 - Hard-coated aluminum alloy
- ⑦ **Drive**
 - double-acting pneumatic cylinder
- ⑧ **Intake flange**
 - quick and cost-effective positioning of adapter plates: Accessory, Art. No. AP...G and AP...V

► FURTHER INFORMATION IS AVAILABLE ONLINE



► Technical Information

All information just a click away at: www.zimmer-group.com

Find data, illustrations, 3D models and operating instructions for your installation size using the order number for your desired product.

Quick, clear and always up-to-date.



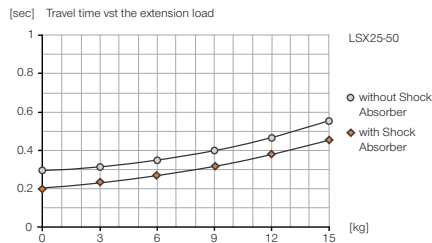
LINEAR RAIL SLIDES

LSX25-50

PRODUCT SPECIFICATIONS

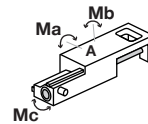


Time diagram



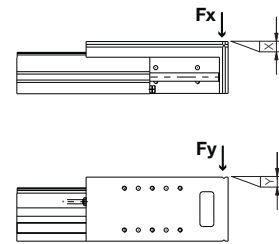
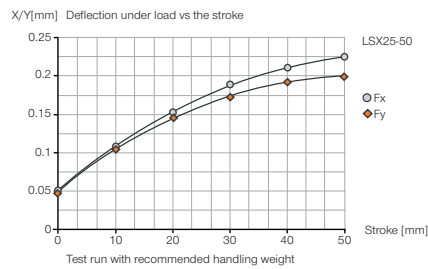
Forces and moments

Max allowable static forces and moments on face A.



Ma [Nm]	55
Mb [Nm]	55
Mc [Nm]	55

Load diagram



RECOMMENDED ACCESSORIES



Shock Absorbers

M12X1S



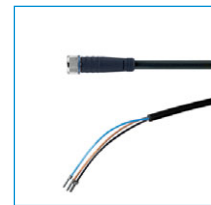
Magnetic field sensor
Straight Cable 5 m

MFS204KHC



Magnetic field sensor
Straight Cable 0,3 m -
Connector M8

MFS204SKHC



Plug-in connector Straight
Cable 5m - Socket M8
(female)

KAG500



Plug-in connector Angled
Cable 5m - Socket M8
(female)

KAW500



Plug-in connector customiz-
able Straight - Connector M8

S8-G-3



Plug-in connector customiz-
able Straight - Connector M12

S12-G-3



Flow Control Valves - with
Swivel joint

DRV1-8X6



Adapter plate

APLSX25G

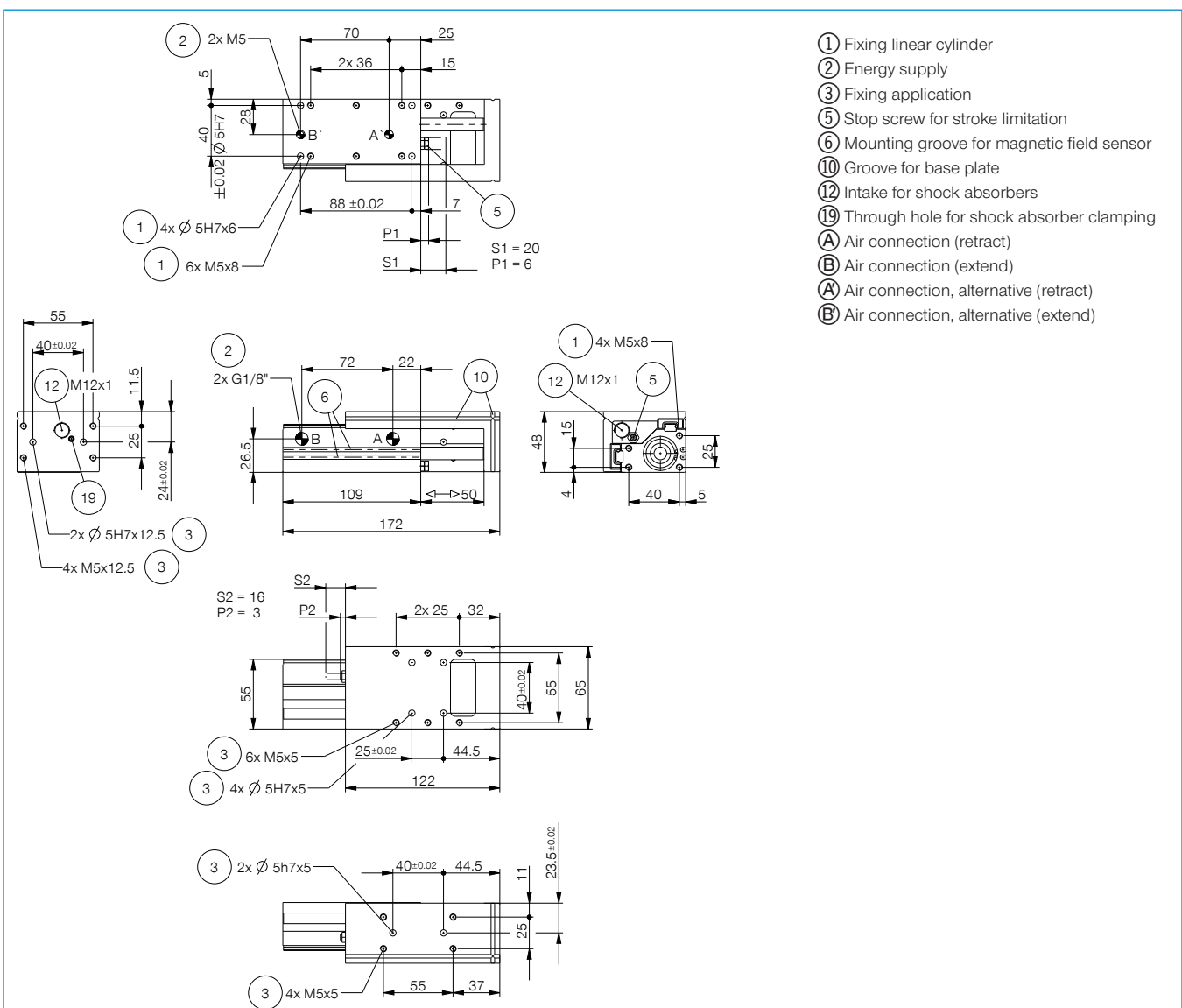


Adapter plate

APLSX25V

Order no.	LSX25-50
Stroke [mm]	50
Pressure force max. [N]	265
Retraction force [N]	220
Recommended handling weight [kg]	15
Piston diameter [mm]	25
Guide rail size [mm]	18
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm³]	45
Weight [kg]	1

*All data measured at 6 bar



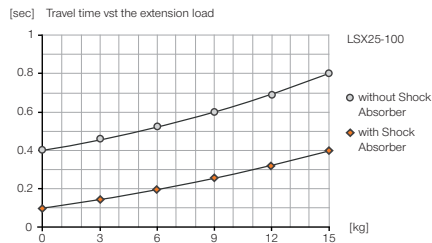
LINEAR RAIL SLIDES

LSX25-100

PRODUCT SPECIFICATIONS

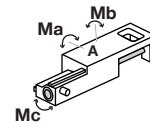


Time diagram



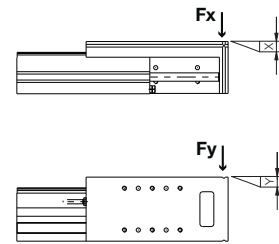
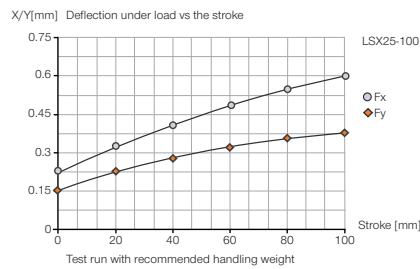
Forces and moments

Max allowable static forces and moments on face A.



Ma [Nm]	55
Mb [Nm]	55
Mc [Nm]	55

Load diagram



RECOMMENDED ACCESSORIES



Shock Absorbers

M12X1S



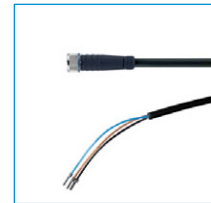
Magnetic field sensor
Straight Cable 5 m

MFS204KHC



Magnetic field sensor
Straight Cable 0,3 m -
Connector M8

MFS204SKHC



Plug-in connector Straight
Cable 5m - Socket M8
(female)

KAG500



Plug-in connector Angled
Cable 5m - Socket M8
(female)

KAW500



Plug-in connector customiz-
able Straight - Connector M8

S8-G-3



Plug-in connector customiz-
able Straight - Connector M12

S12-G-3



Flow Control Valves - with
Swivel joint

DRV1-8X6



Adapter plate

APLSX25G

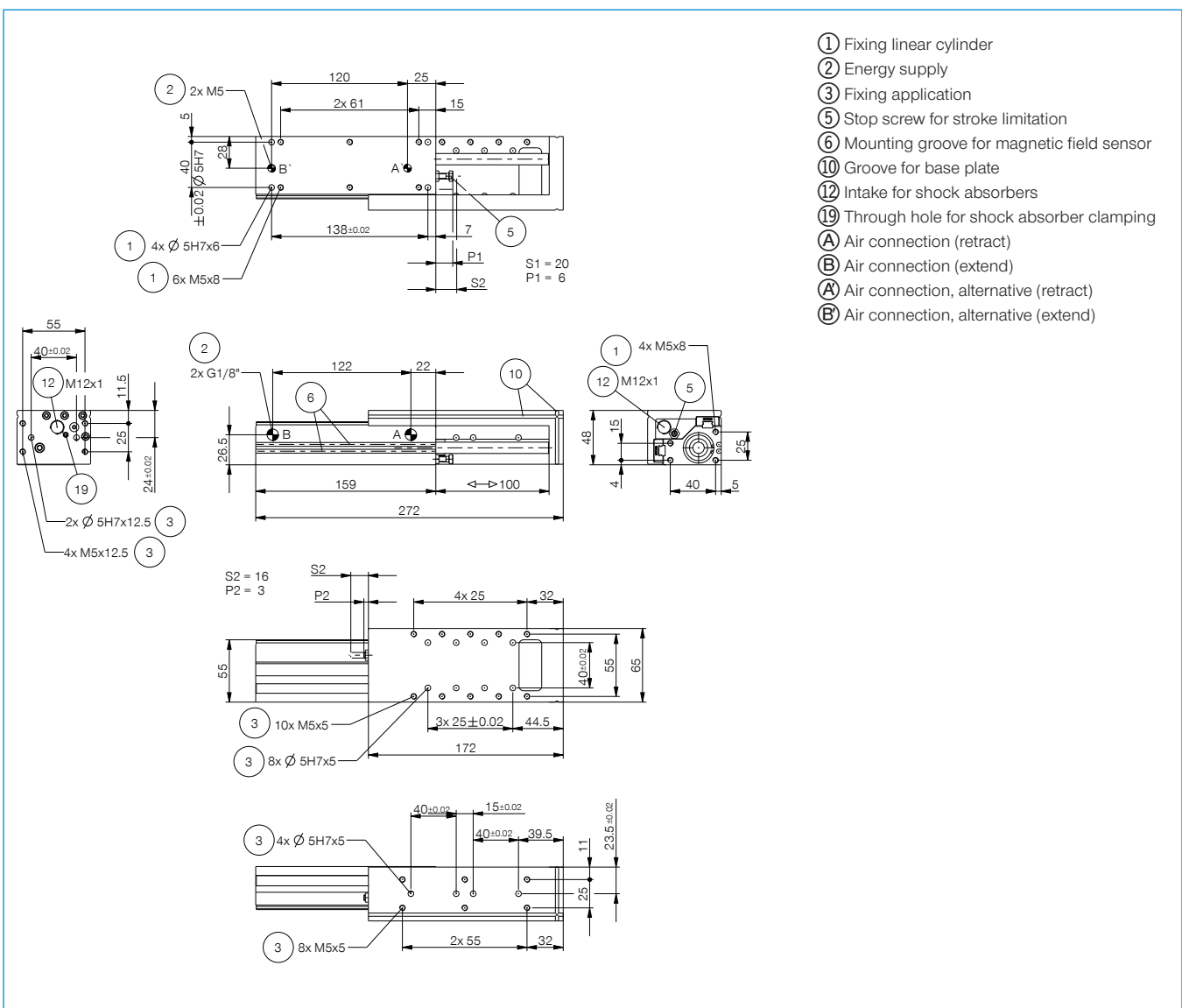


Adapter plate

APLSX25V

Order no.	LSX25-100
Stroke [mm]	100
Pressure force max. [N]	265
Retraction force [N]	220
Recommended handling weight [kg]	15
Piston diameter [mm]	25
Guide rail size [mm]	18
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm ³]	90
Weight [kg]	1.3

*All data measured at 6 bar



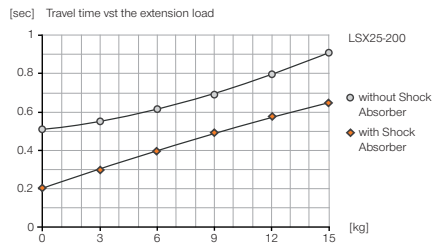
LINEAR RAIL SLIDES

LSX25-200

PRODUCT SPECIFICATIONS

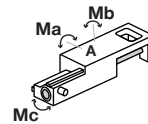


Time diagram



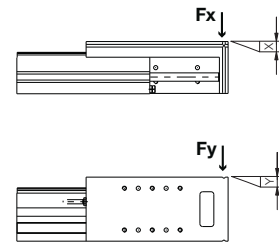
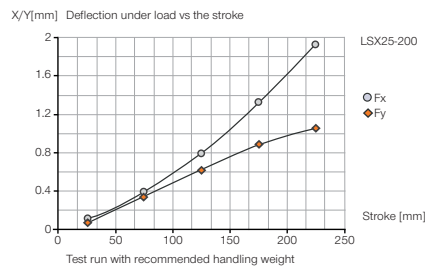
Forces and moments

Max allowable static forces and moments on face A.



Ma [Nm]	55
Mb [Nm]	55
Mc [Nm]	55

Load diagram



RECOMMENDED ACCESSORIES



Shock Absorbers

M12X1S



Magnetic field sensor
Straight Cable 5 m

MFS204KHC



Magnetic field sensor
Straight Cable 0,3 m -
Connector M8

MFS204SKHC



Plug-in connector Straight
Cable 5m - Socket M8
(female)

KAG500



Plug-in connector Angled
Cable 5m - Socket M8
(female)

KAW500



Plug-in connector customiz-
able Straight - Connector M8

S8-G-3



Plug-in connector customiz-
able Straight - Connector M12

S12-G-3



Flow Control Valves - with
Swivel joint

DRV1-8X6



Adapter plate

APLSX25G

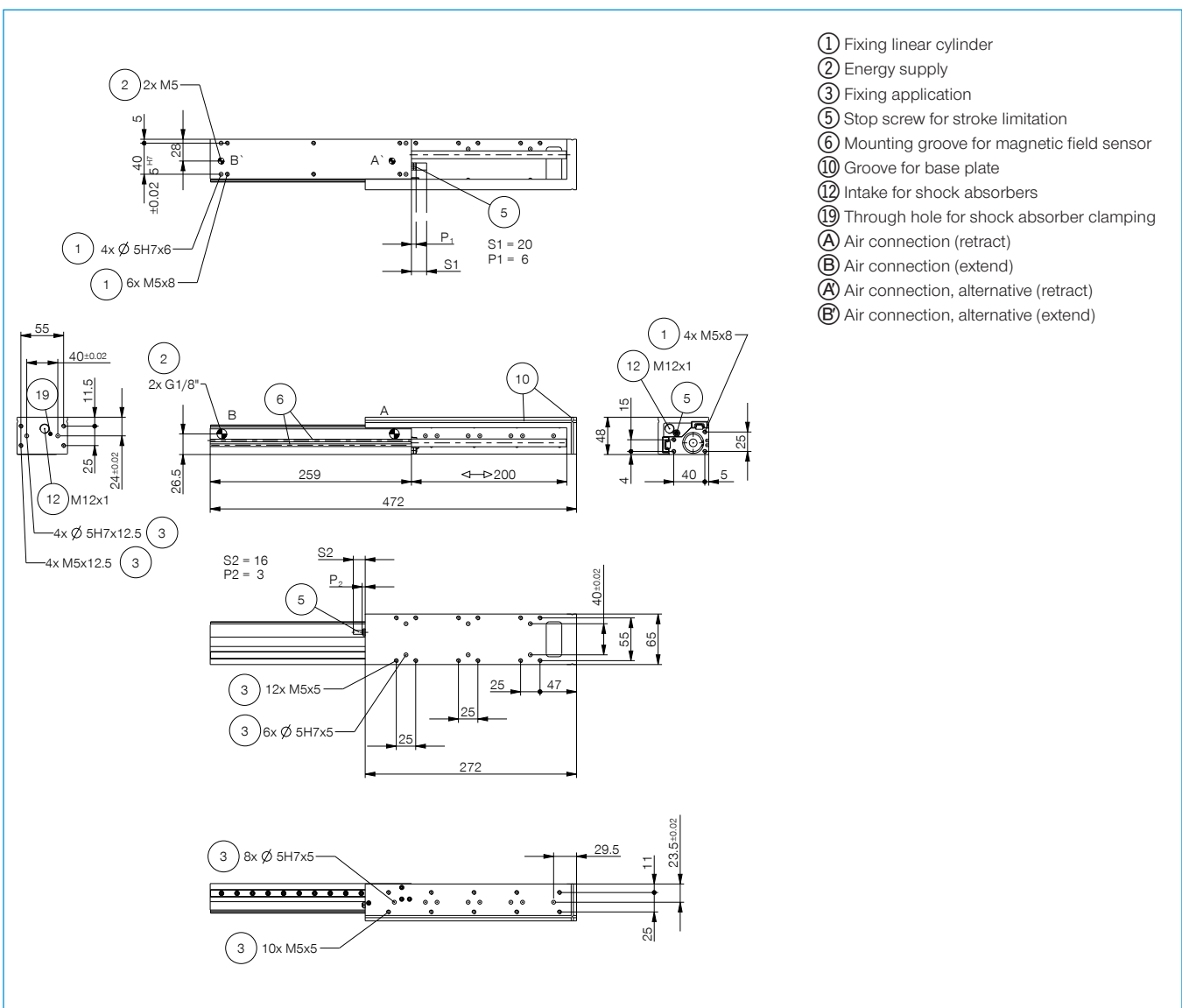


Adapter plate

APLSX25V

Order no.	LSX25-200
Stroke [mm]	200
Pressure force max. [N]	265
Retraction force [N]	220
Recommended handling weight [kg]	15
Piston diameter [mm]	25
Guide rail size [mm]	18
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm ³]	180
Weight [kg]	1.9

*All data measured at 6 bar



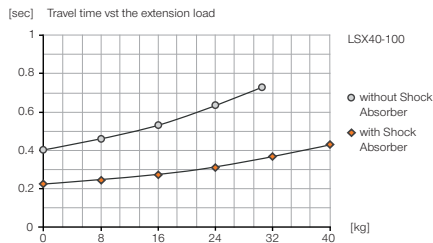
LINEAR RAIL SLIDES

LSX40-100

PRODUCT SPECIFICATIONS

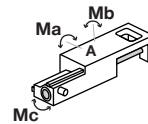


Time diagram



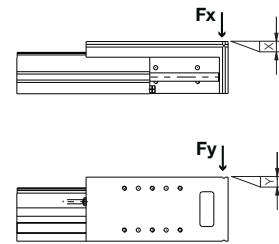
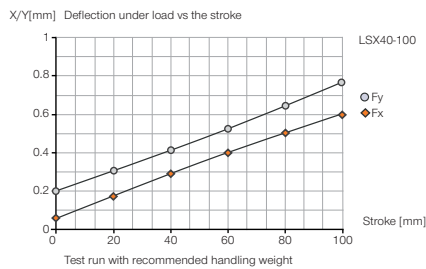
Forces and moments

Max allowable static forces and moments on face A.



Ma [Nm]	200
Mb [Nm]	200
Mc [Nm]	200

Load diagram



RECOMMENDED ACCESSORIES



Shock Absorbers

M20X1.5S



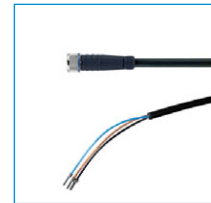
Magnetic field sensor
Straight Cable 5 m

MFS204KHC



Magnetic field sensor
Straight Cable 0,3 m -
Connector M8

MFS204SKHC



Plug-in connector Straight
Cable 5m - Socket M8
(female)

KAG500



Plug-in connector Angled
Cable 5m - Socket M8
(female)

KAW500



Plug-in connector customiz-
able Straight - Connector M8

S8-G-3



Plug-in connector customiz-
able Straight - Connector M12

S12-G-3



Flow Control Valves - with
Swivel joint

DRV1-8X6



Adapter plate

APLSX40G



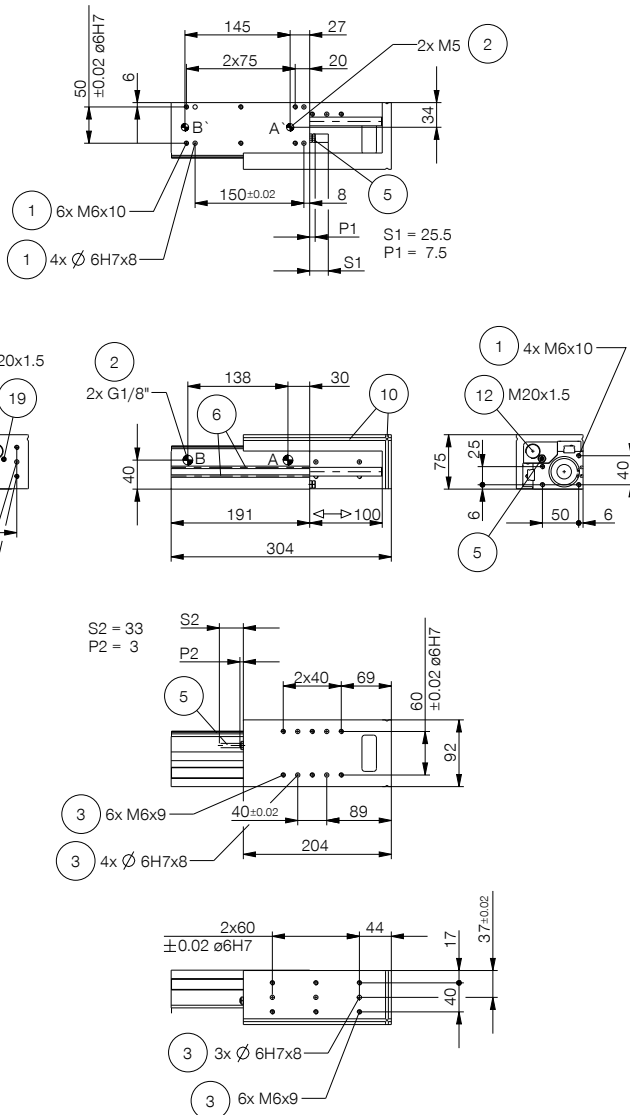
Adapter plate

APLSX40V

Order no.	LSX40-100
Stroke [mm]	100
Pressure force max. [N]	750
Retraction force [N]	680
Recommended handling weight [kg]	40
Piston diameter [mm]	40
Guide rail size [mm]	30
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm³]	235
Weight [kg]	3.2

*All data measured at 6 bar

► Technical Data*



- ① Fixing linear cylinder
- ② Energy supply
- ③ Fixing application
- ⑤ Stop screw for stroke limitation
- ⑥ Mounting groove for magnetic field sensor
- ⑩ Groove for base plate
- ⑫ Intake for shock absorbers
- ⑰ Through hole for shock absorber clamping
- Ⓐ Air connection (retract)
- Ⓑ Air connection (extend)
- Ⓐ Air connection, alternative (retract)
- Ⓑ Air connection, alternative (extend)

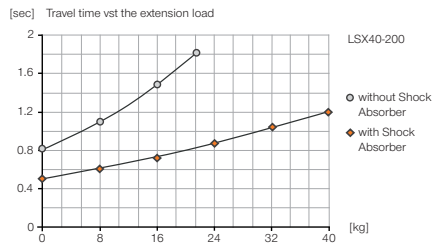
LINEAR RAIL SLIDES

LSX40-200

PRODUCT SPECIFICATIONS

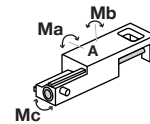


Time diagram



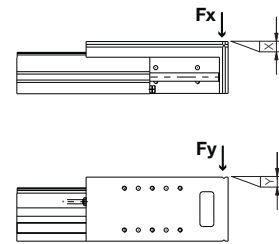
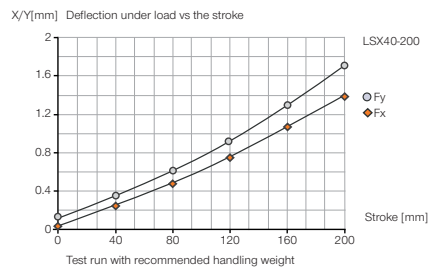
Forces and moments

Max allowable static forces and moments on face A.



Ma [Nm]	200
Mb [Nm]	200
Mc [Nm]	200

Load diagram



RECOMMENDED ACCESSORIES



Shock Absorbers

M20X1.5S



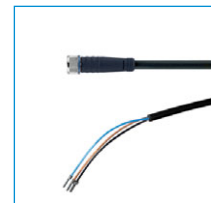
Magnetic field sensor
Straight Cable 5 m

MFS204KHC



Magnetic field sensor
Straight Cable 0,3 m -
Connector M8

MFS204SKHC



Plug-in connector Straight
Cable 5m - Socket M8
(female)

KAG500



Plug-in connector Angled
Cable 5m - Socket M8
(female)

KAW500



Plug-in connector customiz-
able Straight - Connector M8

S8-G-3



Plug-in connector customiz-
able Straight - Connector M12

S12-G-3



Flow Control Valves - with
Swivel joint

DRV1-8X6



Adapter plate

APLSX40G



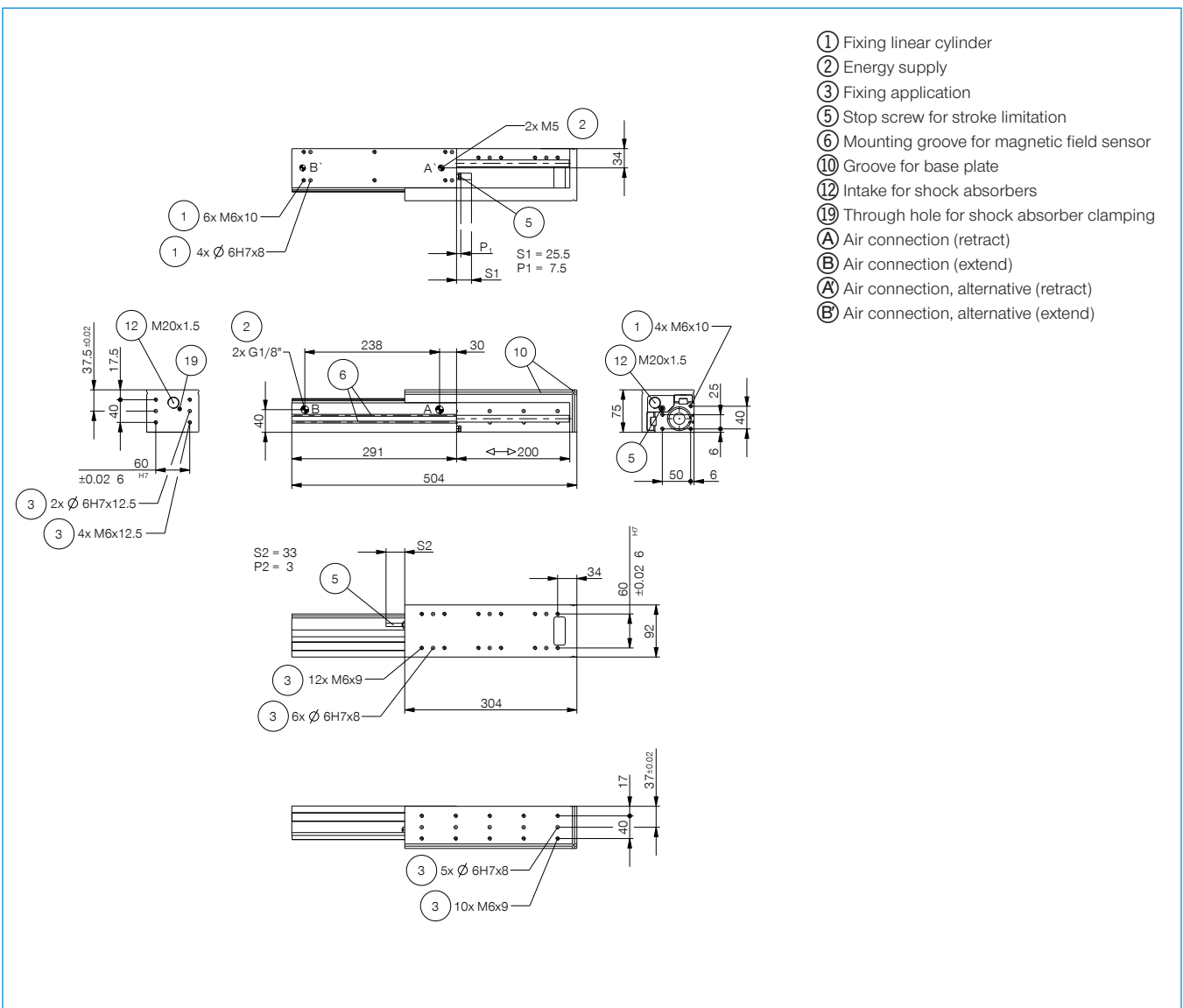
Adapter plate

APLSX40V

Order no.	LSX40-200
Stroke [mm]	200
Pressure force max. [N]	750
Retraction force [N]	680
Recommended handling weight [kg]	40
Piston diameter [mm]	40
Guide rail size [mm]	30
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm³]	235
Weight [kg]	4.4

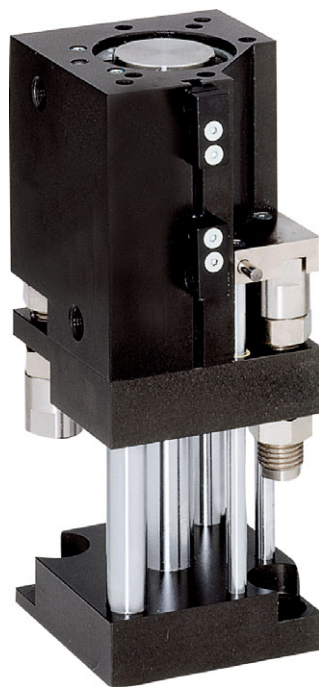
*All data measured at 6 bar

► Technical Data*



LIFTING CYLINDERS

OVERVIEW OF SERIES



▶ PNEUMATIC

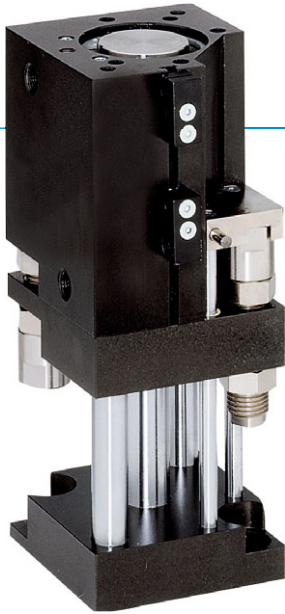


Series HZ

780

LIFTING CYLINDERS SERIES HZ

▶ PRODUCT ADVANTAGES



▶ **Hoseless air passage**

Eliminates undefined interference contours and wear-prone hoses and increases the safety of your application in the process

▶ **Dampened end position**

By using PowerStop shock absorbers, you can gently move up to the end positions, increasing the process reliability and durability of your application

▶ **Very robust**

Two ground and hard chrome-plated guide rods guarantee a secure process sequence with their rigidity and long service life

▶ THE BEST PRODUCT FOR YOUR APPLICATION



▶ **Our products love the challenge!**

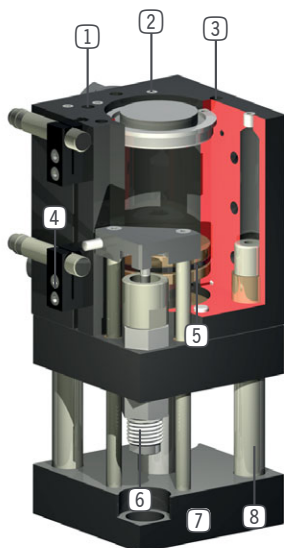
Extreme conditions, all over the world—our tried and tested components and systems give you limitless possibilities:

Find the best product for your specific use:

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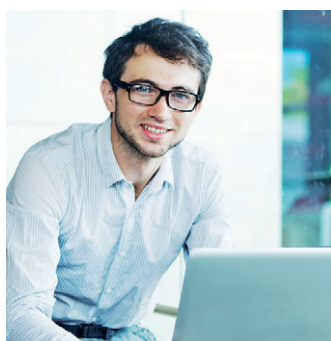


► BENEFITS IN DETAIL



- ① **Integrated air feed-through**
- for hoseless air transfer
- ② **Energy supply**
- possible from several sides
- ③ **Mounting and positioning**
- mounting possible from several sides for versatile positioning
- ④ **Mounting block**
- mounting for inductive proximity switch
- ⑤ **Drive**
- double-acting pneumatic cylinder
- ⑥ **Patented, hydraulic shock absorber**
- adjustable end position damping
- ⑦ **Intake flange**
- for fixing to the customer specific application
- ⑧ **Two guide rods**
- high forces and moments capacity

► FURTHER INFORMATION IS AVAILABLE ONLINE



► **Technical Information**

All information just a click away at: www.zimmer-group.com

Find data, illustrations, 3D models and operating instructions for your installation size using the order number for your desired product.

Quick, clear and always up-to-date.



LIFTING CYLINDERS

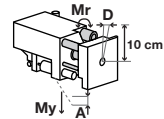
INSTALLATION SIZE HZ40

▶ PRODUCT SPECIFICATIONS



▶ Forces and moments

Max allowable static forces and moments.



▶ INCLUDED IN DELIVERY



Mounting block

KB8-28



Shock Absorbers

M14X1.5S



Stop sleeve

DST01491

▶ RECOMMENDED ACCESSORIES



Inductive proximity switch
- Cable 5 m

NJ8-E2



Inductive proximity switch
- Connector M8

NJ8-E2S



Plug-in connector Straight
Cable 5m - Socket M8
(female)

KAG500



Plug-in connector Angled
Cable 5m - Socket M8
(female)

KAW500



Plug-in connector
customizable Straight -
Connector M8

S8-G-3



Plug-in connector customiz-
able Straight - Connector M12

S12-G-3



Flow Control Valves - with
Swivel joint

DRV1-8X6

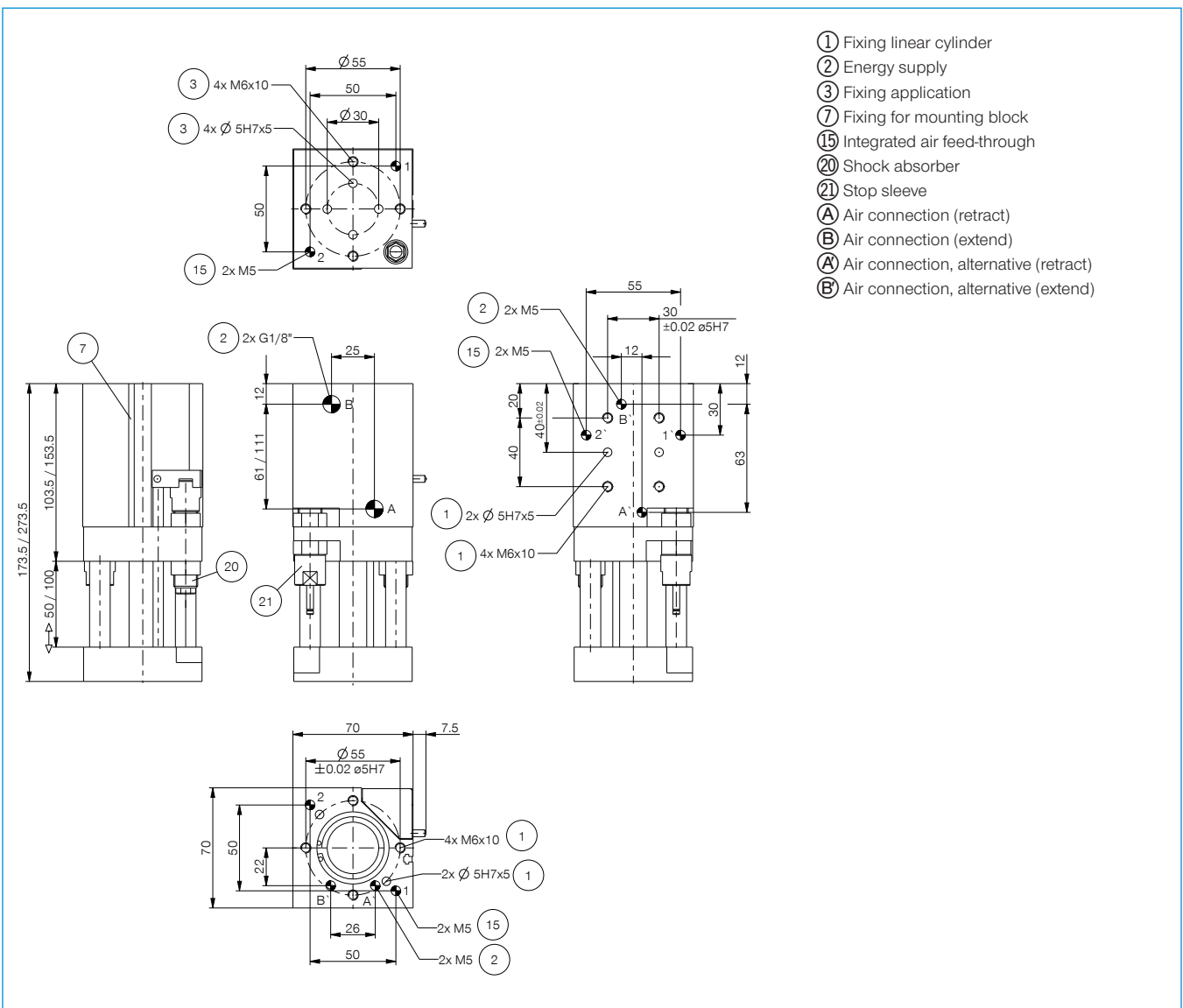


Pressure Safety Valve

DSV1-8

Order no.	▶ Technical Data*	
	HZ40-50D2	HZ40-100D2
Stroke [mm]	50	100
Pressure force max. [N]	720	720
Retraction force [N]	600	600
Air feed-through [Quantity]	2	2
Air volume per cycle [cm³]	116	232
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Weight [kg]	2	2.7
Deviation D for Mr 5 N [mm]		0.5
Deviation D for Mr 10 N [mm]	0.1	
Deviation D for Mr 15 N [mm]		0.15
Deviation D for Mr 70 N [mm]	0.5	
Deflection A for My 60 N [mm]	0.05	0.1
Deflection A for My 100 N [mm]	0.1	0.15

*All data measured at 6 bar



CUTTING TONGS

OVERVIEW OF SERIES



▶ PNEUMATIC



Series ZK1000

786



Series ZK

798

CUTTING TONGS

SERIES ZK1000

▶ PRODUCT ADVANTAGES



▶ **Extremely lightweight**

This light weight generally allows the use of a smaller moving axis, reducing the overall costs of the application in the process

▶ **Integrated magnetic field sensing**

One of the few cutting tongs on the market that can have its position queried and transferred to the control system with process reliability

▶ **Decide for yourself!**

Sprue or steel wire: The variety of cutting geometries and materials ensure you always find the correct cuttings

▶ THE BEST PRODUCT FOR YOUR APPLICATION



▶ **Our products love the challenge!**

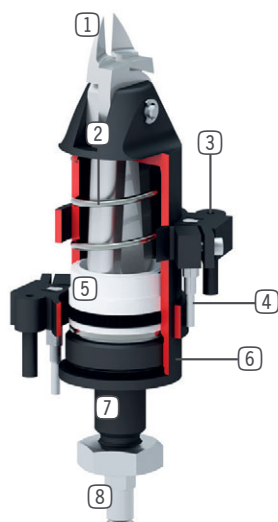
Extreme conditions, all over the world—our tried and tested components and systems give you limitless possibilities:

Find the best product for your specific use:

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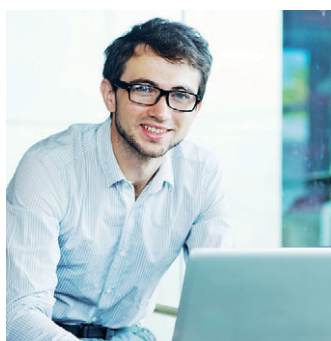


► BENEFITS IN DETAIL



- ① **Cutting insert**
 - flexible applicable due to specific cutting geometry
- ② **Return spring**
 - to open the cuttings
- ③ **Mounting clamp**
 - mounting and positioning of magnetic field sensors
- ④ **Magnetic field sensor**
 - for position sensing
- ⑤ **Drive**
 - single-acting pneumatic cylinder
- ⑥ **Housing**
 - Hard-coated aluminum alloy
- ⑦ **Mounting and positioning**
 - via fit, thread and lock nut
- ⑧ **Energy supply**

► FURTHER INFORMATION IS AVAILABLE ONLINE



► **Technical Information**

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Find data, illustrations, 3D models and operating instructions for your installation size using the order number for your desired product.

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CUTTING TONGS

INSTALLATION SIZE ZK1030

▶ PRODUCT SPECIFICATIONS



▶ INCLUDED IN DELIVERY



Locking nut

C093610009

▶ RECOMMENDED ACCESSORIES



Sensor holder

KHD30



Magnetic field sensor
Straight Cable 5 m

MFS204KHC



Magnetic field sensor
Straight Cable 0,3 m -
Connector M8

MFS204SKHC



Straight Fittings - Barb
Style Connection

GVM3



Angled Fittings - Barb
Style Connection

WVM3



Cutting Insert 15° for
plastics

BK1030-01



Cutting Insert 40° For
Plastics

BK1030-02



Cutting Insert 0° For
Plastics

BK1030-03



Cutting Tong For Plastics

BK1030-04



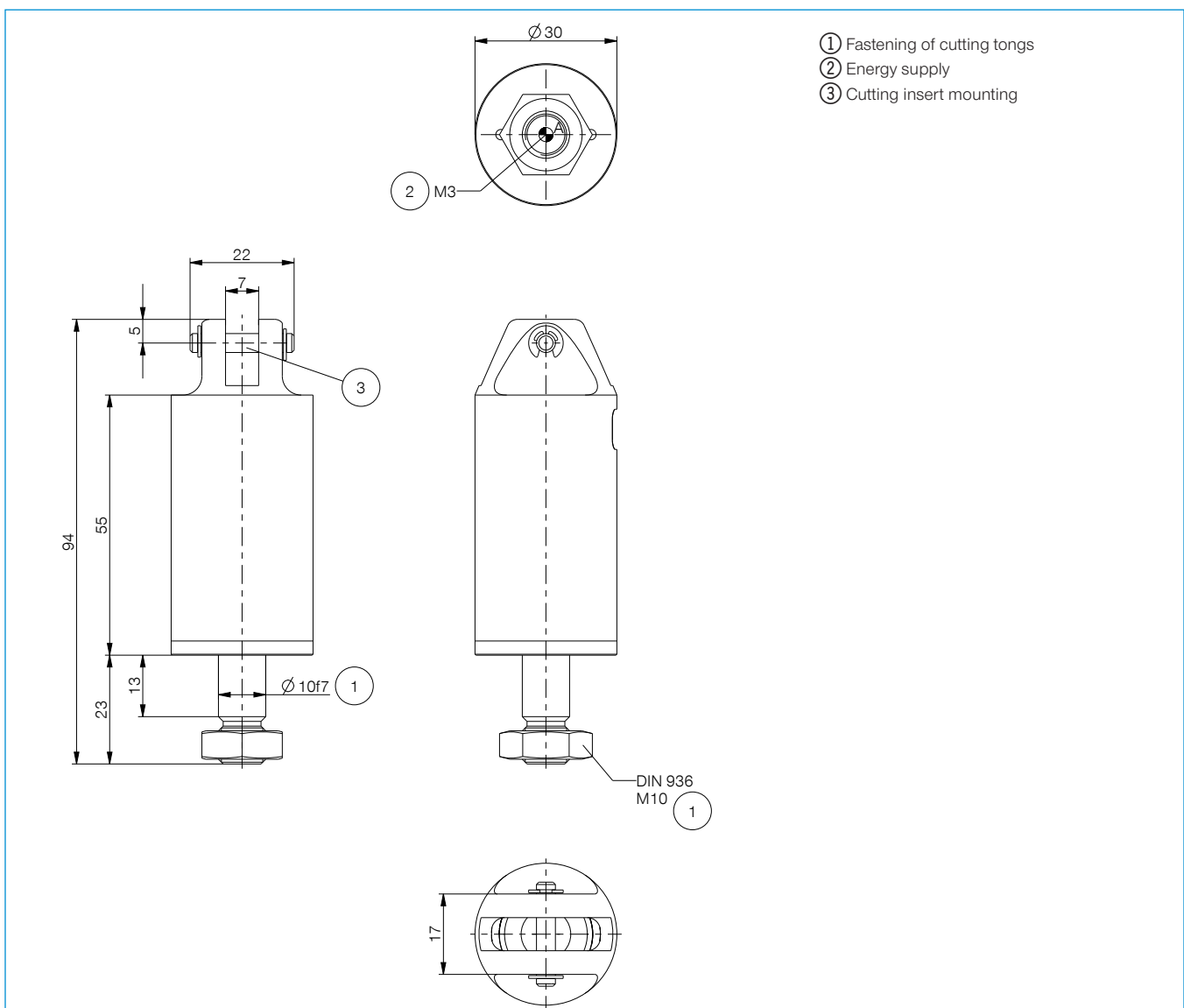
Cutting Insert 0° For Steel

BK1030-05

► Technical Data*	
Order no.	ZK1030
Stroke per jaw [°]	4.25
Gripping moment in closing [Nm]	14
Closing time [s]	0.01
Opening time [s]	0.1
Operating pressure min. [bar]	2
Operating pressure max. [bar]	6
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm ³]	5
Weight [kg]	0.08

Possible cutting diameters	
possible cut-Ø max. plastics [mm]	2
possible cut-Ø max. hard-plastic [mm]	
possible cut-Ø max. copper [mm]	1
possible cut-Ø max. steel [mm]	0.5
possible cut-Ø max. piano wire [mm]	0.3

*All data measured at 6 bar



CUTTING TONGS

INSTALLATION SIZE ZK1036

▶ PRODUCT SPECIFICATIONS



▶ INCLUDED IN DELIVERY



Locking nut

C093614159

▶ RECOMMENDED ACCESSORIES



Sensor holder

KHD36



Magnetic field sensor
Straight Cable 5 m

MFS204KHC



Magnetic field sensor
Straight Cable 0,3 m -
Connector M8

MFS204SKHC



Straight Fittings - Quick
Connect Style

GVM5



Angled Fittings - Quick
Connect Style

WVM5



Cutting Insert 25° For
Plastics

BK1036-01



Cutting Insert 40° For
Plastics

BK1036-02



Cutting Insert 0° For
Plastics

BK1036-03



Cutting Tong For Plastics

BK1036-04



Cutting Insert 0° For Steel

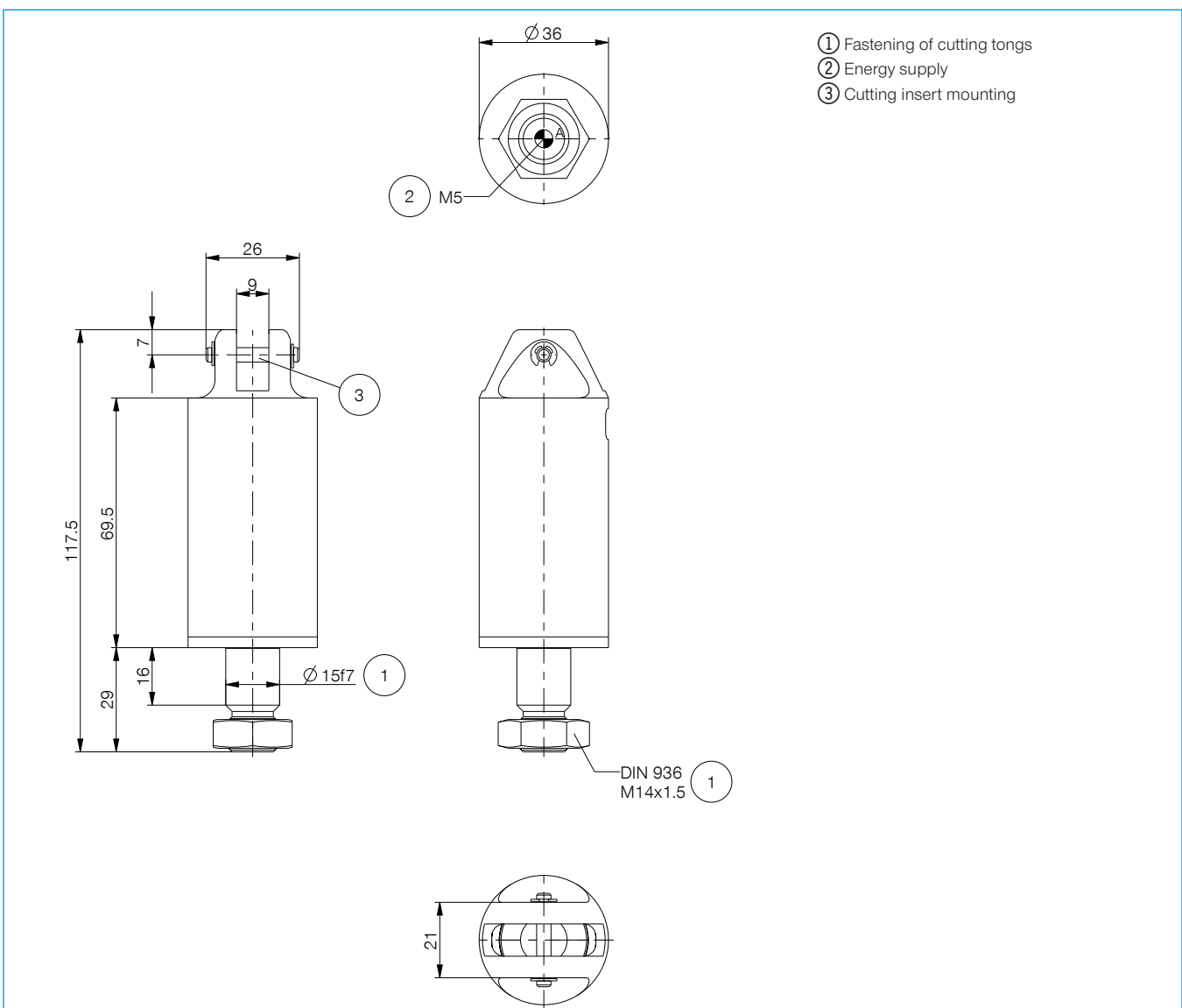
BK1036-05

► **Technical Data***

Order no.	ZK1036
Stroke per jaw [°]	5
Gripping moment in closing [Nm]	40
Closing time [s]	0.04
Opening time [s]	0.15
Operating pressure min. [bar]	2
Operating pressure max. [bar]	6
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm ³]	9.2
Weight [kg]	0.13

Possible cutting diameters	
possible cut-Ø max. plastics [mm]	4
possible cut-Ø max. hard-plastic [mm]	2.6
possible cut-Ø max. copper [mm]	1.6
possible cut-Ø max. steel [mm]	1
possible cut-Ø max. piano wire [mm]	0.5

*All data measured at 6 bar



CUTTING TONGS

INSTALLATION SIZE ZK1045

▶ PRODUCT SPECIFICATIONS



▶ INCLUDED IN DELIVERY



Locking nut

C093620159

▶ RECOMMENDED ACCESSORIES



Sensor holder

KHD45



Magnetic field sensor
Straight Cable 5 m

MFS204KHC



Magnetic field sensor
Straight Cable 0,3 m -
Connector M8

MFS204SKHC



Straight Fittings - Quick
Connect Style

GV1-8X6



Angled Fittings - Quick
Connect Style

WV1-8X6



Cutting Insert 15° for
plastics

BK1045-01



Cutting Insert 40° For
Plastics

BK1045-02



Cutting Insert 0° For
Plastics

BK1045-03



Cutting Tong For Plastics

BK1045-04

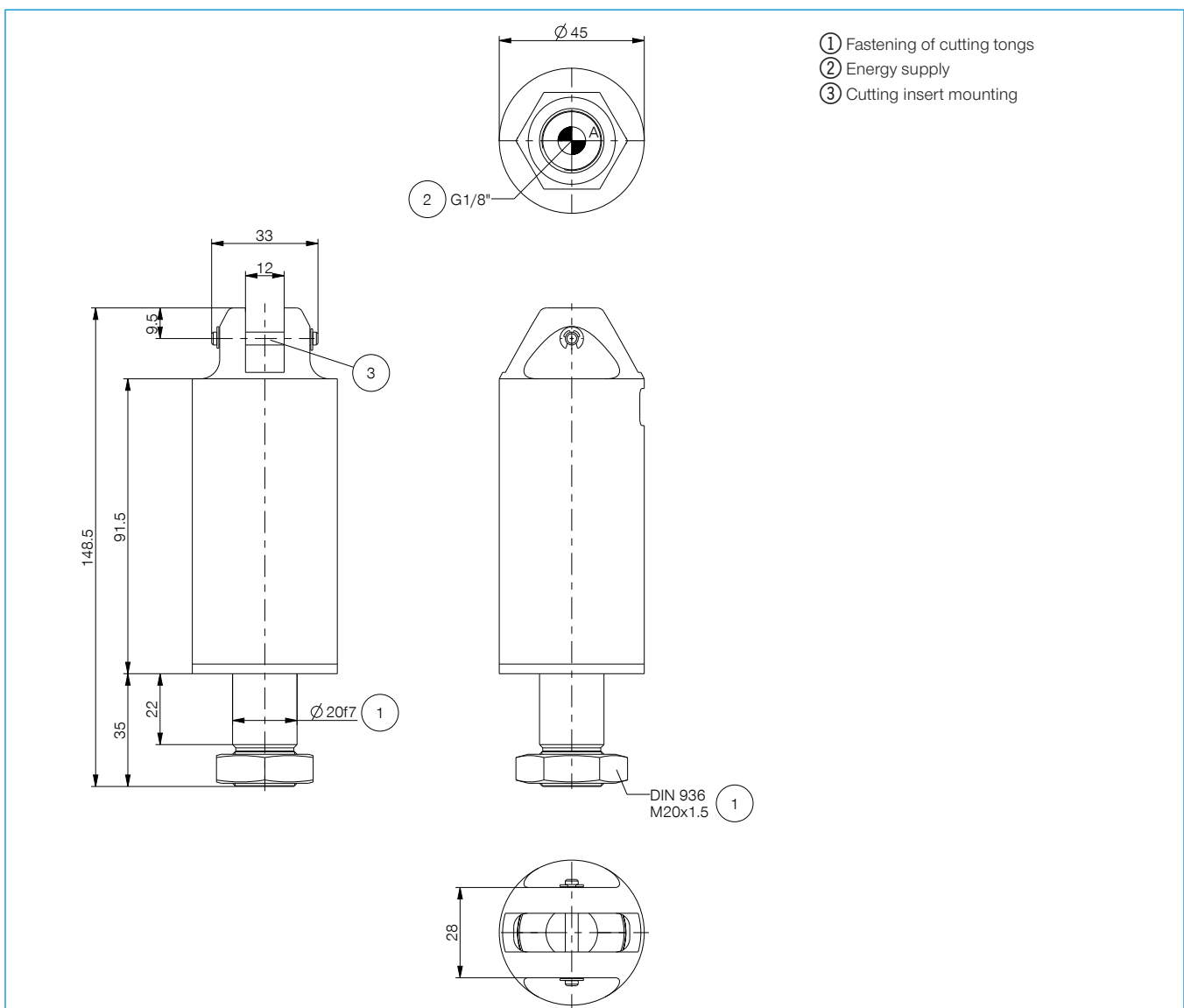


Cutting Insert 0° For Steel

BK1045-05

► Technical Data*	
Order no.	ZK1045
Stroke per jaw [°]	8.5
Gripping moment in closing [Nm]	98
Closing time [s]	0.06
Opening time [s]	0.2
Operating pressure min. [bar]	2
Operating pressure max. [bar]	6
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm ³]	32
Weight [kg]	0.24
Possible cutting diameters	
possible cut-Ø max. plastics [mm]	7
possible cut-Ø max. hard-plastic [mm]	5
possible cut-Ø max. copper [mm]	2.6
possible cut-Ø max. steel [mm]	2
possible cut-Ø max. piano wire [mm]	1

*All data measured at 6 bar



CUTTING TONGS

INSTALLATION SIZE ZK1065

▶ PRODUCT SPECIFICATIONS



▶ INCLUDED IN DELIVERY



Locking nut

C093620159

▶ RECOMMENDED ACCESSORIES



Sensor holder

KHD65



Magnetic field sensor
Straight Cable 5 m

MFS204KHC



Magnetic field sensor
Straight Cable 0,3 m -
Connector M8

MFS204SKHC



Straight Fittings - Quick
Connect Style

GV1-8X6



Angled Fittings - Quick
Connect Style

WV1-8X6



Cutting Insert 15° for
plastics

BK1065-01



Cutting Insert 0° For
Plastics

BK1065-02



Cutting Insert 30° For
Plastics

BK1065-03



Cutting Tong For Plastics

BK1065-04

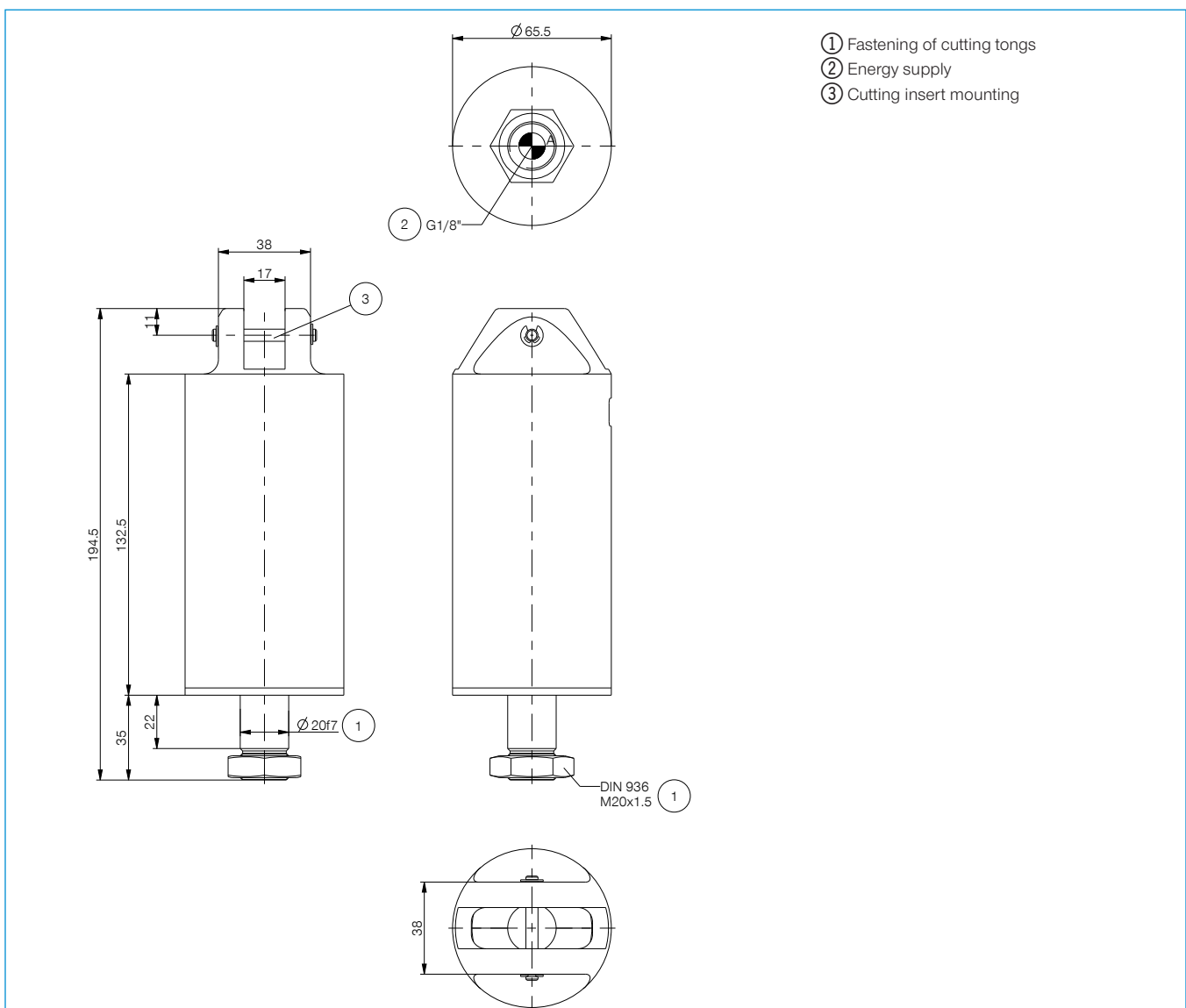


Cutting Insert 0° For Steel

BK1065-05

► Technical Data*	
Order no.	ZK1065
Stroke per jaw [°]	13
Gripping moment in closing [Nm]	400
Closing time [s]	0.1
Opening time [s]	0.4
Operating pressure min. [bar]	2
Operating pressure max. [bar]	6
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm ³]	130
Weight [kg]	0.67
Possible cutting diameters	
possible cut-Ø max. plastics [mm]	11
possible cut-Ø max. hard-plastic [mm]	8
possible cut-Ø max. copper [mm]	6
possible cut-Ø max. steel [mm]	4
possible cut-Ø max. piano wire [mm]	

*All data measured at 6 bar



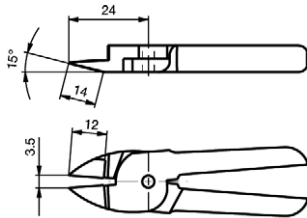
CUTTING TONGS

ZK1000 SERIES CUTTING INSERTS

▶ CUTTING INSERTS FOR ZK1030

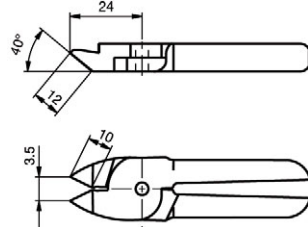
Cutting Insert 15° for plastics

BK1030-01



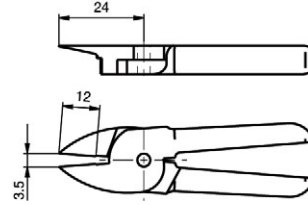
Cutting Insert 40° For Plastics

BK1030-02



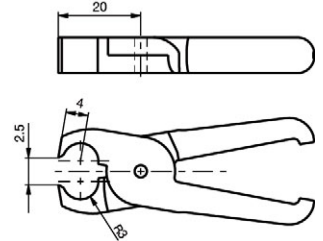
Cutting Insert 0° For Plastics

BK1030-03



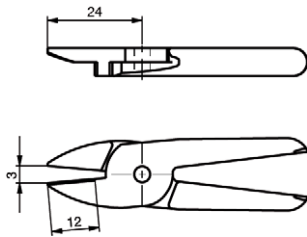
Cutting Tong For Plastics

BK1030-04



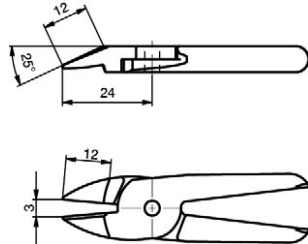
Cutting Insert 0° For Steel

BK1030-05



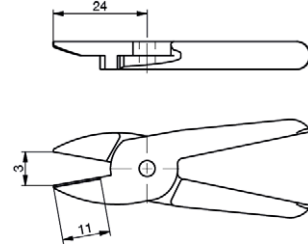
Cutting Insert 25° For Steel

BK1030-06



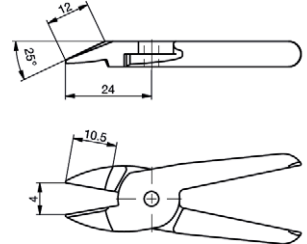
Carbide cutting insert 0° for steel

BK1030-07



Carbide Cutting Insert 25° For Steel

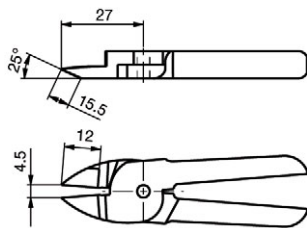
BK1030-08



▶ CUTTING INSERTS FOR ZK1036

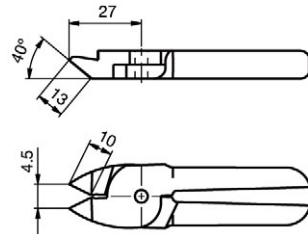
Cutting Insert 25° For Plastics

BK1036-01



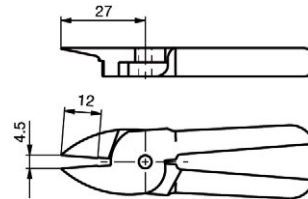
Cutting Insert 40° For Plastics

BK1036-02



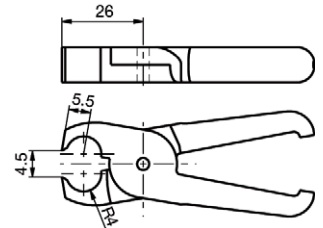
Cutting Insert 0° For Plastics

BK1036-03



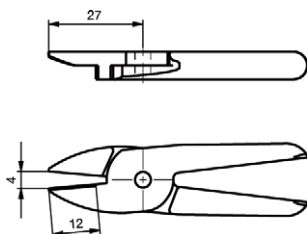
Cutting Tong For Plastics

BK1036-04



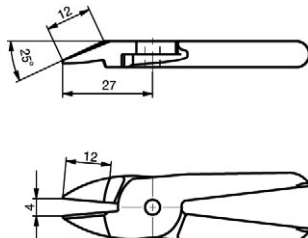
Cutting Insert 0° For Steel

BK1036-05



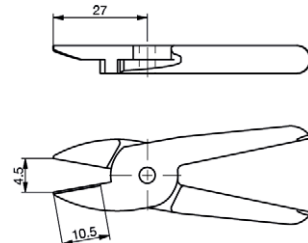
Cutting Insert 25° For Steel

BK1036-06



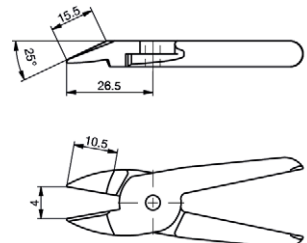
Carbide cutting insert 0° for steel

BK1036-07



Carbide Cutting Insert 25° For Steel

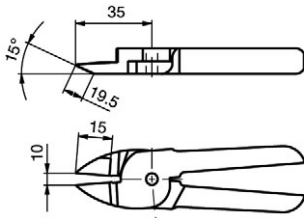
BK1036-08



▶ CUTTING INSERTS FOR ZK1045

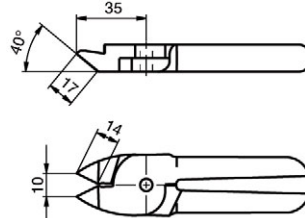
Cutting Insert 15° for plastics

BK1045-01



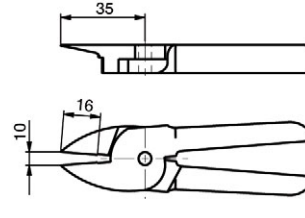
Cutting Insert 40° For Plastics

BK1045-02



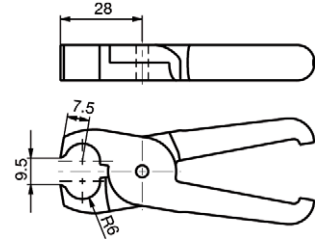
Cutting Insert 0° For Plastics

BK1045-03



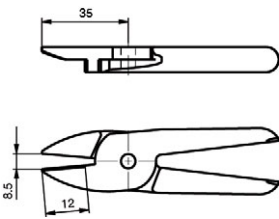
Cutting Tong For Plastics

BK1045-04



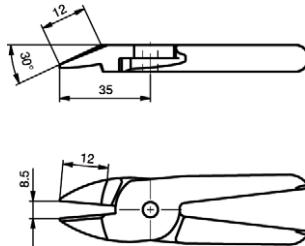
Cutting Insert 0° For Steel

BK1045-05



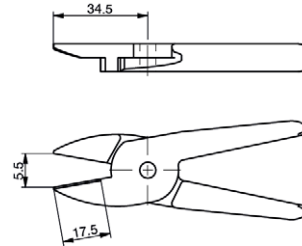
Cutting Insert 30° For Steel

BK1045-06



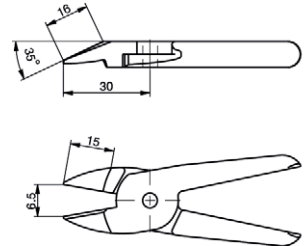
Carbide cutting insert 0° for steel

BK1045-07



Carbide Cutting Insert 35° For Steel

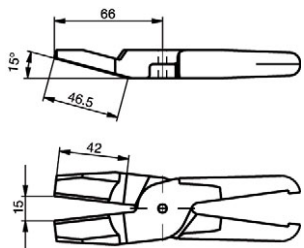
BK1045-08



▶ CUTTING INSERTS FOR ZK1065

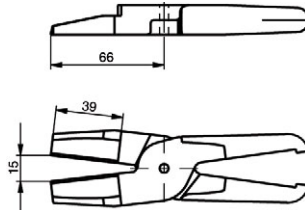
Cutting Insert 15° for plastics

BK1065-01



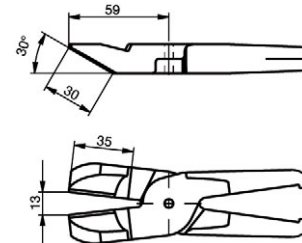
Cutting Insert 0° For Plastics

BK1065-02



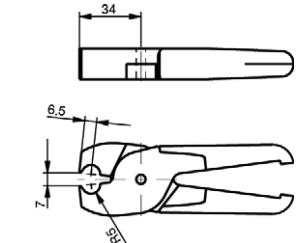
Cutting Insert 30° For Plastics

BK1065-03



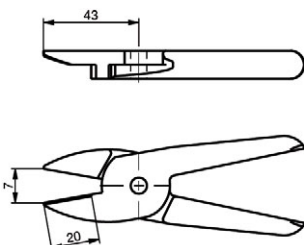
Cutting Tong For Plastics

BK1065-04



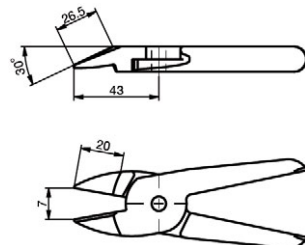
Cutting Insert 0° For Steel

BK1065-05



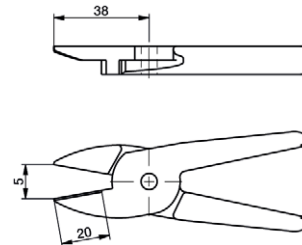
Cutting Insert 30° For Steel

BK1065-06



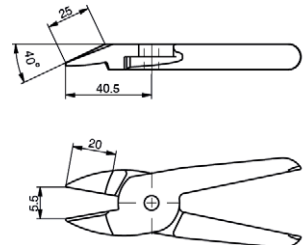
Carbide cutting insert 0° for steel

BK1065-07



Carbide Cutting Insert 40° For Steel

BK1065-08



CUTTING TONGS SERIES ZK

▶ PRODUCT ADVANTAGES



▶ Flat structure

Reduces the interference contours and enables simple integration into your machine design

▶ Decide for yourself!

The gripper jaw holder provides the option to adapt standard cutting, gripper jaws or your own design

▶ Failure-free continuous operation

Our uncompromising “Made in Germany” quality guarantees up to 5 million maintenance-free gripping cycles

▶ THE BEST PRODUCT FOR YOUR APPLICATION



▶ Our products love the challenge!

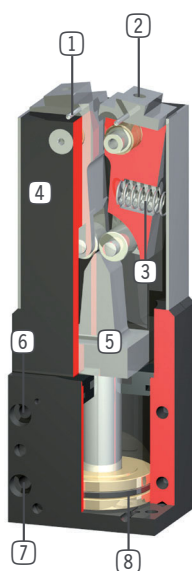
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Find the best product for your specific use:

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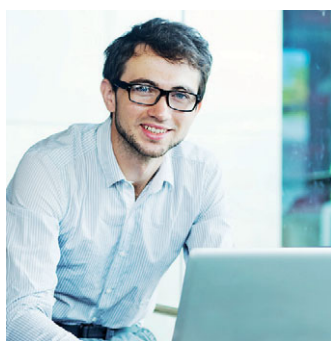


► BENEFITS IN DETAIL



- ① **Switch cam**
 - for position sensing
- ② **Mounting**
 - for individual jaws, knives, chucks and similar
- ③ **Integrated spring**
 - supports jaw return (ZK33)
- ④ **Robust, lightweight housing**
 - Hard-coated aluminum alloy
- ⑤ **Force transfer**
 - via wedge and rollers
- ⑥ **Mounting and positioning**
 - mounting possible from several sides for versatile positioning
- ⑦ **Energy supply**
 - possible from several sides
- ⑧ **Drive**
 - double-acting pneumatic cylinder

► FURTHER INFORMATION IS AVAILABLE ONLINE



► **Technical Information**

All information just a click away at: www.zimmer-group.com

Find data, illustrations, 3-D models and operating instructions for your installation size using the order number for your desired product.

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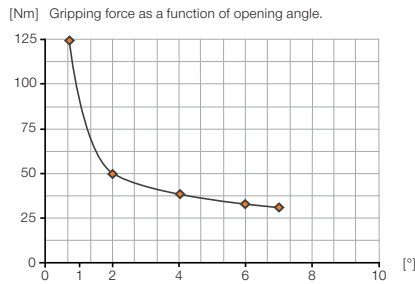
CUTTING TONGS

INSTALLATION SIZE ZK22

▶ PRODUCT SPECIFICATIONS

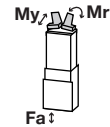


▶ Gripping moment diagram



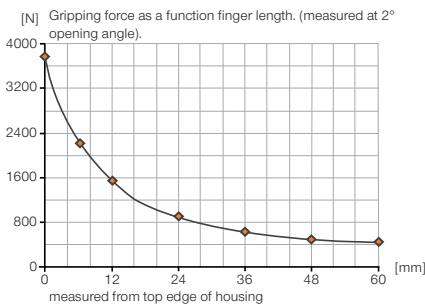
▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	20
My [Nm]	30
Fa [N]	600

▶ Gripping force diagram



▶ RECOMMENDED ACCESSORIES



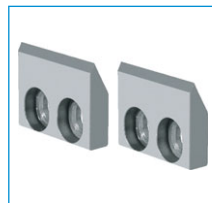
Universal Jaw Steel

UB22



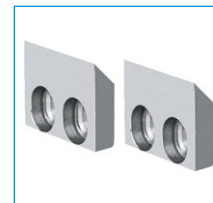
Cutter mounting set

BK22



Cutter set with double ground cutting edge

BK22-1



Cutter set with single ground cutting edge

BK22-2



Cutter set with shearing blades

BK22-3



Mounting block

KB3



Inductive proximity switch - Cable 5 m

NJ3-E2



Inductive Proximity Switch Cable 0,3 m - Connector M8

NJ3-E2SK



Straight Fittings - Quick Connect Style

GVM5



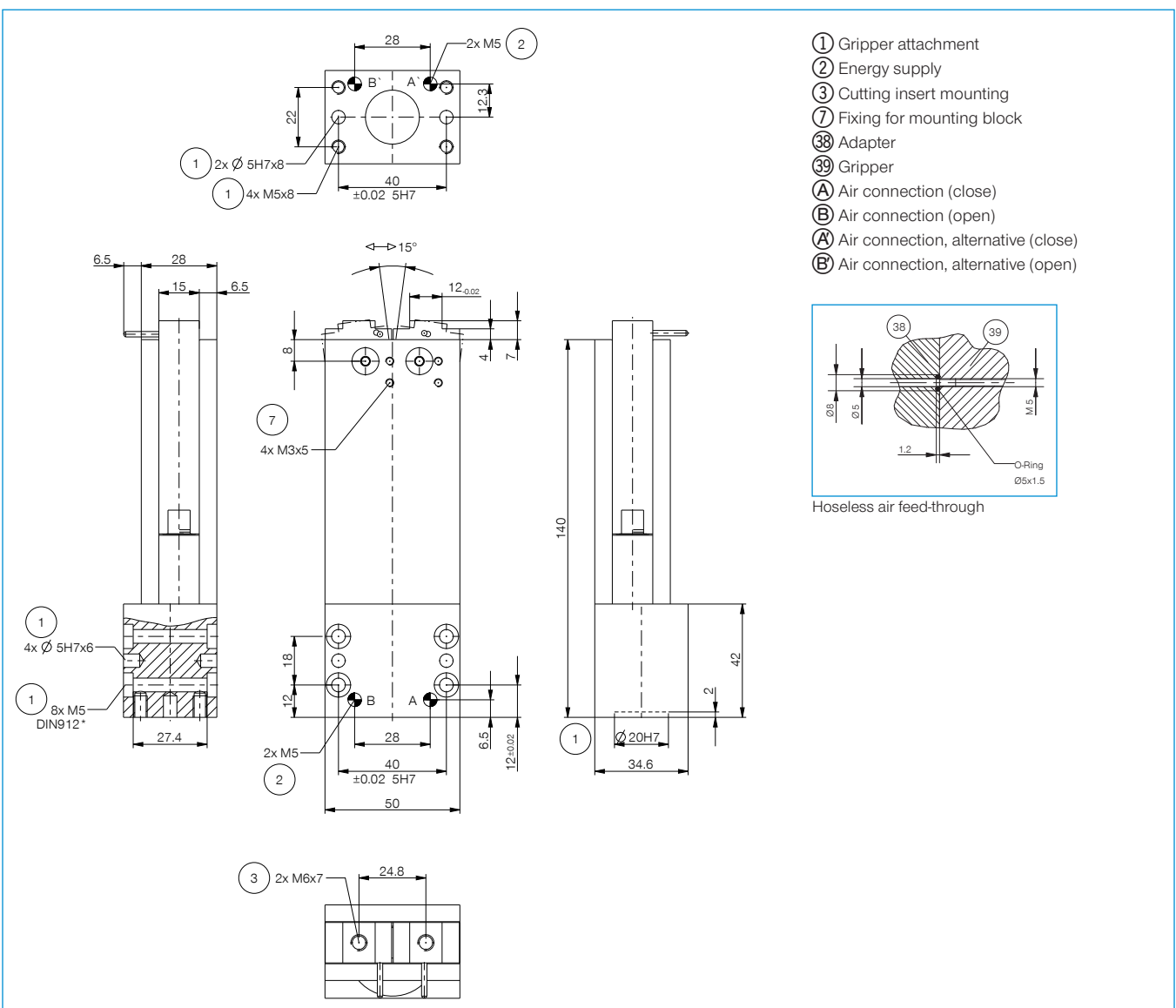
Angled Fittings - Quick Connect Style

WVM5

Order no.	ZK22
Stroke per jaw [°]	7.5
Gripping moment in closing [Nm]	54
Gripping force in closing [N]	3600
Closing time [s]	0.15
Opening time [s]	0.15
Repetition accuracy +/- [mm]	0.1
Operating pressure min. [bar]	3
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm³]	10
Weight [kg]	0.79

*All data measured at 6 bar

► Technical Data*



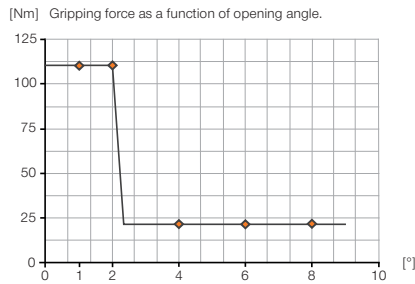
CUTTING TONGS

INSTALLATION SIZE ZK33

▶ PRODUCT SPECIFICATIONS

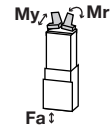


▶ Gripping moment diagram



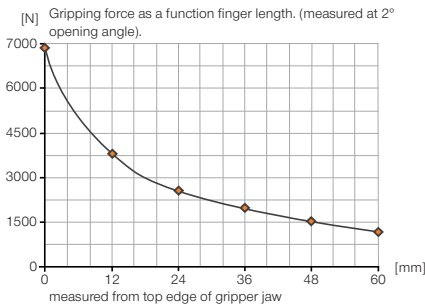
▶ Forces and moments

Displays static forces and moments that can also have an effect, besides the gripping force.



Mr [Nm]	26
My [Nm]	40
Fa [N]	720

▶ Gripping force diagram



▶ RECOMMENDED ACCESSORIES



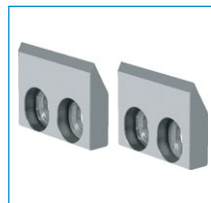
Universal Jaw Steel

UB22



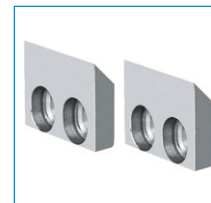
Cutter mounting set

BK22



Cutter set with double ground cutting edge

BK22-1



Cutter set with single ground cutting edge

BK22-2



Cutter set with shearing blades

BK22-3



Mounting block

KB3



Inductive proximity switch - Cable 5 m

NJ3-E2



Inductive Proximity Switch Cable 0,3 m - Connector M8

NJ3-E2SK



Straight Fittings - Quick Connect Style

GVM5

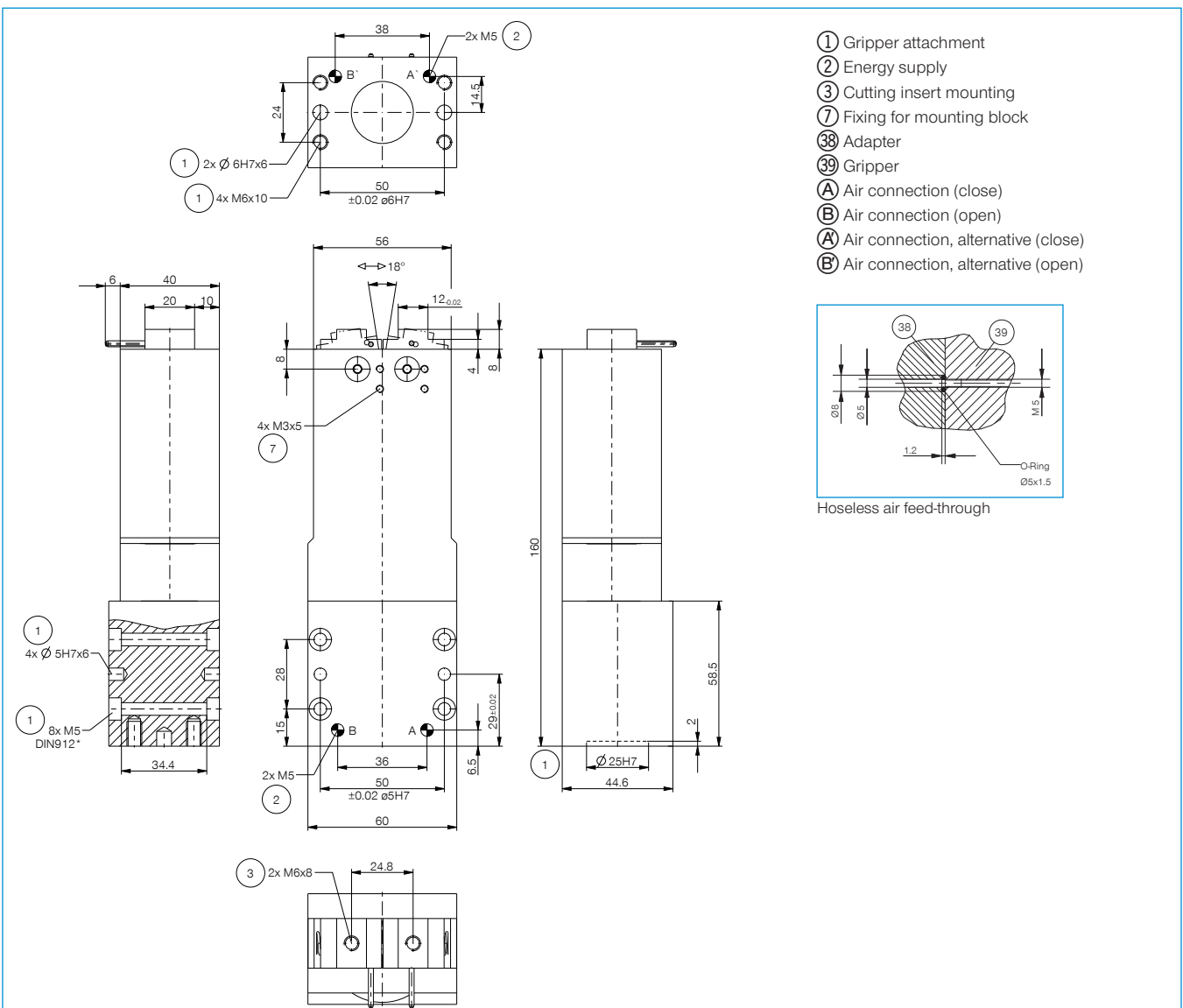


Angled Fittings - Quick Connect Style

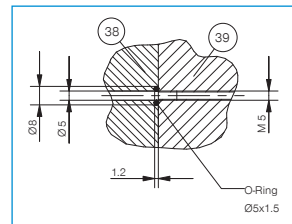
WVM5

► Technical Data*	
Order no.	ZK33
Stroke per jaw [°]	9
Gripping moment in closing [Nm]	110
Gripping force in closing [N]	6800
Closing time [s]	0.2
Opening time [s]	0.2
Repetition accuracy +/- [mm]	0.1
Operating pressure min. [bar]	3
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm³]	73
Weight [kg]	1.3

*All data measured at 6 bar

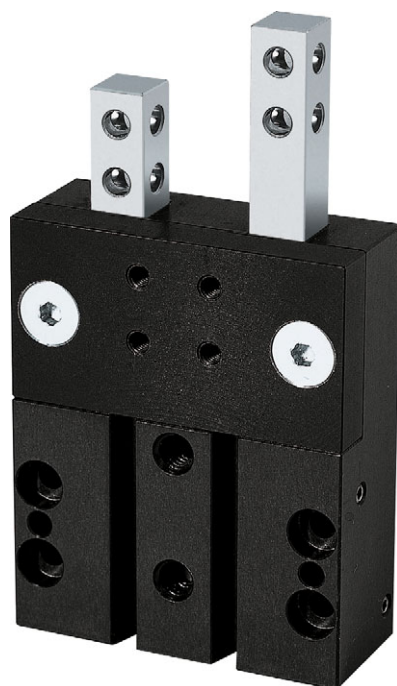


- ① Gripper attachment
- ② Energy supply
- ③ Cutting insert mounting
- ⑦ Fixing for mounting block
- ③⑧ Adapter
- ③⑨ Gripper
- Ⓐ Air connection (close)
- Ⓑ Air connection (open)
- Ⓐ' Air connection, alternative (close)
- Ⓑ' Air connection, alternative (open)



SEPARATORS

OVERVIEW OF SERIES



▶ PNEUMATIC



Series VEG

806



Series VE

818

SEPARATORS

SERIES VEG

▶ PRODUCT ADVANTAGES



▶ **Hardened stainless steel guide**

This guide is robust, reliable and durable: Exactly what you need for your application!

▶ **Decide for yourself!**

Sensing via magnetic field sensors or inductive proximity switches: Unlike the benchmark, you are free to choose!

▶ **Failure-free continuous operation**

Our uncompromising “Made in Germany” quality guarantees up to 10 million maintenance-free cycles

▶ THE BEST PRODUCT FOR YOUR APPLICATION



▶ **Our products love the challenge!**

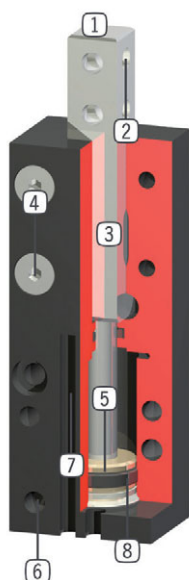
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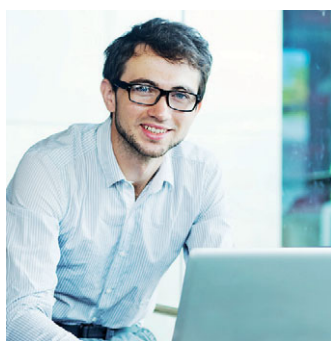


► BENEFITS IN DETAIL



- ① **Tapped rod**
 - hardened steel
- ② **Mounting**
 - individual separator finger mounting
- ③ **Square guide**
 - rugged, high forces and moments capacity
- ④ **Mounting and positioning**
 - mounting possible from several sides for versatile positioning
- ⑤ **Drive**
 - double-acting pneumatic cylinder
- ⑥ **Energy supply**
- ⑦ **Sensing**
 - groove for positioning of the magnetic field sensor
- ⑧ **Permanent magnet**
 - installed in piston area

► FURTHER INFORMATION IS AVAILABLE ONLINE



► **Technical Information**

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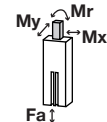
INSTALLATION SIZE VEG10

▶ PRODUCT SPECIFICATIONS



▶ Forces and moments

Shows static forces and torques that may be present on the plunger



Mr [Nm]	3
My [Nm]	3
Mx [Nm]	3
Fa [N]	75

▶ RECOMMENDED ACCESSORIES



Mounting block

KB8-20



Inductive proximity switch
- Cable 5 m

NJ8-E2



Inductive proximity switch
- Connector M8

NJ8-E2S



Magnetic field sensor
Angled Cable 5 m

MFS103KHC



Magnetic field sensor Angled
Cable 0,3 m - Connector M8

MFS103SKHC



Magnetic field sensor
Straight Cable 5 m

MFS204KHC



Magnetic field sensor Straight
Cable 0,3 m - Connector M8

MFS204SKHC



Plug-in connector Straight Ca-
ble 5m - Socket M8 (female)

KAG500



Plug-in connector Angled Ca-
ble 5m - Socket M8 (female)

KAW500



Straight Fittings - Quick
Connect Style

GVM5



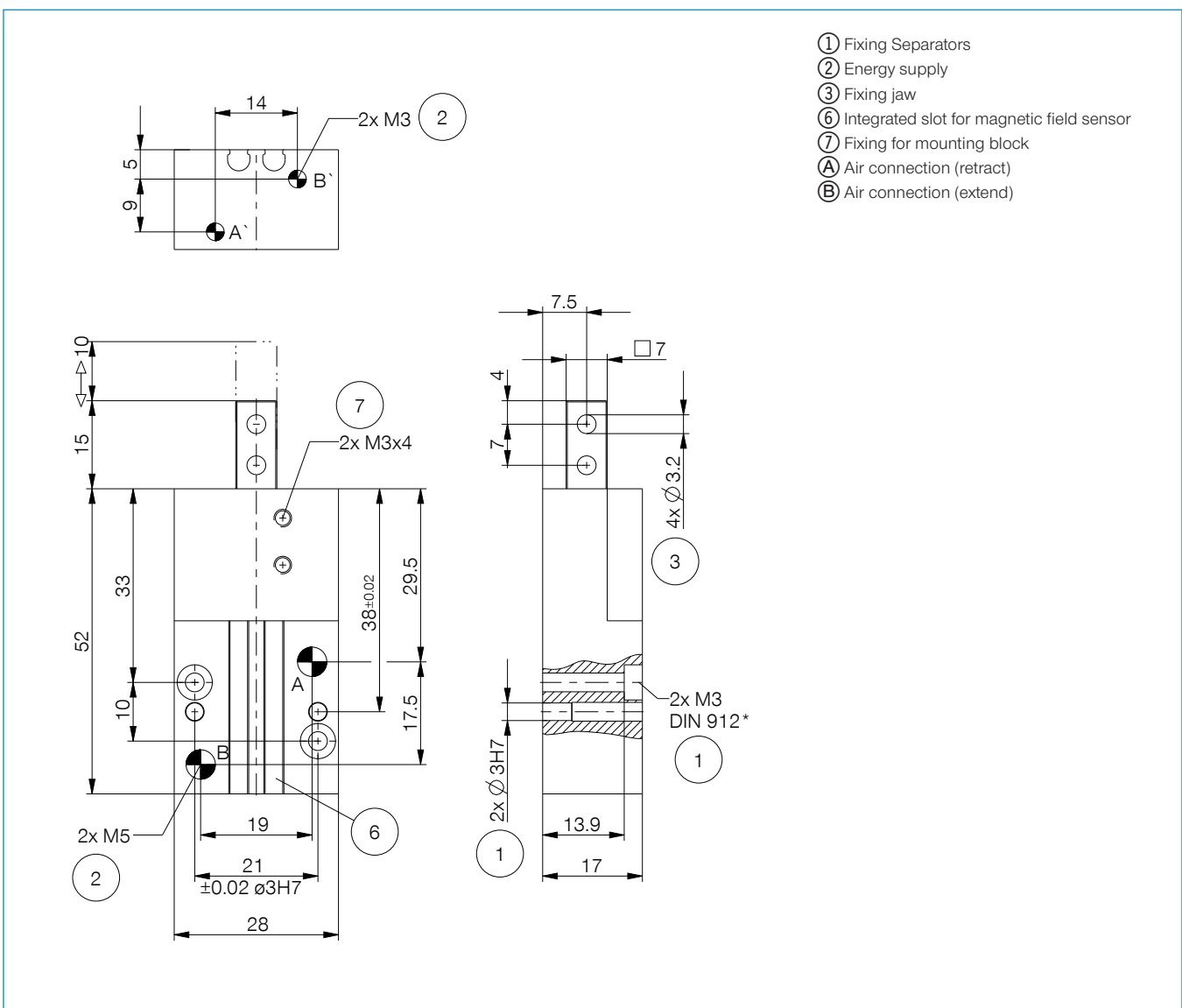
Angled Fittings - Quick
Connect Style

WVM5

Order no.	VEG10-B
Stroke per tapped rod [mm]	10
Force in retract [N]	30
Force in extend [N]	40
Cycle count [s]	0.04
Repetition accuracy +/- [mm]	0.05
Operating pressure min. [bar]	3
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm³]	1.5
Weight [kg]	0.075

*All data measured at 6 bar

► Technical Data*



SEPARATORS

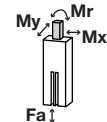
INSTALLATION SIZE VEG14

▶ PRODUCT SPECIFICATIONS



▶ Forces and moments

Shows static forces and torques that may be present on the plunger



Mr [Nm]	5
My [Nm]	5
Mx [Nm]	5
Fa [N]	100

▶ RECOMMENDED ACCESSORIES



Mounting block

KB8-20



Inductive proximity switch
- Cable 5 m

NJ8-E2



Inductive proximity switch
- Connector M8

NJ8-E2S



Magnetic field sensor
Angled Cable 5 m

MFS103KHC



Magnetic field sensor Angled
Cable 0,3 m - Connector M8

MFS103SKHC



Magnetic field sensor
Straight Cable 5 m

MFS204KHC



Magnetic field sensor Straight
Cable 0,3 m - Connector M8

MFS204SKHC



Plug-in connector Straight Ca-
ble 5m - Socket M8 (female)

KAG500



Plug-in connector Angled Ca-
ble 5m - Socket M8 (female)

KAW500



Straight Fittings - Quick
Connect Style

GVM5

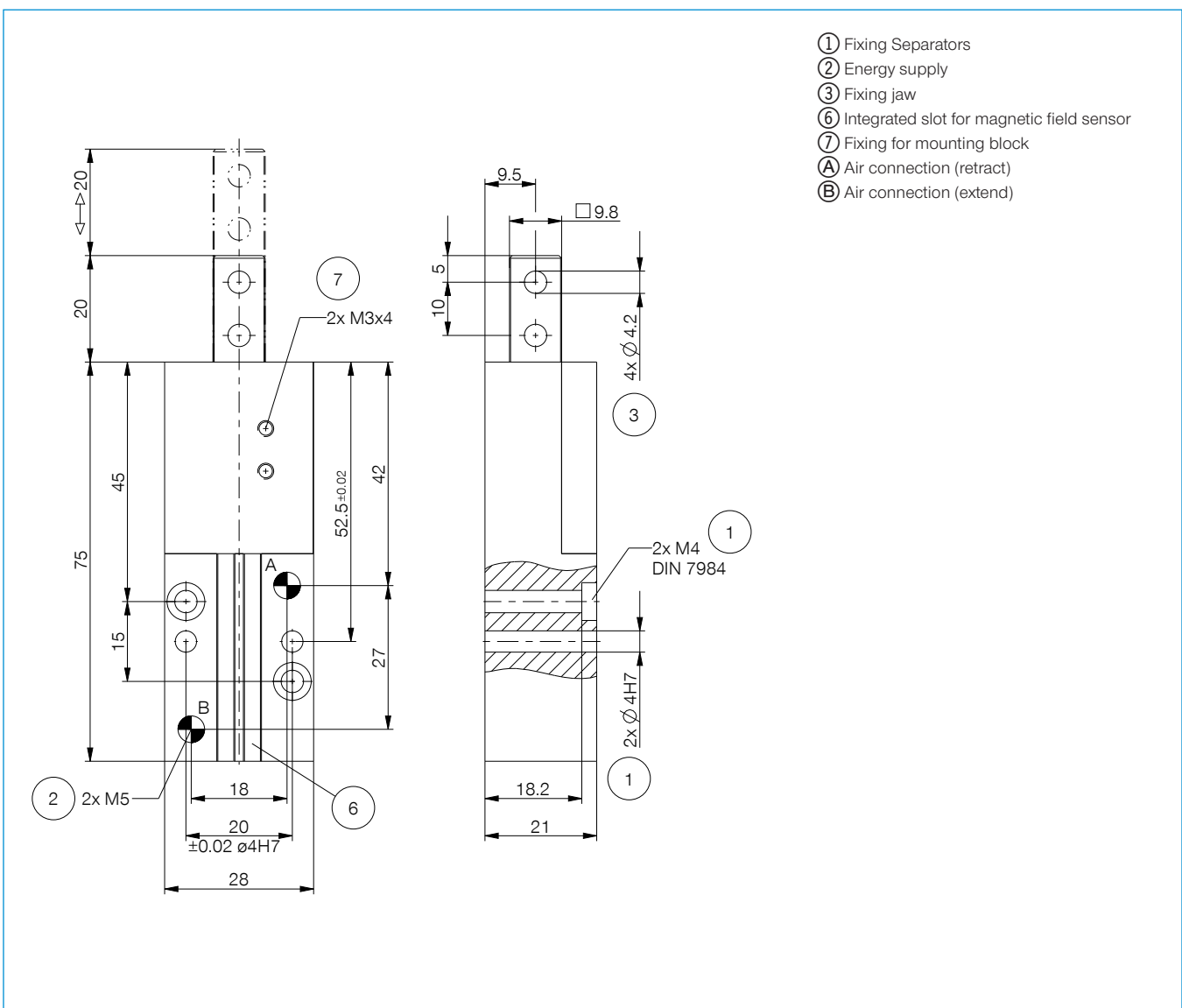


Angled Fittings - Quick
Connect Style

WVM5

Order no.	VEG14-B
Stroke per tapped rod [mm]	20
Force in retract [N]	65
Force in extend [N]	80
Cycle count [s]	0.04
Repetition accuracy +/- [mm]	0.05
Operating pressure min. [bar]	3
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm ³]	6
Weight [kg]	0.142

*All data measured at 6 bar



- ① Fixing Separators
- ② Energy supply
- ③ Fixing jaw
- ⑥ Integrated slot for magnetic field sensor
- ⑦ Fixing for mounting block
- Ⓐ Air connection (retract)
- Ⓑ Air connection (extend)

SEPARATORS

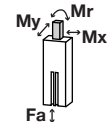
INSTALLATION SIZE VEG15

▶ PRODUCT SPECIFICATIONS



▶ Forces and moments

Shows static forces and torques that may be present on the plunger



Mr [Nm]	5
My [Nm]	5
Mx [Nm]	5
Fa [N]	100

▶ RECOMMENDED ACCESSORIES



Mounting block

KB8-20



Inductive proximity switch
- Cable 5 m

NJ8-E2



Inductive proximity switch
- Connector M8

NJ8-E2S



Magnetic field sensor
Angled Cable 5 m

MFS103KHC



Magnetic field sensor Angled
Cable 0,3 m - Connector M8

MFS103SKHC



Magnetic field sensor
Straight Cable 5 m

MFS204KHC



Magnetic field sensor Straight
Cable 0,3 m - Connector M8

MFS204SKHC



Plug-in connector Straight Ca-
ble 5m - Socket M8 (female)

KAG500



Plug-in connector Angled Ca-
ble 5m - Socket M8 (female)

KAW500



Straight Fittings - Quick
Connect Style

GVM5

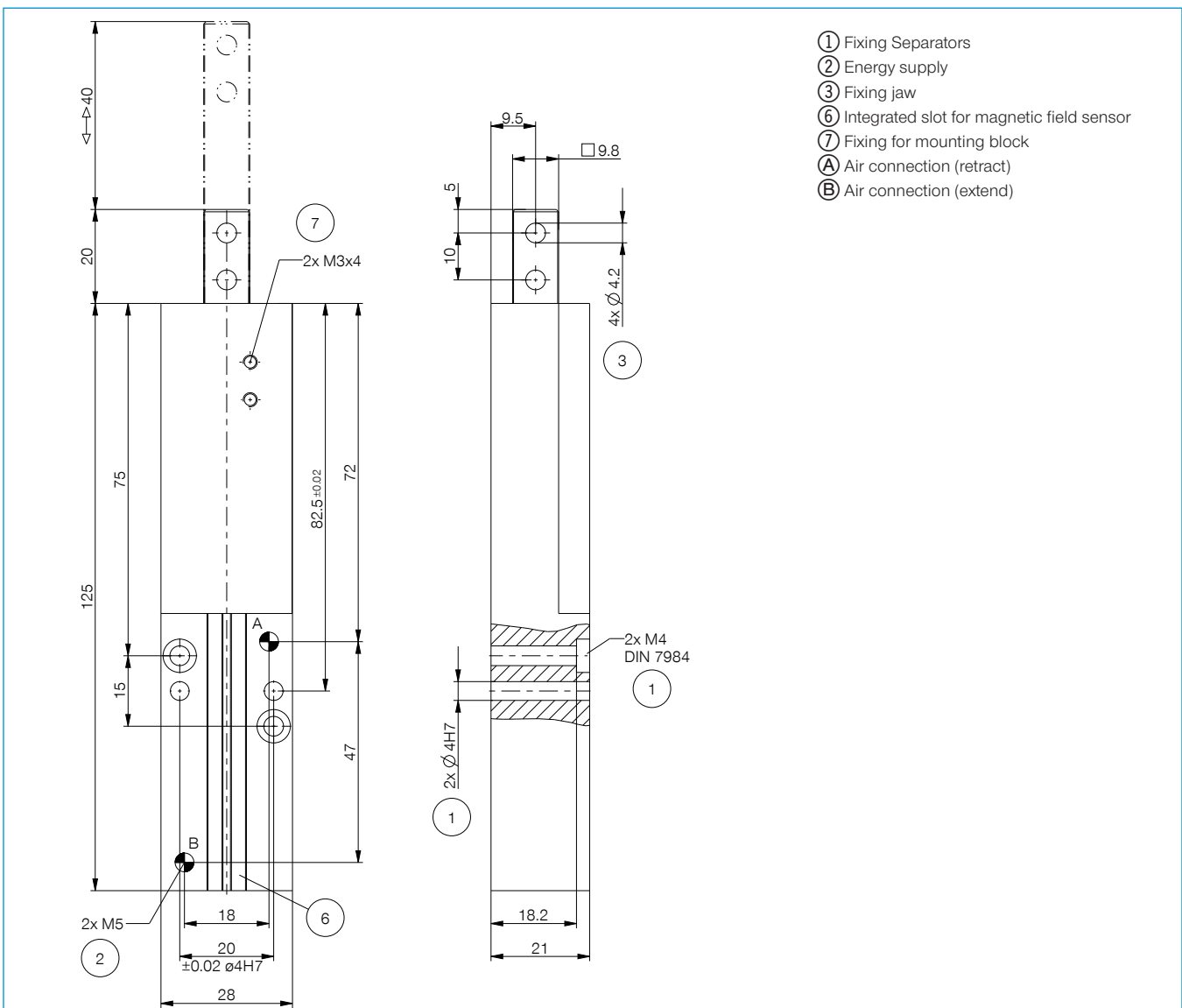


Angled Fittings - Quick
Connect Style

WVM5

Order no.	VEG15-B
Stroke per tapped rod [mm]	40
Force in retract [N]	65
Force in extend [N]	80
Cycle count [s]	0.1
Repetition accuracy +/- [mm]	0.05
Operating pressure min. [bar]	3
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm³]	11
Weight [kg]	0.2

*All data measured at 6 bar



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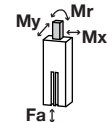
INSTALLATION SIZE VEG22

▶ PRODUCT SPECIFICATIONS



▶ Forces and moments

Shows static forces and torques that may be present on the plunger



Mr [Nm]	9
My [Nm]	9
Mx [Nm]	9
Fa [N]	180

▶ RECOMMENDED ACCESSORIES



Mounting block

KB8-20



Inductive proximity switch
- Cable 5 m

NJ8-E2



Inductive proximity switch
- Connector M8

NJ8-E2S



Magnetic field sensor
Angled Cable 5 m

MFS103KHC



Magnetic field sensor Angled
Cable 0,3 m - Connector M8

MFS103SKHC



Magnetic field sensor
Straight Cable 5 m

MFS204KHC



Magnetic field sensor Straight
Cable 0,3 m - Connector M8

MFS204SKHC



Plug-in connector Straight Ca-
ble 5m - Socket M8 (female)

KAG500



Plug-in connector Angled Ca-
ble 5m - Socket M8 (female)

KAW500



Straight Fittings - Quick
Connect Style

GVM5

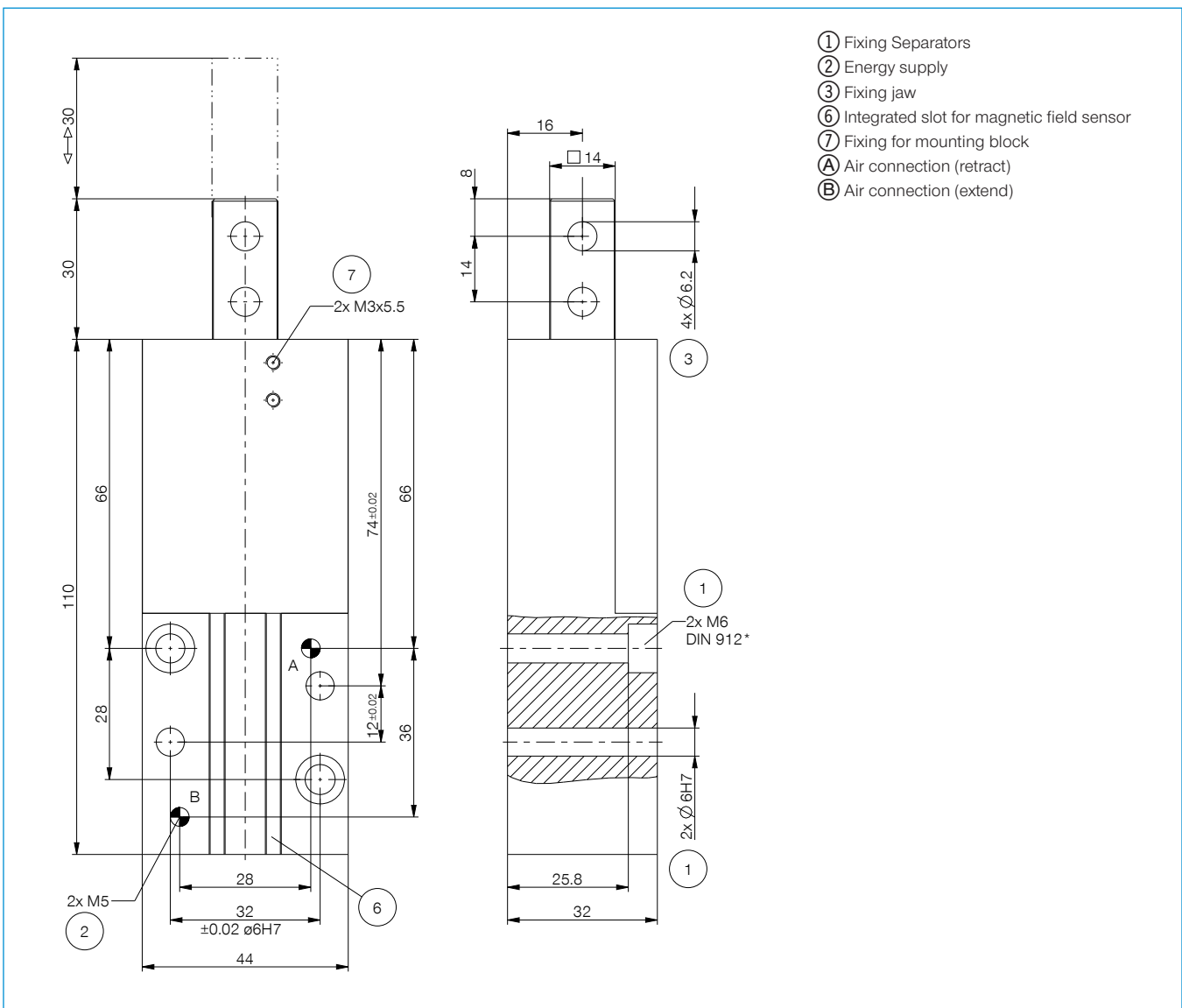


Angled Fittings - Quick
Connect Style

WVM5

Order no.	VEG22-B
Stroke per tapped rod [mm]	30
Force in retract [N]	170
Force in extend [N]	220
Cycle count [s]	0.08
Repetition accuracy +/- [mm]	0.05
Operating pressure min. [bar]	3
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm³]	20
Weight [kg]	0.5

*All data measured at 6 bar



SEPARATORS

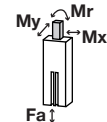
INSTALLATION SIZE VEG23

▶ PRODUCT SPECIFICATIONS



▶ Forces and moments

Shows static forces and torques that may be present on the plunger



Mr [Nm]	9
My [Nm]	9
Mx [Nm]	9
Fa [N]	180

▶ RECOMMENDED ACCESSORIES



Mounting block

KB8-20



Inductive proximity switch
- Cable 5 m

NJ8-E2



Inductive proximity switch
- Connector M8

NJ8-E2S



Magnetic field sensor
Angled Cable 5 m

MFS103KHC



Magnetic field sensor Angled
Cable 0,3 m - Connector M8

MFS103SKHC



Magnetic field sensor
Straight Cable 5 m

MFS204KHC



Magnetic field sensor Straight
Cable 0,3 m - Connector M8

MFS204SKHC



Plug-in connector Straight Ca-
ble 5m - Socket M8 (female)

KAG500



Plug-in connector Angled Ca-
ble 5m - Socket M8 (female)

KAW500



Straight Fittings - Quick
Connect Style

GVM5

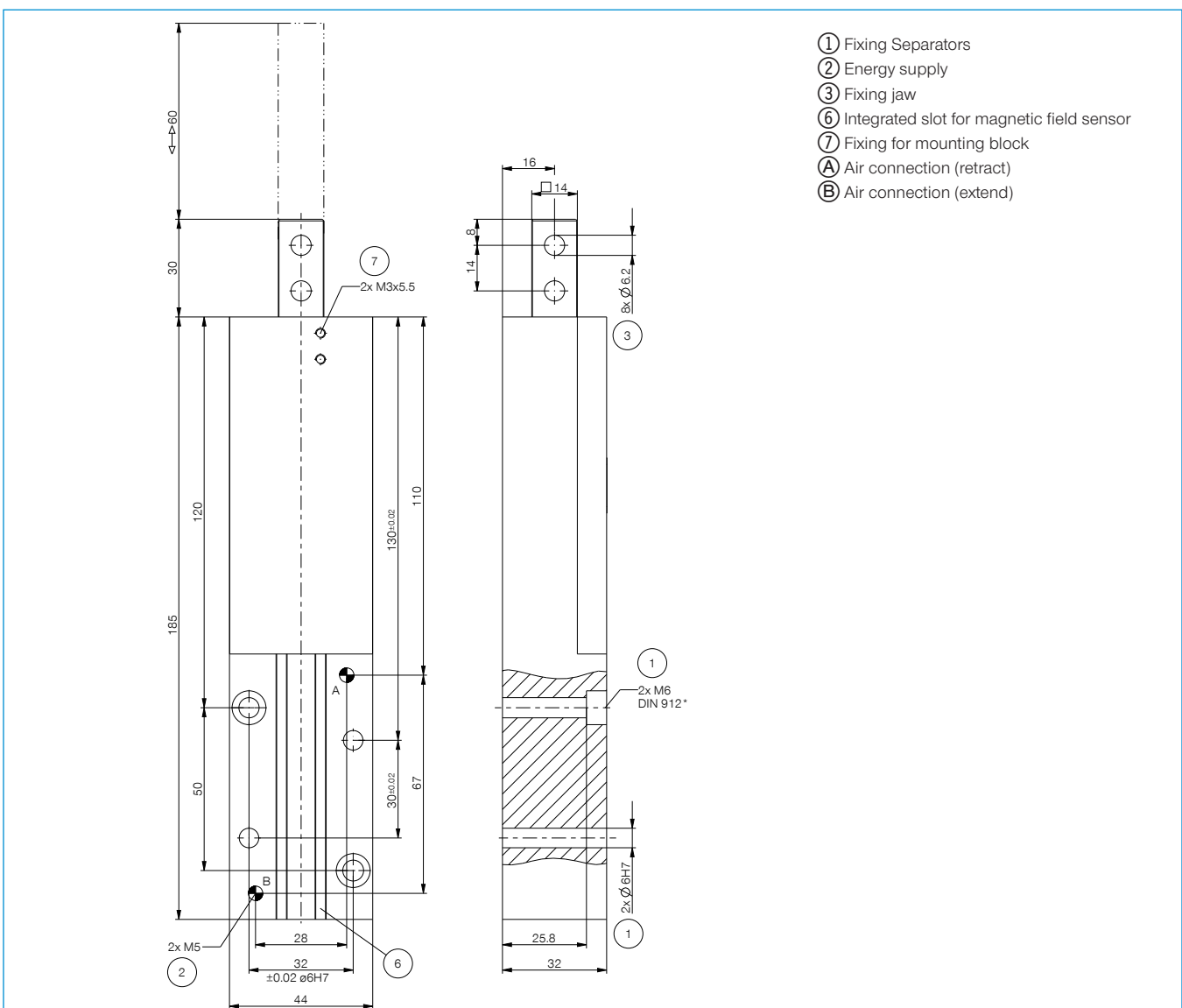


Angled Fittings - Quick
Connect Style

WVM5

Order no.	VEG23-B
Stroke per tapped rod [mm]	60
Force in retract [N]	170
Force in extend [N]	220
Cycle count [s]	0.12
Repetition accuracy +/- [mm]	0.05
Operating pressure min. [bar]	3
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm ³]	42
Weight [kg]	0.75

*All data measured at 6 bar



- ① Fixing Separators
- ② Energy supply
- ③ Fixing jaw
- ⑥ Integrated slot for magnetic field sensor
- ⑦ Fixing for mounting block
- A Air connection (retract)
- B Air connection (extend)

SEPARATORS

SERIES VE

▶ PRODUCT ADVANTAGES



▶ **Mechanical forced control**

Guarantees process reliability for your application since only one workpiece can be separated and guided through at a time

▶ **Decide for yourself!**

Sensing via magnetic field sensors or inductive proximity switches: Unlike the benchmark, you are free to choose!

▶ **Failure-free continuous operation**

Our uncompromising “Made in Germany” quality guarantees up to 10 million maintenance-free cycles

▶ THE BEST PRODUCT FOR YOUR APPLICATION



▶ **Our products love the challenge!**

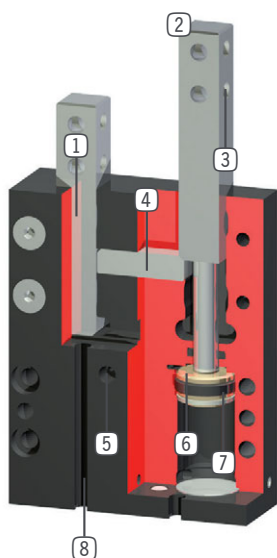
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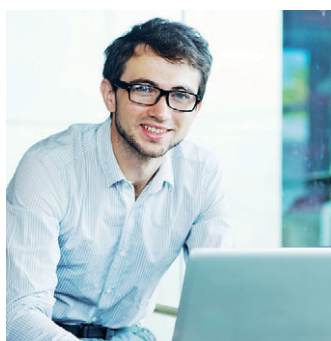


► BENEFITS IN DETAIL



- ① **Square guide**
 - rugged, high forces and moments capacity
- ② **Tapped rod**
 - hardened steel
- ③ **Mounting**
 - individual separator finger mounting
- ④ **Locking**
 - integrated, mechanical locking
- ⑤ **Energy supply**
 - possible from several sides
- ⑥ **Drive**
 - two double-acting pneumatic cylinders
- ⑦ **Permanent magnet**
 - installed in piston area
- ⑧ **Sensing**
 - groove for positioning of the magnetic field sensor

► FURTHER INFORMATION IS AVAILABLE ONLINE



► **Technical Information**

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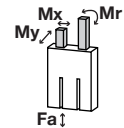
INSTALLATION SIZE VE10

▶ PRODUCT SPECIFICATIONS



▶ Forces and moments

Shows static forces and torques that may be present on the plunger



Mr [Nm]	3
My [Nm]	3
Mx [Nm]	3
Fa [N]	75

▶ RECOMMENDED ACCESSORIES



Mounting block

KB8-20



Inductive proximity switch
- Cable 5 m

NJ8-E2



Inductive proximity switch
- Connector M8

NJ8-E2S



Magnetic field sensor
Angled Cable 5 m

MFS103KHC



Magnetic field sensor Angled
Cable 0,3 m - Connector M8

MFS103SKHC



Magnetic field sensor
Straight Cable 5 m

MFS204KHC



Magnetic field sensor Straight
Cable 0,3 m - Connector M8

MFS204SKHC



Plug-in connector Straight Ca-
ble 5m - Socket M8 (female)

KAG500



Plug-in connector Angled Ca-
ble 5m - Socket M8 (female)

KAW500



Straight Fittings - Quick
Connect Style

GVM5

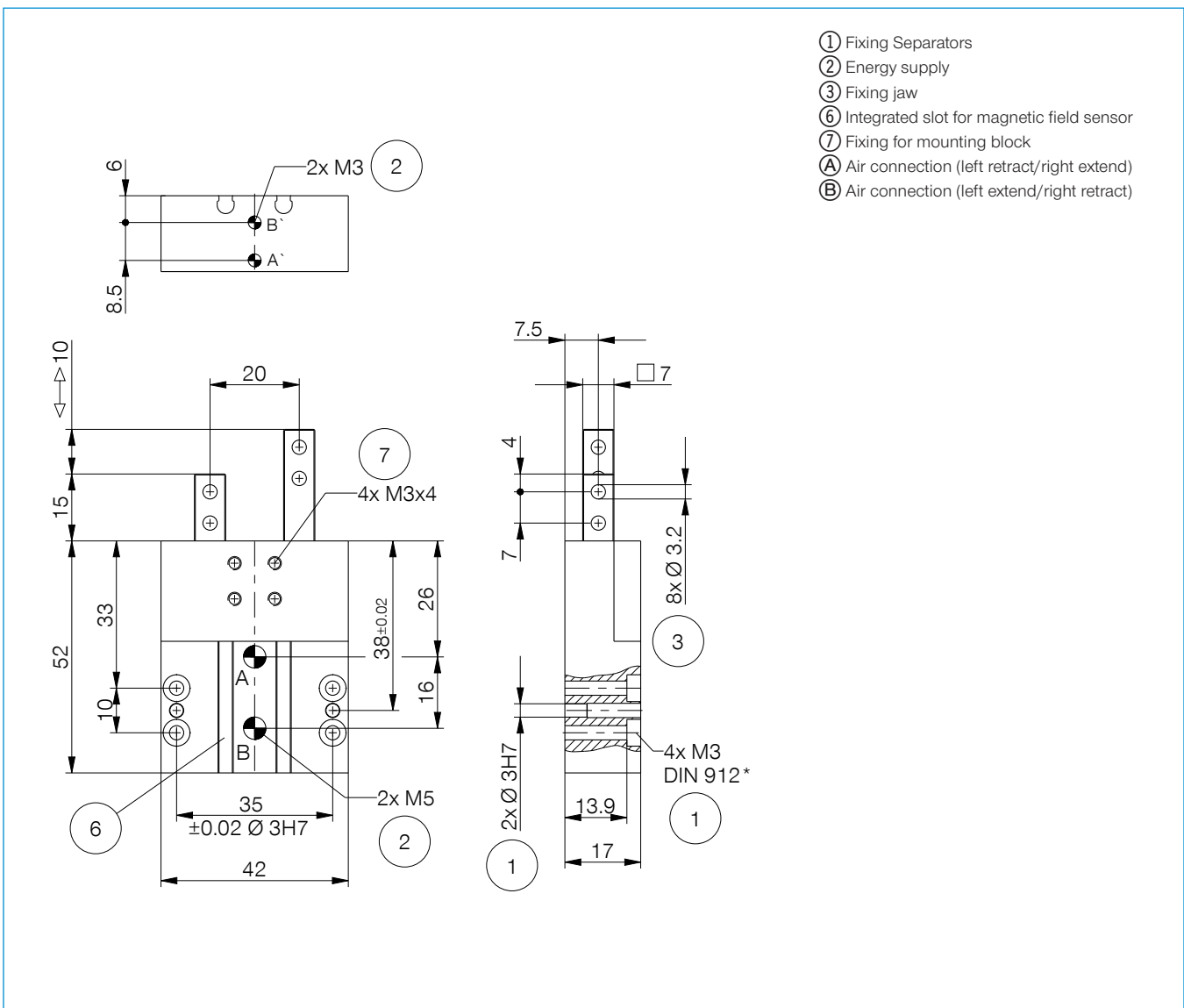


Angled Fittings - Quick
Connect Style

WVM5

Order no.	VE10-B
Stroke per tapped rod [mm]	10
Force in retract [N]	30
Force in extend [N]	40
Self locking mechanism	mechanical
Cycle count [s]	0.04
Repetition accuracy +/- [mm]	0.05
Operating pressure min. [bar]	3
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm³]	3
Weight [kg]	0.12

*All data measured at 6 bar



SEPARATORS

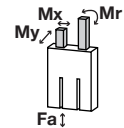
INSTALLATION SIZE VE14

▶ PRODUCT SPECIFICATIONS



▶ Forces and moments

Shows static forces and torques that may be present on the plunger



Mr [Nm]	5
My [Nm]	5
Mx [Nm]	5
Fa [N]	100

▶ RECOMMENDED ACCESSORIES



Mounting block

KB8-20



Inductive proximity switch
- Cable 5 m

NJ8-E2



Inductive proximity switch
- Connector M8

NJ8-E2S



Magnetic field sensor
Angled Cable 5 m

MFS103KHC



Magnetic field sensor Angled
Cable 0,3 m - Connector M8

MFS103SKHC



Magnetic field sensor
Straight Cable 5 m

MFS204KHC



Magnetic field sensor Straight
Cable 0,3 m - Connector M8

MFS204SKHC



Plug-in connector Straight Ca-
ble 5m - Socket M8 (female)

KAG500



Plug-in connector Angled Ca-
ble 5m - Socket M8 (female)

KAW500



Straight Fittings - Quick
Connect Style

GVM5

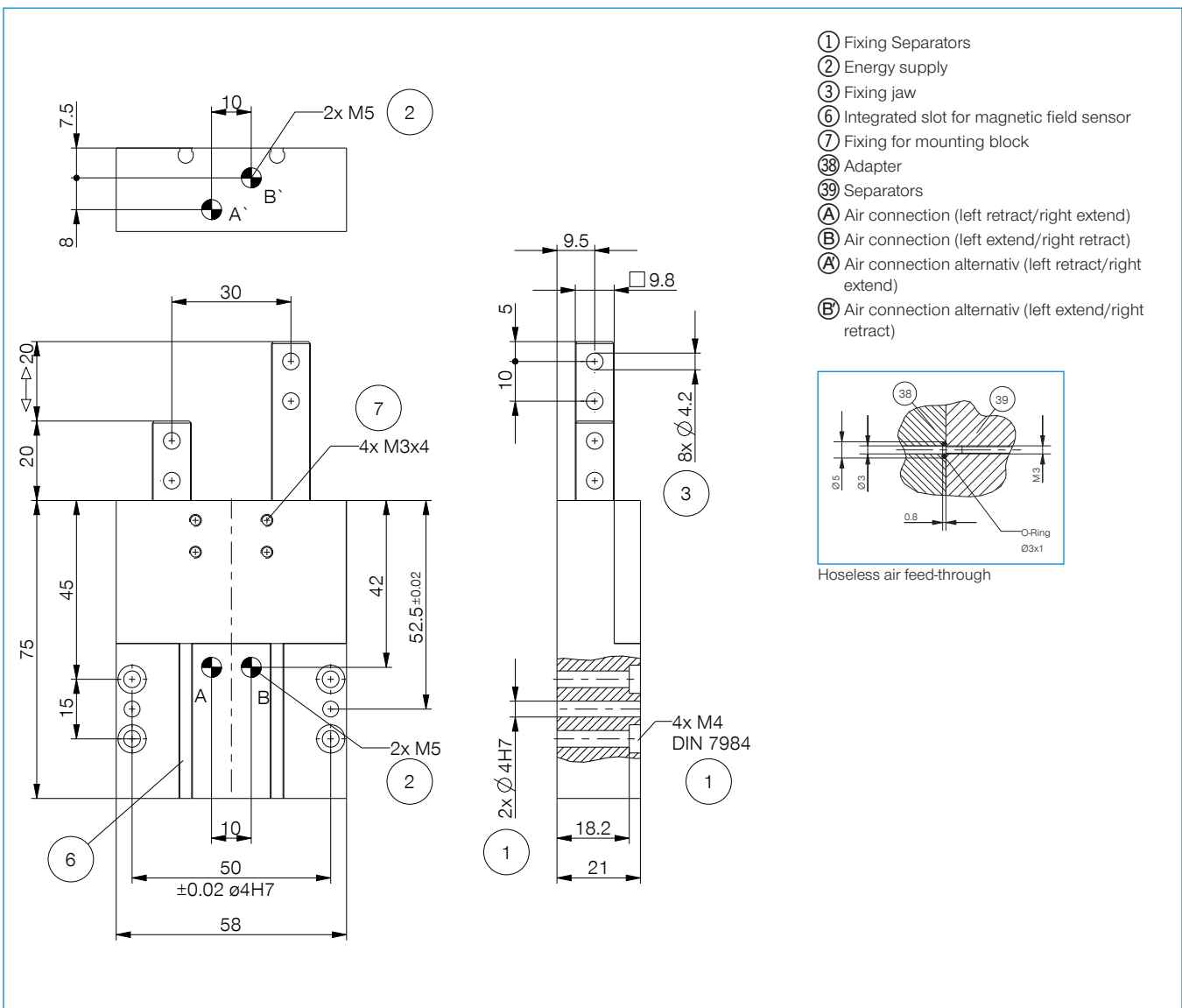


Angled Fittings - Quick
Connect Style

WVM5

Order no.	VE14-B
Stroke per tapped rod [mm]	20
Force in retract [N]	65
Force in extend [N]	80
Self locking mechanism	mechanical
Cycle count [s]	0.05
Repetition accuracy +/- [mm]	0.1
Operating pressure min. [bar]	3
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm³]	11
Weight [kg]	0.3

*All data measured at 6 bar



SEPARATORS

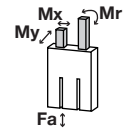
INSTALLATION SIZE VE15

▶ PRODUCT SPECIFICATIONS



▶ Forces and moments

Shows static forces and torques that may be present on the plunger



Mr [Nm]	5
My [Nm]	5
Mx [Nm]	5
Fa [N]	100

▶ RECOMMENDED ACCESSORIES



Mounting block

KB8-20



Inductive proximity switch
- Cable 5 m

NJ8-E2



Inductive proximity switch
- Connector M8

NJ8-E2S



Magnetic field sensor
Angled Cable 5 m

MFS103KHC



Magnetic field sensor Angled
Cable 0,3 m - Connector M8

MFS103SKHC



Magnetic field sensor
Straight Cable 5 m

MFS204KHC



Magnetic field sensor Straight
Cable 0,3 m - Connector M8

MFS204SKHC



Plug-in connector Straight Ca-
ble 5m - Socket M8 (female)

KAG500



Plug-in connector Angled Ca-
ble 5m - Socket M8 (female)

KAW500



Straight Fittings - Quick
Connect Style

GVM5

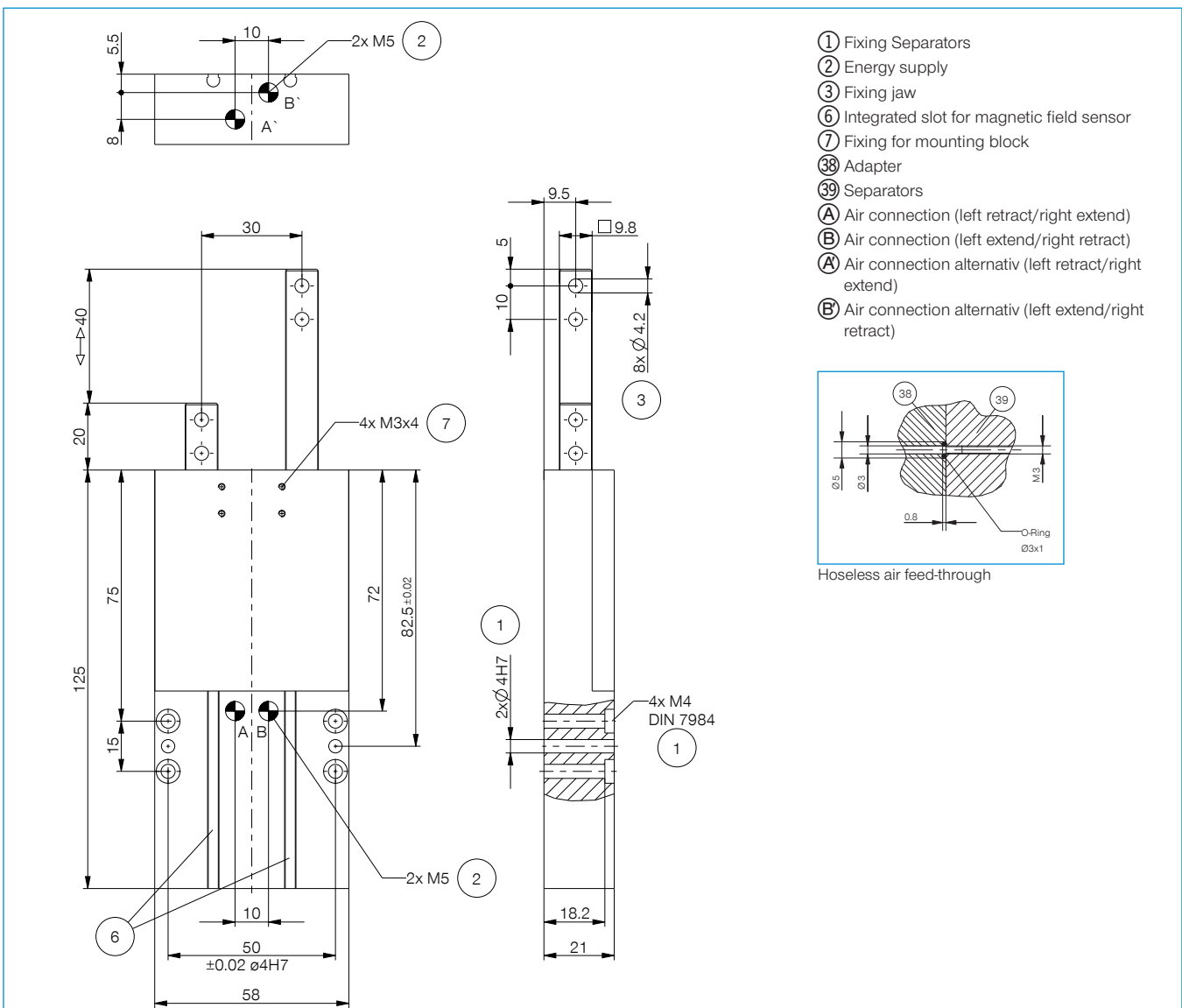


Angled Fittings - Quick
Connect Style

WVM5

Order no.	VE15-B
Stroke per tapped rod [mm]	40
Force in retract [N]	65
Force in extend [N]	80
Self locking mechanism	mechanical
Cycle count [s]	0.1
Repetition accuracy +/- [mm]	0.1
Operating pressure min. [bar]	3
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm³]	23
Weight [kg]	0.48

*All data measured at 6 bar



SEPARATORS

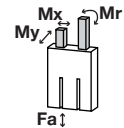
INSTALLATION SIZE VE22

▶ PRODUCT SPECIFICATIONS



▶ Forces and moments

Shows static forces and torques that may be present on the plunger



Mr [Nm]	9
My [Nm]	9
Mx [Nm]	9
Fa [N]	180

▶ RECOMMENDED ACCESSORIES



Mounting block

KB8-20



Inductive proximity switch
- Cable 5 m

NJ8-E2



Inductive proximity switch
- Connector M8

NJ8-E2S



Magnetic field sensor
Angled Cable 5 m

MFS103KHC



Magnetic field sensor Angled
Cable 0,3 m - Connector M8

MFS103SKHC



Magnetic field sensor
Straight Cable 5 m

MFS204KHC



Magnetic field sensor Straight
Cable 0,3 m - Connector M8

MFS204SKHC



Plug-in connector Straight Ca-
ble 5m - Socket M8 (female)

KAG500



Plug-in connector Angled Ca-
ble 5m - Socket M8 (female)

KAW500



Straight Fittings - Quick
Connect Style

GVM5

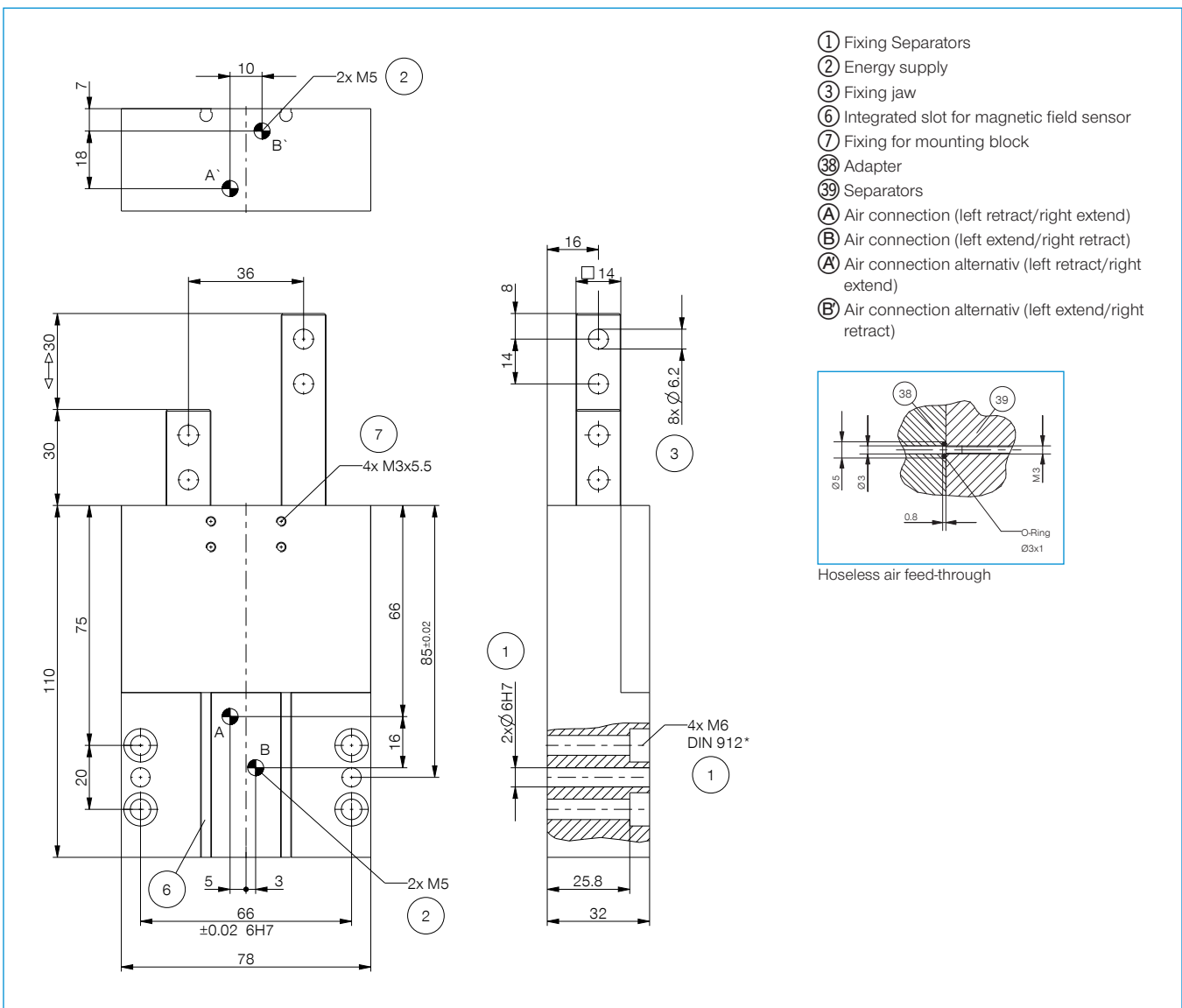


Angled Fittings - Quick
Connect Style

WVM5

Order no.	VE22-B
Stroke per tapped rod [mm]	30
Force in retract [N]	170
Force in extend [N]	220
Self locking mechanism	mechanical
Cycle count [s]	0.08
Repetition accuracy +/- [mm]	0.05
Operating pressure min. [bar]	3
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm³]	42
Weight [kg]	0.915

*All data measured at 6 bar



SEPARATORS

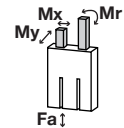
INSTALLATION SIZE VE23

▶ PRODUCT SPECIFICATIONS



▶ Forces and moments

Shows static forces and torques that may be present on the plunger



Mr [Nm]	9
My [Nm]	9
Mx [Nm]	9
Fa [N]	180

▶ RECOMMENDED ACCESSORIES



Mounting block

KB8-20



Inductive proximity switch
- Cable 5 m

NJ8-E2



Inductive proximity switch
- Connector M8

NJ8-E2S



Magnetic field sensor
Angled Cable 5 m

MFS103KHC



Magnetic field sensor Angled
Cable 0,3 m - Connector M8

MFS103SKHC



Magnetic field sensor
Straight Cable 5 m

MFS204KHC



Magnetic field sensor Straight
Cable 0,3 m - Connector M8

MFS204SKHC



Plug-in connector Straight Ca-
ble 5m - Socket M8 (female)

KAG500



Plug-in connector Angled Ca-
ble 5m - Socket M8 (female)

KAW500



Straight Fittings - Quick
Connect Style

GVM5

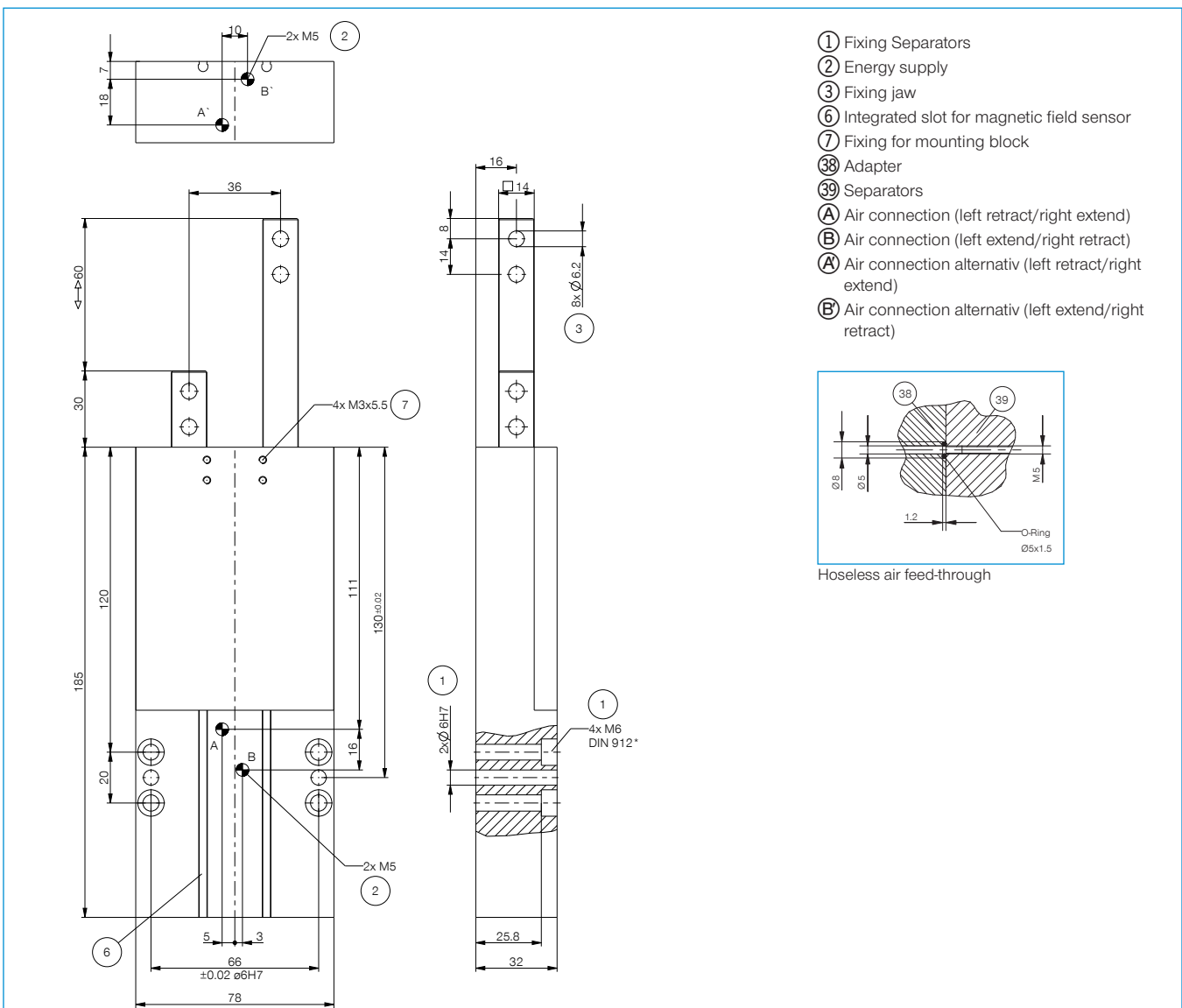


Angled Fittings - Quick
Connect Style

WVM5

Order no.	VE23-B
Stroke per tapped rod [mm]	60
Force in retract [N]	170
Force in extend [N]	220
Self locking mechanism	mechanical
Cycle count [s]	0.15
Repetition accuracy +/- [mm]	0.05
Operating pressure min. [bar]	3
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm³]	83
Weight [kg]	1.5

*All data measured at 6 bar



SEPARATORS

OVERVIEW OF SERIES



▶ ELECTRICAL



Series VEE9200

832

SEPARATORS

SERIES VEE9200

▶ PRODUCT ADVANTAGES



▶ **250 cycles per minute**

If speed is the key, nothing beats this unit. This lets you increase your component output and lower your unit costs,

▶ **Saving energy with pulse control**

You only have to supply current briefly when retracting and extending the plunger. No energy is required at the end positions

▶ **Plug and play**

Reduce your design and programming effort to a minimum with the integrated control system and the 2-position query

▶ THE BEST PRODUCT FOR YOUR APPLICATION



▶ **Our products love the challenge!**

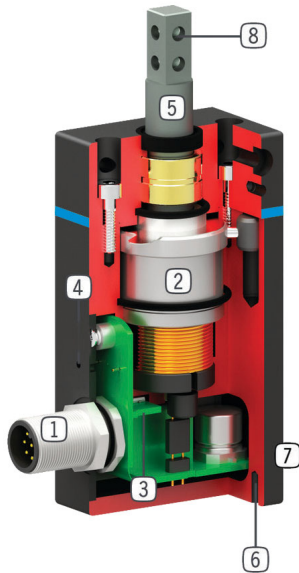
Extreme conditions, all over the world—our tried and tested components and systems give you limitless possibilities:

Find the best product for your specific use:

www.zimmer-group.com



► BENEFITS IN DETAIL



- ① **Energy supply**
 - standardized interface M12 round connector
- ② **Drive**
 - via Pot magnet and coil bobbin according to the coil system principle
 - energy consumption only at impulse <25 ms
- ③ **Position sensing**
 - integrated Hallsensor
 - 2 positions monitorable
- ④ **Status control**
 - optical LED position display
- ⑤ **Tapped rod**
 - Aluminium hardcoated
- ⑥ **Mounting and positioning**
 - mounting possible from several sides for versatile positioning
- ⑦ **Robust, lightweight housing**
 - Hard-coated aluminum alloy
- ⑧ **Mounting**
 - individual separator finger mounting

► FURTHER INFORMATION IS AVAILABLE ONLINE



► Technical Information

All information just a click away at: www.zimmer-group.com

Find data, illustrations, 3-D models and operating instructions for your installation size using the order number for your desired product.

Quick, clear and always up-to-date.



SEPARATORS

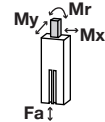
INSTALLATION SIZE VEE9200

▶ PRODUCT SPECIFICATIONS



▶ Forces and moments

Shows static forces and torques that may be present on the plunger



Mr [Nm]	0.3
My [Nm]	0.3
Mx [Nm]	0.3
Fa [N]	50

▶ RECOMMENDED ACCESSORIES



Plug-in Connector Angled
Cable 10 m - Female M12

KAW1000B8



Plug-in Connector
Straight Cable 10 m -
Female M12

KAG1000B8

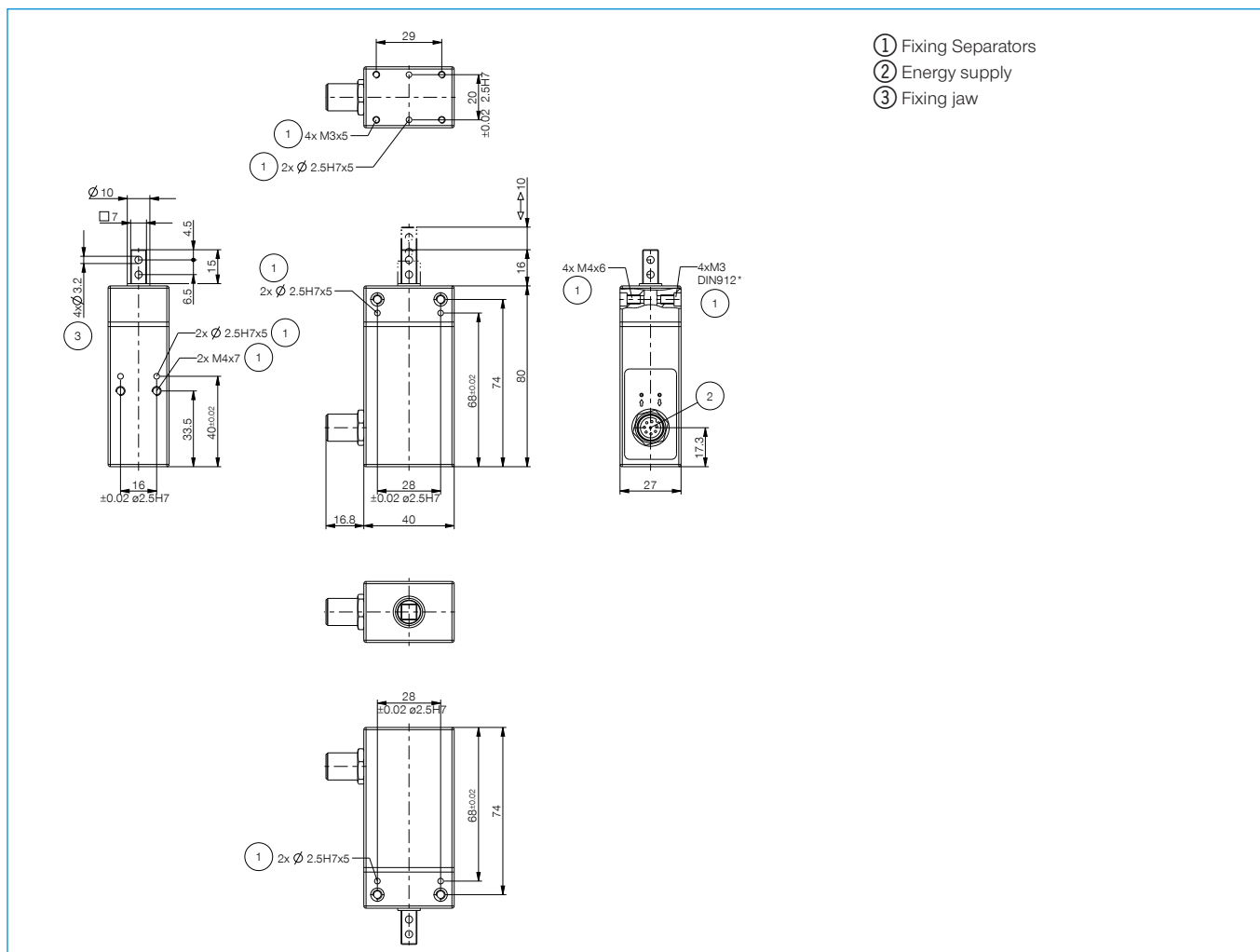


Busbox
see page 875

ZUBBOX9000-01

Order no.	▶ Technical Data*	
	VEE9210	VEE9220
Permissible unevenness of mounting surface [mm]	<0.02	<0.02
Fixing for separator / Tightening torque	M3 / 1.5	M3 / 1.5
Replacement accuracy [mm]	<0,2	<0,2
Stroke [mm]	10	20
Force in retract [N]	10	8
Force in extend [N]	10	8
Permanent operation cycle count max. [cycle/min]	200	200
Cycle count max. [cycle/min]	250	250
Operating time [ms]	<18	<30
Repetition accuracy +/- [mm]	0.1	0.1
Weight of tappet extension, max. [g]	20	20
Fixing for extension piece / Tightening torque [Nm]	M3 / 1.5	M3 / 1.5
Pulse time in retract [ms]	25	35
Pulse time in extend [ms]	25	35
Debounce time [ms]	10	10
Current consumption per pulse max. [A]	5	5
Current consumption in a stand-by mode [A]	0.02	0.02
Protection to IEC 60529	IP40	IP40
Certification	CE	CE
Noise level [db(A)]	<70	<70
Operating temperature [°C]	10 ... +50	10 ... +50
Weight [kg]	0.24	0.30

*All data measured at 6 bar



BALL JOINTS

SERIES KG

▶ PRODUCT ADVANTAGES



▶ Lockable displacement position

Be flexible in your application, customise the handling to your workpiece and lock the displacement position with process reliability

▶ Large locating flange

The large mounting surface simplifies your design and allows secure attachment of add-on components

▶ Steel design

The highest force and torque measurement enables flexible for maximum dynamics

▶ THE BEST PRODUCT FOR YOUR APPLICATION



▶ Our products love the challenge!

Extreme conditions, all over the world—our tried and tested components and systems give you limitless possibilities:

Find the best product for your specific use:

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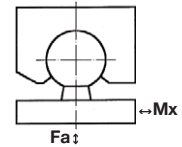


▶ PRODUCT SPECIFICATIONS



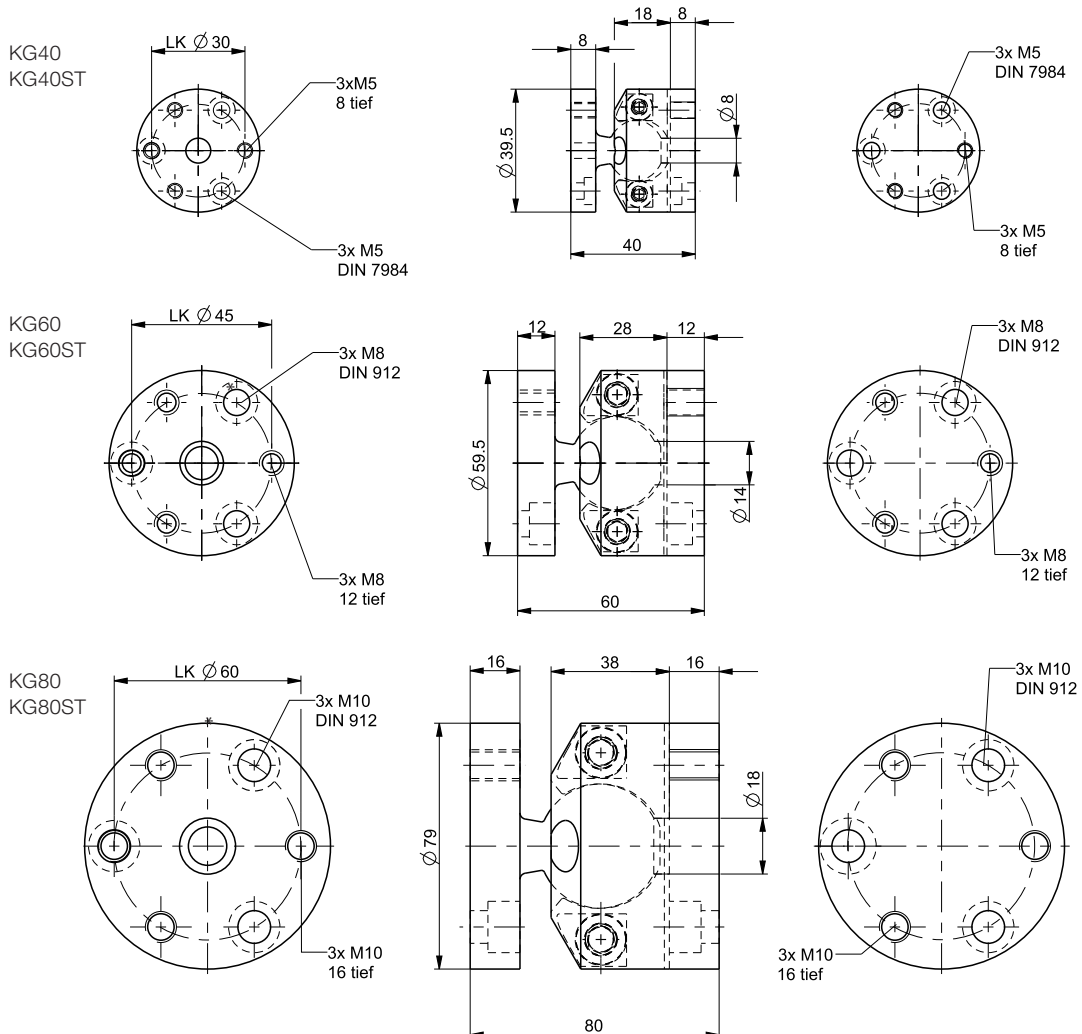
▶ Forces and moments

Shows static forces and torques which may impact on the ball joint



▶ Technical Data

Order no.	KG40	KG40ST	KG60	KG60ST	KG80	KG80ST
Swivel angle [°]	30	30	30	30	30	30
Mx [Nm]	18	18	55	55	124	124
Fa [N]	7500	18000	15000	45000	28000	70000
Weight [kg]	0.1	0.3	0.3	0.9	0.8	2.3



ADJUSTMENT JAWS

THE SERIES AT A GLANCE



▶ **ADJUSTMENT JAWS**



Series EB5000

840

ADJUSTMENT JAWS

SERIES EB5000

▶ PRODUCT ADVANTAGES



▶ **Easy and fast**

Easy gripper finger adjustment to fit various workpieces saves time and money

▶ **Reproducible and durable**

The numbering of the detent notches allows you to easily configure the gripper finger length and FEM-calculated adjustment jaws guarantee maximum process reliability

- ▶ **You can install one and the same adjustment jaw within the same 5000 gripper range on various gripper types of identical size and combine it with the respective accessory parts. This increases flexibility and reduces the diversity of parts in equal measure, which in turn reduces the storage costs**

▶ THE BEST PRODUCT FOR YOUR APPLICATION



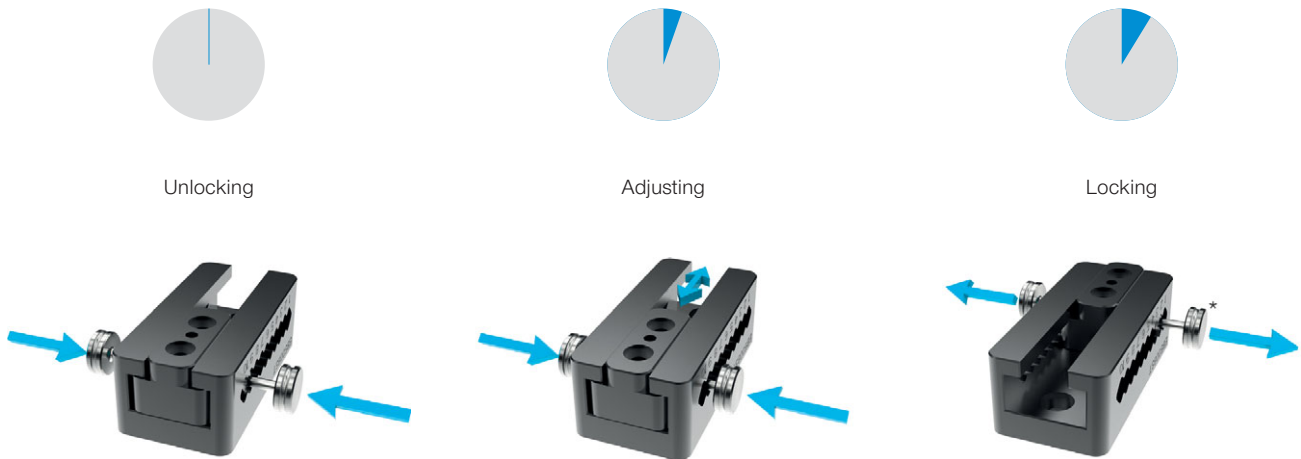
▶ **Our products love the challenge!**

Extreme conditions, all over the world—our tried and tested components and systems give you limitless possibilities:

Find the best product for your specific use:

www.zimmer-group.com

▶ SETTING THE GRIPPER FINGER POSITION IN UNDER 10 SECONDS



* Pressure pieces are screwed on and can be removed to minimize interference contours

▶ SERIES CHARACTERISTICS



▶ Technical Information

All information just a click away at: www.zimmer-group.com

Find data, illustrations, 3D models and operating instructions for your installation size using the order number for your desired product.

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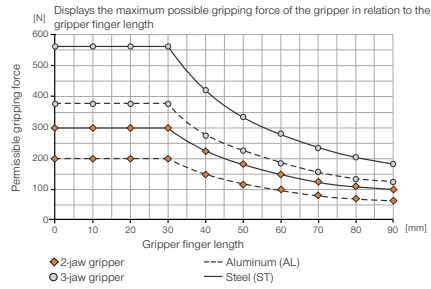
ADJUSTMENT JAWS

INSTALLATION SIZE EB5003

▶ PRODUCT SPECIFICATIONS

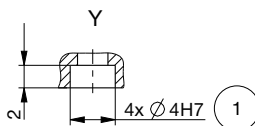
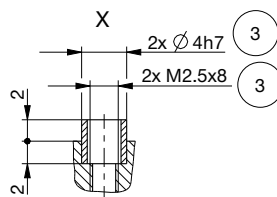
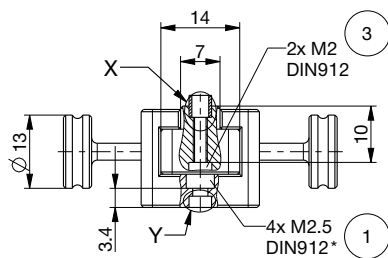
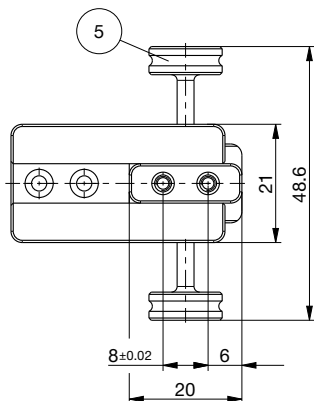
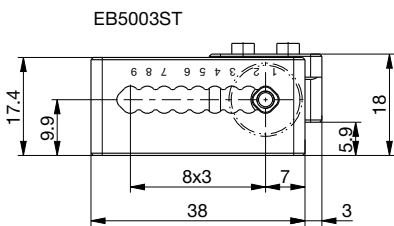
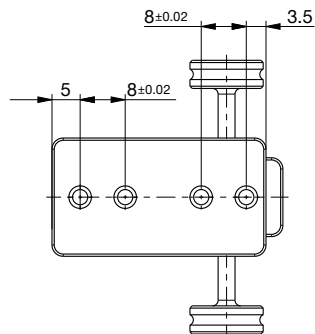


▶ Gripping force diagram

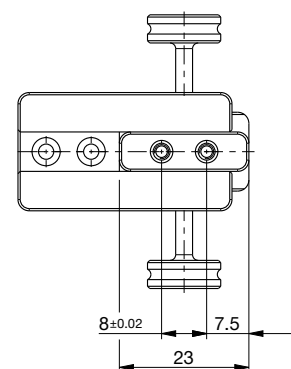
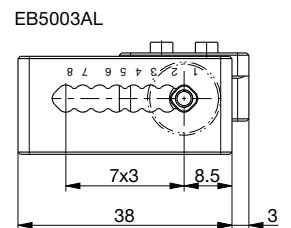


▶ Technical data

Order no.	EB5003AL	EB5003ST
compatible with installation size	GPP5003 / GPD5003	GPP5003 / GPD5003
Max. adjustment range [mm]	21	24
Spacing [mm]	7x3	8x3
Max. weight per adjustment jaw [kg]	0.04	0.09



- ① Fastening the adjustment jaw
- ③ Fixing for gripper finger
- ⑤ Adjustment mechanism (removable)



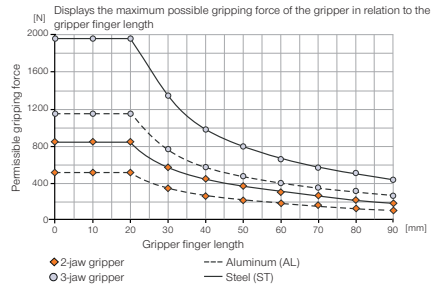
ADJUSTMENT JAWS

INSTALLATION SIZE EB5004

▶ PRODUCT SPECIFICATIONS

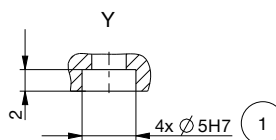
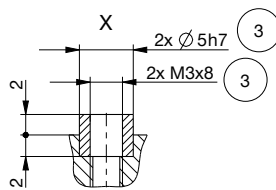
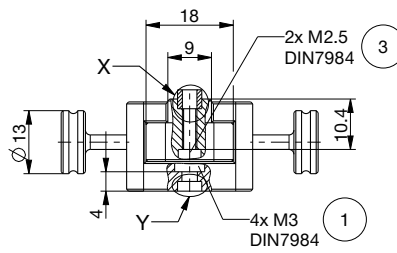
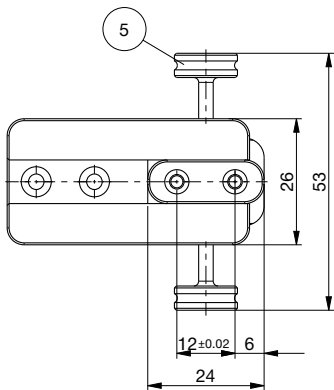
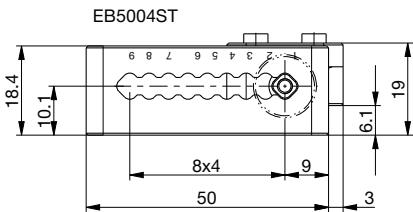
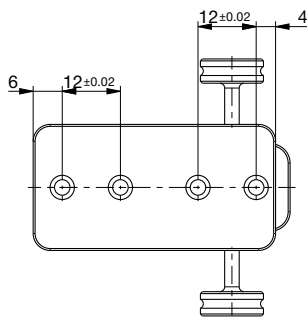


▶ Gripping force diagram

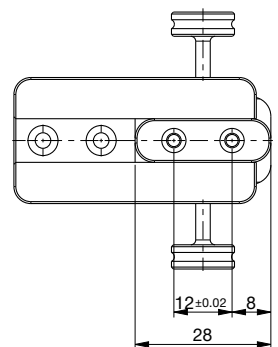
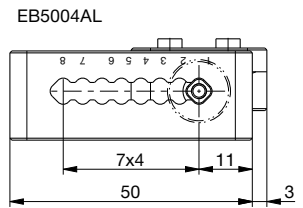


▶ Technical data

Order no.	EB5004AL	EB5004ST
compatible with installation size	GPP5004 / GPD5004	GPP5004 / GPD5004
Max. adjustment range [mm]	28	32
Spacing [mm]	7x4	8x4
Max. weight per adjustment jaw [kg]	0.06	0.13



- ① Fastening the adjustment jaw
- ③ Fixing for gripper finger
- ⑤ Adjustment mechanism (removable)



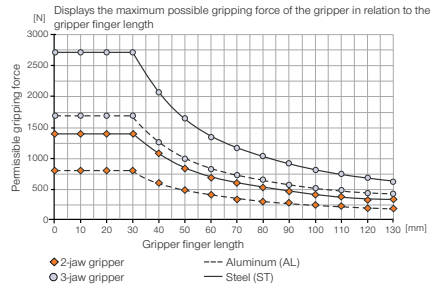
ADJUSTMENT JAWS

INSTALLATION SIZE EB5006

▶ PRODUCT SPECIFICATIONS

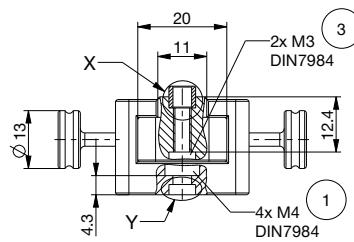
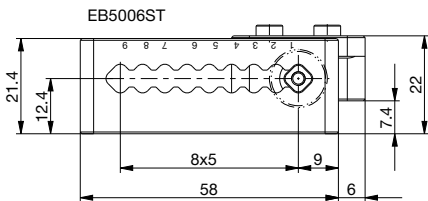
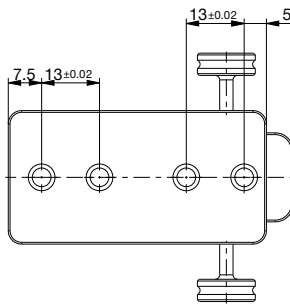


▶ Gripping force diagram

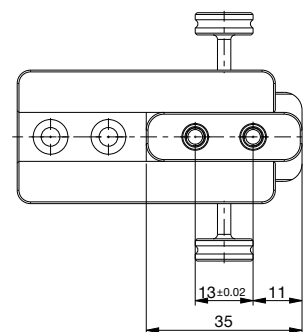
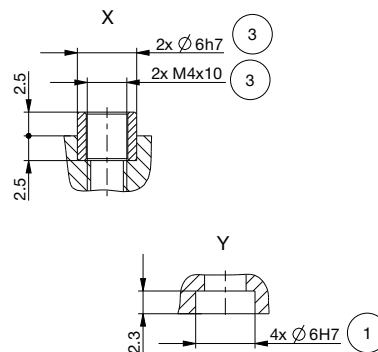
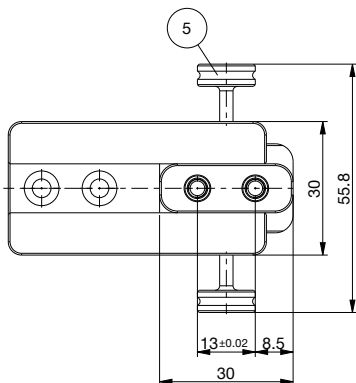
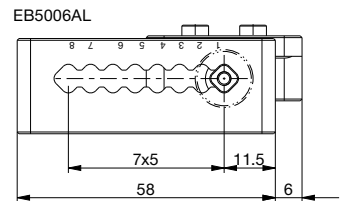


▶ Technical data

Order no.	EB5006AL	EB5006ST
compatible with installation size	GPP5006 / GEP5006 / GPD5006 / GED5006	GPP5006 / GEP5006 / GPD5006 / GED5006
Max. adjustment range [mm]	35	40
Spacing [mm]	7x5	8x5
Max. weight per adjustment jaw [kg]	0.10	0.20



- ① Fastening the adjustment jaw
- ③ Fixing for gripper finger
- ⑤ Adjustment mechanism (removable)



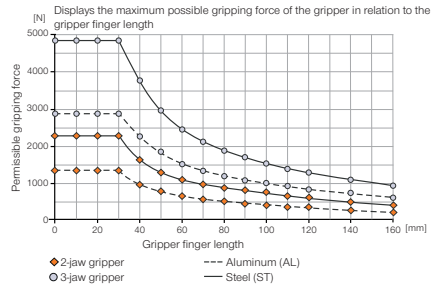
ADJUSTMENT JAWS

INSTALLATION SIZE EB5008

▶ PRODUCT SPECIFICATIONS



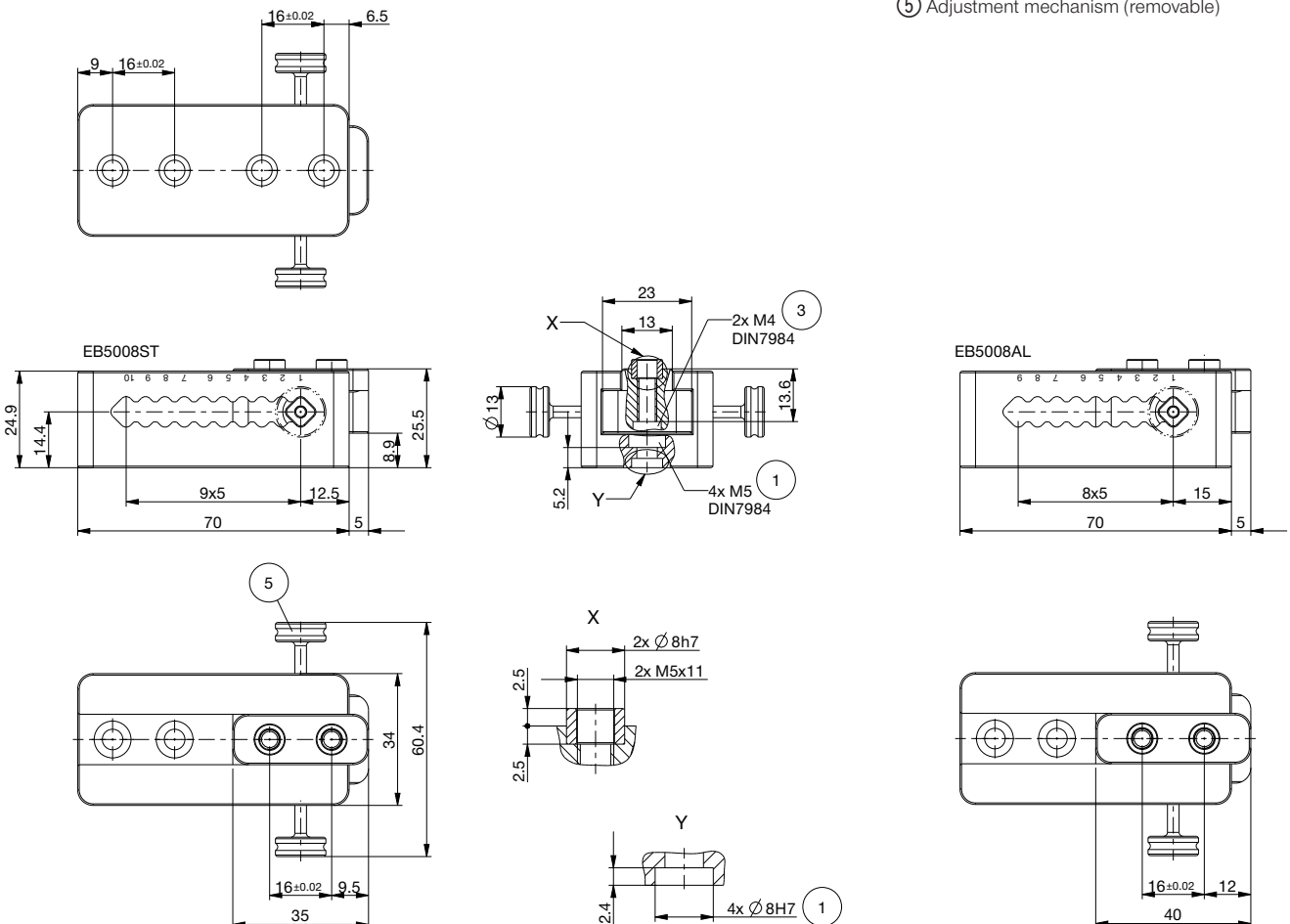
▶ Gripping force diagram



▶ Technical data

Order no.	EB5008AL	EB5008ST
compatible with installation size	GPP5008 / GEP5008 / GPD5008 / GED5008 / GPW5008	GPP5008 / GEP5008 / GPD5008 / GED5008 / GPW5008
Max. adjustment range [mm]	40	45
Spacing [mm]	8x5	9x5
Max. weight per adjustment jaw [kg]	0.14	0.34

- ① Fastening the adjustment jaw
- ③ Fixing for gripper finger
- ⑤ Adjustment mechanism (removable)



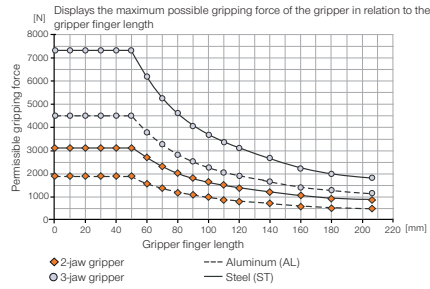
ADJUSTMENT JAWS

INSTALLATION SIZE EB5010

▶ PRODUCT SPECIFICATIONS



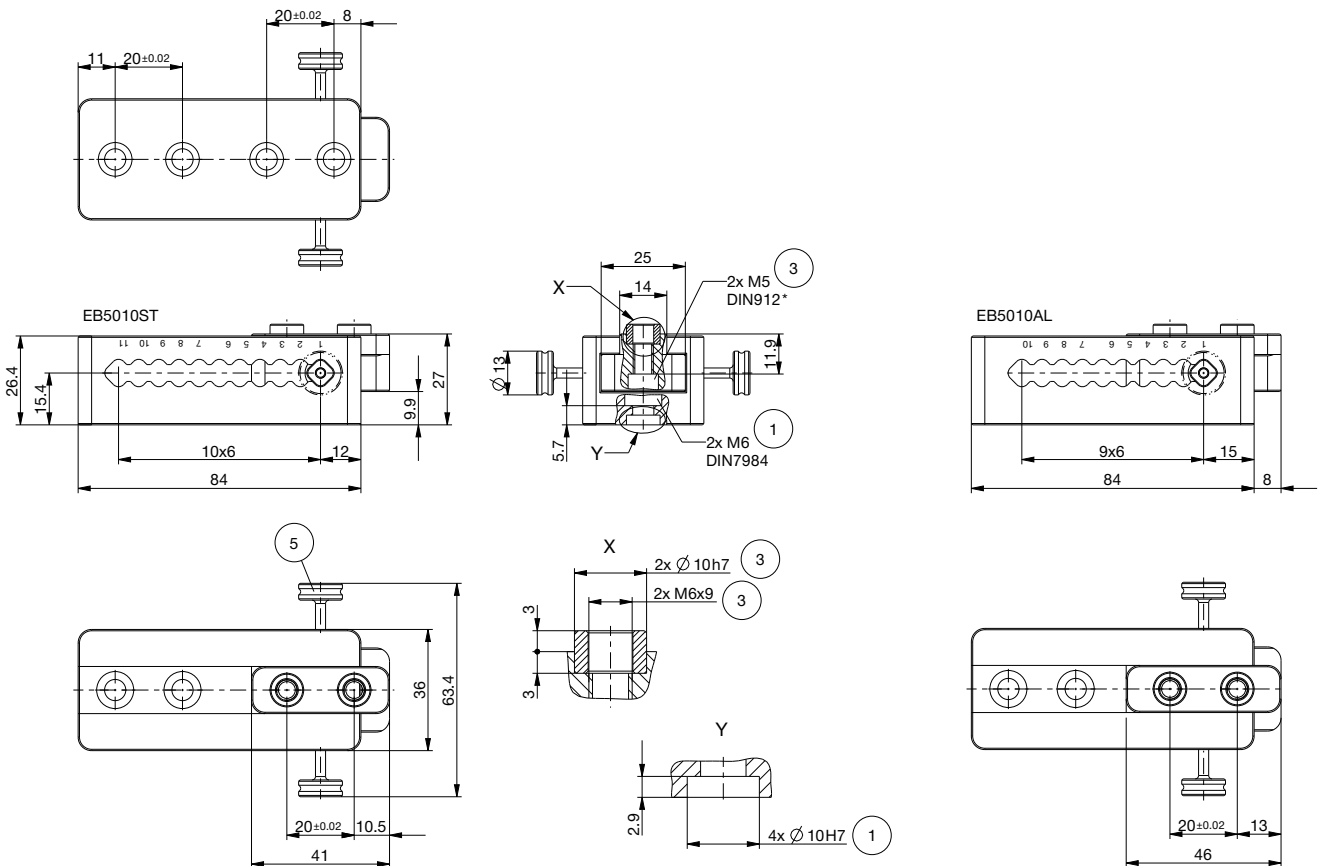
▶ Gripping force diagram



▶ Technical data

Order no.	EB5010AL	EB5010ST
compatible with installation size	GPP5010 / GEP5010 / GPD5010 / GED5010	GPP5010 / GEP5010 / GPD5010 / GED5010
Max. adjustment range [mm]	54	60
Spacing [mm]	9x6	10x6
Max. weight per adjustment jaw [kg]	0.19	0.45

- ① Fastening the adjustment jaw
- ③ Fixing for gripper finger
- ⑤ Adjustment mechanism (removable)



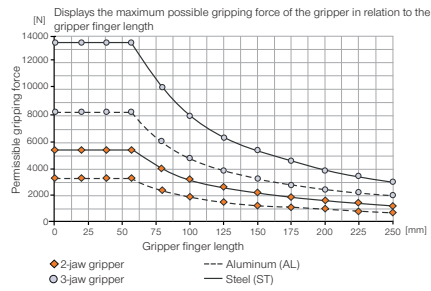
ADJUSTMENT JAWS

INSTALLATION SIZE EB5013

▶ PRODUCT SPECIFICATIONS



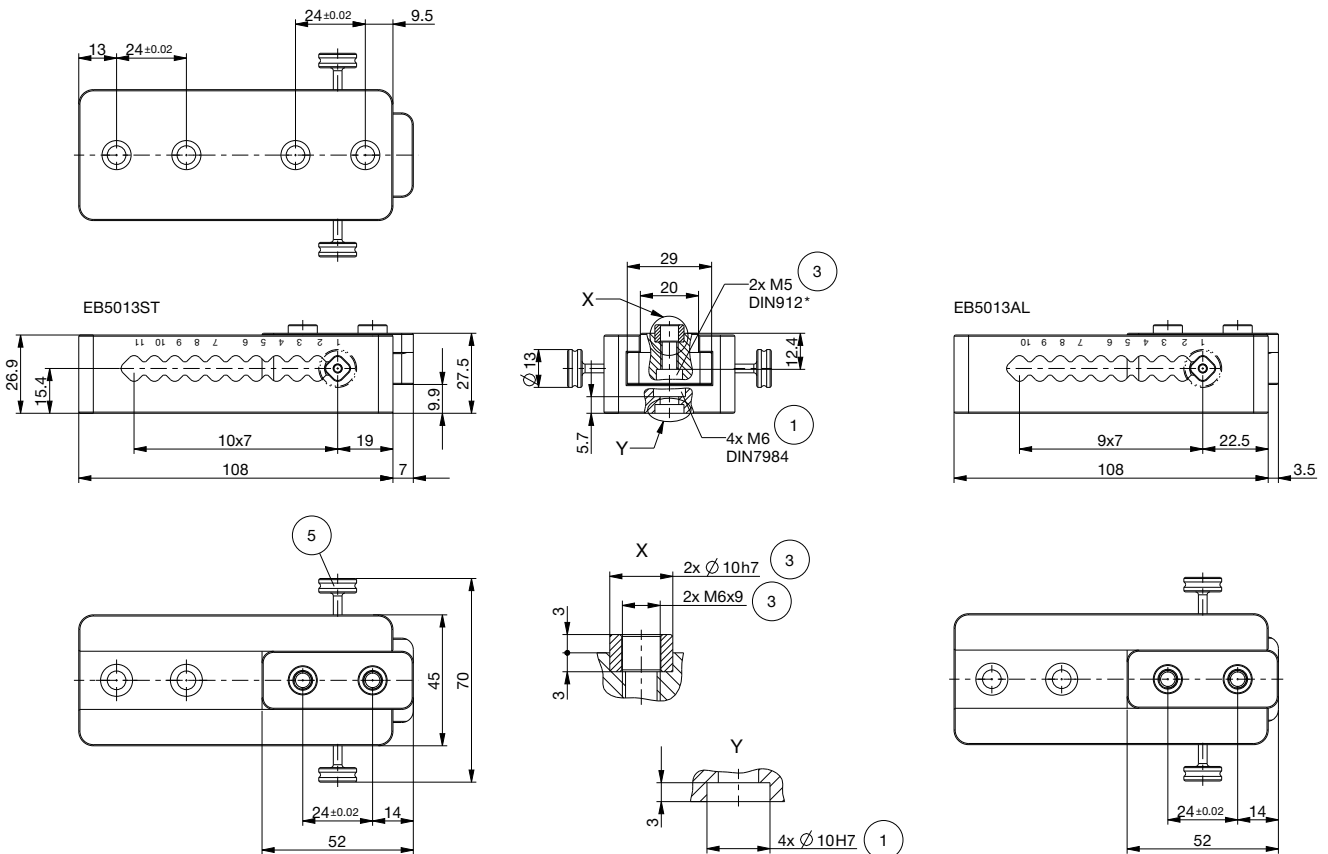
▶ Gripping force diagram



▶ Technical data

Order no.	EB5013AL	EB5013ST
compatible with installation size	GPP5013 / GPD5013 / GPW5013	GPP5013 / GPD5013 / GPW5013
Max. adjustment range [mm]	63	70
Spacing [mm]	9x7	10x7
Max. weight per adjustment jaw [kg]	0.30	0.75

- ① Fastening the adjustment jaw
- ③ Fixing for gripper finger
- ⑤ Adjustment mechanism (removable)



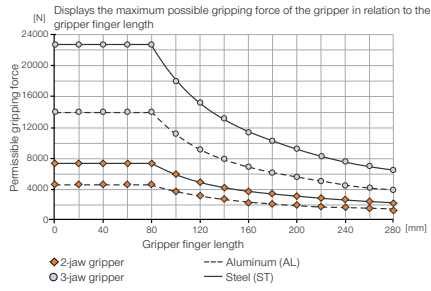
ADJUSTMENT JAWS

INSTALLATION SIZE EB5016

▶ PRODUCT SPECIFICATIONS



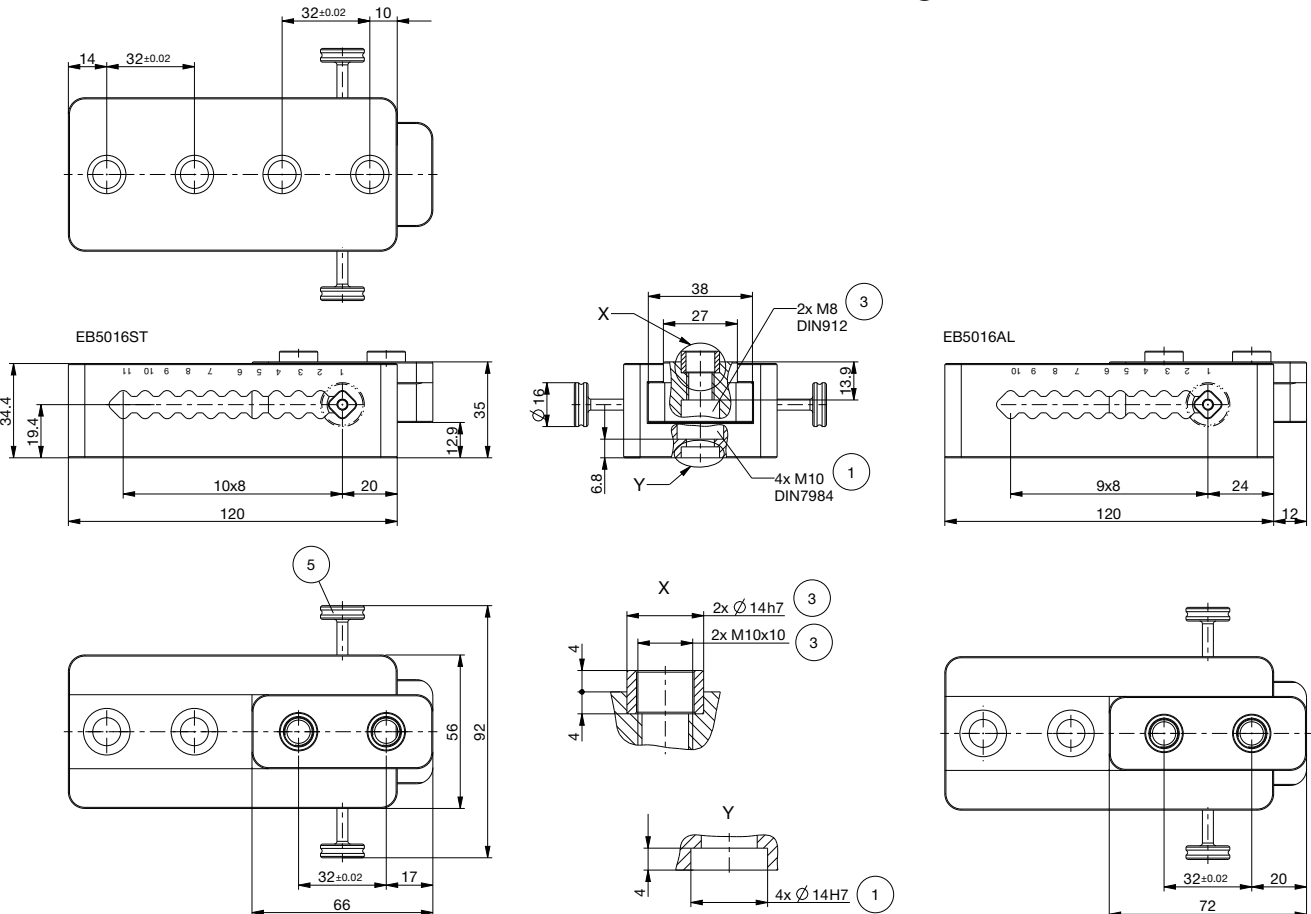
▶ Gripping force diagram



▶ Technical data

Order no.	EB5016AL	EB5016ST
compatible with installation size	GPP5016 / GPD5016	GPP5016 / GPD5016
Max. adjustment range [mm]	72	80
Spacing [mm]	9x8	10x8
Max. weight per adjustment jaw [kg]	0.56	1.35

- ① Fastening the adjustment jaw
- ③ Fixing for gripper finger
- ⑤ Adjustment mechanism (removable)



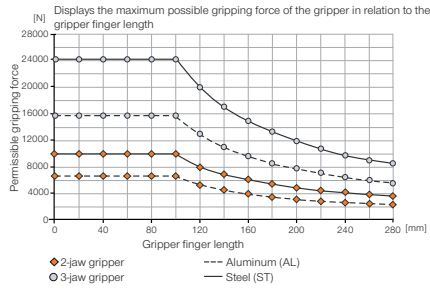
ADJUSTMENT JAWS

INSTALLATION SIZE EB5025

▶ PRODUCT SPECIFICATIONS



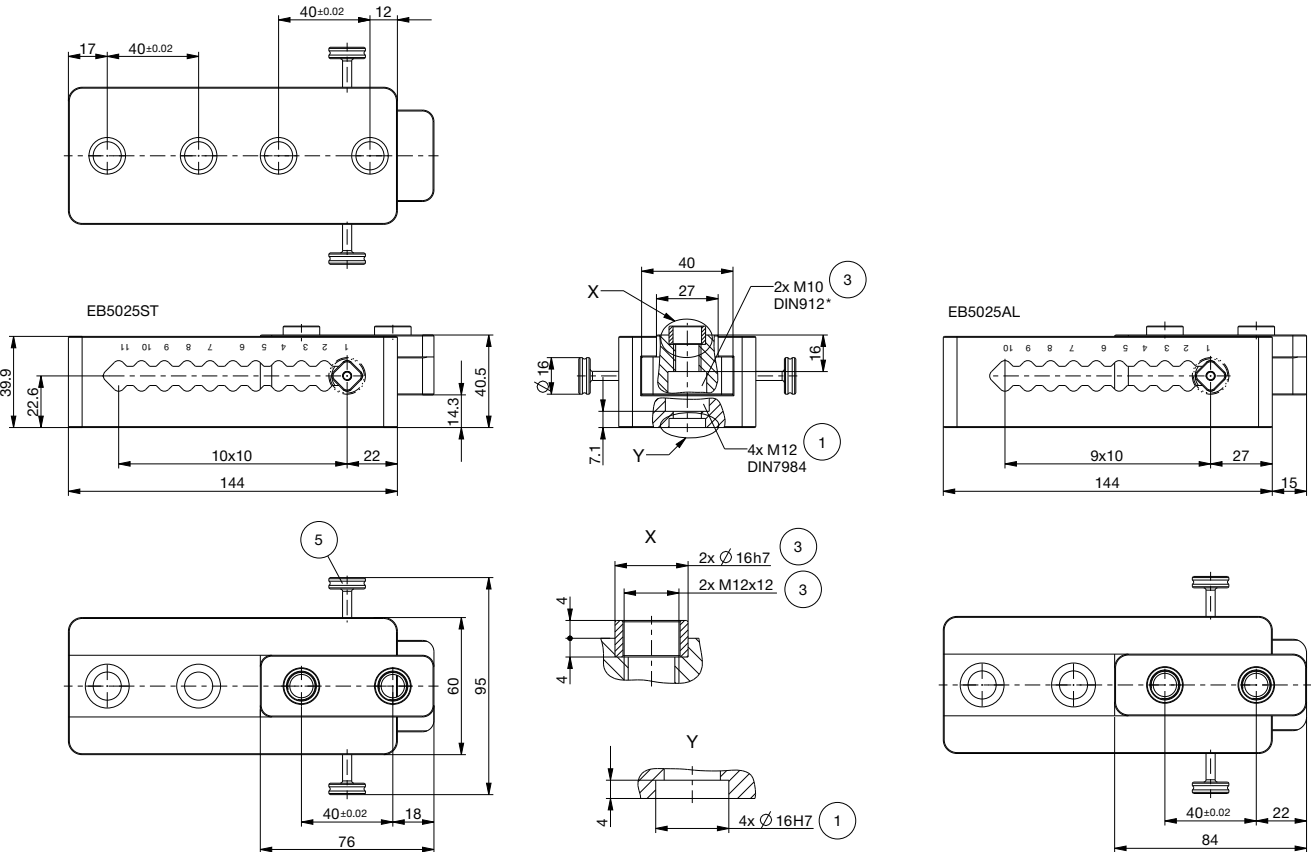
▶ Gripping force diagram



▶ Technical data

Order no.	EB5025AL	EB5025ST
compatible with installation size	GPP5025 / GPD5025 / GPW5025	GPP5025 / GPD5025 / GPW5025
Max. adjustment range [mm]	90	100
Spacing [mm]	9x10	10x10
Max. weight per adjustment jaw [kg]	0.81	1.95

- ① Fastening the adjustment jaw
- ③ Fixing for gripper finger
- ⑤ Adjustment mechanism (removable)



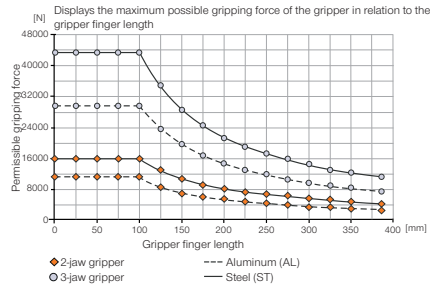
ADJUSTMENT JAWS

INSTALLATION SIZE EB5030

PRODUCT SPECIFICATIONS



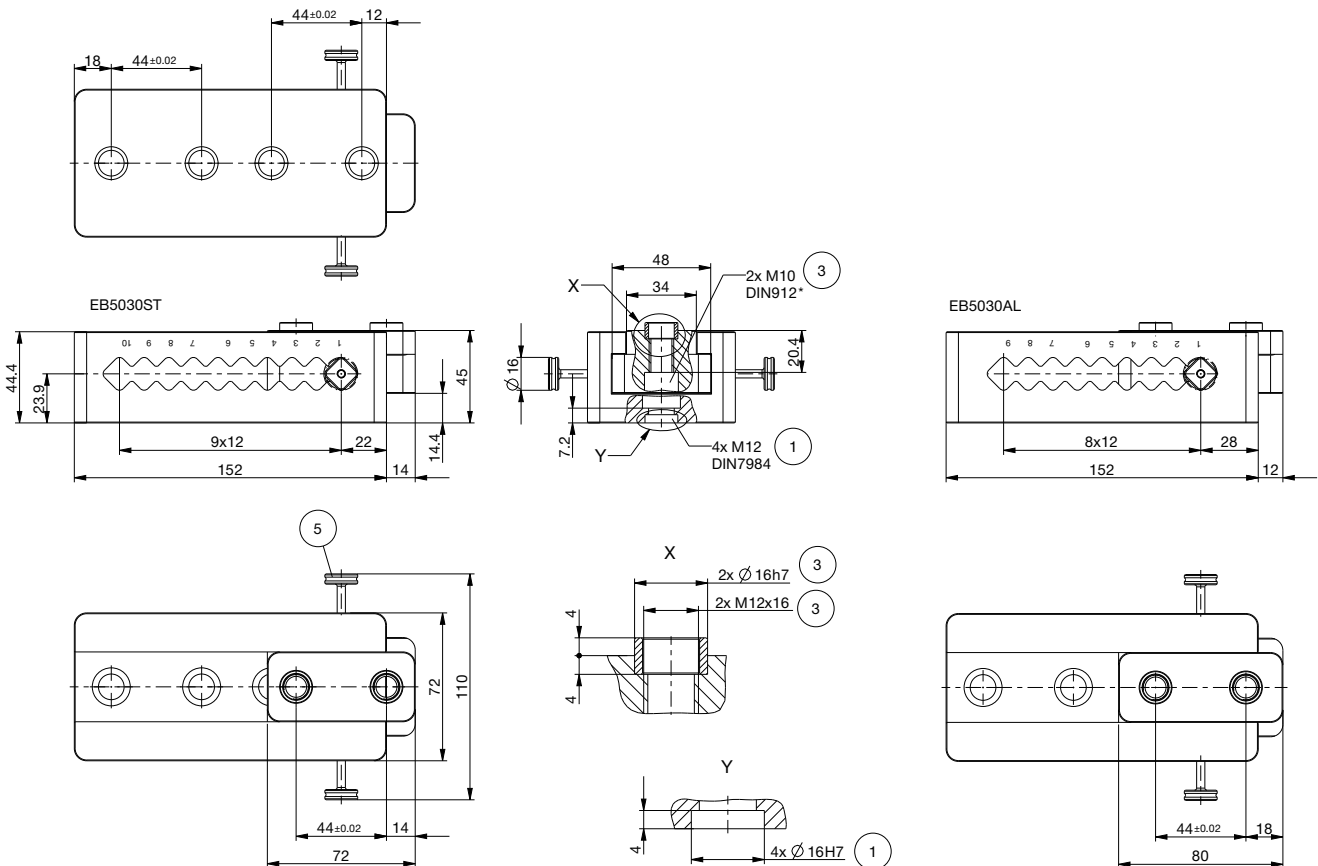
Gripping force diagram



Technical data

Order no.	EB5030AL	EB5030ST
compatible with installation size	GPP5030 / GPD5030	GPP5030 / GPD5030
Max. adjustment range [mm]	96	108
Spacing [mm]	8x12	9x12
Max. weight per adjustment jaw [kg]	1.07	2.63










- ① Fastening the adjustment jaw
- ③ Fixing for gripper finger
- ⑤ Adjustment mechanism (removable)



SENSORS & HOLDERS

OVERVIEW OF SERIES



▶ MAGNETIC FIELD SENSORS		
	Series MFS	854
	Series MFSP	855
▶ INDUCTIVE PROXIMITY SWITCHES		
	Series NJ	856
▶ SENSOR CABLES		
	Series KAW	858
	Series KAG	858
	Series S	859
▶ STOP STROKE ADJUSTMENT SCREWS		
	Series AI	860
	Series AO	860
▶ HOLDERS		
	Series KB	861

SENSORS AND HOLDERS

MAGNETIC FIELD SENSORS

► SERIES MFS - MAGNETIC FIELD SENSORS



- For monitoring piston position on pneumatic cylinders
- Non-contacting and wear-free for long service life

► Technical Data

Order no.	MFS103KHC	MFS103SKHC
Assured switching field streng [kA/m]	2	2
Hysteresis of %	<45	45
Supply voltage [V DC]	10 ... 30	10 ... 30
Voltage drop [V]	2.5	2.5
Load current capacity [mA]	100	100
Current consumption max. [mA]	<8	<8
Protected against polarity reversal	Yes	Yes
Short-circuit-proof	Yes	Yes
Ambient temperature range [°C]	-25 ... +85	-25 ... +85
Protection to IEC 60529	IP67	IP67
Housing Material	LCP	LCP
Connection type	Cable	Cable/Connector M8
Cable length [m]	5	0.3
Certification	CE	CE

Get all needed parts in just one sensor-set!

The sets include all sensors, cables and plugs for trouble-free installation position sensing of a gripper with integrated magnetic field sensors.

Set 1: Order no.: MFS103S-01

consisting of:

- 2x Magnetic Field Sensors: MFS103SKHC
- 2x Plug-in Connector: KAG500
- 2x Plug-in Connector: S8-G-3

Set 2: Order no.: MFS103S-02

consisting of:

- 2x Magnetic Field Sensors: MFS103SKHC
- 1x Y-Plug-in Connector: S8-Y-4
- 1x Plug-in Connector: KAG500B4
- 1x Plug-in Connector: S12-G-4

► SERIES MFS - MAGNETIC FIELD SENSORS



- For monitoring piston position on pneumatic cylinders
- Non-contacting and wear-free for long service life

► Technical Data

Order no.	MFS204KHC	MFS204SKHC
Assured switching field streng [kA/m]	2	2
Hysteresis of %	<45	<45
Supply voltage [V DC]	10 ... 30	10 ... 30
Voltage drop [V]	2.5	2.5
Load current capacity [mA]	100	100
Current consumption max. [mA]	<12	<12
Protected against polarity reversal	Yes	Yes
Short-circuit-proof	Yes	Yes
Ambient temperature range [°C]	-25 ... +85	-25 ... +85
Protection to IEC 60529	IP67	IP67
Housing Material	PA12	PA12
Connection type	Cable	Cable/Connector M8
Cable length [m]	5	0.3
Certification	CE	CE

Get all needed parts in just one sensor-set!

The sets include all sensors, cables and plugs for trouble-free installation position sensing of a gripper with integrated magnetic field sensors.

Set 3: Order no.: MFS204S-01

consisting of:

- 2x Magnetic Field Sensors: MFS204SKHC
- 2x Plug-in Connector: KAG500
- 2x Plug-in Connector: S8-G-3

Set 4: Order no.: MFS204S-02

consisting of:

- 2x Magnetic Field Sensors: MFS204SKHC
- 1x Y-Plug-in Connector: S8-Y-4
- 1x Plug-in Connector: KAG500B4
- 1x Plug-in Connector: S12-G-4

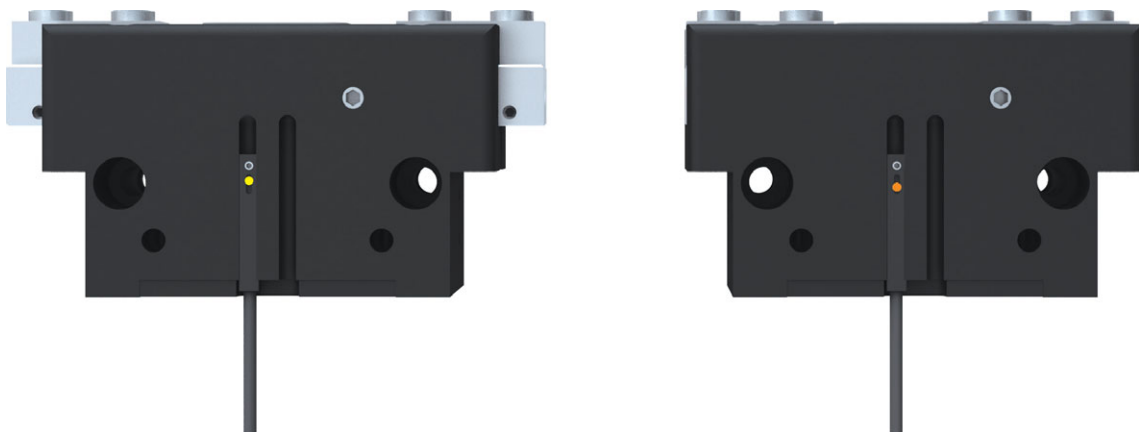
► SERIES MFSP - MAGNETIC FIELD SENSORS



- Two freely programmable switching points
- Straightforward teach-in procedure
- Reduced installation and wiring requirements

► Technical Data

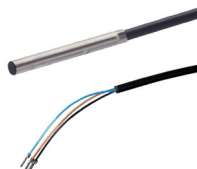
Order no.	MFSP2KHC-02	MFSP2SKHC-02
Supply voltage [V DC]	10 ... 30	10 ... 30
Voltage drop [V]	≤2.2	≤2.2
Load current capacity [mA]	<50	<50
Current consumption max. [mA]	<10	<10
Protected against polarity reversal	Yes	Yes
Short-circuit-proof	Yes	Yes
Operating temperature [°C]	-20 ... +75	-20 ... +75
Protection to IEC 60529	IP67	IP67
Housing Material	Plastics	Plastics
Connection type	Cable, 4-wire, 5 m	Cable with connector M8, 4-pin, with knurled nuts, 0.3 m
Cable length [m]	5	0.3
Certification	CE	CE



SENSORS AND HOLDERS

INDUCTIVE PROXIMITY SWITCHES

► SERIES NJ - INDUCTIVE PROXIMITY SWITCHES



- Contact-free, wear-free and short-circuit proof
- Available starting at 3 mm Ø

► Technical Data

Order no.	NJ3-E2	NJ3-E2SK	NJ4-E2-01	NJ4-E2SK-01	NJ5-E2	NJ5-E2SK
Sensor-Ø [mm]	3.0	3.0	4.0	4.0	M5x0.5	M5x0.5
Installation type	flush	flush	flush	flush	flush	flush
Rated operating distance Sn [mm]	1.00	1.00	1.50	1.50	0.80	0.80
Assured switching distance Sa [mm]	0.80	0.80	1.21	1.21	0.65	0.65
Supply voltage [V DC]	10 ... 30	10 ... 30	10 ... 30	10 ... 30	10 ... 30	10 ... 30
Load current capacity [mA]	100	100	100	100	100	100
Current consumption max. [mA]	<12	<12	<12	<12	<12	<12
Protected against polarity reversal	Yes	Yes	Yes	Yes	Yes	Yes
Short-circuit-proof	Yes	Yes	Yes	Yes	Yes	Yes
Repetition accuracy [%]	<5	<5	<5	<5	<5	<5
Ambient temperature range [°C]	-25 ... +70	-25 ... +70	-25 ... +70	-25 ... +70	-25 ... +70	-25 ... +70
Switching frequency [Hz]	3500	3500	5000	5000	5000	5000
Protection to IEC 60529	IP67	IP67	IP67	IP67	IP67	IP67
Housing Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Active surface material	PBT	PBT	PBT	PBT	PBT	PBT
Connection type	Cable	Cable/Connector M8	Cable	Cable/Connector M8	Cable	Cable/Connector M8
Cable length [m]	5	0.3	5	0.3	5	0.3
Certification	CE	CE	CE	CE	CE	CE

► Technical Data

Order no.	NJ6.5-E2-01	NJ6.5-E2-02	NJ6.5-E2S	NJ8-E2	NJ8-E2-01
Sensor-Ø [mm]	6.5	6.5	6.5	M8x1	M8x1
Installation type	flush	flush	flush	flush	flush
Rated operating distance Sn [mm]	1.50	1.50	1.50	1.50	2.00
Assured switching distance Sa [mm]	1.20	1.20	1.20	1.20	1.60
Supply voltage [V DC]	10 ... 30	10 ... 30	10 ... 30	10 ... 30	10 ... 30
Load current capacity [mA]	200	200	200	200	200
Current consumption max. [mA]	<25	<25	<25	<8	<25
Protected against polarity reversal	Yes	Yes	Yes	Yes	Yes
Short-circuit-proof	Yes	Yes	Yes	Yes	Yes
Repetition accuracy [%]	<5	<5	<5	<5	<5
Ambient temperature range [°C]	-25 ... +70	-25 ... +70	-25 ... +70	-25 ... +70	-25 ... +70
Switching frequency [Hz]	3000	4000	3000	1000	1500
Protection to IEC 60529	IP68	IP67	IP67	IP67	IP68
Housing Material	Stainless steel	Stainless steel	Stainless steel	CuZn nickel plated	Stainless steel
Active surface material	PBT	PBT	PBT	PA12	PBT
Connection type	Cable	Cable	Connector M8	Cable	Cable
Cable length [m]	5	5		5	5
Certification	CE	CE	CE	CE	CE

Order no.	▶ Technical Data			
	NJ8-E2S	NJ8-E2S-05	NJ12-E2	NJ12-E2S
Sensor-Ø [mm]	M8x1	M8x1	M12x1	M12x1
Installation type	flush	flush	flush	flush
Rated operating distance Sn [mm]	2.00	1.50	2.00	2.00
Assured switching distance Sa [mm]	1.60	1.20	1.60	1.60
Supply voltage [V DC]	10 ... 30	10 ... 30	10 ... 30	10 ... 30
Load current capacity [mA]	200	200	200	130
Current consumption max. [mA]	<25	<8	<12	<25
Protected against polarity reversal	Yes	Yes	Yes	Yes
Short-circuit-proof	Yes	Yes	Yes	Yes
Repetition accuracy [%]	<5	<5	<5	<5
Ambient temperature range [°C]	-25 ... +70	-25 ... +70	-25 ... +70	-25 ... +70
Switching frequency [Hz]	1500	3000	5000	1000
Protection to IEC 60529	IP68	IP68	IP68	IP67
Housing Material	Stainless steel	Stainless steel	CuZn nickel plated	CuZn nickel plated
Active surface material	PBT	PBT	PBT	PA12
Connection type	Connector M8	Connector M8	Cable	Connector M8
Cable length [m]			5	
Certification	CE	CE	CE	CE

SENSORS AND HOLDERS

SENSOR CABLES

► SERIES KAW - PLUG-IN CONNECTOR ANGLED WITH CABLE



- Plug-in Connector angled with Cable
- with 3 and 4 poles, with M8 or M12 connection thread size
- Halogen, silicone and PVC free
- Suitable for drag chains (10xØ)

► Technical Data

Order no.	KAW500	KAW500-12	KAW500S4	KAW500B4	KAW1000B8
Fixing thread	M8	M12	M8	M8	M12
No. of contacts	3	3	4	4	8
Cable length [m]	5	5	5	5	10
Cable-Ø [mm]	4.0	4.3	4.3	4.3	6.7
Cable sheath material	PUR	PUR	PUR	PUR	PUR
Bend radius	10xØ	10xØ	10xØ	10xØ	10xØ
Protection to IEC 60529	IP67	IP67	IP67	IP67	IP67
Connection type	Female	Female	Male	Female	Female
Version [Type]	Angle	Angle	Angle	Angle	Angle

► SERIES KAG - PLUG-IN CONNECTOR STRAGHT WITH CABLE



- Plug-in Connector straight with Cable
- with 3 and 4 poles, with M8 or M12 connection thread size
- Halogen, silicone and PVC free
- Suitable for drag chains (10xØ)

► Technical Data

Order no.	KAG500	KAG500-02	KAG500S4	KAG500B4	KAG1000B8
Fixing thread	M8	M12	M8	M8	M12
No. of contacts	3	3	4	4	8
Cable length [m]	5	5	5	5	10
Cable-Ø [mm]	4.0	4.3	4.3	4.3	6.7
Cable sheath material	PUR	PUR	PUR	PUR	PUR
Bend radius	10xØ	10xØ	10xØ	10xØ	10xØ
Protection to IEC 60529	IP67	IP67	IP67	IP67	IP67
Connection type	Female	Female	Male	Female	Female
Version [Type]	Straight	Straight	Straight	Straight	Straight

► SERIES S - PLUG-IN CONNECTOR CUSTOMIZABLE WITH SCREW-CUT-TERMINAL



- Plug-in connector for flexible fabrication on-site
- Time-saving fabrication without stripping insulation from individual wires

► Technical Data

Order no.	S8-G-3	S8-G-4	B8-G-4	S12-G-3	S12-G-4	S12-G-8
Connection type	Male	Male	Female	Male	Male	Male
Fixing thread	M8	M8	M8	M12	M12	M12
No. of contacts	3	4	4	3	4	8
Protection to IEC 60529	IP67	IP67	IP67	IP67	IP67	IP67
Version [Type]	Straight	Straight	Straight	Straight	Straight	Straight

► SERIES S - PLUG-IN CONNECTOR CUSTOMIZABLE WITH SOLDER CONNECTION



- Plug-in connector for flexible fabrication on-site

► Technical Data

Order no.	S8-W-3	S8-W-4	S12-W-8	B8-W-4
Connection type	Male	Male	Male	Female
Fixing thread	M8	M8	M12	M8
No. of contacts	3	4	8	4
Protection to IEC 60529	IP67	IP67	IP67	IP67
Version [Type]	Angle	Angle	Angle	Angle

► SERIES S - Y-PLUG-IN CONNECTOR



► Technical Data

Order no.	B8-Y-4	S8-Y-4
Connection type	Male / Socket / Male	Socket / Male / Socket
Fixing thread	M8	M8
No. of contacts	3 / 4 / 3	3 / 4 / 3
Protection to IEC 60529	IP67	IP67
Version [Type]	Y-Plug-in Connector	Y-Plug-in Connector

SENSORS AND HOLDERS

STOP STROKE ADJUSTMENT SCREWS

► SERIES AI - STOP STROKE ADJUSTMENT SCREWS



- Stop stroke adjustment screw for M12 sensor mount
- Stop stroke adjustment screw with customizable sensor mount

► Technical Data

Order no.	AI-M8X1-38	AI-M8X1-53	AI-M10X1-70
Fixing thread	M8X1	M8X1	M10X1
to match for Sensors-Ø [mm]	M12X1	M12X1	M12X1

► SERIES AO - STOP STROKE ADJUSTMENT SCREWS



- Stop stroke adjustment screw with customizable sensor mount

► Technical Data

Order no.	AO-M8X1-38	AO-M8X1-53	AO-M10X1-70
Fixing thread	M8X1	M8X1	M10X1
to match for Sensors-Ø [mm]	customizable	customizable	customizable

SENSORS & HOLDERS

HOLDERS

► SERIES KB - MOUNTING BLOCK

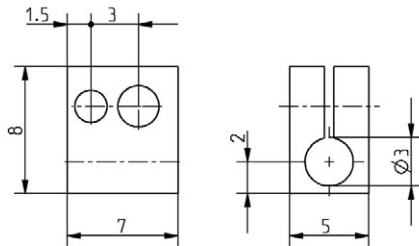


- Mounting for inductive proximity switch
- Available starting at \varnothing 3 mm

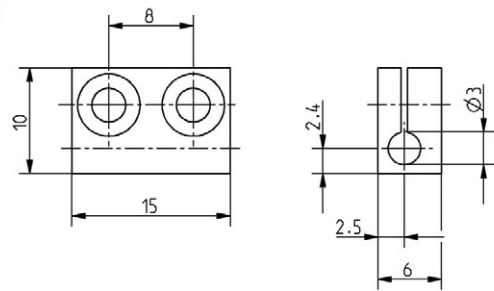
► Technical Data

Order no.	KB3	KB3M	KB4	KB5	KB6.5	KB8	KB12
to match for Sensors- \varnothing [mm]	3	3	4	5	6.5	8	12

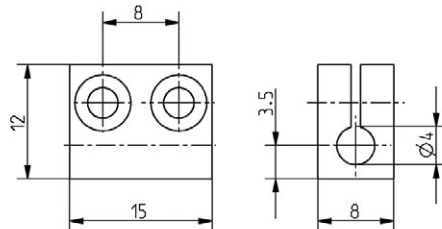
KB3M



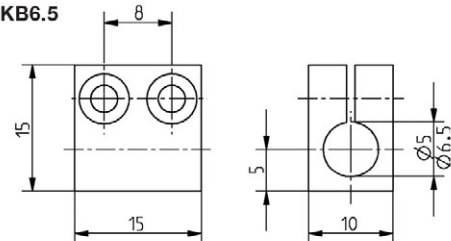
KB3



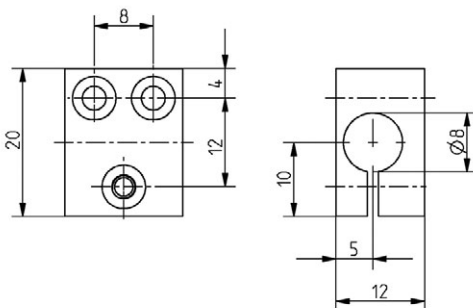
KB4



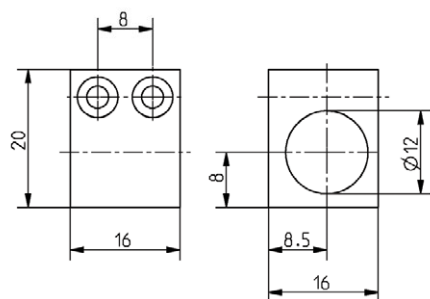
KB5 / KB6.5



KB8



KB12



VALVES, FITTINGS, ACCESSORIES

OVERVIEW OF SERIES



▶ FITTINGS



Series GV

864



Series WV

865

▶ VALVES



Series DRV

866



Series DSV

867



Series DEV

867

▶ JAW ACCESSORIES



Series DG

868



Series GR

868



Series J

868



Series GU

869



Series KF

870



Series BGM

870



Series BN

870



Series GU800

871

▶ JAW EXTENSIONS



Series GBV

872

▶ ROTARY DISTRIBUTORS



Series DV

874

▶ BUSBOX



Series ZUBBOX9000

875

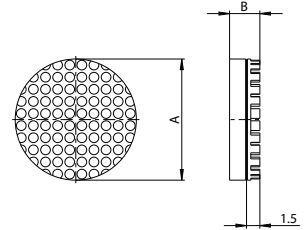
VALVES, FITTINGS, ACCESSORIES

JAW ACCESSORIES

► SERIES DG - RUBBER JAW PADS



- Available in different versions
- A packaging unit includes 6 pcs.



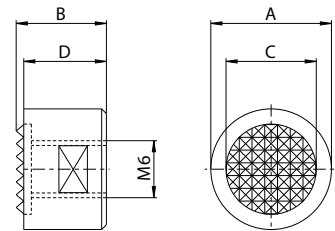
► Technical Data

Order no.	DG6	DG6SI	DG10	DG10SI	DG16	DG16SI	DG20	DG20SI
A [mm]	6	6	10	10	16	16	20	20
B [mm]	5	5	5	5	5	5	5	5
Material	Neoprene	Silicone	Neoprene	Silicone	Neoprene	Silicone	Neoprene	Silicone

► SERIES GR - HARD JAW INSERTS



- Available in different versions



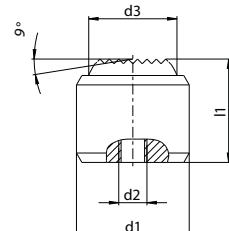
► Technical Data

Order no.	GR4	GR4A	GR4C	GR5	GR6
A [mm]	12.7	12.7	12.7	15.8	19
B [mm]	9.5	12.7	16.5	9.5	9.5
C [mm]	9.5	9.5	9.5	12.7	15.8
D [mm]	8.7	11.9	15.8	8.7	8.7

► SERIES J - HARD JAW INSERTS, FLOATING



- Available in different versions



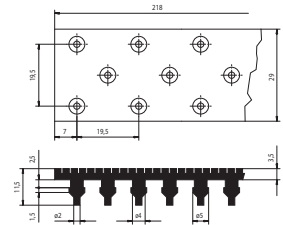
► Technical Data

Order no.	J712	J718	J728
Ø- d1	12n6	18n6	28n6
Ø- d2 [mm]	M3	M4	M5
Ø- d3 [mm]	7	10	20
L1 [mm]	10	16	25

► SERIES GU - RUBBER JAW LINERS



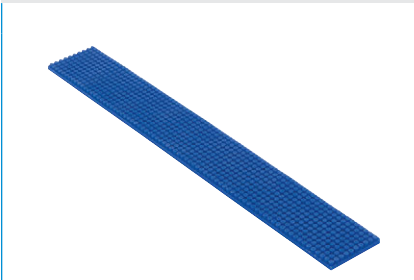
- Available in different versions
- GU1: Basic jaw with infeed knobs
- Receiver holes for infeed knobs - 4.5 mm



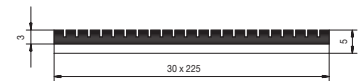
► Technical Data

Order no.	GU1	GU1SI
Resistance DIN53504 min. [N/mm ²]	10	10
Material	Neoprene	Silicone
Color	Black	Blue
Operating temperature max. [°C]	120	200
Shore hardness	65 +/- 3	60 +/- 5

► SERIES GU - RUBBER JAW LINERS



- Available in different versions
- Rubber jaw with baseplate made of aluminum



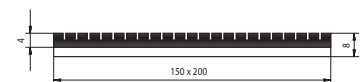
► Technical Data

Order no.	GU2	GU2SI
Resistance DIN53504 min. [N/mm ²]	10	10
Material	Neoprene	Silicone
Color	Black	Blue
Operating temperature max. [°C]	120	200
Shore hardness	65 +/- 3	60 +/- 5

► SERIES GU - RUBBER JAW LINERS



- Available in different versions
- Rubber jaw with baseplate made of aluminum



► Technical Data

Order no.	GU2G	GU2GSI
Resistance DIN53504 min. [N/mm ²]	10	10
Material	Neoprene	Silicone
Color	Black	Blue
Operating temperature max. [°C]	120	200
Shore hardness	65 +/- 3	60 +/- 5

VALVES, FITTINGS, ACCESSORIES

JAW ACCESSORIES

► SERIES KF - RUBBER COATED TAPE



- Smooth surface or knobbed surface Adjusts itself optimally to the shape of the gripper jaw ideal coefficients of friction and compensates for variations
- Resistant against adhesive materials

► Technical Data

Order no.	KF50G	KF50N
Size [mm]	500 x 100	500 x 100
Material	Impregnated cotton fabric with special coating	Impregnated cotton fabric with special coating
Surface	smooth	knobbed
Material thickness [mm]	0,48	0,48
Max. permitted temperature range [°C]	+60 (briefly up to +100 °C)	+60 (briefly up to +100 °C)
Tensile strength	0.9	0.9
Adhesive strength	22	22

► SERIES BGM - EPOXY JAW COMPOUND

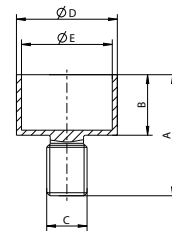


- For your individual gripper jaws in a few steps
- Hard as metal and can be used for the most sensitive parts due to silicone filling
- Sufficient for approximately 10 medium-sized jaw cups

► SERIES BN - JAW CUPS FOR EPOXY JAW COMPOUND



- Jaw Cups for Epoxy Jaw Compound (BGM)



► Technical Data

Order no.	BN8	BN12	BN16	BN20
A [mm]	8	12	16	20
B [mm]	4	6	8	10
C1	M3	M4	M5	M6
Ø- D [mm]	6	10	16	20
Ø- E [mm]	5	9	15	19

► SERIES GU800 - RUBBER MOULDING COMPOUND



- For complicated gripper fingers with boreholes, seals and roller coatings
- Repairs to conveyor belts, solid rubber tires, transport casters, pipes, vibration protection on machines and insulation protection

► Technical Data

Order no.	GU800
Mix ratio	100:50
Shore hardness level after hardening (ISO 868)	80
Sealed	1.04
Tensile strength (ISO 37) [N/mm ²]	8,5
Elongation at break (ISO 37)	900
Tear resistance (DIN 53356)	17
Permitted temperature range [°C]	-60 ... +90

VALVES, FITTINGS, ACCESSORIES

JAW EXTENSIONS

► SERIES GBV - JAW EXTENSIONS

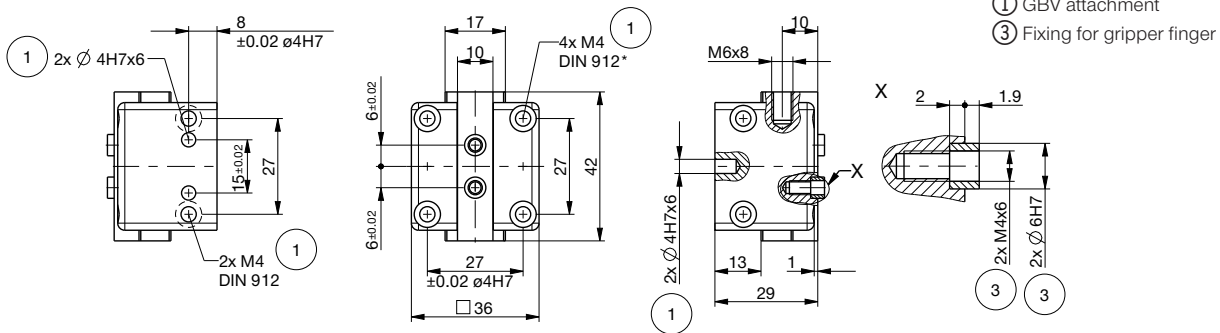


- GBV guide elements can be positioned at any desired distance from the gripper, including different distances
- Connection to gripper is made via threaded rods

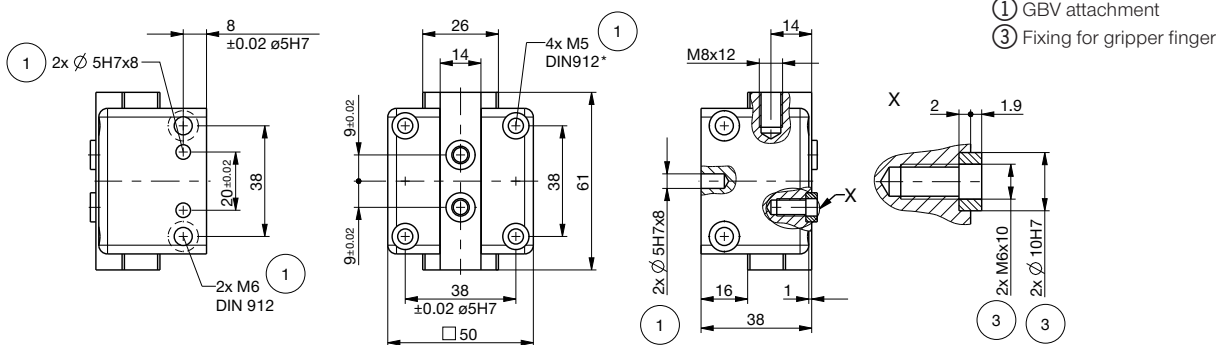
► Technical Data

Order no.	GBV36	GBV50	GBV72
Weight [kg]	0.14	0.4	1.3
Mr [Nm]	20	45	80
Mx [Nm]	50	110	160
My [Nm]	32	65	120
Fa [N]	650	1500	4000

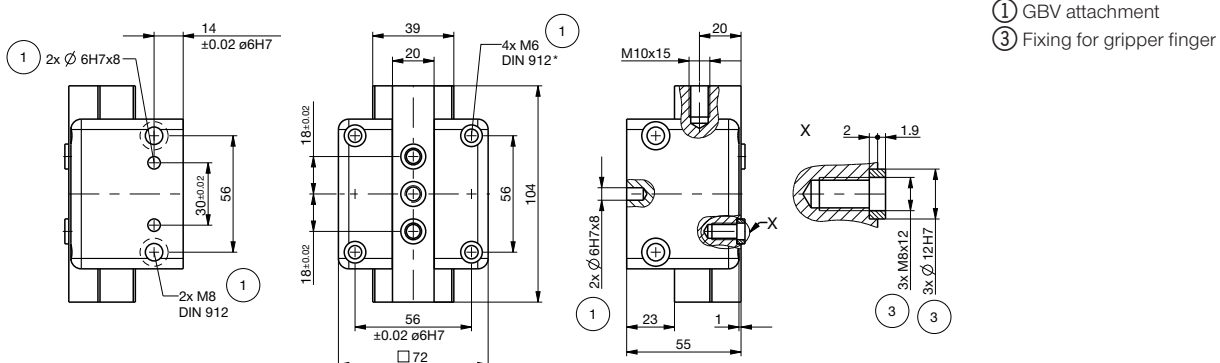
GBV36



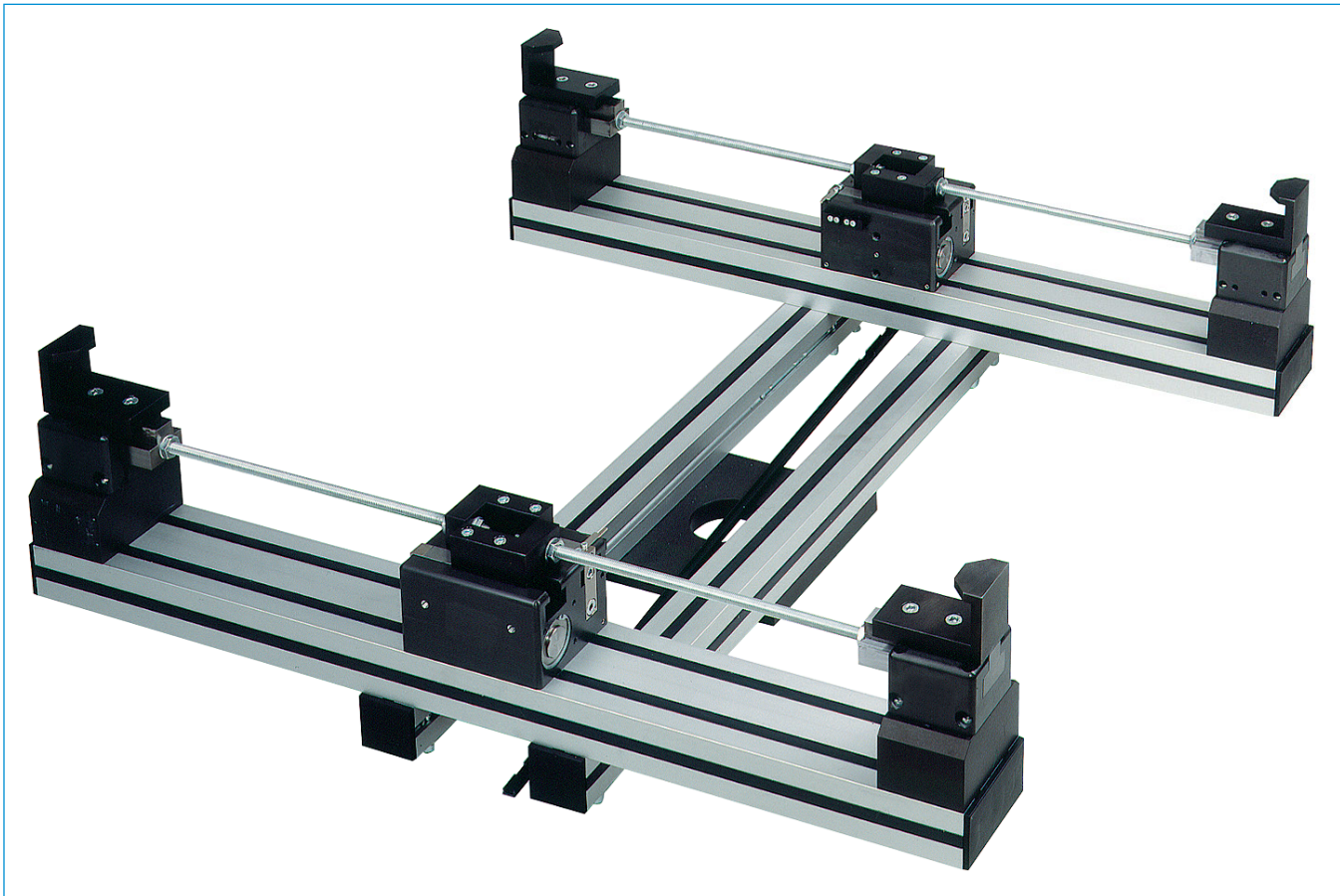
GBV50



GBV72



▶ APPLICATION EXAMPLE



VALVES, FITTINGS, ACCESSORIES

PNEUMATIC ROTARY MANIFOLDS

► SERIE DV - ROTARY DISTRIBUTOR

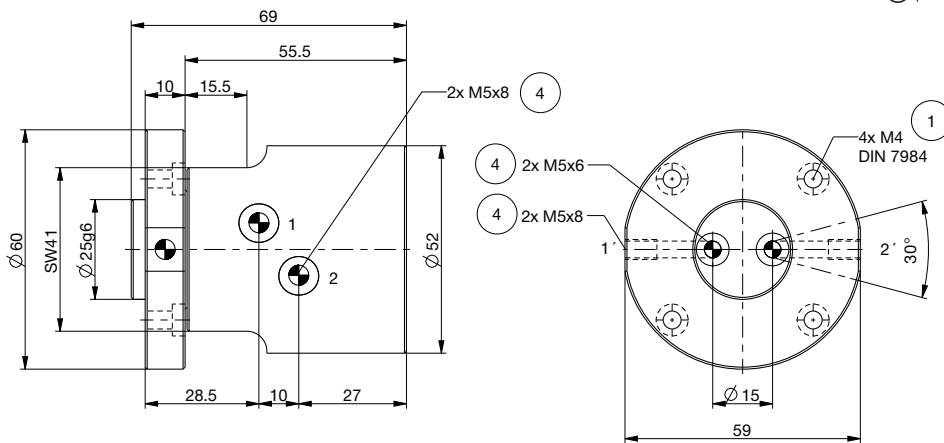


► available with 2 or 4 pneumatic feedthroughs

► Technical Data

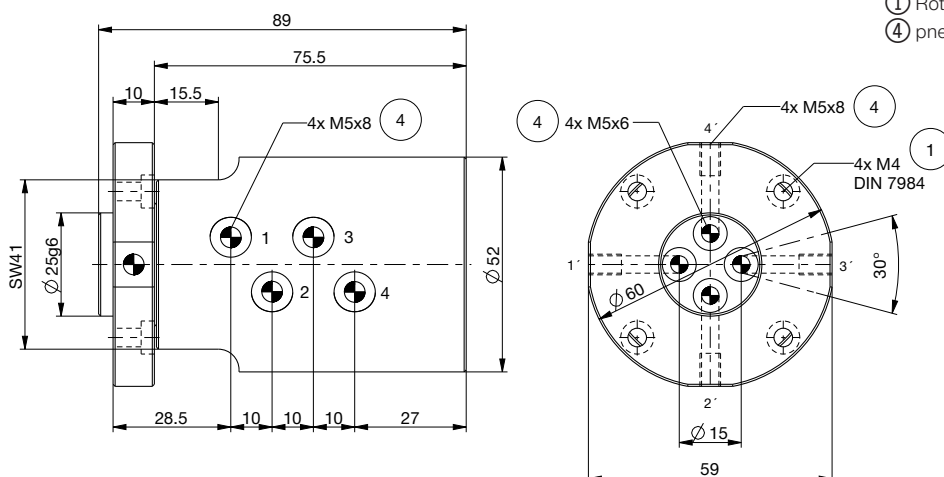
Order no.	DV2N-B	DV4N-B
Air feed-through [Quantity]	2	4
Maximum acceleration [m/s ²]	22	22
Maximum speed [°/s]	720	720
Axial bearing load [N]	1300	1300
Radial bearing load [Nm]	104	156
Operating pressure max. [bar]	10	10
Operating temperature [°C]	5 ... +80	5 ... +80
Weight [kg]	0.45	0.55

DV2N-B



- ① Rotary distributor attachment
- ④ pneumatic feed-through

DV4N-B



- ① Rotary distributor attachment
- ④ pneumatic feed-through

VALVES, FITTINGS, ACCESSORIES

BUSBOX

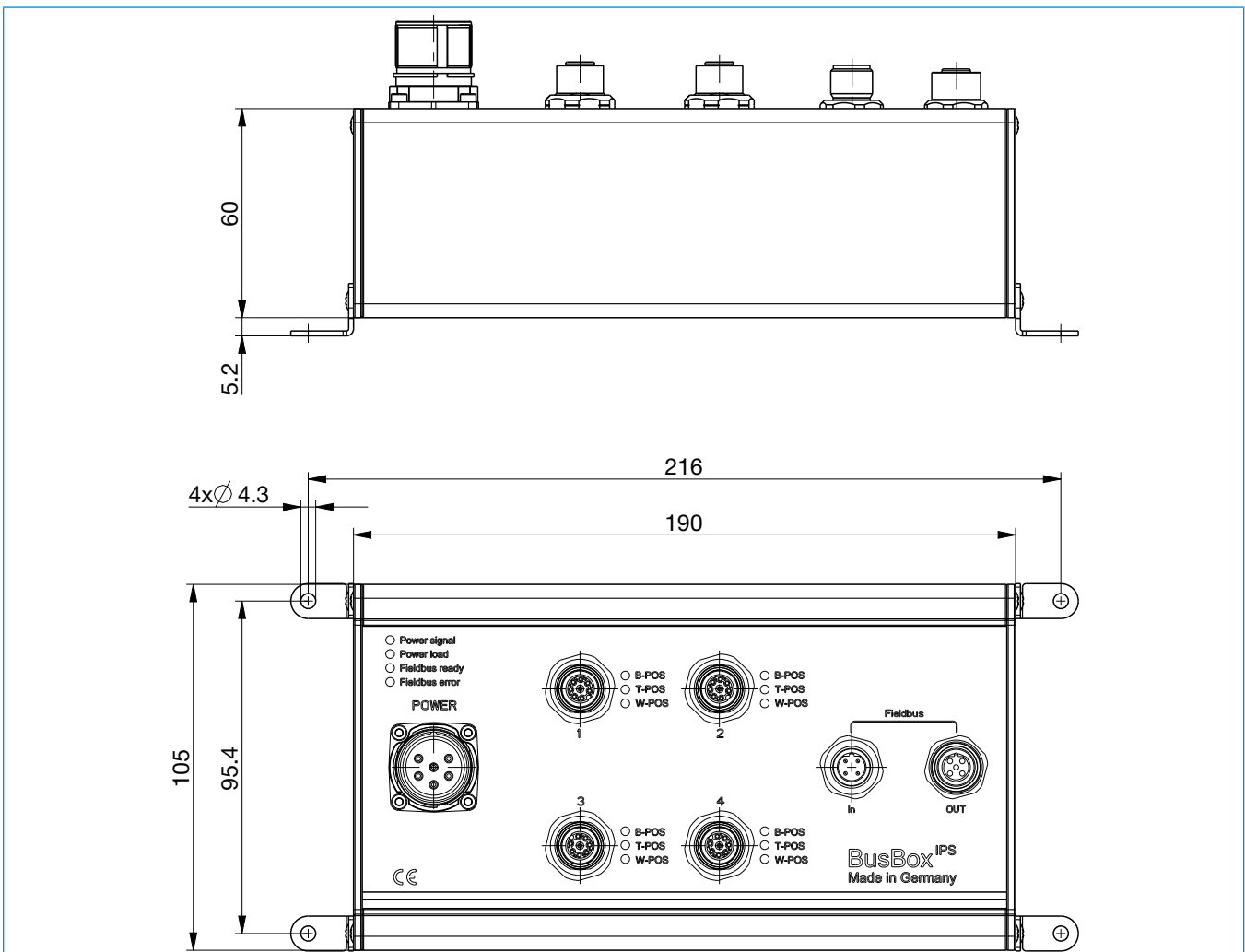
► SERIES ZUBBOX9000-01



- Control via Profibus
- 4 actuators of the series GEP, GEN and VEE can be connected
- Intelligent Power Supply - IPC
- Power storage via condensers

► Technical Data

Order no.	ZUBBOX9000-01
Control	Profibus
Actuator connectors max.	4
Signal voltage [V DC]	24
Load voltage [V DC]	24
Current feed min. [A]	5
Current feed max. [A]	10
Operating temperature [°C]	0 ... +50
Protection to IEC 60529	IP64
Certification	CE
Weight [kg]	1.1



CHECKLIST GRIPPER

Customer number	<input type="text"/>	Telephone number	<input type="text"/>
Company	<input type="text"/>	Fax number	<input type="text"/>
Contact Mr. <input type="checkbox"/> Mrs. <input type="checkbox"/>	<input type="text"/>	E-Mail	<input type="text"/>
<input type="checkbox"/> Request	Desired date	<input type="text"/>	Req. No. <input type="text"/>
<input type="checkbox"/> Order			Ord No. <input type="text"/>
<input type="checkbox"/> Parallel gripper	<input type="checkbox"/> Three-jaw gripper	<input type="checkbox"/> Angular gripper	
<input type="checkbox"/> Other / If yes, which type	<input type="text"/>		

Drive

Pneumatic Electric Hydraulic

Operating pressure bar Voltage Volts

Required stroke

Per jaw mm or Total stroke mm

Gripper finger length

Gripper top edge to force application point mm

Ambient conditions

Clean / Dry Small amount of swarf
Coolant overspray Large amount of swarf Coolant
under pressure of grinding agents

Chemical substances / If yes, which

Temperature °C Cycles per minute

Required force

Gripping force N or Workpiece weight kg g

Gripping type

Gripping inward Gripping outward

Frictional fit Form fit

Prism angle ° Coefficient of friction Axis acceleration m/s²

Self Locking

Not required When closing When opening Pressure safety valve

Desired accessories

Inductive sensor Magnetic field sensor With cable Pluggable

Separate cable / If yes, how long m

Straight fitting

Angled fitting

Pressure safety valve

Pneumatic fittings / If yes, which

Straight

Angled

Flow control valve

Notes/comments

Editor/Date

Desired accessories

Sketch 3D model Other

USAGE NOTE

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Zimmer Group has a quality management system certified in accordance with ISO 9001:2008. Zimmer Group has an environmental management system certified in accordance with ISO 14001:2004.



Handling technology 2

Robot accessories

- + Manual tool changers
- + Pneumatic tool changers
- + Rotary distributors
- + Axis compensation modules
- + Crash protection

THE KNOW-HOW FACTORY

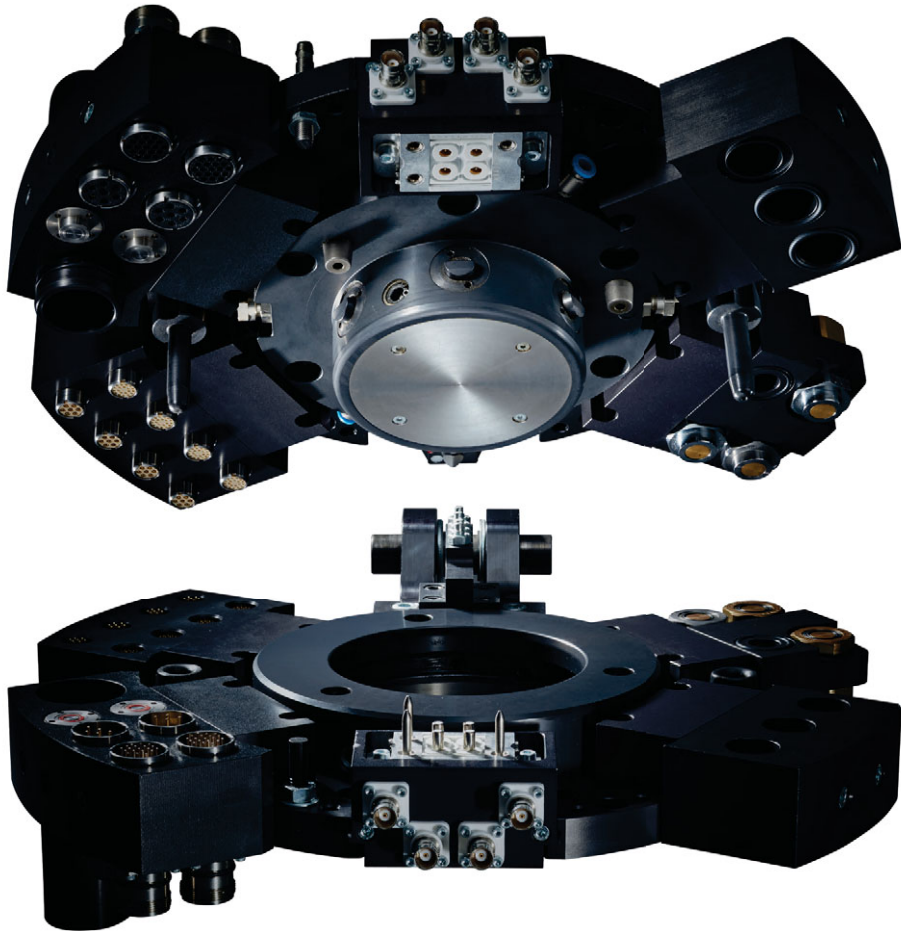
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ROBOT ACCESSORIES

OVERVIEW OF SERIES



1	TOOL CHANGERS MANUAL	8
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TOOL CHANGERS MANUAL

OVERVIEW OF SERIES



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TOOL CHANGERS

SERIES HWR2000

1

Series HWR2000 / Tool Changers / manual / Robot Accessories

▶ PRODUCT ADVANTAGES



▶ **Change in seconds**

Reduce your start up costs and minimise downtimes by changing your tool in seconds

▶ **Integrated air transfer system**

Integrated air transmission lets you activate your actuators. But power transmission is also possible

▶ **Includes loss protection**

Undesired falling of work pieces is eliminated - this means the highest safety for man and machine

▶ THE BEST PRODUCT FOR YOUR APPLICATION



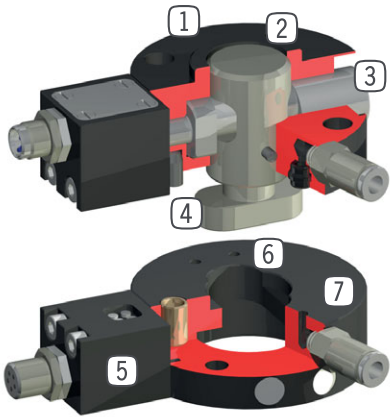
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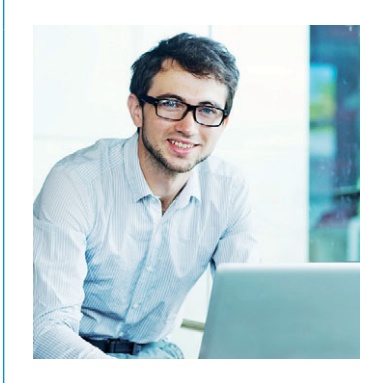
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► **BENEFITS IN DETAIL**



- ① **Fix part**
- for robot side assembly
- ② **Robot flange**
- partial mounting circle in accordance with EN ISO 9409-1
- ③ **Eccentric locking bolt**
- with spring supported snap in function
- ④ **Locking bolt**
- adapted to the clamping sleeve
- ⑤ **Pre-assembled standard energy element**
- ⑥ **Integrated air feed-through**
- air / vacuum transfer from fix to loose part, hoseless control possible
- ⑦ **Loose part**
- for tool side assembly

► **FURTHER INFORMATION IS AVAILABLE ONLINE**



► **Technical Information**
 All information just a click away at: www.zimmer-group.com
 Find data, illustrations, 3D models and operating instructions for your installation size using the order number for your desired product.
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TOOL CHANGERS

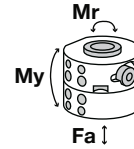
INSTALLATION SIZE HWR2031

▶ PRODUCT SPECIFICATIONS



▶ Forces and moments

Shows static forces and moments which may impact on the tool changer when locked.



Mr [Nm]	30
My [Nm]	25
Fa [N]	1000

▶ RECOMMENDED ACCESSORIES

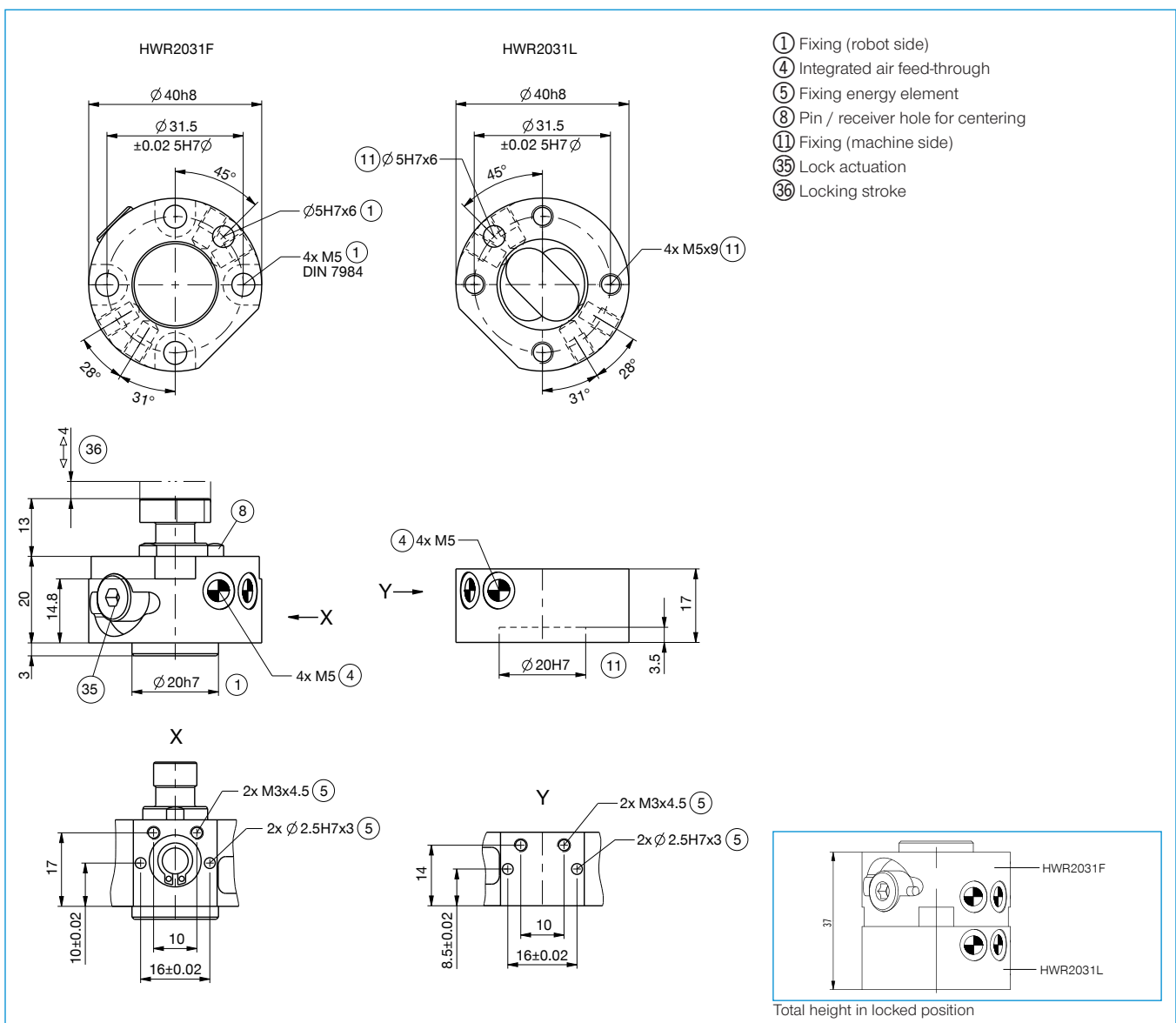


Straight Fittings - Quick Connect Style
GVM5



Energy Elements see page 18

Order no.	Technical Data	
	HWR2031F	HWR2031L
Connecting flange according EN ISO 9409-1	TK31,5	TK31,5
Recommended handling weight [kg]	5	5
Pneumatic energy transfer [Quantity]	4	4
Electrical energy transfer	optional	optional
Self limitation when locking	mechanical	mechanical
Locking stroke [mm]	4	-
Repetition accuracy in Z [mm]	0.01	0.01
Repetition accuracy in X, Y [mm]	0.02	0.02
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Moment of inertia [kg/cm ²]	0.13	0.1
Weight [kg]	0.09	0.04



TOOL CHANGERS

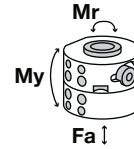
INSTALLATION SIZE HWR2040

▶ PRODUCT SPECIFICATIONS



▶ Forces and moments

Shows static forces and moments which may impact on the tool changer when locked.



Mr [Nm]	55
My [Nm]	50
Fa [N]	1200

▶ RECOMMENDED ACCESSORIES

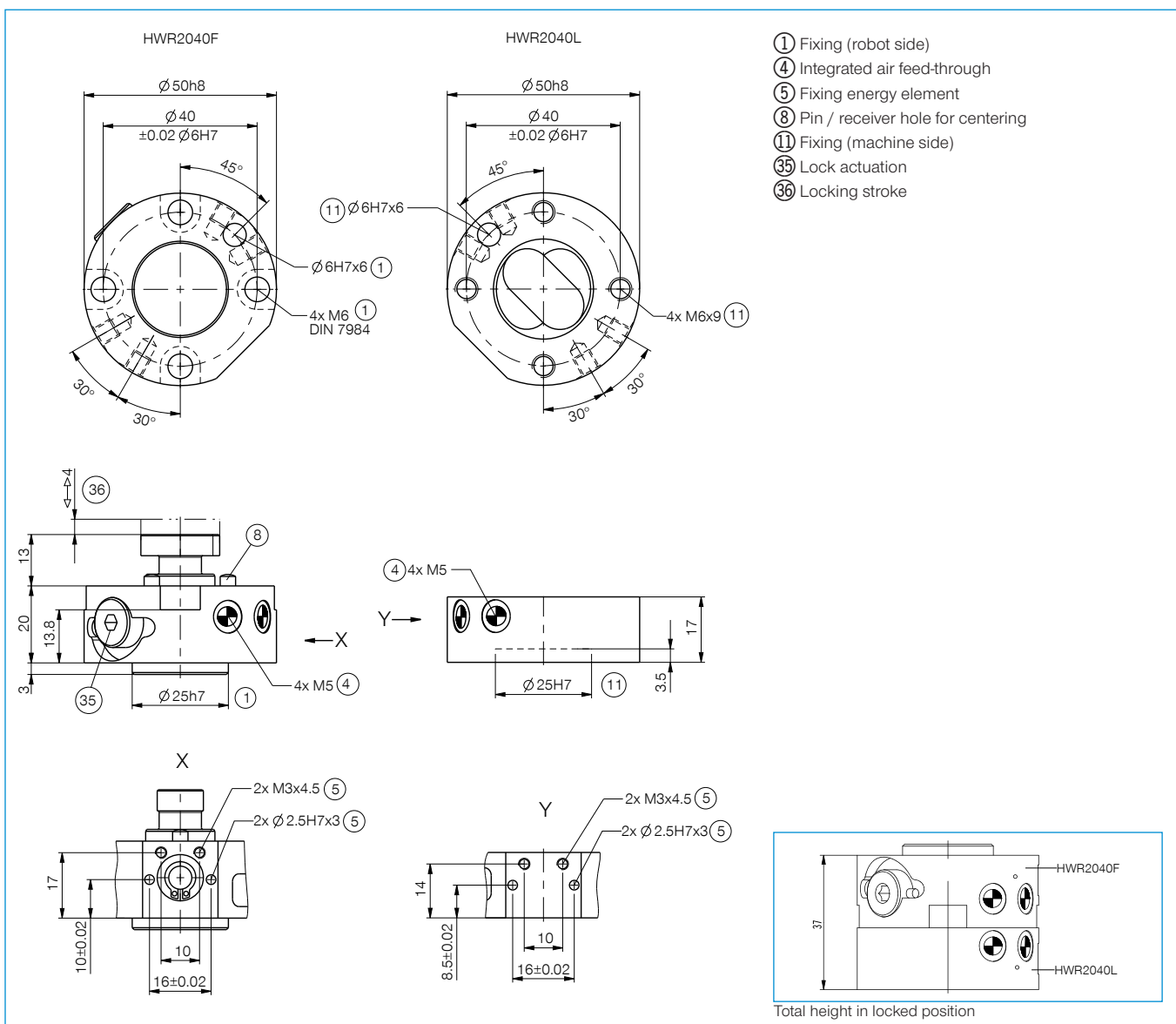


Straight Fittings - Quick Connect Style
GVM5



Energy Elements see page 18

Order no.	Technical Data	
	HWR2040F	HWR2040L
Connecting flange according EN ISO 9409-1	TK40	TK40
Recommended handling weight [kg]	10	10
Pneumatic energy transfer [Quantity]	4	4
Electrical energy transfer	optional	optional
Self limitation when locking	mechanical	mechanical
Locking stroke [mm]	4	-
Repetition accuracy in Z [mm]	0.01	0.01
Repetition accuracy in X, Y [mm]	0.02	0.02
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Moment of inertia [kg/cm ²]	0.33	0.26
Weight [kg]	0.145	0.07



TOOL CHANGERS

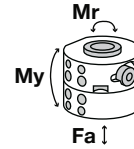
INSTALLATION SIZE HWR2050

▶ PRODUCT SPECIFICATIONS



▶ Forces and moments

Shows static forces and moments which may impact on the tool changer when locked.



Mr [Nm]	80
My [Nm]	70
Fa [N]	1600

▶ RECOMMENDED ACCESSORIES

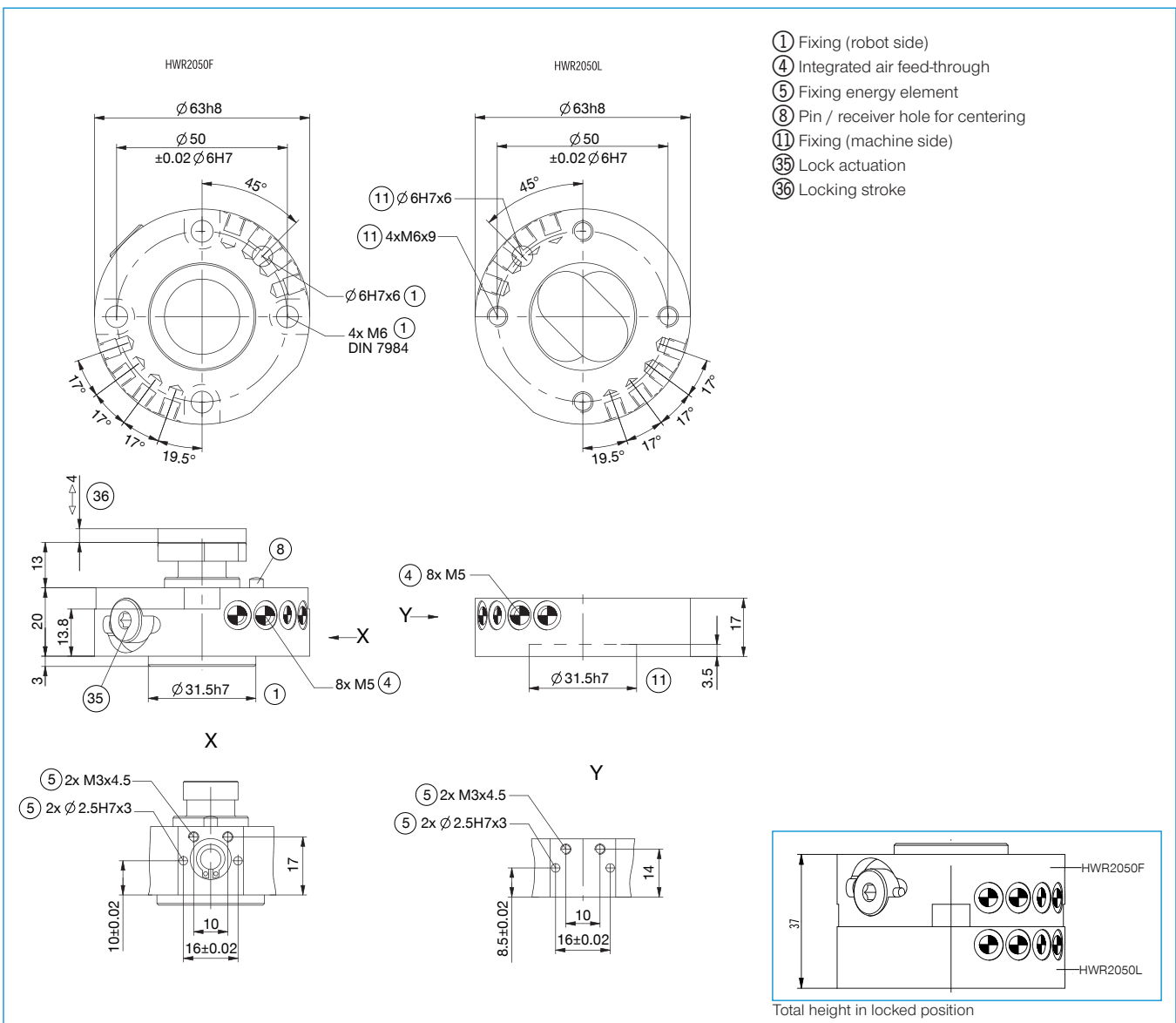


Straight Fittings - Quick Connect Style
GVM5



Energy Elements see page 18

Order no.	Technical Data	
	HWR2050F	HWR2050L
Connecting flange according EN ISO 9409-1	TK 50	TK 50
Recommended handling weight [kg]	20	20
Pneumatic energy transfer [Quantity]	8	8
Electrical energy transfer	optional	optional
Self limitation when locking	mechanical	mechanical
Locking stroke [mm]	4	-
Repetition accuracy in Z [mm]	0.01	0.01
Repetition accuracy in X, Y [mm]	0.02	0.02
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Moment of inertia [kg/cm ²]	0.86	0.67
Weight [kg]	0.23	0.115

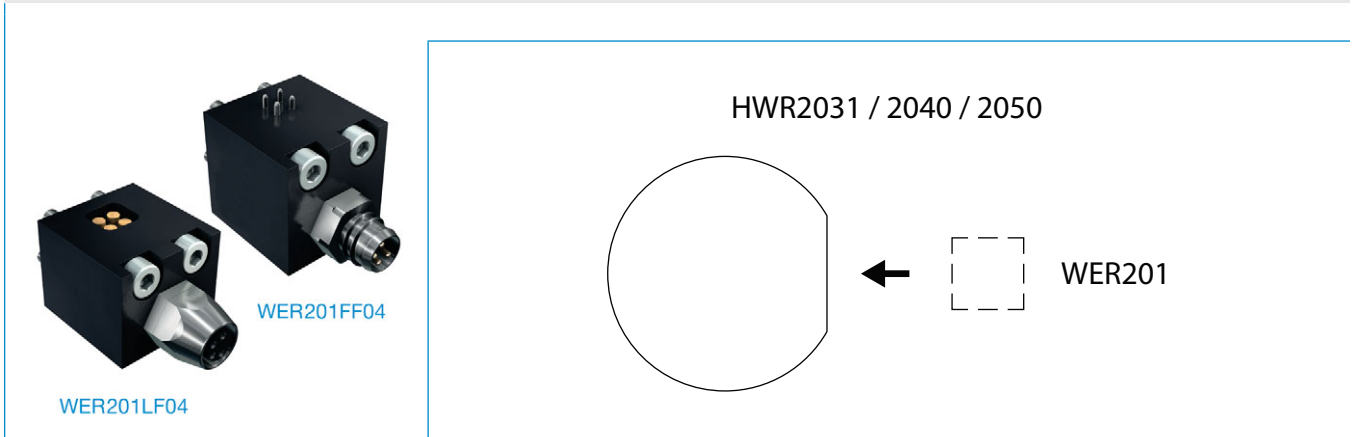


ENERGY ELEMENTS FOR TOOL CHANGER

SIZES HWR2031 / HWR2040 / HWR2050

1

▶ PRODUCT SPECIFICATIONS



▶ ELECTRICAL

▶ Technical Data

Order no.	WER201FF04	WER201LF04
compatible with	Fix part	Loose part
Connection type	Spring contact	Spring contact
Round Connector [Straight] *	KAG500B4	KAG500S4
Round Connector [Angle] *	KAW500B4	KAW500S4
Fixing thread	M8	M8
No. of contacts	4	4
Nominal current [A]	3	3
Supply voltage [V AC]	60	60
Supply voltage [V DC]**	75	75
Weight [kg]	0.03	0.03
Connection type	Male	Female

* als Zubehör erhältlich see page 63

** Specifications for on-site grounding, 60V without grounding

TOOL CHANGERS SERIES HWR

1

Series HWR / Tool Changers / manual / Robot Accessories

▶ PRODUCT ADVANTAGES



▶ **Change in seconds**

Reduce your start up costs and minimise downtimes by changing your tool in seconds

▶ **Integrated air transfer system**

Integrated air transmission lets you activate your actuators. But power transmission is also possible

▶ **Replacing with no tools required**

The locking lever fully integrated into the housing makes it possible to replace tools without any additional tools

▶ THE BEST PRODUCT FOR YOUR APPLICATION



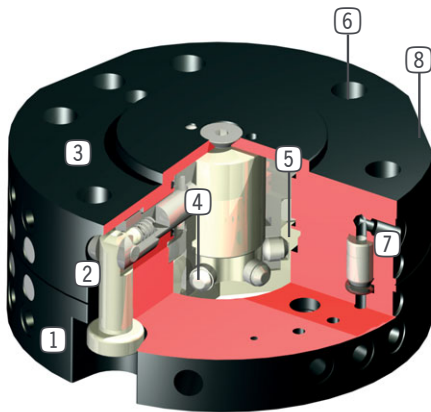
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► BENEFITS IN DETAIL



- ① **Loose part**
- for tool side assembly
- ② **Locking lever**
- with spring supported snap in function
- ③ **Fix part**
- for robot side assembly
- ④ **Locking bolt**
- adapted to the clamping sleeve
- ⑤ **Locking stroke**
- re-adjustable via locking sleeve
- ⑥ **Robot flange**
- partial mounting circle in accordance with EN ISO 9409-1
- ⑦ **Integrated air feed-through**
- air / vacuum transfer from fix to loose part, hoseless control possible
- ⑧ **Mounting for energy element**

► FURTHER INFORMATION IS AVAILABLE ONLINE



► Technical Information

All information just a click away at: www.zimmer-group.com

Find data, illustrations, 3D models and operating instructions for your installation size using the order number for your desired product.

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TOOL CHANGERS

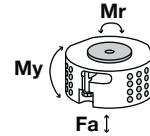
INSTALLATION SIZE HWR63

▶ PRODUCT SPECIFICATIONS



▶ Forces and moments

Shows static forces and moments which may impact on the tool changer when locked.



Mr [Nm]	200
My [Nm]	200
Fa [N]	1200

▶ INCLUDED IN DELIVERY



O-Ring

COR0025100

▶ RECOMMENDED ACCESSORIES



Straight Fittings - Quick Connect Style

GVM5



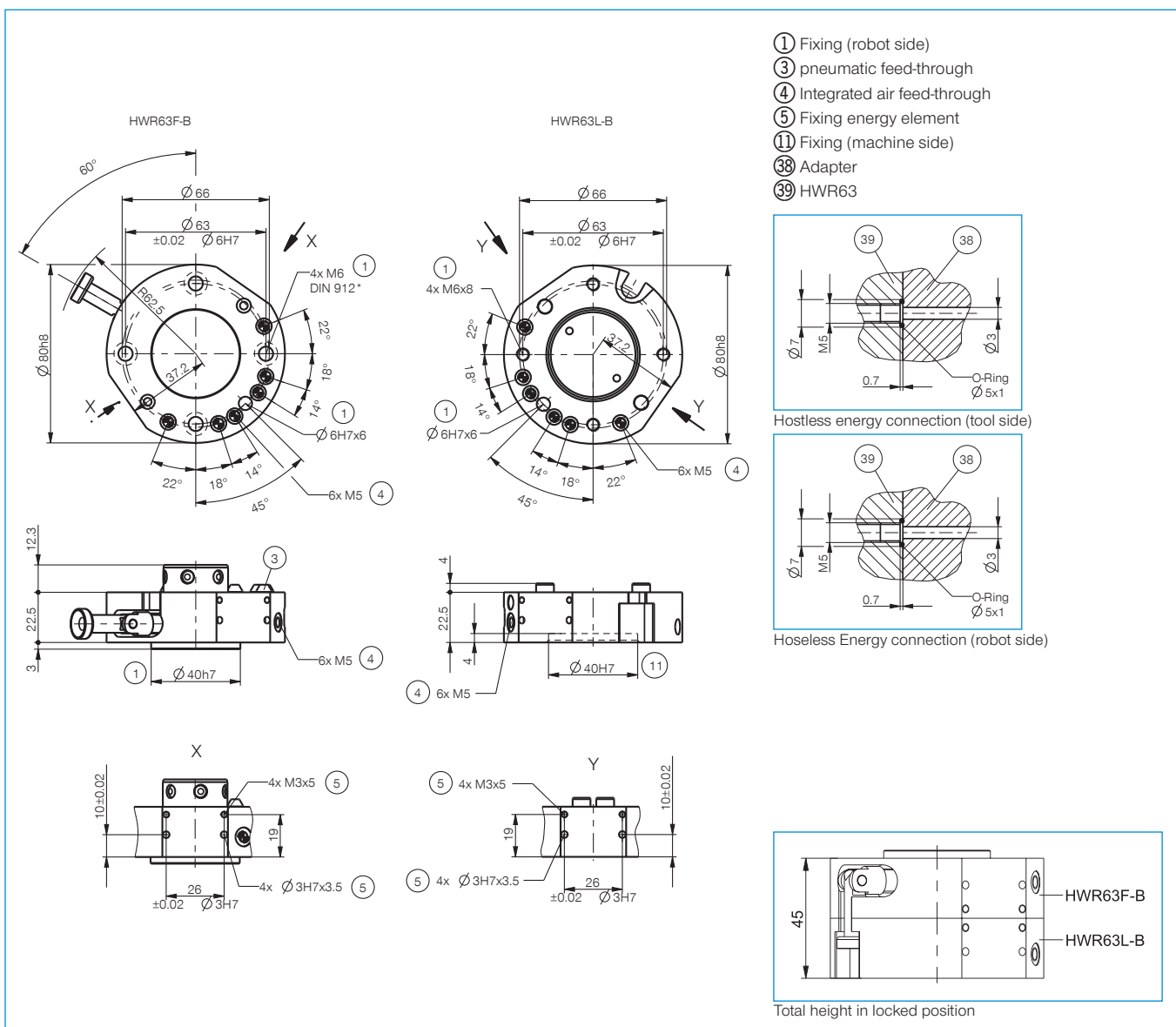
Angled Fittings - Quick Connect Style

WVM5



Energy Elements see page 26

Order no.	Technical Data	
	HWR63F-B	HWR63L-B
Connecting flange according EN ISO 9409-1	TK 63	TK 63
Recommended handling weight [kg]	50	50
Pneumatic energy transfer [Quantity]	6	6
Electrical energy transfer	optional	optional
Self limitation when locking	mechanical	mechanical
Locking stroke [mm]	1	-
Repetition accuracy in Z [mm]	0.01	0.01
Repetition accuracy in X, Y [mm]	0.02	0.02
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Moment of inertia [kg/cm ²]	3.8	2.6
Weight [kg]	0.45	0.3



TOOL CHANGERS

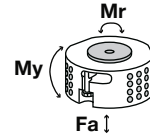
INSTALLATION SIZE HWR80

▶ PRODUCT SPECIFICATIONS



▶ Forces and moments

Shows static forces and moments which may impact on the tool changer when locked.



Mr [Nm]	300
My [Nm]	300
Fa [N]	1500

▶ INCLUDED IN DELIVERY



O-Ring

COR0025100

▶ RECOMMENDED ACCESSORIES



Straight Fittings - Quick Connect Style

GVM5



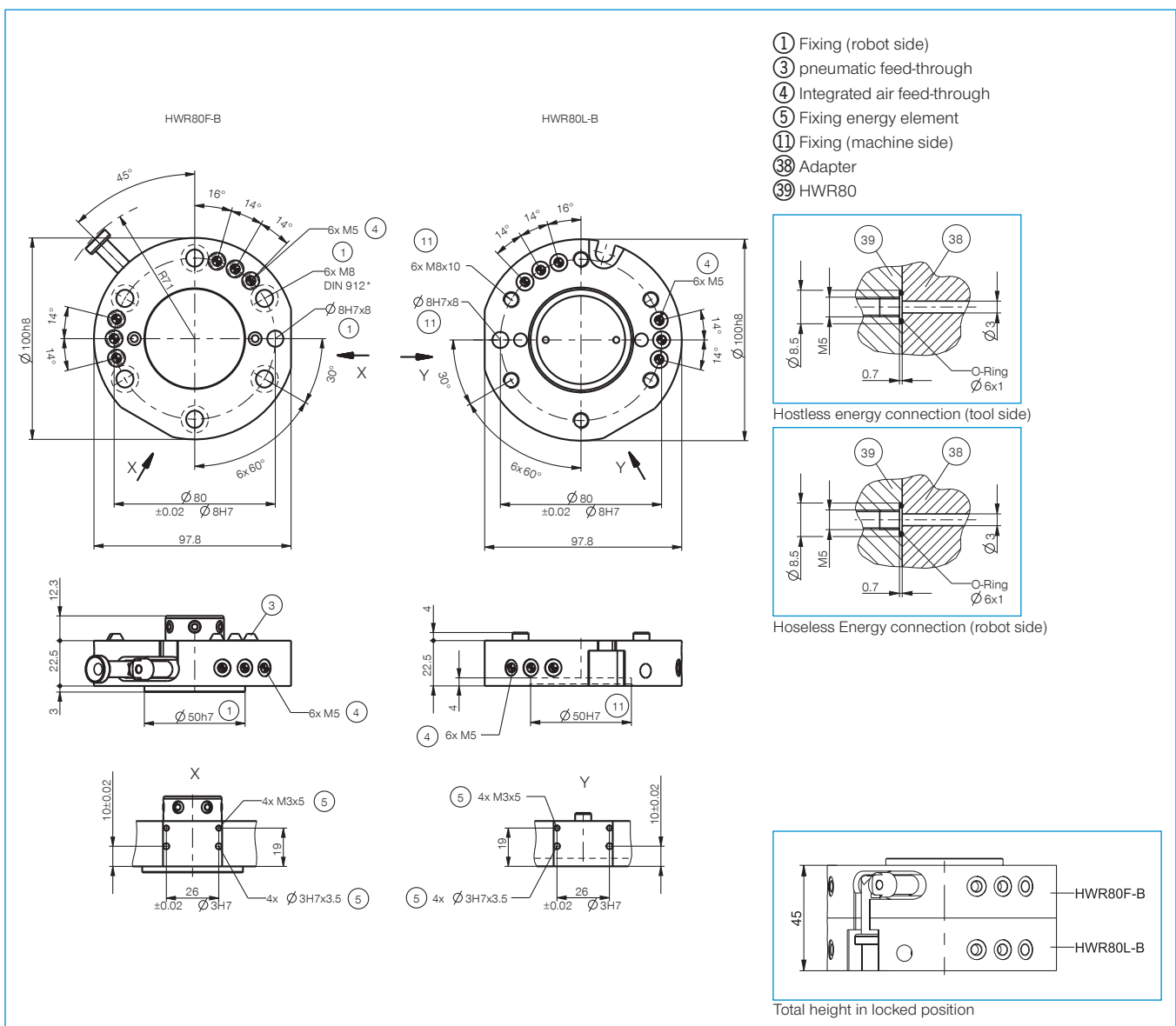
Angled Fittings - Quick Connect Style

WVM5



Energy Elements see page 26

Order no.	▶ Technical Data	
	HWR80F-B	HWR80L-B
Connecting flange according EN ISO 9409-1	TK 80	TK 80
Recommended handling weight [kg]	50	50
Pneumatic energy transfer [Quantity]	6	6
Electrical energy transfer	optional	optional
Self limitation when locking	mechanical	mechanical
Locking stroke [mm]	1	-
Repetition accuracy in Z [mm]	0.01	0.01
Repetition accuracy in X, Y [mm]	0.02	0.02
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Moment of inertia [kg/cm ²]	3.36	2.8
Weight [kg]	0.66	0.48

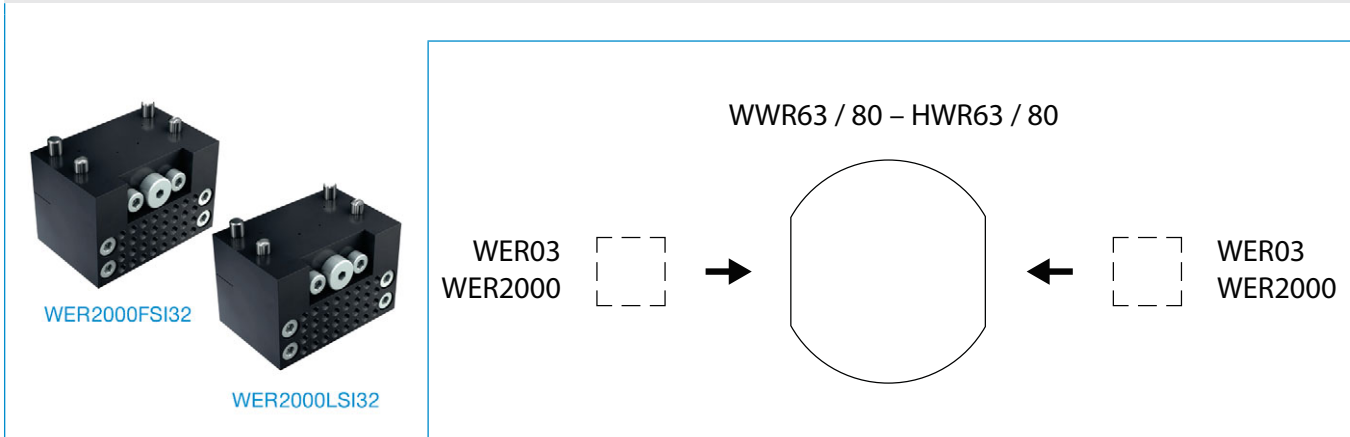


ENERGY ELEMENTS FOR TOOL CHANGER

SIZES HWR63 / HWR80

1

▶ PRODUCT SPECIFICATIONS



▶ FLUIDIC

▶ Technical Data

Order no.	WER2000FPL06-00	WER2000LPL06-00	WER2000FPL02-06	WER2000LPL02-06	WER2000FPL01-03	WER2000LPL01-03
compatible with	Fix part	Loose part	Fix part	Loose part	Fix part	Loose part
Fixing thread	M5	M5	G1/8"	G1/8"	G1/4"	G1/4"
Number of fluid couplings	6	6	2	2	1	1
Operating pressure [bar]	-0.6 ... 10	-0.6 ... 10	-0.6 ... 10	-0.6 ... 10	-0.6 ... 10	-0.6 ... 10
Weight [kg]	0.05	0.05	0.06	0.07	0.06	0.06

▶ ELECTRICAL

▶ Technical Data

Order no.	WER2000FSI32-05	WER2000LSI32-05	WER03FF04	WER03LF04	WER03FF09-B	WER03LF09-B
compatible with	Fix part	Loose part	Fix part	Loose part	Fix part	Loose part
Connection type	Spring contact	Spring contact	FST	FST	Spring contact	Spring contact
Round Connector [Straight] *	-	-	-	-	-	-
Round Connector [Angle] *	-	-	-	-	-	-
Fixing thread	-	-	-	-	-	-
No. of contacts	32	32	4	4	9	9
Nominal current [A]	3	3	3	3	3	3
Supply voltage [V AC]	60	60	60	60	60	60
Supply voltage [V DC]**	75	75	75	75	75	75
Weight [kg]	0.04	0.04	0.06	0.06	0.06	0.06
Connection type	Customizable	Customizable	Male	Female	Male/SUB-D	Female/SUB-D

*als Zubehör erhältlich see page 63

**Specifications for on-site grounding, 60V without grounding

TOOL CHANGERS PNEUMATIC

OVERVIEW OF SERIES



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TOOL CHANGERS SERIES WWR

▶ PRODUCT ADVANTAGES



▶ **Secure hold during pressure drop**

A redundant system, created by the combination of spring accumulator and a self-locking mechanism, guarantees a safe machine

▶ **Extremely flat design**

This structure reduces the moment load for your robot to a minimum and makes it possible to use smaller and more affordable sizes

▶ **Inexhaustible variety of media transfer systems**

No matter which medium you would like to transmit, we will draw from our wealth of experience in implementing projects and find a solution to suit your needs!

▶ THE BEST PRODUCT FOR YOUR APPLICATION



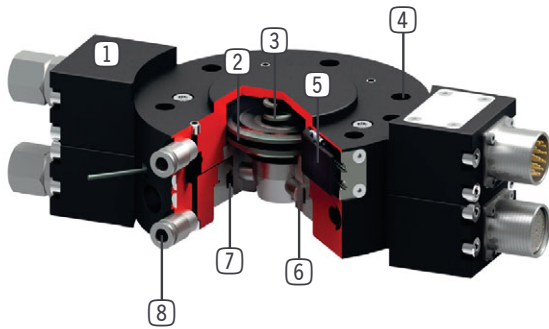
▶ **Our products love the challenge!**

Extreme conditions, all over the world—our tried and tested components and systems give you limitless possibilities:

Find the best product for your specific use:

www.zimmer-group.com

► BENEFITS IN DETAIL



- ① **Energy element**
- included in scope of delivery
- ② **Drive**
- double-acting pneumatic cylinder
- ③ **Integrated spring**
- energy storage in case of drop in pressure
- ④ **Robot flange**
- partial mounting circle in accordance with EN ISO 9409-1
- ⑤ **Piston position sensing**
- via magnetic field sensors
- ⑥ **Locking bolt**
- adapted to the clamping sleeve
- ⑦ **Locking sleeve**
- high moment capacity
- ⑧ **Integrated air feed-through**
- air / vacuum transfer from fix to loose part, hoseless control possible

► FURTHER INFORMATION IS AVAILABLE ONLINE



► Technical Information

All information just a click away at: www.zimmer-group.com

Find data, illustrations, 3-D models and operating instructions for your installation size using the order number for your desired product.

Quick, clear and always up-to-date.



TOOL CHANGERS

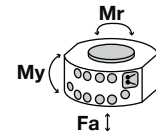
INSTALLATION SIZE WWR40

▶ PRODUCT SPECIFICATIONS



▶ Forces and moments

Shows static forces and moments which may impact on the tool changer.



Mr [Nm]	70
My [Nm]	90
Fa [N]	3800

▶ INCLUDED IN DELIVERY



O-Ring

COR0025100

▶ RECOMMENDED ACCESSORIES



Straight Fittings - Quick Connect Style

GVM5



Angled Fittings - Quick Connect Style

WVM5



Piston position sensing

ZUB0015



Inductive Proximity Switch
Cable 0,3 m - Connector
M8

NJR04-E2SK



Storage station

ALSR1-40-B



Inductive proximity switch
- Cable 5 m

NJ5-E2



Inductive Proximity Switch
Cable 0,3 m - Connector
M8

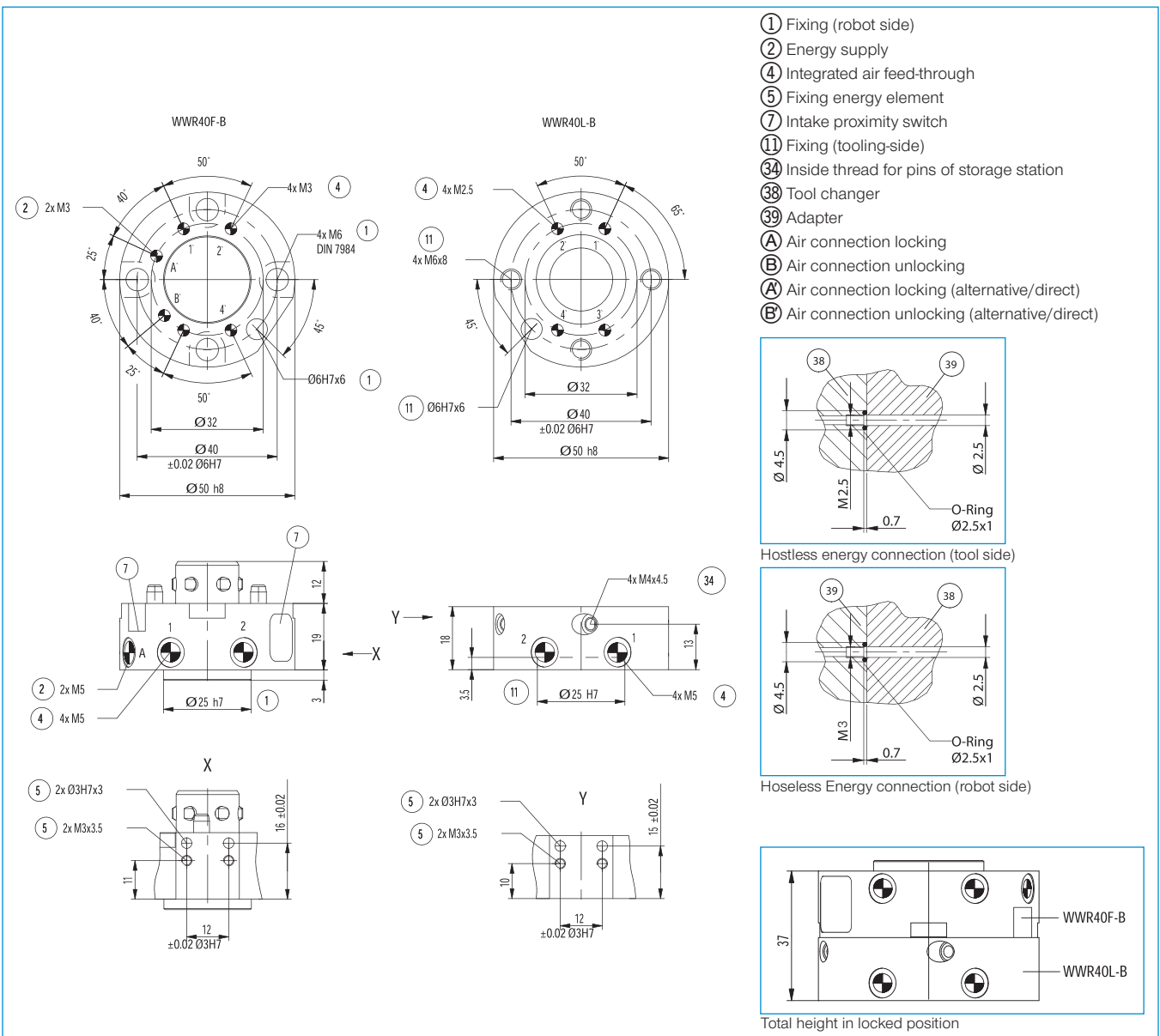
NJ5-E2SK



Energy Elements see
page 48

Order no.	► Technical Data*	
	WWR40F-B	WWR40L-B
Connecting flange according EN ISO 9409-1	TK40	TK40
Recommended handling weight [kg]	20	-
Pneumatic energy transfer [Quantity]	4	4
Electrical energy transfer	optional	optional
Hydraulic energy transfer	optional	optional
Self limitation when locking	mechanical	mechanical
Locking stroke [mm]	0.3	-
Repetition accuracy in Z [mm]	0.01	-
Repetition accuracy in X, Y [mm]	0.02	-
Joining force [N]	50	-
Release force [N]	30	-
Offset at coupling max. in X,Y [mm]	1.3	1.3
Operating pressure [bar]	4 ... 10	4 ... 10
Operating temperature [°C]	5 ... +80	5 ... +80
Air volume per cycle [cm³]	2.8	-
Moment of inertia [kg/cm²]	0.3	0.28
Weight [kg]	0.125	0.09

*All data measured at 6 bar



TOOL CHANGERS

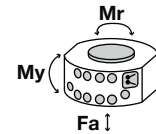
INSTALLATION SIZE WWR50

▶ PRODUCT SPECIFICATIONS



▶ Forces and moments

Shows static forces and moments which may impact on the tool changer.



Mr [Nm]	100
My [Nm]	105
Fa [N]	4000

▶ INCLUDED IN DELIVERY



O-Ring

COR0025100

▶ RECOMMENDED ACCESSORIES



Straight Fittings - Quick Connect Style

GVM5



Angled Fittings - Quick Connect Style

WVM5



Piston position sensing

ZUB0016



Inductive Proximity Switch
Cable 0,3 m - Connector
M8

NJR04-E2SK



Storage station

ALSR1-50-B



Inductive proximity switch
- Cable 5 m

NJ5-E2



Inductive Proximity Switch
Cable 0,3 m - Connector
M8

NJ5-E2SK

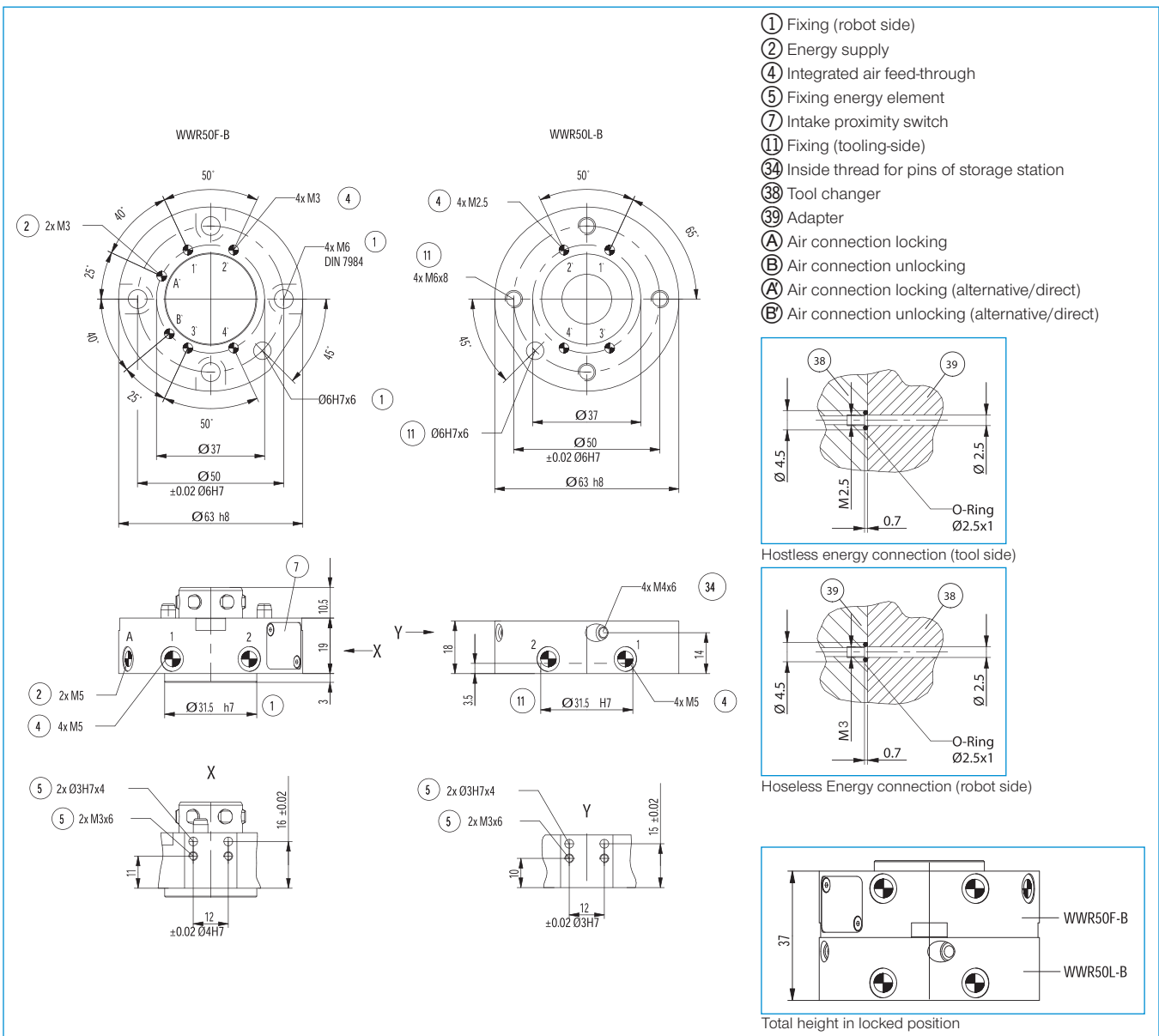


Energy Elements see
page

► Technical Data*

Order no.	WWR50F-B	WWR50L-B
Connecting flange according EN ISO 9409-1	TK 50	TK 50
Recommended handling weight [kg]	30	-
Pneumatic energy transfer [Quantity]	4	4
Electrical energy transfer	optional	optional
Hydraulic energy transfer	optional	optional
Self limitation when locking	mechanical	mechanical
Locking stroke [mm]	0.3	-
Repetition accuracy in Z [mm]	0.01	-
Repetition accuracy in X, Y [mm]	0.02	-
Joining force [N]	50	-
Release force [N]	30	-
Offset at coupling max. in X,Y [mm]	1.5	1.5
Operating pressure [bar]	4 ... 10	4 ... 10
Operating temperature [°C]	5 ... +80	5 ... +80
Air volume per cycle [cm³]	3	-
Moment of inertia [kg/cm²]	0.8	0.7
Weight [kg]	0.19	0.15

*All data measured at 6 bar



TOOL CHANGERS

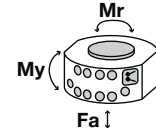
INSTALLATION SIZE WWR63

▶ PRODUCT SPECIFICATIONS



▶ Forces and moments

Shows static forces and moments which may impact on the tool changer.



Mr [Nm]	200
My [Nm]	300
Fa [N]	7600

▶ INCLUDED IN DELIVERY



O-Ring

COR0030100

▶ RECOMMENDED ACCESSORIES



Straight Fittings - Quick Connect Style

GVM5



Angled Fittings - Quick Connect Style

WVM5



Piston position sensing

ZUB0017



Inductive Proximity Switch Cable 0,3 m - Connector M8

NJR04-E2SK



Storage station

ALSR1-63-B



Inductive proximity switch - Cable 5 m

NJ8-E2



Inductive proximity switch - Connector M8

NJ8-E2S

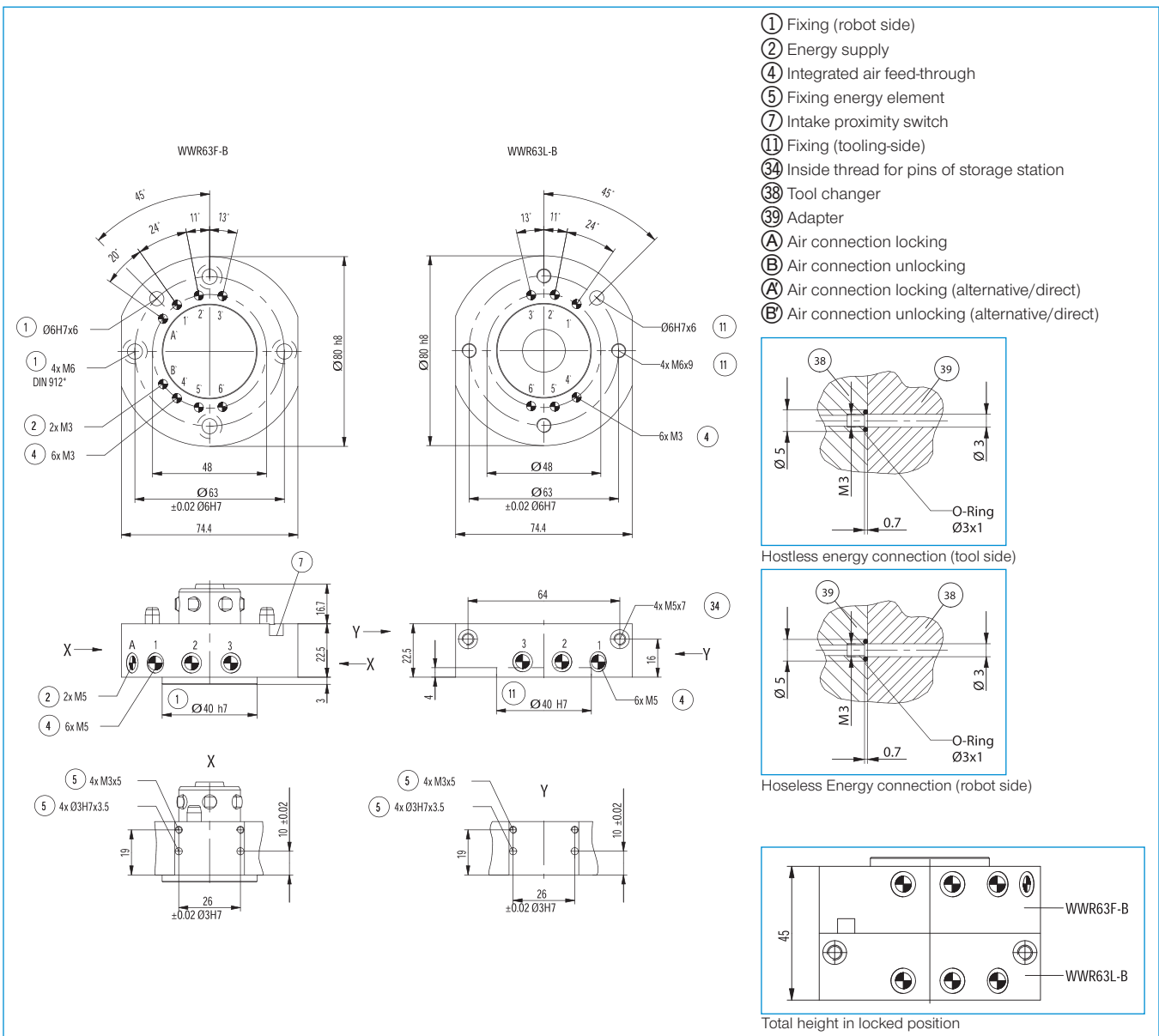


Energy Elements see page 49

► Technical Data*

Order no.	WWR63F-B	WWR63L-B
Connecting flange according EN ISO 9409-1	TK 63	TK 63
Recommended handling weight [kg]	50	-
Pneumatic energy transfer [Quantity]	6	6
Electrical energy transfer	optional	optional
Hydraulic energy transfer	optional	optional
Self limitation when locking	mechanical	mechanical
Locking stroke [mm]	1	-
Repetition accuracy in Z [mm]	0.01	-
Repetition accuracy in X, Y [mm]	0.02	-
Joining force [N]	110	-
Release force [N]	60	-
Offset at coupling max. in X,Y [mm]	1.65	1.65
Operating pressure [bar]	4 ... 10	4 ... 10
Operating temperature [°C]	5 ... +80	5 ... +80
Air volume per cycle [cm³]	9	-
Moment of inertia [kg/cm²]	2.3	2.2
Weight [kg]	0.37	0.28

*All data measured at 6 bar



TOOL CHANGERS

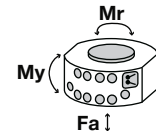
INSTALLATION SIZE WWR80

▶ PRODUCT SPECIFICATIONS



▶ Forces and moments

Shows static forces and moments which may impact on the tool changer.



Mr [Nm]	300
My [Nm]	600
Fa [N]	9150

▶ INCLUDED IN DELIVERY



O-Ring

COR0030100

▶ RECOMMENDED ACCESSORIES



Straight Fittings - Quick Connect Style

GVM5



Angled Fittings - Quick Connect Style

WVM5



Piston position sensing

ZUB0018



Inductive Proximity Switch
Cable 0,3 m - Connector
M8

NJR04-E2SK



Storage station

ALSR1-80-B



Inductive proximity switch
- Cable 5 m

NJ8-E2



Inductive proximity switch
- Connector M8

NJ8-E2S

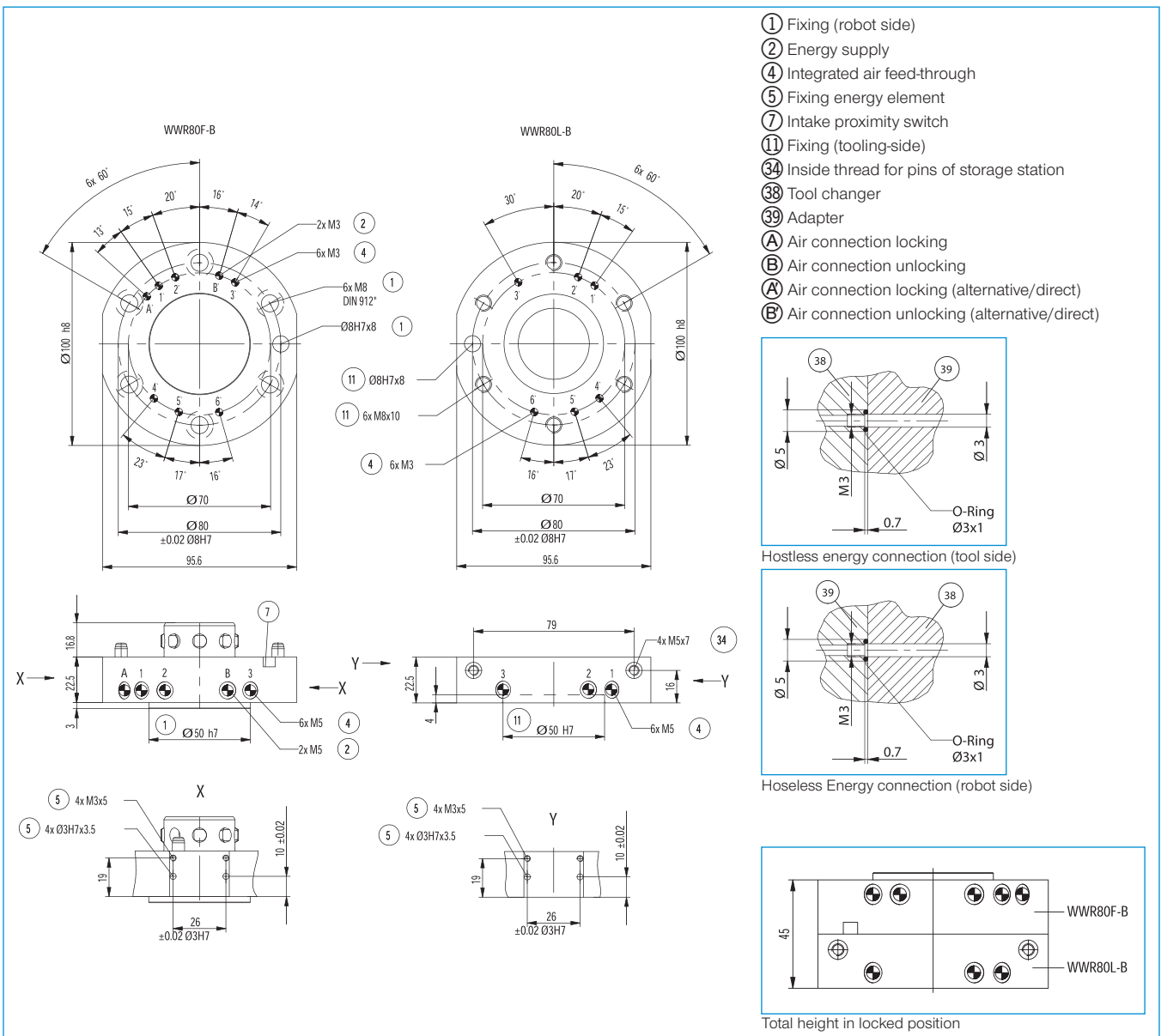


Energy Elements see
page 49

► Technical Data*

Order no.	WWR80F-B	WWR80L-B
Connecting flange according EN ISO 9409-1	TK 80	TK 80
Recommended handling weight [kg]	70	-
Pneumatic energy transfer [Quantity]	6	6
Electrical energy transfer	optional	optional
Hydraulic energy transfer	optional	optional
Self limitation when locking	mechanical	mechanical
Locking stroke [mm]	1	-
Repetition accuracy in Z [mm]	0.01	-
Repetition accuracy in X, Y [mm]	0.02	-
Joining force [N]	100	-
Release force [N]	60	-
Offset at coupling max. in X,Y [mm]	1.65	1.65
Operating pressure [bar]	4 ... 10	4 ... 10
Operating temperature [°C]	5 ... +80	5 ... +80
Air volume per cycle [cm³]	16	-
Moment of inertia [kg/cm²]	5.6	5.5
Weight [kg]	0.58	0.45

*All data measured at 6 bar



TOOL CHANGERS

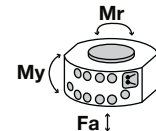
INSTALLATION SIZE WWR100

▶ PRODUCT SPECIFICATIONS



▶ Forces and moments

Shows static forces and moments which may impact on the tool changer.



Mr [Nm]	600
My [Nm]	850
Fa [N]	16000

▶ INCLUDED IN DELIVERY



O-Ring

COR0070150

▶ RECOMMENDED ACCESSORIES



Straight Fittings - Quick Connect Style

GV1-8X6



Angled Fittings - Quick Connect Style

WV1-8X6



Piston position sensing

ZUB0019



Inductive Proximity Switch
Cable 0,3 m - Connector
M8

NJR04-E2SK



Base module for storage
station

ALSR13100



Inductive proximity switch
- Cable 5 m

NJ8-E2



Inductive proximity switch
- Connector M8

NJ8-E2S

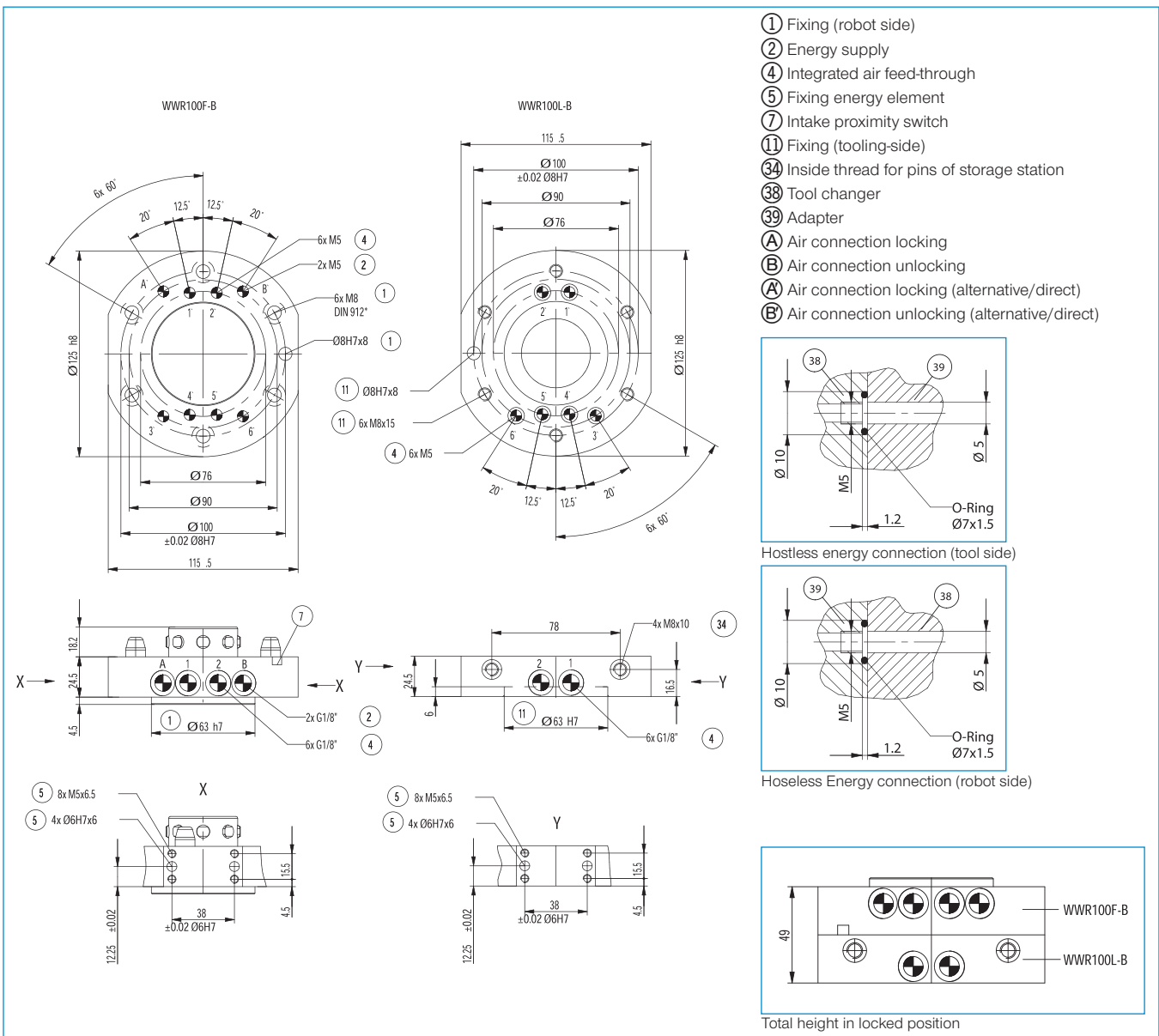


Energy Elements see
page 50

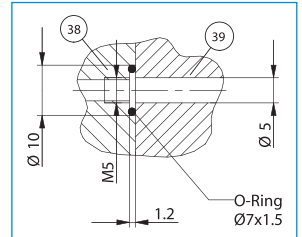
► Technical Data*

Order no.	WWR100F-B	WWR100L-B
Connecting flange according EN ISO 9409-1	TK 100	TK 100
Recommended handling weight [kg]	120	-
Pneumatic energy transfer [Quantity]	6	6
Electrical energy transfer	optional	optional
Hydraulic energy transfer	optional	optional
Self limitation when locking	mechanical	mechanical
Locking stroke [mm]	1.2	-
Repetition accuracy in Z [mm]	0.01	-
Repetition accuracy in X, Y [mm]	0.02	-
Joining force [N]	120	-
Release force [N]	75	-
Offset at coupling max. in X,Y [mm]	1.85	1.85
Operating pressure [bar]	4 ... 10	4 ... 10
Operating temperature [°C]	-	5 ... +80
Air volume per cycle [cm³]	25	-
Moment of inertia [kg/cm²]	14	13.9
Weight [kg]	0.96	0.725

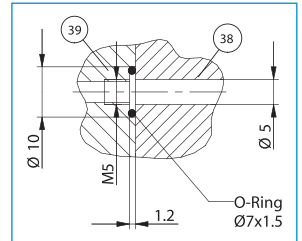
*All data measured at 6 bar



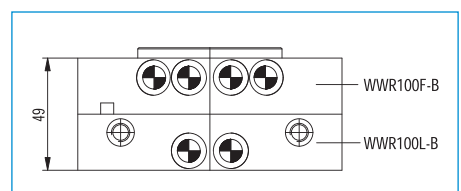
- ① Fixing (robot side)
- ② Energy supply
- ④ Integrated air feed-through
- ⑤ Fixing energy element
- ⑦ Intake proximity switch
- ⑪ Fixing (tooling-side)
- ⑬ Inside thread for pins of storage station
- ⑭ Tool changer
- ⑮ Adapter
- A Air connection locking
- B Air connection unlocking
- A Air connection locking (alternative/direct)
- B Air connection unlocking (alternative/direct)



Hostless energy connection (tool side)



Hoseless Energy connection (robot side)



Total height in locked position

TOOL CHANGERS

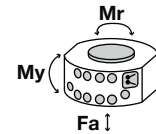
INSTALLATION SIZE WWR125

▶ PRODUCT SPECIFICATIONS



▶ Forces and moments

Shows static forces and moments which may impact on the tool changer.



Mr [Nm]	1500
My [Nm]	1700
Fa [N]	26000

▶ INCLUDED IN DELIVERY



O-Ring

COR0070150

▶ RECOMMENDED ACCESSORIES



Straight Fittings - Quick Connect Style

GV1-8X6



Angled Fittings - Quick Connect Style

WV1-8X6



Piston position sensing

ZUB0020



Inductive Proximity Switch Cable 0,3 m - Connector M8

NJR04-E2SK



Base module for storage station

ALSR13125



Inductive proximity switch - Cable 5 m

NJ8-E2



Inductive proximity switch - Connector M8

NJ8-E2S

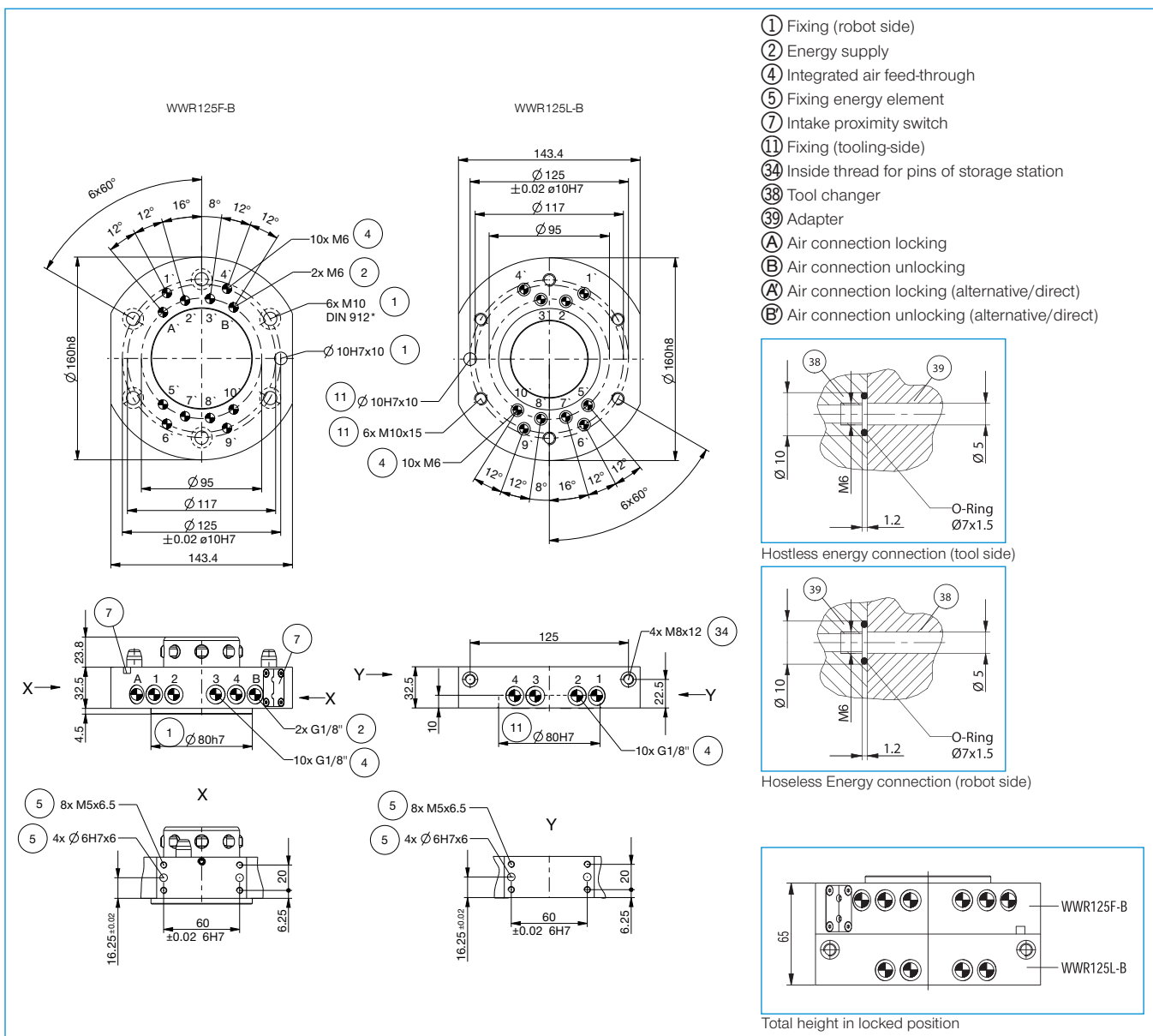


Energy Elements see page 52

► Technical Data*

Order no.	WWR125F-B	WWR125L-B
Connecting flange according EN ISO 9409-1	TK 125	TK 125
Recommended handling weight [kg]	230	-
Pneumatic energy transfer [Quantity]	10	10
Electrical energy transfer	optional	optional
Hydraulic energy transfer	optional	optional
Self limitation when locking	mechanical	mechanical
Locking stroke [mm]	1.3	-
Repetition accuracy in Z [mm]	0.01	-
Repetition accuracy in X, Y [mm]	0.02	-
Joining force [N]	150	-
Release force [N]	80	-
Offset at coupling max. in X,Y [mm]	2.85	2.85
Operating pressure [bar]	4 ... 10	4 ... 10
Operating temperature [°C]	5 ... +80	5 ... +80
Air volume per cycle [cm³]	80	-
Moment of inertia [kg/cm²]	48	42
Weight [kg]	2.1	1.45

*All data measured at 6 bar



TOOL CHANGERS

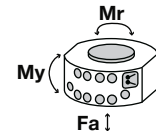
INSTALLATION SIZE WWR160

▶ PRODUCT SPECIFICATIONS



▶ Forces and moments

Shows static forces and moments which may impact on the tool changer.



Mr [Nm]	2000
My [Nm]	2200
Fa [N]	30000

▶ INCLUDED IN DELIVERY



O-Ring

COR0070150

▶ RECOMMENDED ACCESSORIES



Straight Fittings - Quick Connect Style

GV1-4X8



Angled Fittings - Quick Connect Style

WV1-8X6



Piston position sensing

ZUB0021



Inductive Proximity Switch Cable 0,3 m - Connector M8

NJR04-E2SK



Base module for storage station

ALSR13160



Inductive proximity switch - Cable 5 m

NJ8-E2



Inductive proximity switch - Connector M8

NJ8-E2S

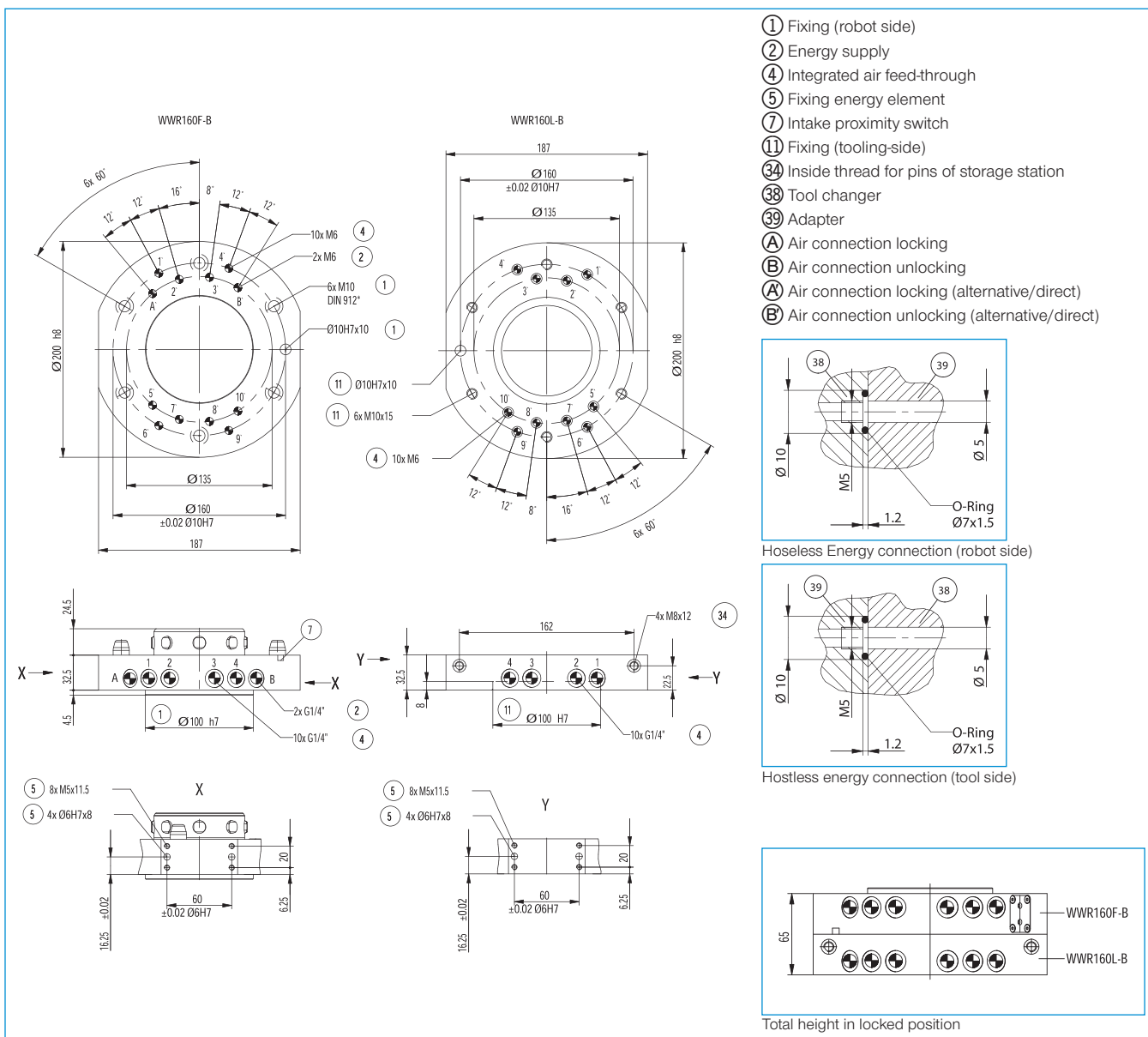


Energy Elements see page 52

► Technical Data*

Order no.	WWR160F-B	WWR160L-B
Connecting flange according EN ISO 9409-1	TK 160	TK 160
Recommended handling weight [kg]	300	-
Pneumatic energy transfer [Quantity]	10	10
Electrical energy transfer	optional	optional
Hydraulic energy transfer	optional	optional
Self limitation when locking	mechanical	mechanical
Locking stroke [mm]	1.3	-
Repetition accuracy in Z [mm]	0.01	-
Repetition accuracy in X, Y [mm]	0.02	-
Joining force [N]	150	-
Release force [N]	80	-
Offset at coupling max. in X,Y [mm]	2.85	2.85
Operating pressure [bar]	4 ... 10	4 ... 10
Operating temperature [°C]	5 ... +80	5 ... +80
Air volume per cycle [cm³]	97	-
Moment of inertia [kg/cm²]	134	132
Weight [kg]	3.7	2.6

*All data measured at 6 bar



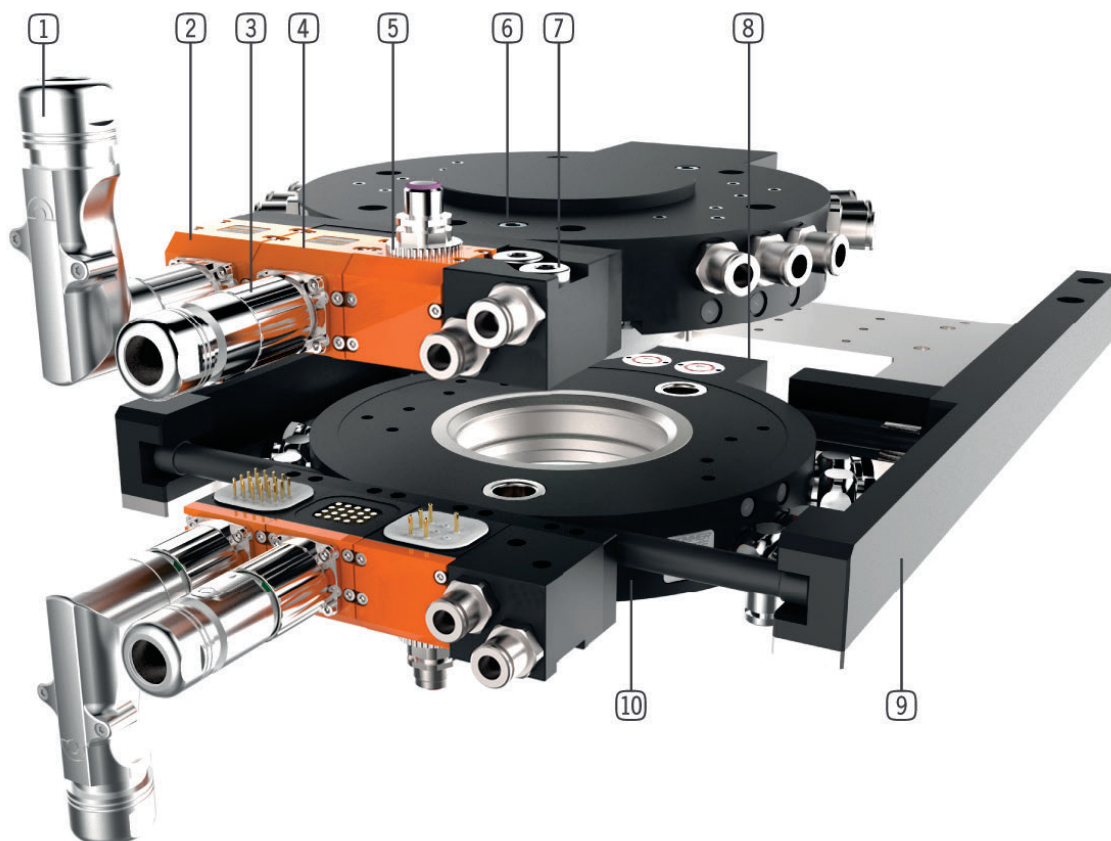
ENERGY ELEMENTS FOR TOOL CHANGER

SERIES WER1000 / WER2000 / WER3000

▶ HOW TO ORDER CORRECTLY

Order no.	WER	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-	<input type="checkbox"/>
Series	1000						
Series	2000						
Series	3000						
Fixed part (robot side)			F				
Loose part (at tool)			L				
Profibus				PB			
Profinet				PN			
Pneumatic/vacuum				PL			
Load current				LA			
Signal current				SI			
Number of connectors (fluidic, electrical)						XX	
No additional specifications							00
Sensor connection for WWR fixed part, outflow left							01
Sensor connection for WWR fixed part, outflow right							02
Fixing threads G1/4"							03
Fixing threads G3/8"							04
Solder cups							05
Fixing threads G1/8"							06
Coding Pin 1							07
Coding Pin 8							08
Spring-loaded contacts							09

► BENEFITS IN DETAIL



- ① **RSTV angled round plug**
 - For producing customer-specific cables
 - Pre-made cables available on request
- ② **WER energy element RST plug-in connector**
 - SI signal current for up to 150V and 6A
 - LA load current for up to 630V and 150A
- ③ **RSTV straight round plug**
 - For producing customer-specific cables
 - Pre-made cables available on request
- ④ **WER energy element FST spring contact connection**
 - SI signal current for up to 60V and 3A
- ⑤ **WER field bus energy element**
 - PN - Industrial Ethernet, PB - Profibus ad IL - I/O link
- ⑥ **WWR F tool changer fixed part**
 - Without adapter, may be mounted on robot flange EN ISO 9409-1
- ⑦ **WER energy element PL pneumatic/vacuum**
 - Connection options for screw fittings M5 to G3/8"
- ⑧ **WER energy element fluidic**
 - Max. operating pressure 350 bar, max. coupling pressure 300 bar
- ⑨ **ALSR storage station for WWR L loose part (10)**
 - Includes 4 rack bolts for tool changer loose part

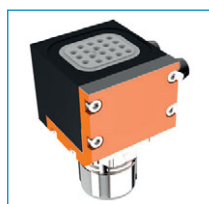
► SERIES WER3000 - VARIABLE SPATIAL ORIENTATION OF THE PLUG



Radial plug orientation



Rotate plug

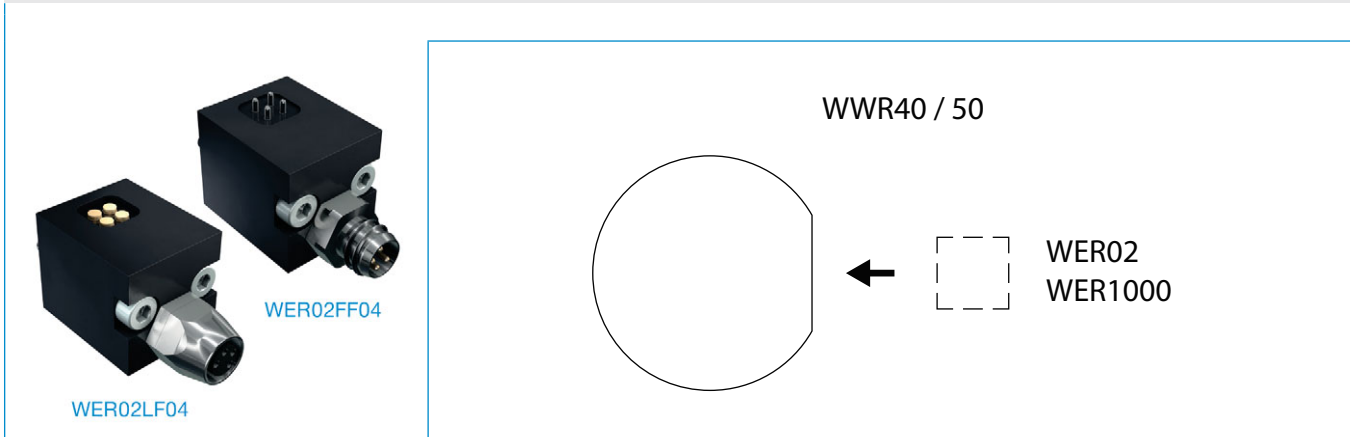


Axial plug orientation

ENERGY ELEMENTS FOR TOOL CHANGER

SIZES WWR40 / WWR50

▶ PRODUCT SPECIFICATIONS



▶ ELECTRICAL

▶ Technical Data

Order no.	WER02FS04	WER02LS04	WER02FF04	WER02LF04	WER1000FSI20-05	WER1000LSI20-05
compatible with	Fix part	Loose part	Fix part	Loose part	Fix part	Loose part
Connection type	Plug-in Connector	Plug-in Connector	Spring contact	Spring contact	Spring contact	Spring contact
Round Connector [Straight] *	KAG500B4	KAG500S4	KAG500B4	KAG500S4	-	-
Round Connector [Angle] *	KAW500B4	KAW500S4	KAW500B4	KAW500S4	-	-
Fixing thread	M8	M8	M8	M8	-	-
No. of contacts	4	4	4	4	20	20
Nominal current [A]	4	4	3	3	3	3
Supply voltage [V AC]	60	60	60	60	60	60
Supply voltage [V DC]**	75	75	75	75	75	75
Weight [kg]	0.03	0.03	0.03	0.03	0.02	0.02
Connection type	Male	Female	Male	Female	Customizable	Customizable

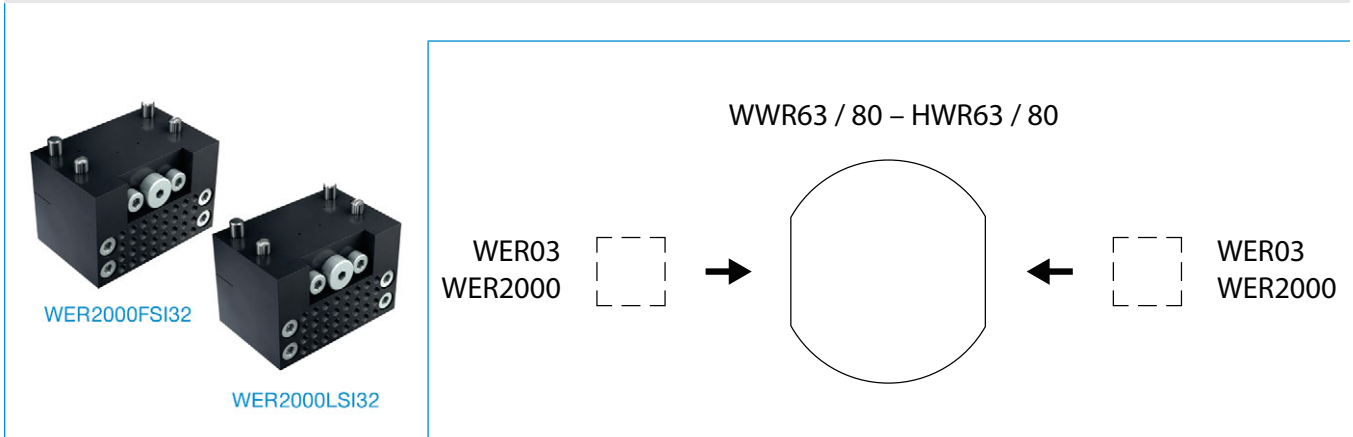
* als Zubehör erhältlich see page 63

** Specifications for on-site grounding, 60V without grounding

ENERGY ELEMENTS FOR TOOL CHANGER

SIZES WWR63 / WWR80

▶ PRODUCT SPECIFICATIONS



▶ FLUIDIC

▶ Technical Data

Order no.	WER2000FPL06-00	WER2000LPL06-00	WER2000FPL02-06	WER2000LPL02-06	WER2000FPL01-03	WER2000LPL01-03
compatible with	Fix part	Loose part	Fix part	Loose part	Fix part	Loose part
Fixing thread	M5	M5	G1/8"	G1/8"	G1/4"	G1/4"
Number of fluid couplings	6	6	2	2	1	1
Operating pressure [bar]	-0.6 ... 10	-0.6 ... 10	-0.6 ... 10	-0.6 ... 10	-0.6 ... 10	-0.6 ... 10
Weight [kg]	0.05	0.05	0.06	0.07	0.06	0.06

▶ ELECTRICAL

▶ Technical Data

Order no.	WER03FS04	WER03LS04	WER2000FSI32-05	WER2000LSI32-05	WER03FF09-B	WER03LF09-B
compatible with	Fix part	Loose part	Fix part	Loose part	Fix part	Loose part
Connection type	Plug-in Connector	Plug-in Connector	Spring contact	Spring contact	Spring contact	Spring contact
Round Connector [Straight] *	KAG500B4	KAG500S4	-	-	-	-
Round Connector [Angle] *	KAW500B4	KAW500S4	-	-	-	-
Fixing thread	M8	M8	-	-	-	-
No. of contacts	4	4	32	32	9	9
Nominal current [A]	4	4	3	3	3	3
Supply voltage [V AC]	60	60	60	60	60	60
Supply voltage [V DC]**	75	75	75	75	75	75
Weight [kg]	0.06	0.06	0.04	0.04	0.06	0.06
Connection type	Male	Female	Customizable	Customizable	Male/SUB-D	Female/SUB-D

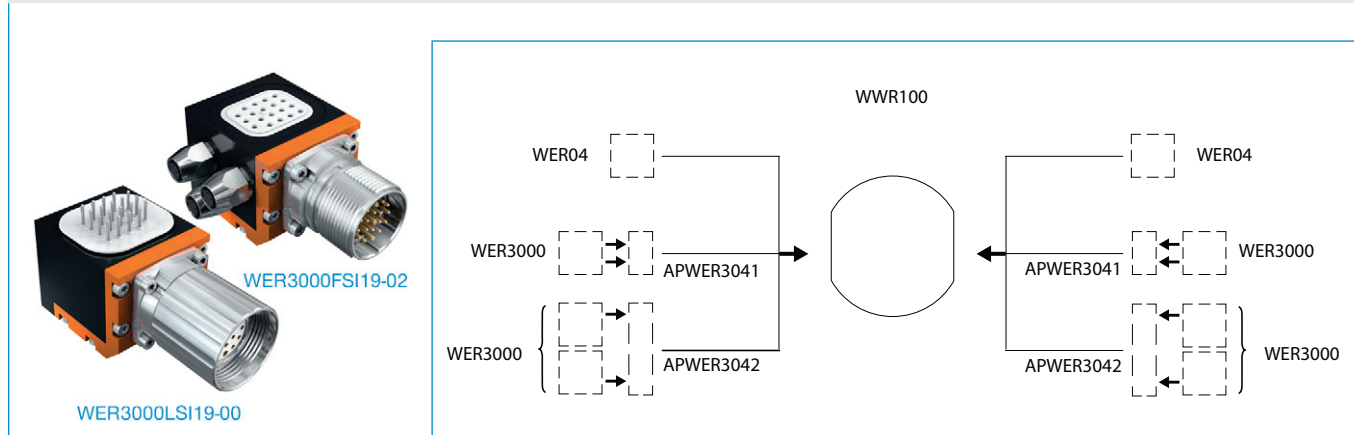
*als Zubehör erhältlich see page 63

**Specifications for on-site grounding, 60V without grounding

ENERGY ELEMENTS FOR TOOL CHANGER

SIZE WWR100

▶ PRODUCT SPECIFICATIONS



▶ FLUIDIC

▶ Technical Data

Order no.	WER04FH1	WER04LH1	WER04FH2	WER04LH2	WER04FH1D	WER04LH1D	WER04FH2D	WER04LH2D
compatible with	Fix part	Loose part	Fix part	Loose part	Fix part	Loose part	Fix part	Loose part
Fixing thread	G1/4"	G1/4"	G1/4"	G1/4"	G1/4"	G1/4"	G1/4"	G1/4"
Number of fluid couplings	1	1	2	2	1	1	2	2
Operating pressure max. [bar]*	350	350	350	350	350	350	350	350
Operating pressure max. [bar]**	15	15	15	15	350	350	350	350
Weight [kg]	0.20	0.20	0.35	0.35	0.20	0.20	0.35	0.35

* At pressures of approximately 50 bar and higher, there must be external locking of the elements.

** Observe coupling force

▶ Technical Data

Order no.	WER3000FPL02-03	WER3000LPL02-03	WER3000FPL01-04	WER3000LPL01-04
compatible with	Fix part	Loose part	Fix part	Loose part
Fixing thread	G1/4"	G1/4"	G3/8"	G3/8"
Number of fluid couplings	2	2	1	1
Operating pressure [bar]	-0.6 ... 10	-0.6 ... 10	-0.6 ... 10	-0.6 ... 10
Weight [kg]	0.13	0.13	0.13	0.13

▶ ELECTRICAL

▶ Technical Data

Order no.	WER3000FLA06-00	WER3000LLA06-00	WER3000FLA08-00	WER3000LLA08-00	WER3000FSI12-00	WER3000LSI12-00
compatible with	Fix part	Loose part	Fix part	Loose part	Fix part	Loose part
Connection type	Plug-in Connector	Plug-in Connector	Plug-in Connector	Plug-in Connector	Plug-in Connector	Plug-in Connector
Round Connector [Straight] *	RSTVLM23G06B-B	RSTVLM23G06S-B	RSTVLM23G08B-B	RSTVLM23G08S-B	RSTVSM23G12B-B	RSTVSM23G12S-B
Round Connector [Angle] *	RSTVLM23W06B-B	RSTVLM23W06S-B	RSTVLM23W08B-B	RSTVLM23W08S-B	RSTVSM23W12B-B	RSTVSM23W12S-B
Fixing thread	M23	M23	M23	M23	M23	M23
No. of contacts	5+PE	5+PE	(3+PE) / 4	(3+PE) / 4	12	12
Nominal current [A]	15	15	15/6	15/6	6	6
Supply voltage [V AC]	600	600	600/150	600/150	150	150
Weight [kg]	0.35	0.41	0.35	0.40	0.12	0.15
Connection type	Male	Female	Male	Female	Male	Female

* als Zubehör erhältlich see page 63

▶ ELECTRICAL

Order no.	▶ Technical Data			
	WER3000FSI19-00	WER3000LSI19-00	WER3000FSI19-09	WER3000LSI19-09
compatible with	Fix part	Loose part	Fix part	Loose part
Connection type	Plug-in Connector	Plug-in Connector	Spring contact	Spring contact
Round Connector [Straight] *	RSTVSM23G19B-B	RSTVSM23G19S-B	RSTVSM23G19B-B	RSTVSM23G19S-B
Round Connector [Angle] *	RSTVSM23W19B-B	RSTVSM23W19S-B	RSTVSM23W19B-B	RSTVSM23W19S-B
Fixing thread	M23	M23	M23	M23
No. of contacts	19	19	19	19
Nominal current [A]	6	6	3	3
Supply voltage [V AC]	150	150	60	60
Weight [kg]	0.13	0.15	0.13	0.15
Connection type	Male	Female	Male	Female

*als Zubehör erhältlich see page 63

▶ ELECTRICAL + 3 CONNECTION OPTIONS FOR WWR SENSORS

Order no.	▶ Technical Data		
	WER3000FSI19-01	WER3000FSI19-02	WER3000LSI19-00
compatible with	Fix part	Fix part	Loose part
Connection type	Plug-in Connector	Plug-in Connector	Plug-in Connector
Round Connector [Straight] *	RSTVSM23G19B-B	RSTVSM23G19B-B	RSTVSM23G19S-B
Round Connector [Angle] *	RSTVSM23W19B-B	RSTVSM23W19B-B	RSTVSM23W19S-B
Fixing thread	M23	M23	M23
No. of contacts	14+5 Sensoric	14+5 Sensoric	19
Nominal current [A]	6	6	6
Supply voltage [V AC]	150	150	150
Sensor linkage	Left	Right	-
Weight [kg]	0.16	0.16	0.15
Connection type	Male	Male	Female

*als Zubehör erhältlich see page 63

▶ FIELDBUS

Order no.	▶ Technical Data					
	WER3000FPN01-00	WER3000LPN01-00	WER3000FPB01-00	WER3000LPB01-00	WER3000FIL01-00	WER3000LIL01-00
compatible with	Fix part	Loose part	Fix part	Loose part	Fix part	Loose part
Data transmission	Profinet/Industrial Ethernet	Profinet/Industrial Ethernet	Profibus	Profibus	IO-Link	IO-Link
Data rate	100	100	12	12	-	-
Fixing thread	M12	M12	M12	M12	M12	M12
Weight [kg]	0.11	0.11	0.13	0.12	0.11	0.11

▶ ADAPTER PLATES

Order no.	▶ Technical Data	
	APWER3041	APWER3042
compatible with	1xWER3000	2xWER3000
Weight [kg]	0.05	0.14

▶ TECHNICAL INFORMATION

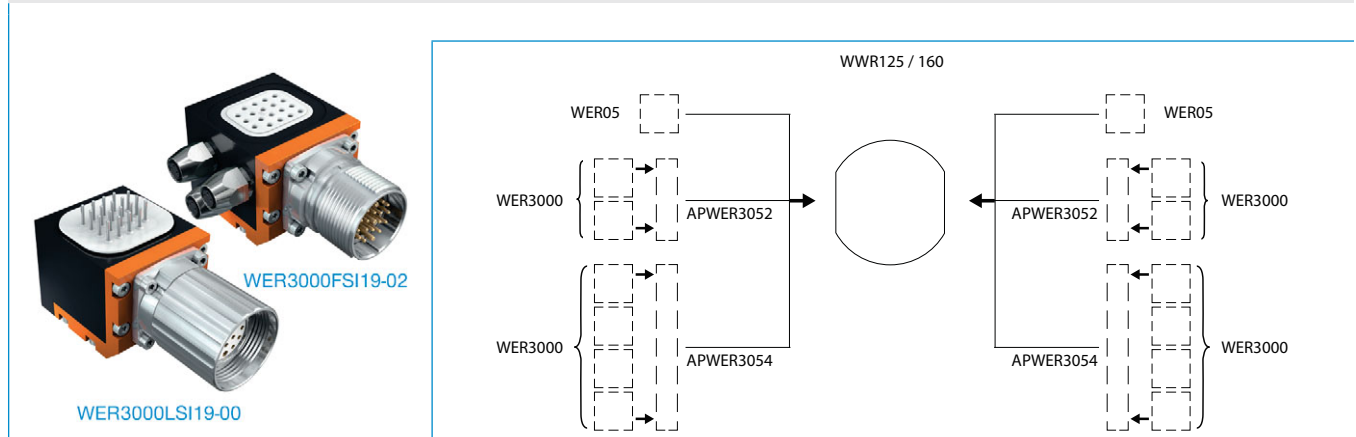


▶ Information about round plugs and plug-in connectors for the WER3000 is provided on page 63

ENERGY ELEMENTS FOR TOOL CHANGER

SIZES WWR125 / WWR160

▶ PRODUCT SPECIFICATIONS



▶ FLUIDIC

▶ Technical Data

Order no.	WER05FH2	WER05LH2	WER05FH2D	WER05LH2D
compatible with	Fix part	Loose part	Fix part	Loose part
Fixing thread	G1/4"	G1/4"	G1/4"	G1/4"
Number of fluid couplings	2	2	2	2
Operating pressure max. [bar]*	350	350	350	350
Operating pressure max. [bar]**	15	15	350	350
Weight [kg]	0.30	0.30	0.30	0.30

* At pressures of approximately 50 bar and higher, there must be external locking of the elements.

** Observe coupling force

▶ Technical Data

Order no.	WER3000FPL02-03	WER3000LPL02-03	WER3000FPL01-04	WER3000LPL01-04
compatible with	Fix part	Loose part	Fix part	Loose part
Fixing thread	G1/4"	G1/4"	G3/8"	G3/8"
Number of fluid couplings	2	2	1	1
Operating pressure [bar]	-0.6 ... 10	-0.6 ... 10	-0.6 ... 10	-0.6 ... 10
Weight [kg]	0.13	0.13	0.13	0.13

▶ ELECTRICAL

▶ Technical Data

Order no.	WER3000FLA06-00	WER3000LLA06-00	WER3000FLA08-00	WER3000LLA08-00	WER3000FS12-00	WER3000LS12-00
compatible with	Fix part	Loose part	Fix part	Loose part	Fix part	Loose part
Connection type	Plug-in Connector	Plug-in Connector	Plug-in Connector	Plug-in Connector	Plug-in Connector	Plug-in Connector
Round Connector [Straight] *	RSTVLM23G06B-B	RSTVLM23G06S-B	RSTVLM23G08B-B	RSTVLM23G08S-B	RSTVSM23G12B-B	RSTVSM23G12S-B
Round Connector [Angle] *	RSTVLM23W06B-B	RSTVLM23W06S-B	RSTVLM23W08B-B	RSTVLM23W08S-B	RSTVSM23W12B-B	RSTVSM23W12S-B
Fixing thread	M23	M23	M23	M23	M23	M23
No. of contacts	5+PE	5+PE	(3+PE) / 4	(3+PE) / 4	12	12
Nominal current [A]	15	15	15/6	15/6	6	6
Supply voltage [V AC]	600	600	600/150	600/150	150	150
Weight [kg]	0.35	0.41	0.35	0.40	0.12	0.15
Connection type	Male	Female	Male	Female	Male	Female

* als Zubehör erhältlich see page 63

▶ ELECTRICAL

Order no.	▶ Technical Data			
	WER3000FSI19-00	WER3000LSI19-00	WER3000FSI19-09	WER3000LSI19-09
compatible with	Fix part	Loose part	Fix part	Loose part
Connection type	Plug-in Connector	Plug-in Connector	Spring contact	Spring contact
Round Connector [Straight] *	RSTVSM23G19B-B	RSTVSM23G19S-B	RSTVSM23G19B-B	RSTVSM23G19S-B
Round Connector [Angle] *	RSTVSM23W19B-B	RSTVSM23W19S-B	RSTVSM23W19B-B	RSTVSM23W19S-B
Fixing thread	M23	M23	M23	M23
No. of contacts	19	19	19	19
Nominal current [A]	6	6	3	3
Supply voltage [V AC]	150	150	60	60
Weight [kg]	0.13	0.15	0.13	0.15
Connection type	Male	Female	Male	Female

*als Zubehör erhältlich see page 63

▶ ELECTRICAL + 3 CONNECTION OPTIONS FOR WWR SENSORS

Order no.	▶ Technical Data		
	WER3000FSI19-01	WER3000FSI19-02	WER3000LSI19-00
compatible with	Fix part	Fix part	Loose part
Connection type	Plug-in Connector	Plug-in Connector	Plug-in Connector
Round Connector [Straight] *	RSTVSM23G19B-B	RSTVSM23G19B-B	RSTVSM23G19S-B
Round Connector [Angle] *	RSTVSM23W19B-B	RSTVSM23W19B-B	RSTVSM23W19S-B
Fixing thread	M23	M23	M23
No. of contacts	14+5 Sensoric	14+5 Sensoric	19
Nominal current [A]	6	6	6
Supply voltage [V AC]	150	150	150
Sensor linkage	Left	Right	-
Weight [kg]	0.16	0.16	0.15
Connection type	Male	Male	Female

*als Zubehör erhältlich see page 63

▶ FIELDBUS

Order no.	▶ Technical Data					
	WER3000FPN01-00	WER3000LPN01-00	WER3000FPB01-00	WER3000LPB01-00	WER3000FIL01-00	WER3000LIL01-00
compatible with	Fix part	Loose part	Fix part	Loose part	Fix part	Loose part
Data transmission	Profinet/Industrial Ethernet	Profinet/Industrial Ethernet	Profibus	Profibus	IO-Link	IO-Link
Data rate	100	100	12	12	-	-
Fixing thread	M12	M12	M12	M12	M12	M12
Weight [kg]	0.11	0.11	0.13	0.12	0.11	0.11

▶ ADAPTER PLATES

Order no.	▶ Technical Data	
	APWER3052	APWER3054
compatible with	2xWER3000	4xWER3000
Weight [kg]	0.07	0.13

▶ TECHNICAL INFORMATION

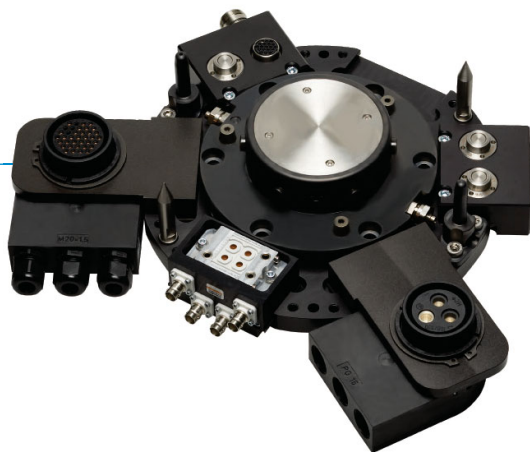


▶ Information about round plugs and plug-in connectors for the WER3000 is provided on page 63

TOOL CHANGERS

SERIES WWR1000

▶ PRODUCT ADVANTAGES



▶ **Secure hold during pressure drop**

A redundant system, created by the combination of spring accumulator and a self-locking mechanism, guarantees a safe machine

▶ **Handling weight from up to one tonne**

Automated changes can be carried out by this changer with process reliability even with the largest robots

▶ **Inexhaustible variety of media transfer systems**

No matter which medium you would like to transmit, we will draw from our wealth of experience in implementing projects and find a solution to suit your needs!

▶ THE BEST PRODUCT FOR YOUR APPLICATION



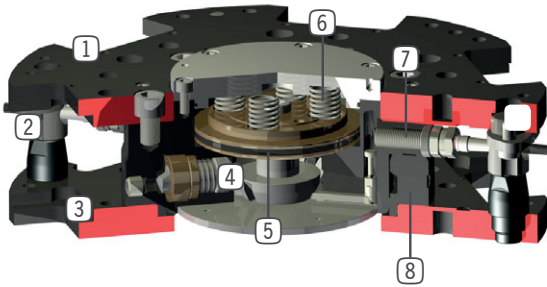
▶ **Our products love the challenge!**

Extreme conditions, all over the world—our tried and tested components and systems give you limitless possibilities:

Find the best product for your specific use:

www.zimmer-group.com

► BENEFITS IN DETAIL



- ① **Fix part**
- for robot side assembly
- ② **Centering bolts**
- twist protection and positioning for loose part
- ③ **Loose part**
- for tool side assembly
- ④ **Locking bolt**
- adapted to the clamping sleeve
- ⑤ **Drive**
- double-acting pneumatic cylinder
- ⑥ **Integrated spring**
- energy storage in case of drop in pressure
- ⑦ **Piston position sensing**
- via inductive proximity switch
- ⑧ **Locking sleeve**

► FURTHER INFORMATION IS AVAILABLE ONLINE



► Technical Information

All information just a click away at: www.zimmer-group.com

Find data, illustrations, 3D models and operating instructions for your installation size using the order number for your desired product.

Quick, clear and always up-to-date.



TOOL CHANGERS

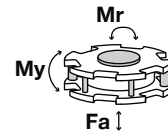
INSTALLATION SIZE WWR1160

▶ PRODUCT SPECIFICATIONS



▶ Forces and moments

Shows static forces and moments which may impact on the tool changer when locked.



Mr [Nm]	6000
My [Nm]	6000
Fa [N]	35000

▶ INCLUDED IN DELIVERY



Mounting bracket for proximity switch

ZUB0014

▶ RECOMMENDED ACCESSORIES



Programming pins

ZUB0022



Plug-in connector Straight Cable 5m - Socket M8 (female)

KAG500



Straight Fittings - Quick Connect Style

GV1-8X8



Inductive proximity switch - Connector M8

NJ8-E2S-17



Storage station

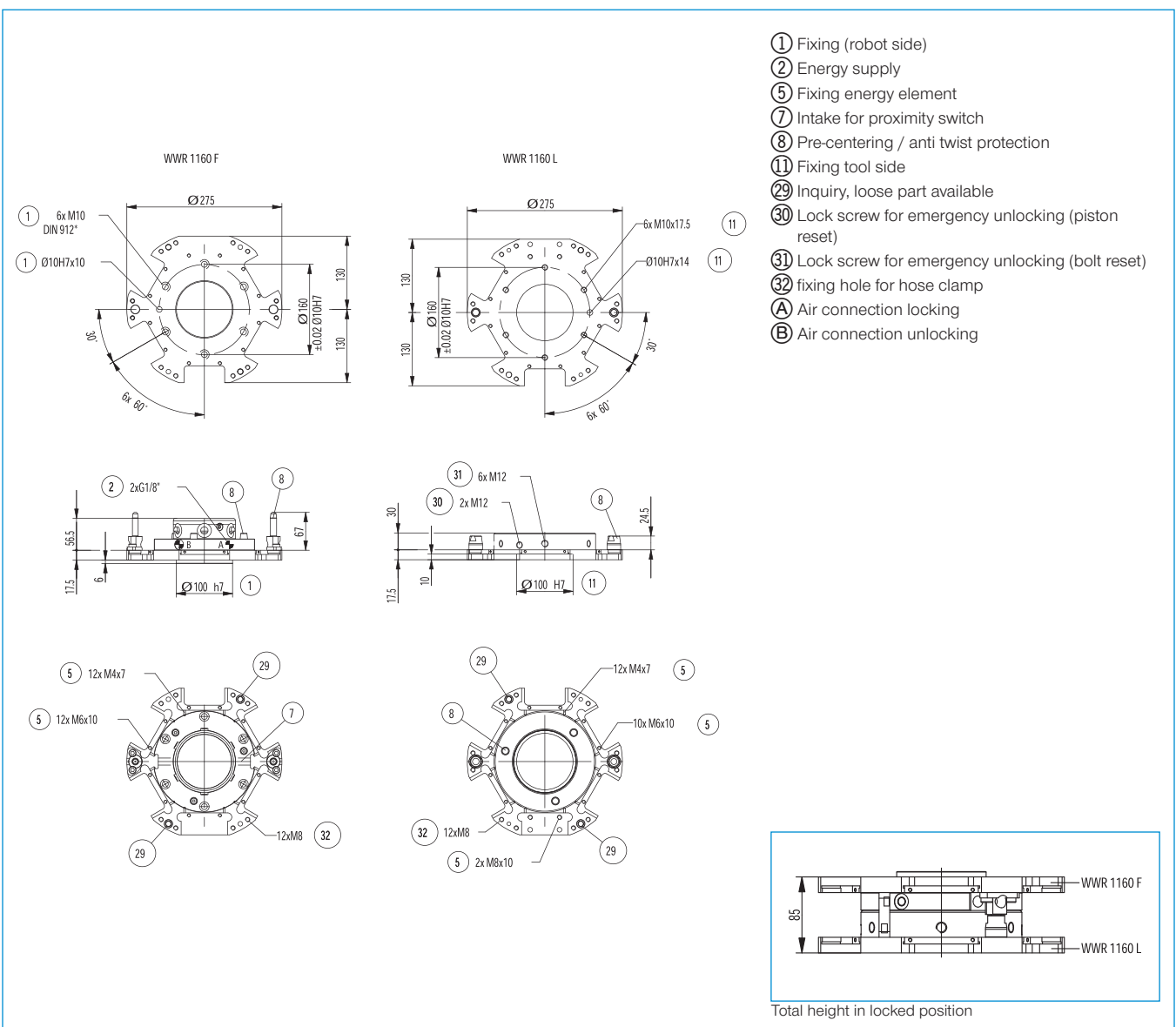
ALSR1-1200



Energy Elements see page 60

Order no.	► Technical Data*	
	WWR1160F	WWR1160L
Locking stroke [mm]	1	-
Recommended handling weight [kg]	500	-
Self limitation when locking	mechanical	mechanical
Fluid energy transfer	optional	optional
Electrical energy transfer	optional	optional
Operating pressure min. [bar]	6	6
Operating pressure max. [bar]	8	8
Repetition accuracy +/- [mm]	0.02	0.02
Offset at coupling max. in X,Y [mm]	3	3
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm³]	48	-
Weight [kg]	9	6

*All data measured at 6 bar



TOOL CHANGERS

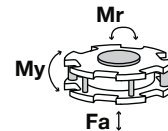
INSTALLATION SIZE WWR1200

▶ PRODUCT SPECIFICATIONS



▶ Forces and moments

Shows static forces and moments which may impact on the tool changer when locked.



Mr [Nm]	12000
My [Nm]	12000
Fa [N]	75000

▶ INCLUDED IN DELIVERY



Mounting bracket for proximity switch

ZUB0014

▶ RECOMMENDED ACCESSORIES



Programming pins

ZUB0022



Plug-in connector Straight Cable 5m - Socket M8 (female)

KAG500



Straight Fittings - Quick Connect Style

GV1-8X8



Inductive proximity switch - Connector M8

NJ8-E2S-17



Storage station

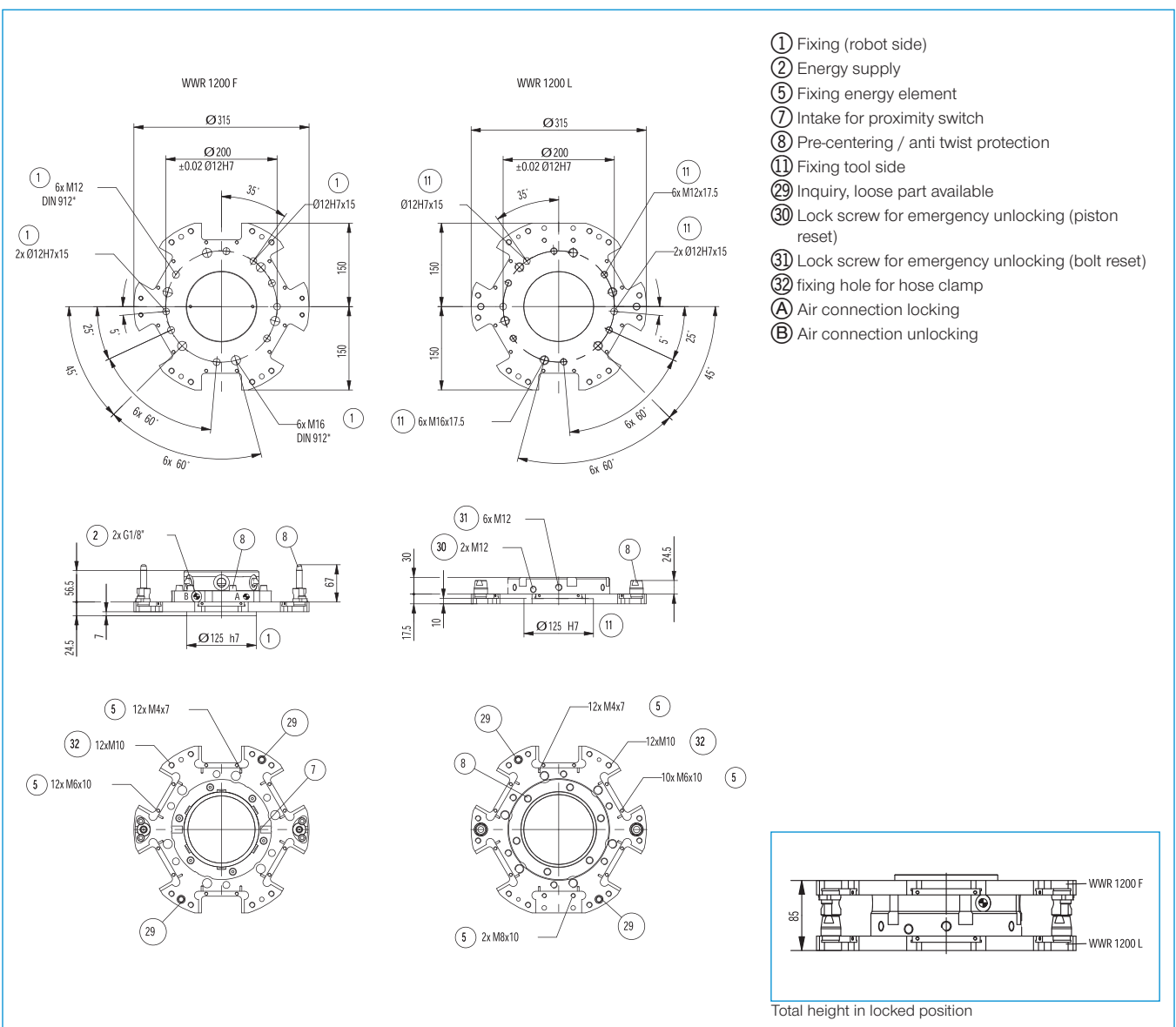
ALSR1-1200



Energy Elements see page 60

Order no.	► Technical Data*	
	WWR1200F	WWR1200L
Locking stroke [mm]	1	-
Recommended handling weight [kg]	1000	-
Self limitation when locking	mechanical	mechanical
Fluid energy transfer	optional	optional
Electrical energy transfer	optional	optional
Operating pressure min. [bar]	6	6
Operating pressure max. [bar]	8	8
Repetition accuracy +/- [mm]	0.02	0.02
Offset at coupling max. in X,Y [mm]	3	3
Operating temperature min. [°C]	5	5
Operating temperature max. [°C]	+80	+80
Air volume per cycle [cm³]	83	-
Weight [kg]	15	8.5

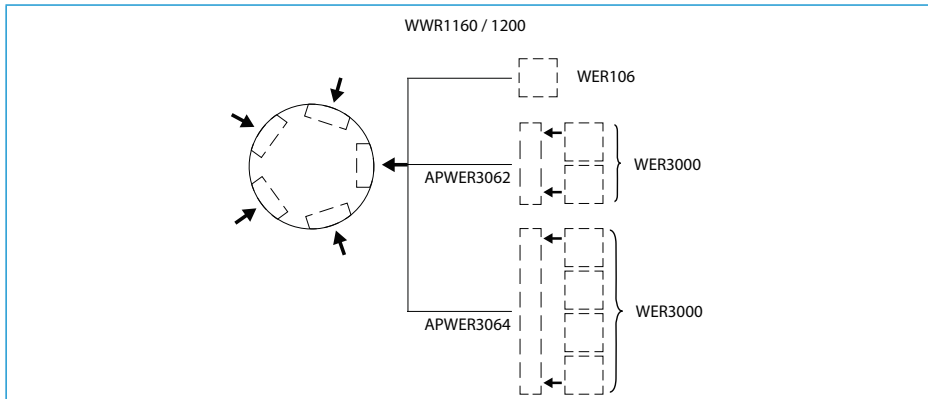
*All data measured at 6 bar



ENERGY ELEMENTS FOR TOOL CHANGER

SIZES WWR1160 / WWR1200

▶ PRODUCT SPECIFICATIONS



▶ FLUIDIC

▶ Technical Data

Order no.	WER106FP06	WER106LP06	WER106FP15	WER106LP15	WER106FH1DNW8	WER106LH1DNW8
compatible with	Fix part	Loose part	Fix part	Loose part	Fix part	Loose part
Fixing thread	G1/8"	G1/8"	M5	M5	G1/2"	G1/2"
Number of fluid couplings	6	6	15	15	1	1
Nominal diameter	1/8"	1/8"	5	5	8	8
Flow per connector max. [l/min]	-	-	-	-	25	25
Operating pressure max. [bar]*	10	10	10	10	250	250
Operating pressure max. [bar]**	-	-	-	-	10	10
Weight [kg]	0.25	0.25	0.25	0.25	0.35	0.35

* At pressures of approximately 50 bar and higher, there must be external locking of the elements.

** Observe coupling force

▶ Technical Data

Order no.	WER106FH2DNW5	WER106LH2DNW5	WER106FH2DNW8	WER106LH2DNW8	WER106FH4DNW8	WER106LH4DNW8
compatible with	Fix part	Loose part	Fix part	Loose part	Fix part	Loose part
Fixing thread	G1/4"	G1/4"	G1/2"	G1/2"	G1/2"	G1/2"
Number of fluid couplings	2	2	2	2	4	4
Nominal diameter	5	5	8	8	8	8
Flow per connector max. [l/min]	12	12	25	25	25	25
Operating pressure max. [bar]*	350	350	250	250	250	250
Operating pressure max. [bar]**	15	15	10	10	10	10
Weight [kg]	0.35	0.35	0.69	1.00	1.40	2.10

* At pressures of approximately 50 bar and higher, there must be external locking of the elements.

** Observe coupling force

▶ Technical Data

Order no.	WER3000FPL02-03	WER3000LPL02-03	WER3000FPL01-04	WER3000LPL01-04
compatible with	Fix part	Loose part	Fix part	Loose part
Fixing thread	G1/4"	G1/4"	G3/8"	G3/8"
Number of fluid couplings	2	2	1	1
Operating pressure [bar]	-0.6 ... 10	-0.6 ... 10	-0.6 ... 10	-0.6 ... 10
Weight [kg]	0.13	0.13	0.13	0.13

► ELECTRICAL

	► Technical Data	
Order no.	WER106FL0335	WER106LL0335
compatible with	Fix part	Loose part
Connection type	Plug-in Connector	Plug-in Connector
Round Connector [Straight]	-	-
Round Connector [Angle]	-	-
Fixing thread	-	-
No. of contacts	3	3
Nominal current [A]	150	150
Supply voltage [V AC]	630	630
Weight [kg]	0.95	0.90
Connection type	Customizable	Customizable

	► Technical Data					
Order no.	WER3000FLA06-00	WER3000LLA06-00	WER3000FLA08-00	WER3000LLA08-00	WER3000FSI12-00	WER3000LSI12-00
compatible with	Fix part	Loose part	Fix part	Loose part	Fix part	Loose part
Connection type	Plug-in Connector	Plug-in Connector	Plug-in Connector	Plug-in Connector	Plug-in Connector	Plug-in Connector
Round Connector [Straight] *	RST- VLM23G06B-B	RST- VLM23G06S-B	RST- VLM23G08B-B	RST- VLM23G08S-B	RST- VSM23G12B-B	RST- VSM23G12S-B
Round Connector [Angle] *	RSTVLM- 23W06B-B	RSTVLM- 23W06S-B	RSTVLM- 23W08B-B	RSTVLM- 23W08S-B	RSTVSM- 23W12B-B	RSTVSM- 23W12S-B
Fixing thread	M23	M23	M23	M23	M23	M23
No. of contacts	5+PE	5+PE	(3+PE) / 4	(3+PE) / 4	12	12
Nominal current [A]	15	15	15/6	15/6	6	6
Supply voltage [V AC]	600	600	600/150	600/150	150	150
Weight [kg]	0.35	0.41	0.35	0.40	0.12	0.15
Connection type	Male	Female	Male	Female	Male	Female

* als Zubehör erhältlich see page 63

	► Technical Data			
Order no.	WER3000FSI19-00	WER3000LSI19-00	WER3000FSI19-09	WER3000LSI19-09
compatible with	Fix part	Loose part	Fix part	Loose part
Connection type	Plug-in Connector	Plug-in Connector	Spring contact	Spring contact
Round Connector [Straight] *	RSTVSM23G19B-B	RSTVSM23G19S-B	RSTVSM23G19B-B	RSTVSM23G19S-B
Round Connector [Angle] *	RSTVSM23W19B-B	RSTVSM23W19S-B	RSTVSM23W19B-B	RSTVSM23W19S-B
Fixing thread	M23	M23	M23	M23
No. of contacts	19	19	19	19
Nominal current [A]	6	6	3	3
Supply voltage [V AC]	150	150	60	60
Weight [kg]	0.13	0.15	0.13	0.15
Connection type	Male	Female	Male	Female

* als Zubehör erhältlich see page 63

ENERGY ELEMENTS FOR TOOL CHANGER

SIZES WWR1160 / WWR1200

▶ ELECTRICAL + 3 CONNECTION OPTIONS FOR WWR SENSORS

Order no.	▶ Technical Data		
	WER3000FSI19-01	WER3000FSI19-02	WER3000LSI19-00
compatible with	Fix part	Fix part	Loose part
Connection type	Plug-in Connector	Plug-in Connector	Plug-in Connector
Round Connector [Straight] *	RSTVSM23G19B-B	RSTVSM23G19B-B	RSTVSM23G19S-B
Round Connector [Angle] *	RSTVSM23W19B-B	RSTVSM23W19B-B	RSTVSM23W19S-B
Fixing thread	M23	M23	M23
No. of contacts	14+5 Sensoric	14+5 Sensoric	19
Nominal current [A]	6	6	6
Supply voltage [V AC]	150	150	150
Sensor linkage	Left	Right	-
Weight [kg]	0.16	0.16	0.15
Connection type	Male	Male	Female

*als Zubehör erhältlich see page 63

▶ FIELDBUS

Order no.	▶ Technical Data					
	WER3000FPN01-00	WER3000LPN01-00	WER3000FPB01-00	WER3000LPB01-00	WER3000FIL01-00	WER3000LIL01-00
compatible with	Fix part	Loose part	Fix part	Loose part	Fix part	Loose part
Data transmission	Profinet/Industrial Ethernet	Profinet/Industrial Ethernet	Profibus	Profibus	IO-Link	IO-Link
Data rate	100	100	12	12	-	-
Fixing thread	M12	M12	M12	M12	M12	M12
Weight [kg]	0.11	0.11	0.13	0.12	0.11	0.11

▶ ADAPTER PLATES

Order no.	▶ Technical Data	
	APWER3062	APWER3064
compatible with	2xWER3000	4xWER3000
Weight [kg]	0.15	0.42





PLUG-IN CONNECTOR FOR ENERGY ELEMENTS





SUITABLE FOR WER201 / WER02 / WER03 / WER3000





▶ PLUG-IN CONNECTOR FOR ENERGY ELEMENTS WER201 / WER02 / WER03





Order no.	▶ Technical Data							
	KAG500B4	KAW500B4	B8-G-4	B8-W-4	KAG500S4	KAW500S4	S8-G-4	S8-W-4
Fixing thread	M8	M8	M8	M8	M8	M8	M8	M8
No. of contacts	4	4	4	4	4	4	4	4
Cable length [m]	5	5	-	-	5	5	-	-
Cable-Ø [mm]	4.3	4.3	-	-	4.3	4.3	-	-
Cable sheath material	PUR	PUR	-	-	PUR	PUR	-	-
Bend radius	10xØ	10xØ	-	-	10xØ	10xØ	-	-
Protection to IEC 60529	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67
Connection type	Female	Female	Female	Female	Male	Male	Male	Male
Version [Type]	Straight	Angle	Straight	Angle	Straight	Angle	Straight	Angle

▶ ROUND PLUG FOR WER3000

Order no.	▶ Technical Data			
	RSTVLM23G06B-B	RSTVLM23W06B-B	RSTVLM23G06S-B	RSTVLM23W06S-B
Fixing thread	M23	M23	M23	M23
No. of contacts	6	6	6	6
Protection to IEC 60529	IP67	IP67	IP67	IP67
Connection type	Female	Female	Male	Male
				

Order no.	▶ Technical Data			
	RSTVLM23G08B-B	RSTVLM23W08B-B	RSTVLM23G08S-B	RSTVLM23W08S-B
Fixing thread	M23	M23	M23	M23
No. of contacts	8	8	8	8
Protection to IEC 60529	IP67	IP67	IP67	IP67
Connection type	Female	Female	Male	Male
				

Order no.	▶ Technical Data			
	RSTVSM23G12B-B	RSTVSM23W12B-B	RSTVSM23G12S-B	RSTVSM23W12S-B
Fixing thread	M23	M23	M23	M23
No. of contacts	12	12	12	12
Protection to IEC 60529	IP67	IP67	IP67	IP67
Connection type	Female	Female	Male	Male
				

Order no.	▶ Technical Data			
	RSTVSM23G19B-B	RSTVSM23W19B-B	RSTVSM23G19S-B	RSTVSM23W19S-B
Fixing thread	M23	M23	M23	M23
No. of contacts	19	19	19	19
Protection to IEC 60529	IP67	IP67	IP67	IP67
Connection type	Female	Female	Male	Male
				

ROTARY DISTRIBUTORS

OVERVIEW OF SERIES



▶ ROTARY DISTRIBUTORS SERIES DVR	66
Installation size DVR40	68
Installation size DVR50	70
Installation size DVR63	72
Installation size DVR80	74
Installation size DVR100	76
Installation size DVR125	78
Installation size DVR160	80
▶ ROTARY DISTRIBUTORS SERIES DVR1000	82
Installation size DVR1125	84

ROTARY DISTRIBUTORS

SERIES DVR

▶ PRODUCT ADVANTAGES



▶ **Compact media transfer system**

This D1 media exchanger makes cable breaks and undefined interference contours through the power supply line a thing of the past

▶ **Flat design**

This structure reduces the moment load for your robot to a minimum and makes it possible to use smaller and more affordable sizes

▶ **Gold contact**

Allows flexibility for transmission because you can transfer everything from the smallest flows up to 250 volts and 6 amps with process reliability

▶ THE BEST PRODUCT FOR YOUR APPLICATION



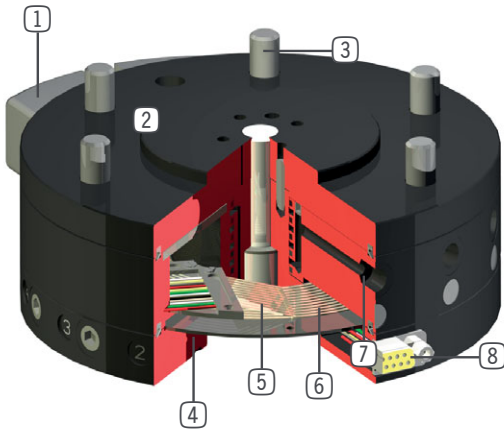
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► **BENEFITS IN DETAIL**



- ① **Torque brace**
- supports the rotor during rotation (movement)
- ② **Robust, lightweight housing**
- Hard-coated aluminum alloy
- nitrated steel
- ③ **Robot flange**
- partial mounting circle in accordance with EN ISO 9409-1
- ④ **Direct air connection**
- to WWR series
- ⑤ **Spring system**
- from size DVR63 double fitting
- ⑥ **Collector ring**
- hard gold coated
- transferable to finest currents
- ⑦ **Up to 8 way integrated air feed-through**
- for hoseless air transfer
- hose package does not have to be pivoted
- ⑧ **Up to 12 pole energy transfer**
- for cable-free signal transfer
- no cables are subjected to torsion

► **FURTHER INFORMATION IS AVAILABLE ONLINE**



► **Technical Information**

All information just a click away at: www.zimmer-group.com
Find data, illustrations, 3-D models and operating instructions for your installation size using the order number for your desired product.
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ROTARY DISTRIBUTORS

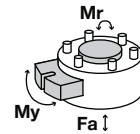
INSTALLATION SIZE DVR40

▶ PRODUCT SPECIFICATIONS



▶ Forces and moments

Shows static forces and moments which may impact on the rotary distributor.



Mr [Nm]	60
My [Nm]	60
Fa [N]	800

▶ INCLUDED IN DELIVERY



Cylinder Screw

C7984060129



O-Ring

COR0025100

▶ RECOMMENDED ACCESSORIES



Straight Fittings - Quick Connect Style

GVM5



Angled Fittings - Quick Connect Style

WVM5



Plug-in connector Angled Cable 5m - Socket M8 (female)

KAW500B4



Plug-in Connector Angled Cable 5m - Connector M8

KAW500S4



Plug-in connector Straight Cable 5m - Socket M8 (female)

KAG500B4

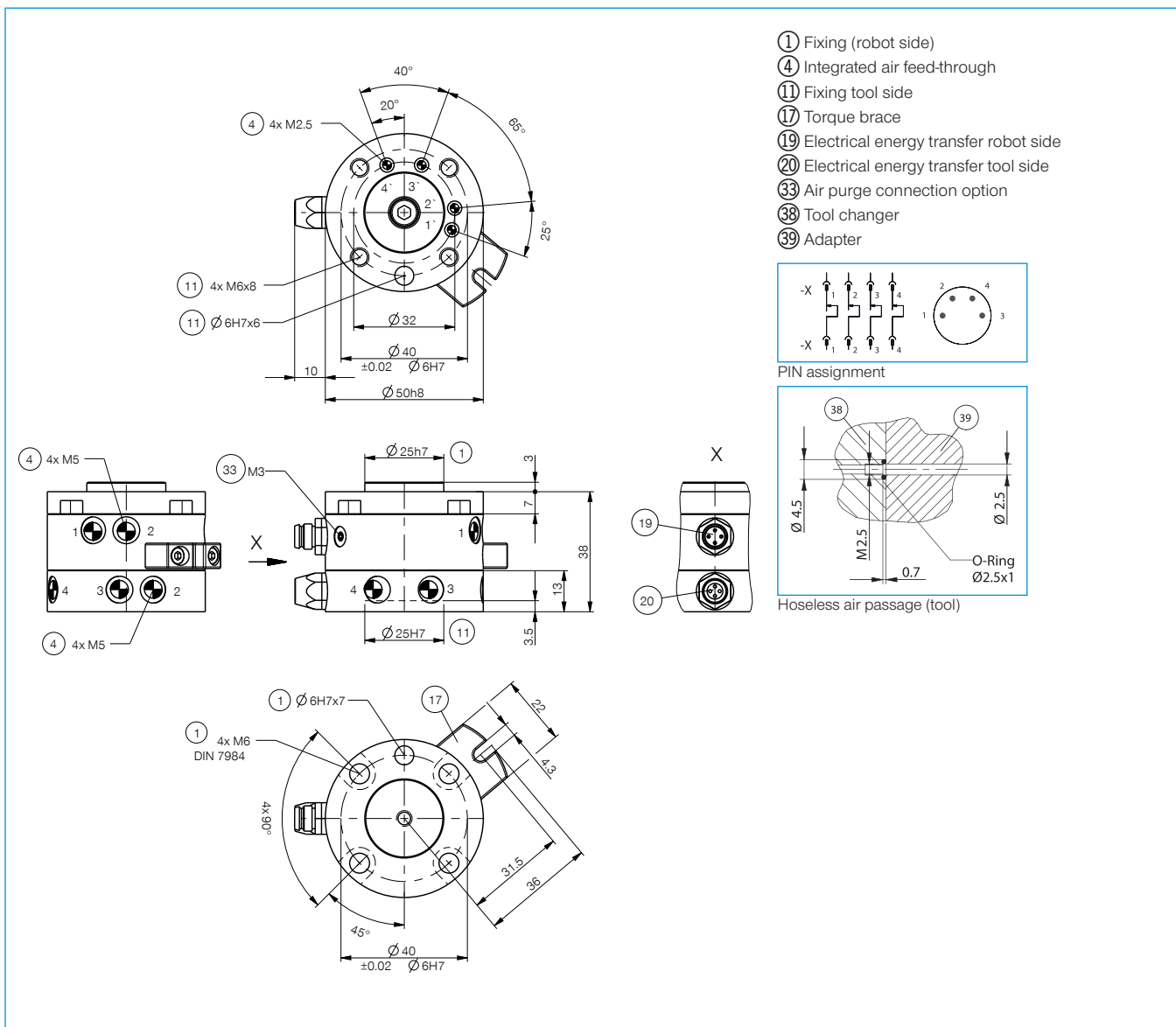


Plug-in Connector Straight Cable 5m - Connector M8

KAG500S4

► Technical Data	
Order no.	DVR40I4
Connecting flange according EN ISO 9409-1	TK40
Recommended handling weight [kg]	15
Pneumatic energy transfer [Quantity]*	4
Electrical energy transfer	4-pole
Max. current [A]	3
Max. voltage [V]	24
Maximum acceleration [m/s ²]	22
Maximum speed [1/min.]	120
Maximum speed [°/s]	720
Radial run out +/- [mm]	0.02
Axial run out +/- [mm]	0.02
Constant torque [Nm]	1
Loose torque [Nm]	1.5
Operating pressure max. [bar]	10
Operating temperature [°C]	5 ... +80
Moment of inertia [kg/cm ²]	0.7
Protection to IEC 60529	IP40
Weight [kg]	0.2

*Vacuum possible



ROTARY DISTRIBUTORS

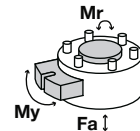
INSTALLATION SIZE DVR50

▶ PRODUCT SPECIFICATIONS



▶ Forces and moments

Shows static forces and moments which may impact on the rotary distributor.



Mr [Nm]	60
My [Nm]	60
Fa [N]	800

▶ INCLUDED IN DELIVERY



Cylinder Screw

C7984060129



O-Ring

COR0025100

▶ RECOMMENDED ACCESSORIES



Straight Fittings - Quick Connect Style

GVM5



Angled Fittings - Quick Connect Style

WVM5



Plug-in connector Angled Cable 5m - Socket M8 (female)

KAW500B4



Plug-in Connector Angled Cable 5m - Connector M8

KAW500S4



Plug-in connector Straight Cable 5m - Socket M8 (female)

KAG500B4

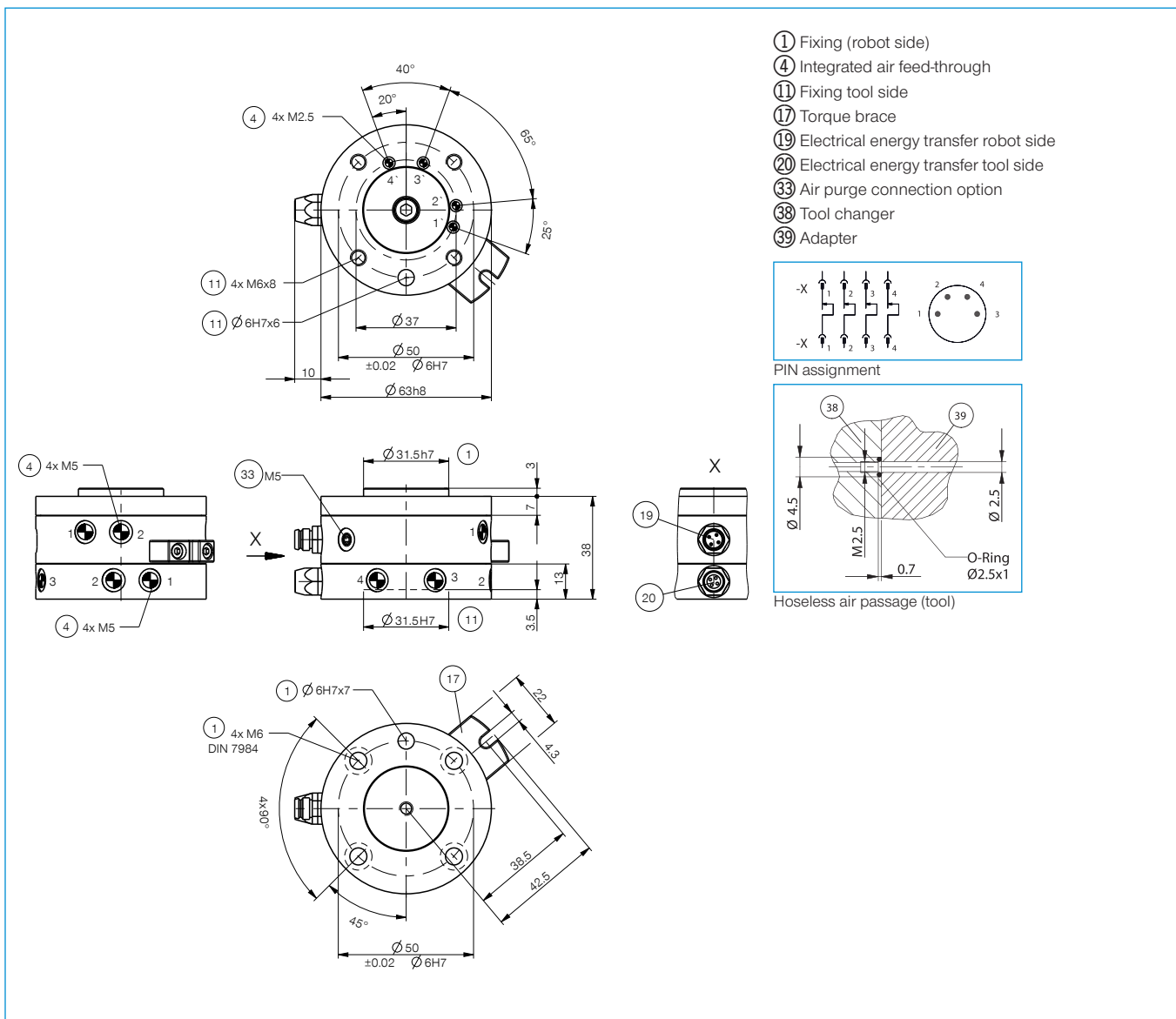


Plug-in Connector Straight Cable 5m - Connector M8

KAG500S4

► Technical Data	
Order no.	DVR50I4
Connecting flange according EN ISO 9409-1	TK 50
Recommended handling weight [kg]	15
Pneumatic energy transfer [Quantity]*	4
Electrical energy transfer	4-pole
Max. current [A]	3
Max. voltage [V]	24
Maximum acceleration [m/s ²]	22
Maximum speed [1/min.]	120
Maximum speed [°/s]	720
Radial run out +/- [mm]	0.02
Axial run out +/- [mm]	0.02
Constant torque [Nm]	1
Loose torque [Nm]	1.5
Operating pressure max. [bar]	10
Operating temperature [°C]	5 ... +80
Moment of inertia [kg/cm ²]	8.1
Protection to IEC 60529	IP40
Weight [kg]	0.6

*Vacuum possible



ROTARY DISTRIBUTORS

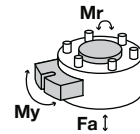
INSTALLATION SIZE DVR63

▶ PRODUCT SPECIFICATIONS



▶ Forces and moments

Shows static forces and moments which may impact on the rotary distributor.



Mr [Nm]	300
My [Nm]	300
Fa [N]	1500

▶ INCLUDED IN DELIVERY



Cylinder Screw

C7984060129



O-Ring

COR0030100

▶ RECOMMENDED ACCESSORIES



Straight Fittings - Quick Connect Style

GVM5

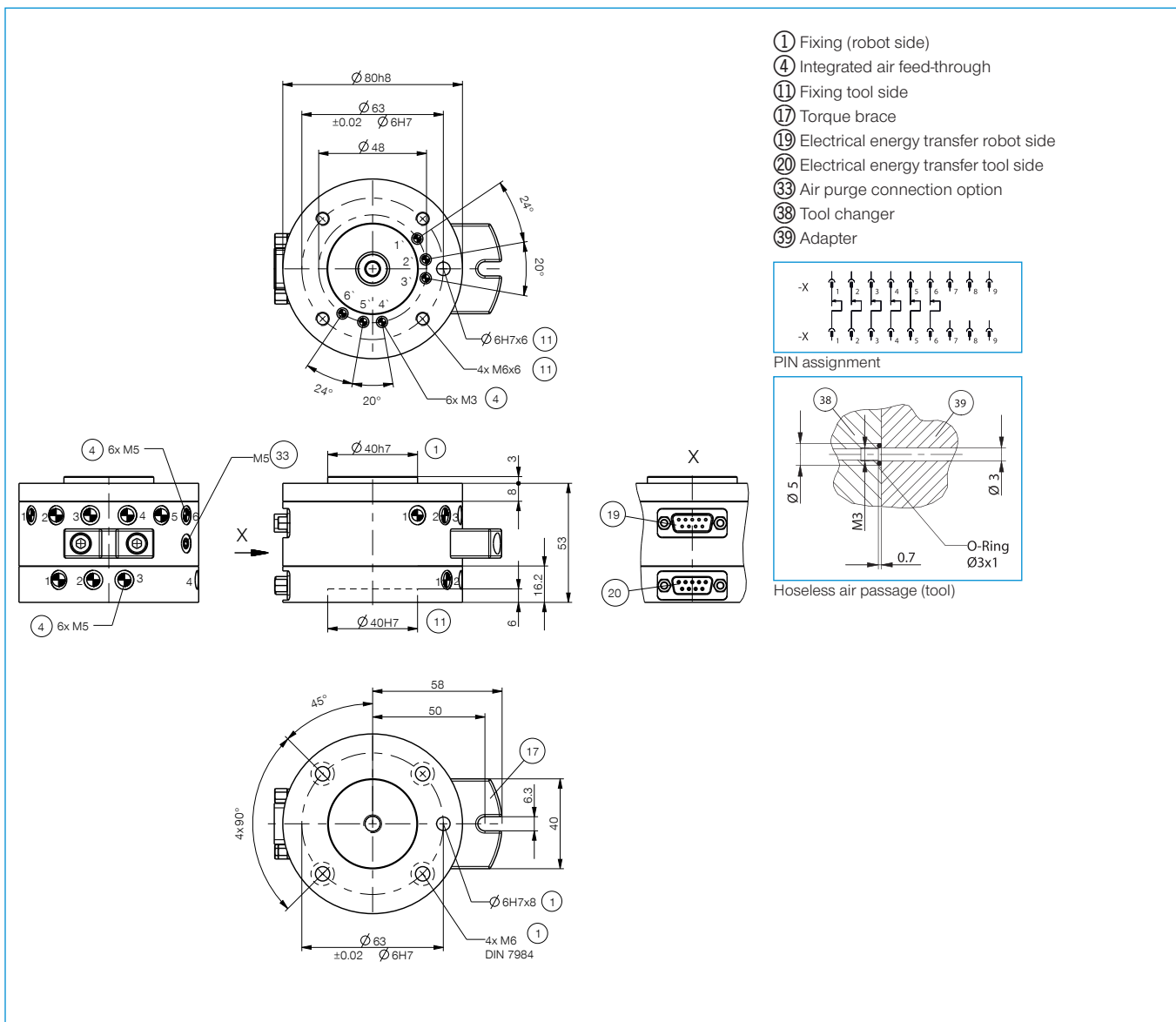


Angled Fittings - Quick Connect Style

WVM5

► Technical Data	
Order no.	DVR63I6
Connecting flange according EN ISO 9409-1	TK 63
Recommended handling weight [kg]	50
Pneumatic energy transfer [Quantity]*	6
Electrical energy transfer	6-pole
Max. current [A]	6
Max. voltage [V]	250
Maximum acceleration [m/s ²]	22
Maximum speed [1/min.]	120
Maximum speed [°/s]	720
Radial run out +/- [mm]	0.03
Axial run out +/- [mm]	0.03
Constant torque [Nm]	2
Loose torque [Nm]	3
Operating pressure max. [bar]	10
Operating temperature [°C]	5 ... +80
Moment of inertia [kg/cm ²]	10.5
Protection to IEC 60529	IP64
Weight [kg]	1.2

*Vacuum possible



ROTARY DISTRIBUTORS

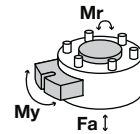
INSTALLATION SIZE DVR80

▶ PRODUCT SPECIFICATIONS



▶ Forces and moments

Shows static forces and moments which may impact on the rotary distributor.



Mr [Nm]	300
My [Nm]	300
Fa [N]	1500

▶ INCLUDED IN DELIVERY



Cylinder Screw

C7984080169



O-Ring

COR0030100

▶ RECOMMENDED ACCESSORIES



Straight Fittings - Quick Connect Style

GVM5

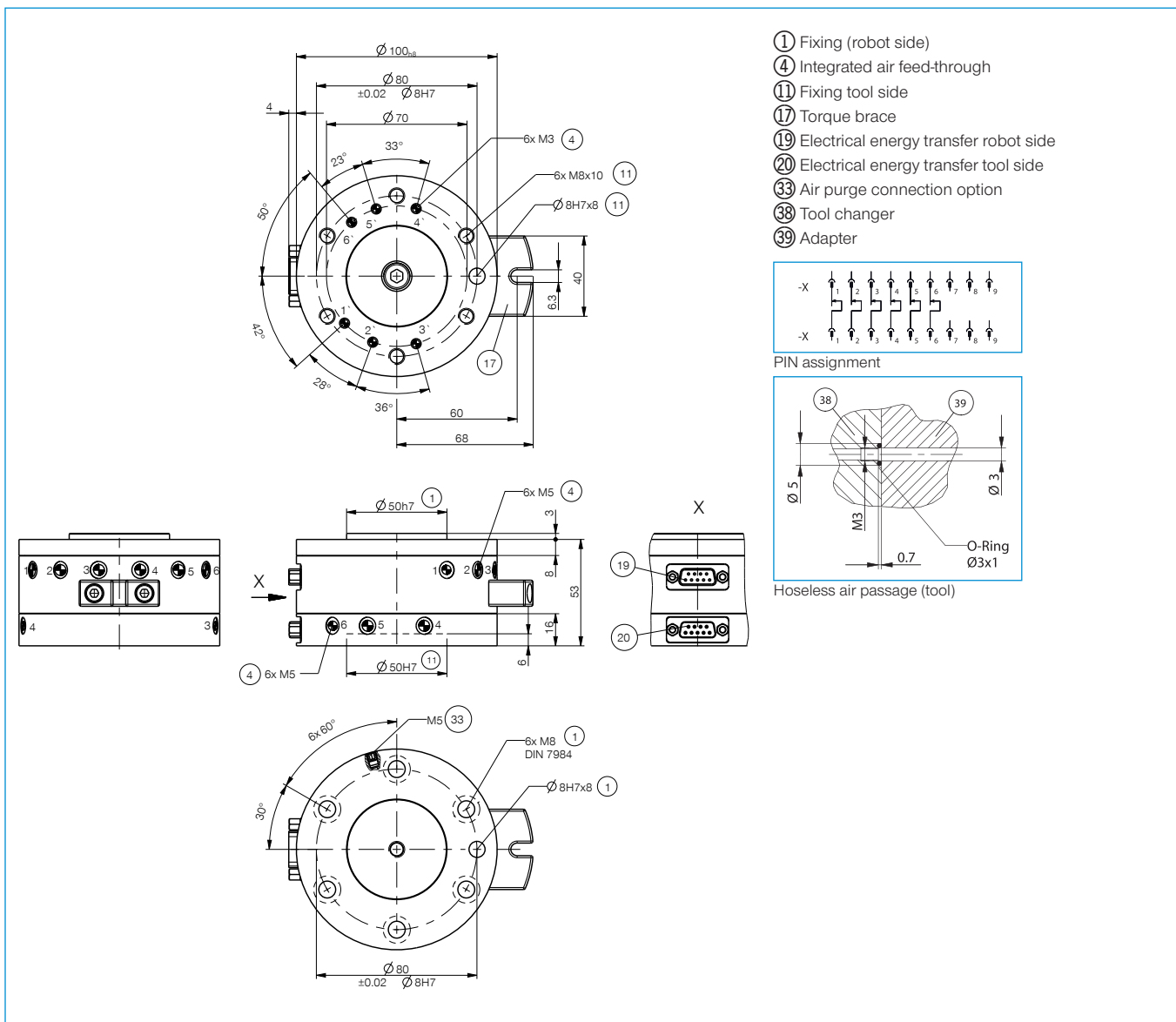


Angled Fittings - Quick Connect Style

WVM5

Order no.	Technical Data
Connecting flange according EN ISO 9409-1	TK 80
Recommended handling weight [kg]	50
Pneumatic energy transfer [Quantity]*	6
Electrical energy transfer	6-pole
Max. current [A]	6
Max. voltage [V]	250
Maximum acceleration [m/s ²]	22
Maximum speed [1/min.]	120
Maximum speed [°/s]	720
Radial run out +/- [mm]	0.03
Axial run out +/- [mm]	0.03
Constant torque [Nm]	2
Loose torque [Nm]	3
Operating pressure max. [bar]	10
Operating temperature [°C]	5 ... +80
Moment of inertia [kg/cm ²]	27
Protection to IEC 60529	IP64
Weight [kg]	2

*Vacuum possible



ROTARY DISTRIBUTORS

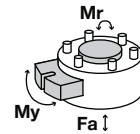
INSTALLATION SIZE DVR100

▶ PRODUCT SPECIFICATIONS



▶ Forces and moments

Shows static forces and moments which may impact on the rotary distributor.



Mr [Nm]	500
My [Nm]	500
Fa [N]	2100

▶ INCLUDED IN DELIVERY



Cylinder Screw

C0912080169



O-Ring

COR0070150

▶ RECOMMENDED ACCESSORIES



Straight Fittings - Quick Connect Style

GV1-8X6



Angled Fittings - Quick Connect Style

WV1-8X6

► **Technical Data**

Order no.	DVR100I4	DVR100I8
Connecting flange according EN ISO 9409-1	TK 100	TK 100
Recommended handling weight [kg]	90	90
Pneumatic energy transfer [Quantity]*	4	8
Electrical energy transfer	8-pole	8-pole
Max. current [A]	6	6
Max. voltage [V]	250	250
Maximum acceleration [m/s ²]	20	20
Maximum speed [1/min.]	100	100
Maximum speed [°/s]	600	600
Radial run out +/- [mm]	0.04	0.04
Axial run out +/- [mm]	0.04	0.04
Constant torque [Nm]	2	4
Loose torque [Nm]	4	6
Operating pressure max. [bar]	10	10
Operating temperature [°C]	5 ... +80	5 ... +80
Moment of inertia [kg/cm ²]	86	100
Protection to IEC 60529	IP64	IP64
Weight [kg]	3.8	4.5

*Vacuum possible

Technical drawings of the DVR100 rotary distributor, showing front, side, and detail views with dimensions and callouts.

- Front view: Shows dimensions such as $\varnothing 125h8$, $\varnothing 100 \pm 0.02$, $\varnothing 8H7$, $\varnothing 90$, $\varnothing 76$, and angles of 20° , 25° , and 20° . Callouts include 8x M4 (4), 8x M4 (4), $\varnothing 8H7 \times 8$ (11), 6x M8x12 (11), and 17.
- Side view: Shows dimensions 80, 80, 80, 12, 82, 18, 6, 4.5, and callouts 4x G1/8" (4), M5 (33), 4x G1/8" (4), and $\varnothing 63h7$ (11).
- Detail view: Shows dimensions $\varnothing 63h7$, 4.5, 12, 18, 6, and callouts 4x G1/8" (4), M5 (33), and $\varnothing 63H7$ (11).
- Another front view: Shows dimensions $\varnothing 100 \pm 0.02$, $\varnothing 8H7$, $6 \times 60^\circ$, 30° , 6x M8 DIN 912 (1), and $\varnothing 8H7 \times 8$ (1).
- Side view (X): Shows callouts 19 and 20.
- Detail view (X): Shows dimensions $\varnothing 10$, 1.2, $\varnothing 5$, and callouts 38, 39, M4, and O-Ring $\varnothing 7 \times 1.5$.
- Another front view: Shows dimensions $\varnothing 100 \pm 0.02$, $\varnothing 8H7$, $6 \times 60^\circ$, 30° , 4x M4 (4), 4x G1/8" (4), M5 (33), and 4x G1/8" (4).

Legend:

- 1 Fixing (robot side)
- 4 Integrated air feed-through
- 11 Fixing tool side
- 17 Torque brace
- 19 Electrical energy transfer robot side
- 20 Electrical energy transfer tool side
- 33 Air purge connection option
- 38 Tool changer
- 39 Adapter

PIN assignment:

Hoseless air passage (tool):

ROTARY DISTRIBUTORS

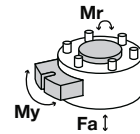
INSTALLATION SIZE DVR125

▶ PRODUCT SPECIFICATIONS



▶ Forces and moments

Shows static forces and moments which may impact on the rotary distributor.



Mr [Nm]	900
My [Nm]	900
Fa [N]	7000

▶ INCLUDED IN DELIVERY



Cylinder Screw

C7984100209



O-Ring

COR0070150

▶ RECOMMENDED ACCESSORIES



Straight Fittings - Quick Connect Style

GV1-8X6



Angled Fittings - Quick Connect Style

WV1-8X6

Order no.	Technical Data	
	DVR125I4	DVR125I8
Connecting flange according EN ISO 9409-1	TK 125	TK 125
Recommended handling weight [kg]	200	200
Pneumatic energy transfer [Quantity]*	4	8
Electrical energy transfer	12-pole	12-pole
Max. current [A]	6	6
Max. voltage [V]	250	250
Maximum acceleration [m/s ²]	20	20
Maximum speed [1/min.]	100	100
Maximum speed [°/s]	600	600
Radial run out +/- [mm]	0.05	0.05
Axial run out +/- [mm]	0.05	0.05
Constant torque [Nm]	4	5
Loose torque [Nm]	5	6
Operating pressure max. [bar]	10	10
Operating temperature [°C]	5 ... +80	5 ... +80
Moment of inertia [kg/cm ²]	220	225
Protection to IEC 60529	IP64	IP64
Weight [kg]	5.9	7

*Vacuum possible

① Fixing (robot side)
 ④ Integrated air feed-through
 ⑪ Fixing tool side
 ⑰ Torque brace
 ⑲ Electrical energy transfer robot side
 ⑳ Electrical energy transfer tool side
 ⑳ Air purge connection option
 ⑳ Tool changer
 ⑳ Adapter

PIN assignment

Hoseless air passage (tool)

ROTARY DISTRIBUTORS

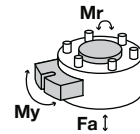
INSTALLATION SIZE DVR160

▶ PRODUCT SPECIFICATIONS



▶ Forces and moments

Shows static forces and moments which may impact on the rotary distributor.



Mr [Nm]	900
My [Nm]	900
Fa [N]	7000

▶ INCLUDED IN DELIVERY



Cylinder Screw

C7984100209



O-Ring

COR0070150

▶ RECOMMENDED ACCESSORIES



Straight Fittings - Quick Connect Style

GV1-8X6



Angled Fittings - Quick Connect Style

WV1-8X6

Order no.	Technical Data	
	DVR160I4	DVR160I8
Connecting flange according EN ISO 9409-1	TK 160	TK 160
Recommended handling weight [kg]	200	200
Pneumatic energy transfer [Quantity]*	4	8
Electrical energy transfer	12-pole	12-pole
Max. current [A]	6	6
Max. voltage [V]	250	250
Maximum acceleration [m/s ²]	20	20
Maximum speed [1/min.]	100	100
Maximum speed [°/s]	600	600
Radial run out +/- [mm]	0.05	0.05
Axial run out +/- [mm]	0.05	0.05
Constant torque [Nm]	4	5
Loose torque [Nm]	5	6
Operating pressure max. [bar]	10	10
Operating temperature [°C]	5 ... +80	5 ... +80
Moment of inertia [kg/cm ²]	480	580
Protection to IEC 60529	IP64	IP64
Weight [kg]	9.1	11

*Vacuum possible

① Fixing (robot side)
 ④ Integrated air feed-through
 ⑪ Fixing tool side
 ⑰ Torque brace
 ⑲ Electrical energy transfer robot side
 ⑳ Electrical energy transfer tool side
 ⑳ Air purge connection option
 ⑳ Tool changer
 ⑳ Adapter

PIN assignment

Hoseless air passage (tool)

ROTARY DISTRIBUTORS

SERIES DVR1000

▶ PRODUCT ADVANTAGES



▶ Rotary distributor with Industrial Ethernet

The integrated slip ring lets you transmit future-ready Industrial Ethernet to your machine for the first time with complete process reliability

▶ 8x integrated air-feed-through

Keep wear to a minimum and eliminate undefined interference contours from your hose package in order to use your machine's installation space more effectively

▶ Double bearings

The integrated roller bearings provide high stiffness and allows you to maximize the operational dynamics of your robot, improving your cycle times

▶ THE BEST PRODUCT FOR YOUR APPLICATION



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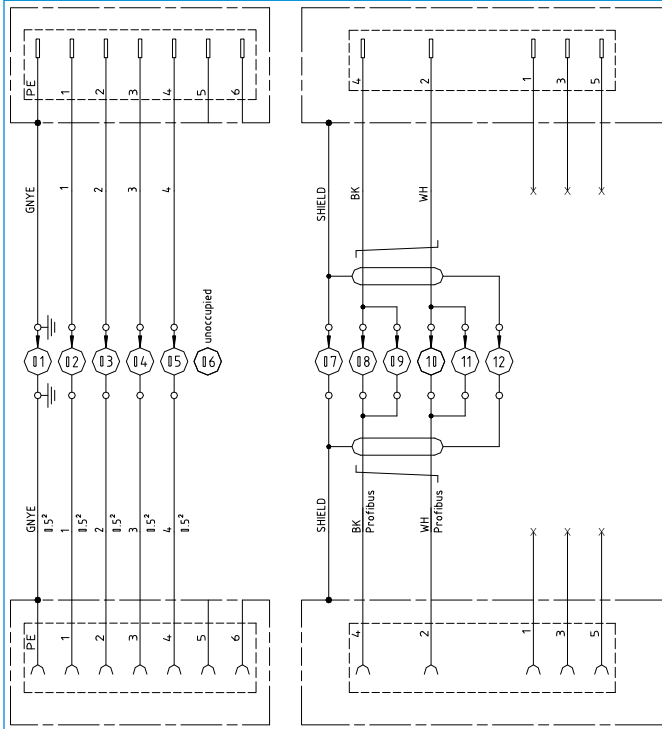
HOW TO ORDER CORRECTLY

- ▶ The product order numbers are arranged according to this diagram:

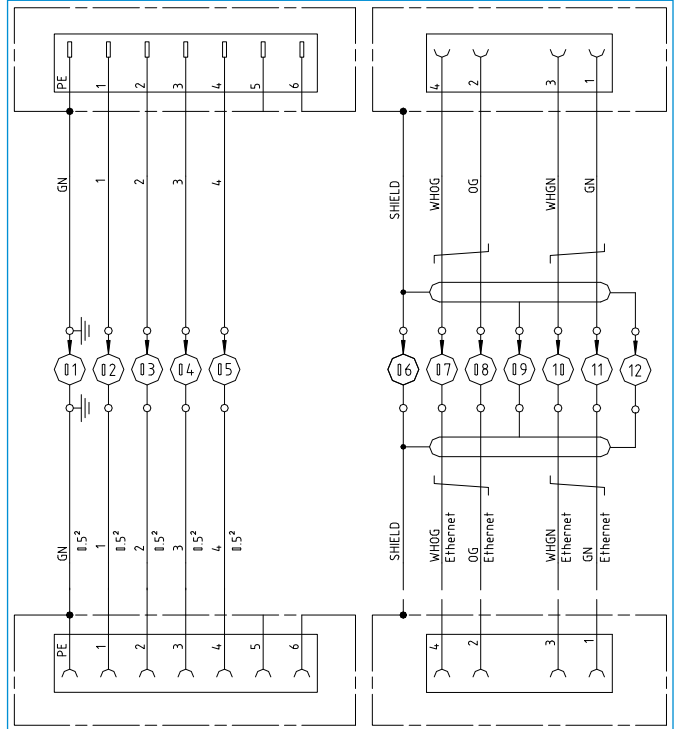
Order no.	DVR1125	<input type="checkbox"/>		
Profibus		PB		
Industrial Ethernet		PN		

CONNECTION DIAGRAM

DVR1125PB



DVR1125PN



FURTHER INFORMATION IS AVAILABLE ONLINE



Technical Information

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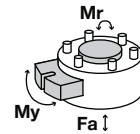
INSTALLATION SIZE DVR1125

▶ PRODUCT SPECIFICATIONS



▶ Forces and moments

Shows static forces and moments which may impact on the rotary distributor.



Mr [Nm]	900
My [Nm]	900
Fa [N]	7000

▶ INCLUDED IN DELIVERY



Cylinder Screw

C7984100209



O-Ring

COR0070150



O-ring
145x2.5

COR1450250

▶ RECOMMENDED ACCESSORIES



Straight Fittings - Quick
Connect Style

GV1-8X6

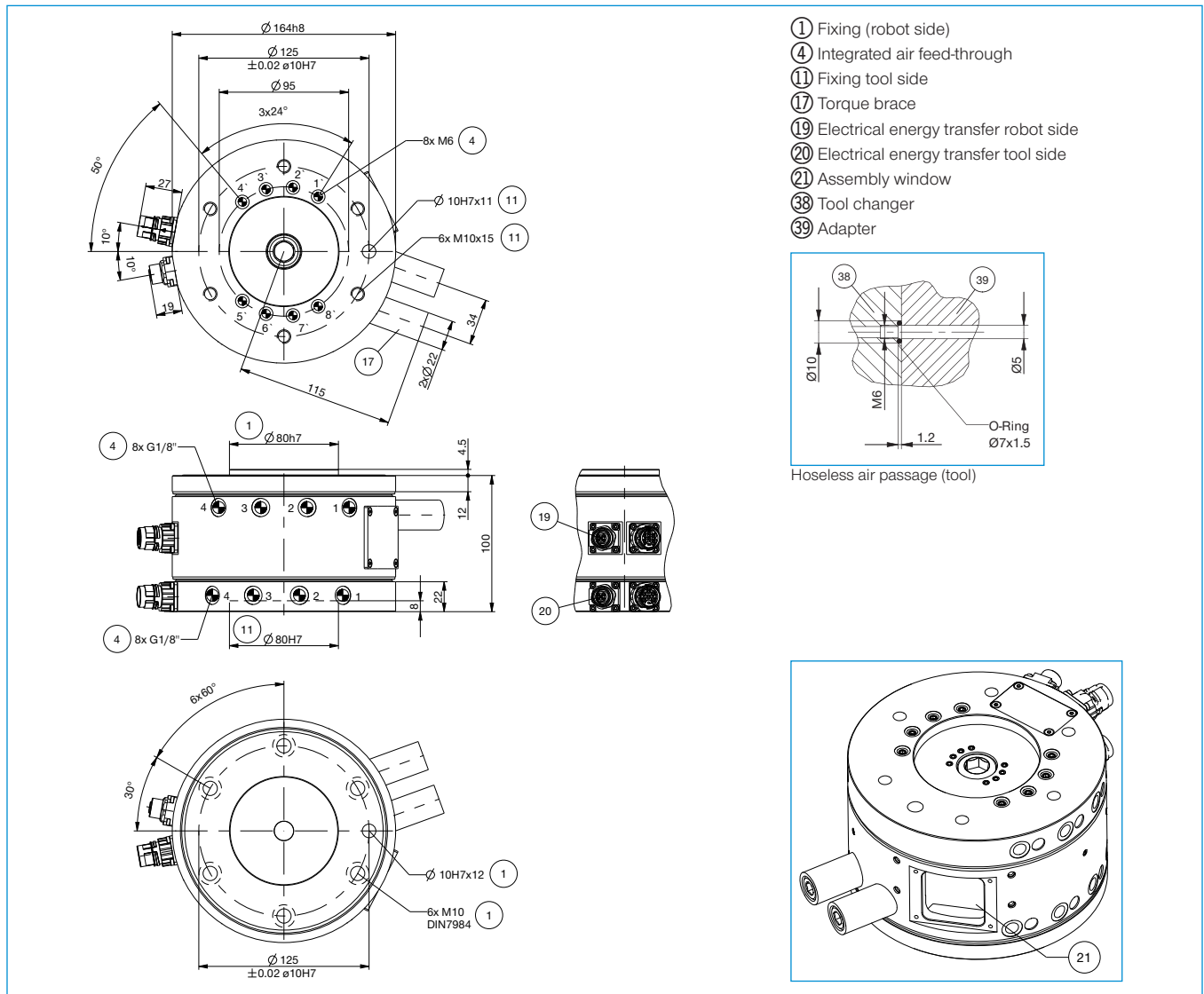


Angled Fittings - Quick
Connect Style

WV1-8X6

Order no.	Technical Data	
	DVR1125PB	DVR1125PN
Connecting flange according EN ISO 9409-1	TK 125	TK 125
Recommended handling weight [kg]	200	200
Pneumatic energy transfer [Quantity]*	8	8
Bus protocol	Profibus	Industrial Ethernet
Data rate	12	100
Electrical energy transfer	4 + PE	4 + PE
Max. current [A]	9	9
Max. voltage [V]	250	250
Maximum acceleration [m/s ²]	20	20
Maximum speed [1/min.]	100	100
Maximum speed [°/s]	600	600
Radial run out +/- [mm]	0.05	0.05
Axial run out +/- [mm]	0.05	0.05
Constant torque [Nm]	4	4
Loose torque [Nm]	5	5
Operating pressure max. [bar]	10	10
Operating temperature [°C]	5 ... +80	5 ... +80
Moment of inertia [kg/cm ²]	370	370
Protection to IEC 60529	IP64	IP64
Weight [kg]	8.5	8.5

*Vacuum possible



AXIS COMPENSATION MODULES

OVERVIEW OF SERIES



▶ AXIS COMPENSATION MODULES SERIES FGR	88
Installation size FGR1040	90
Installation size FGR1050	92
▶ AXIS COMPENSATION MODULES SERIES XYR	94
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Installation size XYR1160	104
▶ AXIS COMPENSATION MODULES SERIES ARP	106
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Installation size AR50P	110
Installation size AR63P	112
Installation size AR80P	114
Installation size AR100P	116
Installation size AR125P	118
Installation size AR160P	120

AXIS COMPENSATION MODULES

SERIES FGR

▶ PRODUCT ADVANTAGES



▶ Effortless joining process

The ease of movement makes it possible to carry out even the finest joining processes in the shortest amount of time

▶ Single-acting pneumatic cylinder

For easy control and a reduced amount of piping required

▶ Can be fixed in place centrally or de-centrally

For the optimal process sequence, depending on the requirement, you can clamp or centrally lock the equalizer position

4

▶ THE BEST PRODUCT FOR YOUR APPLICATION



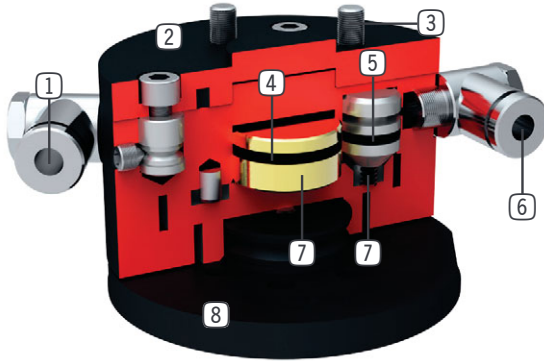
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► **BENEFITS IN DETAIL**



- ① **Energy supply**
- centering
- ② **Robust, lightweight housing**
- Hard-coated aluminum alloy
- ③ **Robot flange**
- partial mounting circle in accordance with EN ISO 9409-1
- ④ **Drive eccentric mounting**
- single-acting pneumatic cylinder with friction disc
- ⑤ **Drive centering**
- three single-acting pneumatic cylinders with cone pistons at 120° distance
- ⑥ **Energy supply**
- eccentric clamping
- ⑦ **Force transfer**
- direct and low-loss via cone/friction disc
- ⑧ **Compensation**
- force-free compensation of position inaccuracies
- up to +/- 4 mm compensating stroke

► **FURTHER INFORMATION IS AVAILABLE ONLINE**



► **Technical Information**

All information just a click away at: www.zimmer-group.com

Find data, illustrations, 3D models and operating instructions for your installation size using the order number for your desired product.

Quick, clear and always up-to-date.



AXIS COMPENSATION MODULES

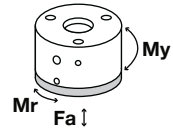
INSTALLATION SIZE FGR1040

▶ PRODUCT SPECIFICATIONS



▶ Forces and moments

Shows static forces and moments which may impact on the compensation module.



Mr [Nm]	5
My [Nm]	10
Fa [N]	1000

▶ INCLUDED IN DELIVERY



Cylinder Screw

C7984060129

▶ RECOMMENDED ACCESSORIES



Straight Fittings - Quick Connect Style

GV1-8X6



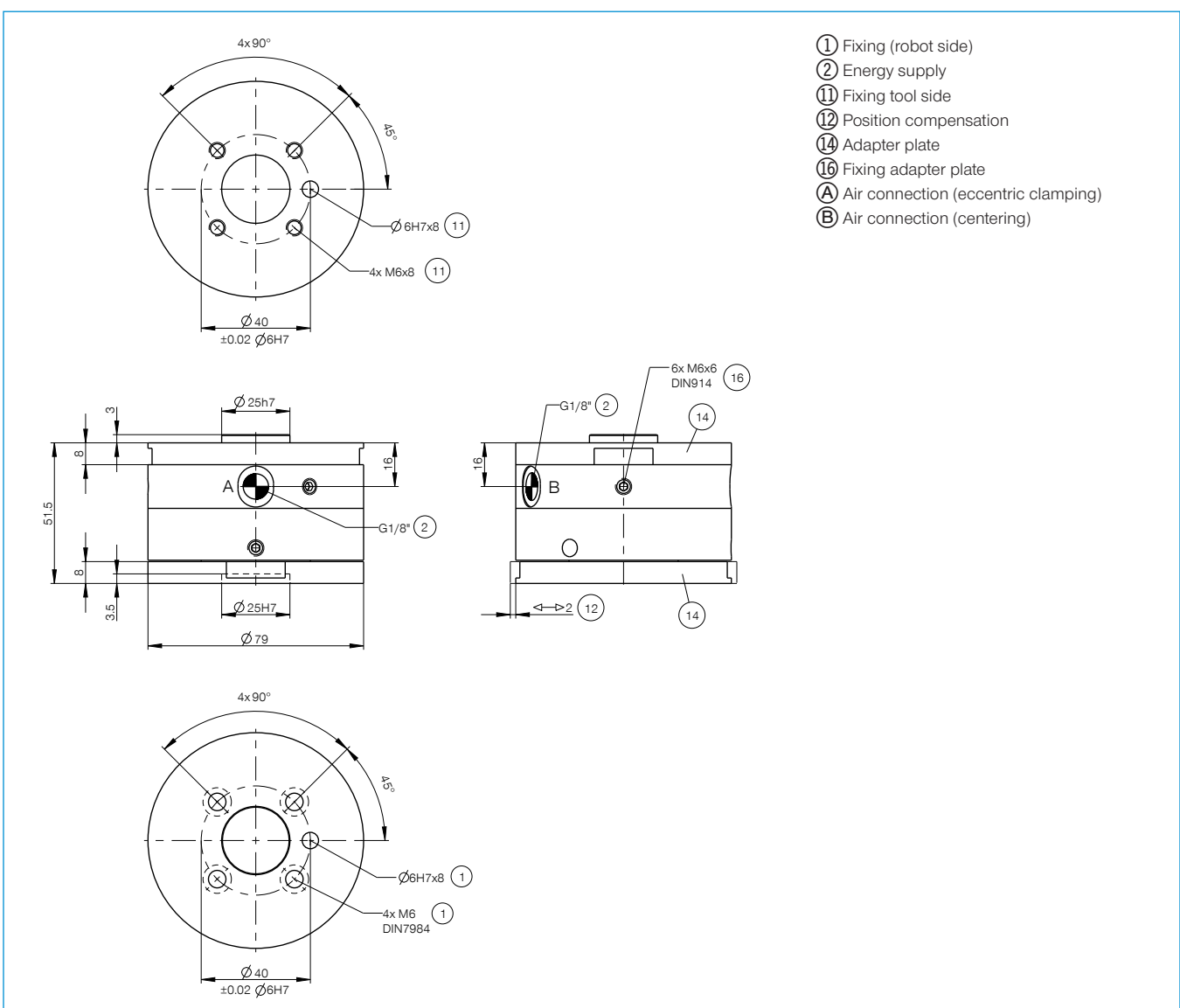
Angled Fittings - Quick Connect Style

WV1-8X6

Order no.	Technical Data*
Connecting flange according EN ISO 9409-1	TK40
Recommended handling weight [kg]**	10
Horizontal deviation +/- [mm]	2
Rotation angle max. [°]	12
Retention force centred [N]	120
Retention force decentred [N]	50
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Weight [kg]	0.9

*All data measured at 6 bar

**with central attachment



AXIS COMPENSATION MODULES

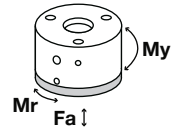
INSTALLATION SIZE FGR1050

▶ PRODUCT SPECIFICATIONS



▶ Forces and moments

Shows static forces and moments which may impact on the compensation module.



Mr [Nm]	6
My [Nm]	13
Fa [N]	1000

▶ INCLUDED IN DELIVERY



Cylinder Screw

C0912060149

▶ RECOMMENDED ACCESSORIES



Straight Fittings - Quick Connect Style

GV1-8X6



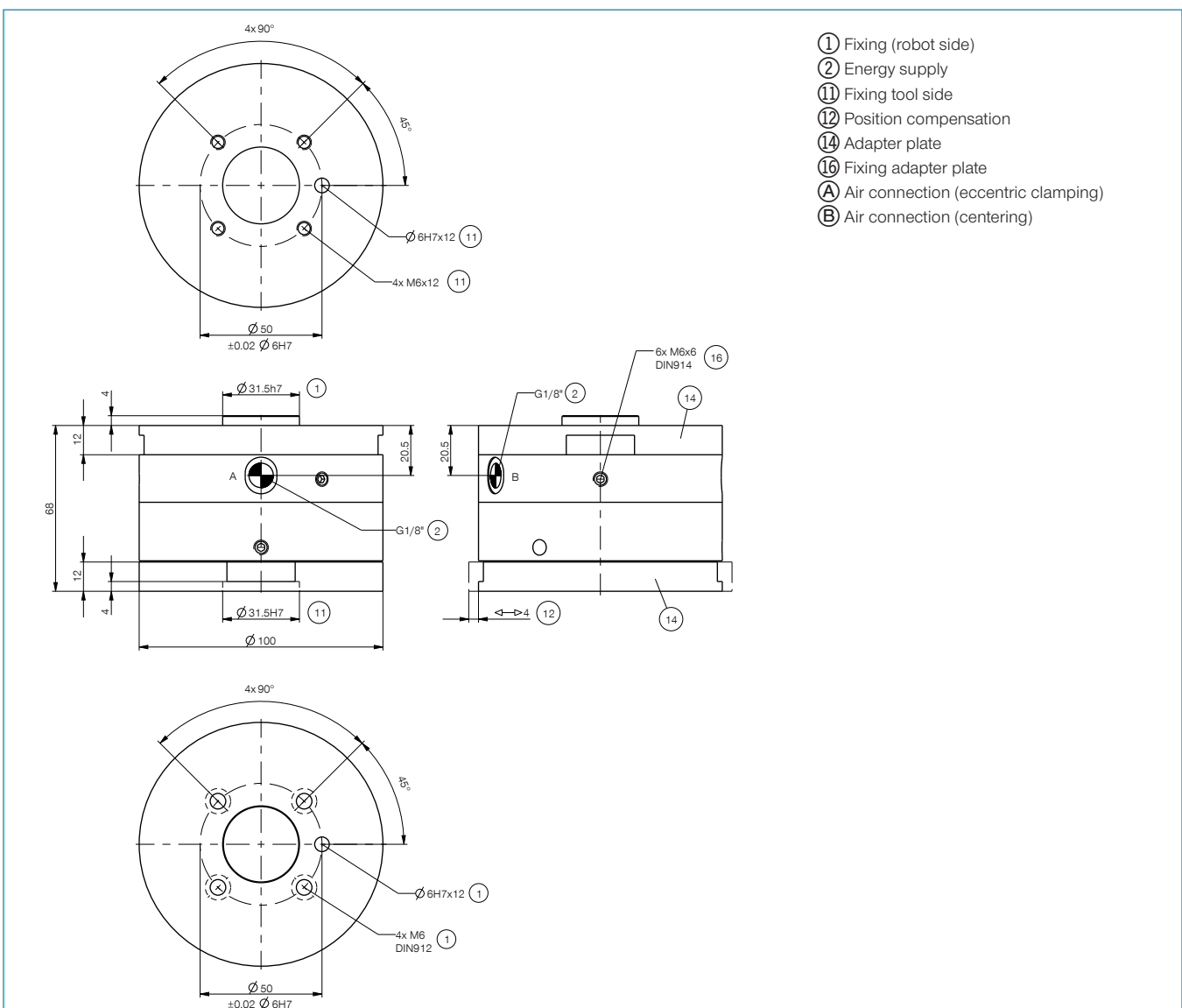
Angled Fittings - Quick Connect Style

WV1-8X6

► Technical Data*	
Order no.	FGR1050
Connecting flange according EN ISO 9409-1	TK 50
Recommended handling weight [kg]**	20
Horizontal deviation +/- [mm]	4
Rotation angle max. [°]	9
Retention force centred [N]	250
Retention force decentred [N]	200
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Weight [kg]	1.7

*All data measured at 6 bar

**with central attachment



- ① Fixing (robot side)
- ② Energy supply
- ⑪ Fixing tool side
- ⑫ Position compensation
- ⑭ Adapter plate
- ⑯ Fixing adapter plate
- Ⓐ Air connection (eccentric clamping)
- Ⓑ Air connection (centering)

AXIS COMPENSATION MODULES

SERIES XYR

▶ PRODUCT ADVANTAGES



▶ Adjustable balancing force and stroke

Using adjusting screws, you can adjust the properties of the equalizer optimally to your application in the shortest amount of time

▶ Flat design

This structure reduces the moment load for your robot to a minimum and makes it possible to use smaller and more affordable sizes

▶ Can be fixed in place centrally or de-centrally

Depending on the requirement, you can clamp or centrally lock the equalizer position. An aid for optimal processes

4

▶ THE BEST PRODUCT FOR YOUR APPLICATION



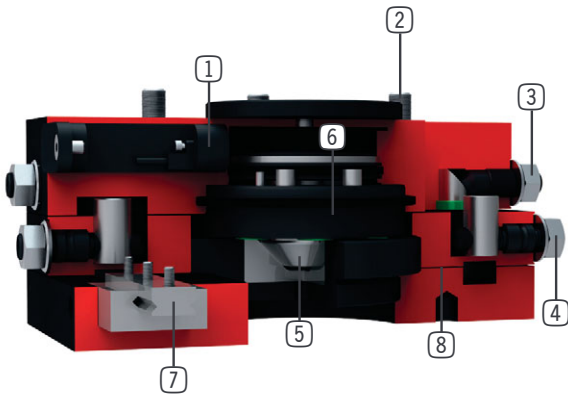
▶ Our products love the challenge!

Extreme conditions, all over the world—our tried and tested components and systems give you limitless possibilities:

Find the best product for your specific use:

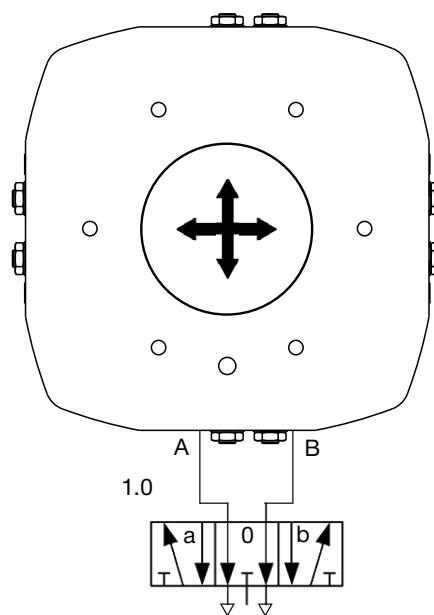
www.zimmer-group.com

► BENEFITS IN DETAIL



- ① **Piston position sensing**
 - via magnetic field sensors
 - included in scope of delivery
- ② **Robust, lightweight housing**
 - Hard-coated aluminum alloy
 - partial mounting circle in accordance with EN ISO 9409-1
 - lowest overall height
- ③ **Compensation force**
 - adjustable via adjustment screw
- ④ **Compensation stroke**
 - infinitely variable
- ⑤ **Locking piston**
 - central via cone
- ⑥ **Eccentric locking**
 - via pneumatic piston with frictional contact
- ⑦ **Linear guide**
 - for highest force and moments capacity
- ⑧ **Compensation plate**
 - to balance position errors in XY- direction

► PNEUMATIC PLANS



Valve	Status	Locking piston locked	Locking piston unlocked	Eccentric clamping activated	Eccentric clamping deactivated
1.0	a	█	█	█	█
	0	█	█	█	█
	b	█	█	█	█

AXIS COMPENSATION MODULES

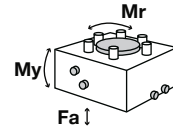
INSTALLATION SIZE XYR1063

▶ PRODUCT SPECIFICATIONS



▶ Forces and moments

Shows static forces and moments



Mr [Nm]	50
My [Nm]	50
Fa [N]	625

▶ INCLUDED IN DELIVERY



Mounting block

KB8K



Cylinder Screw

C7984060129

▶ RECOMMENDED ACCESSORIES



Alternate proximity bracket

KHA1000-8



Inductive proximity switch - Connector M8

NJ8-E2S



Straight Fittings - Quick Connect Style

GVM5



Piston position sensing

ZUB0046



Inductive proximity switch - Cable 5 m

NJ8-E2



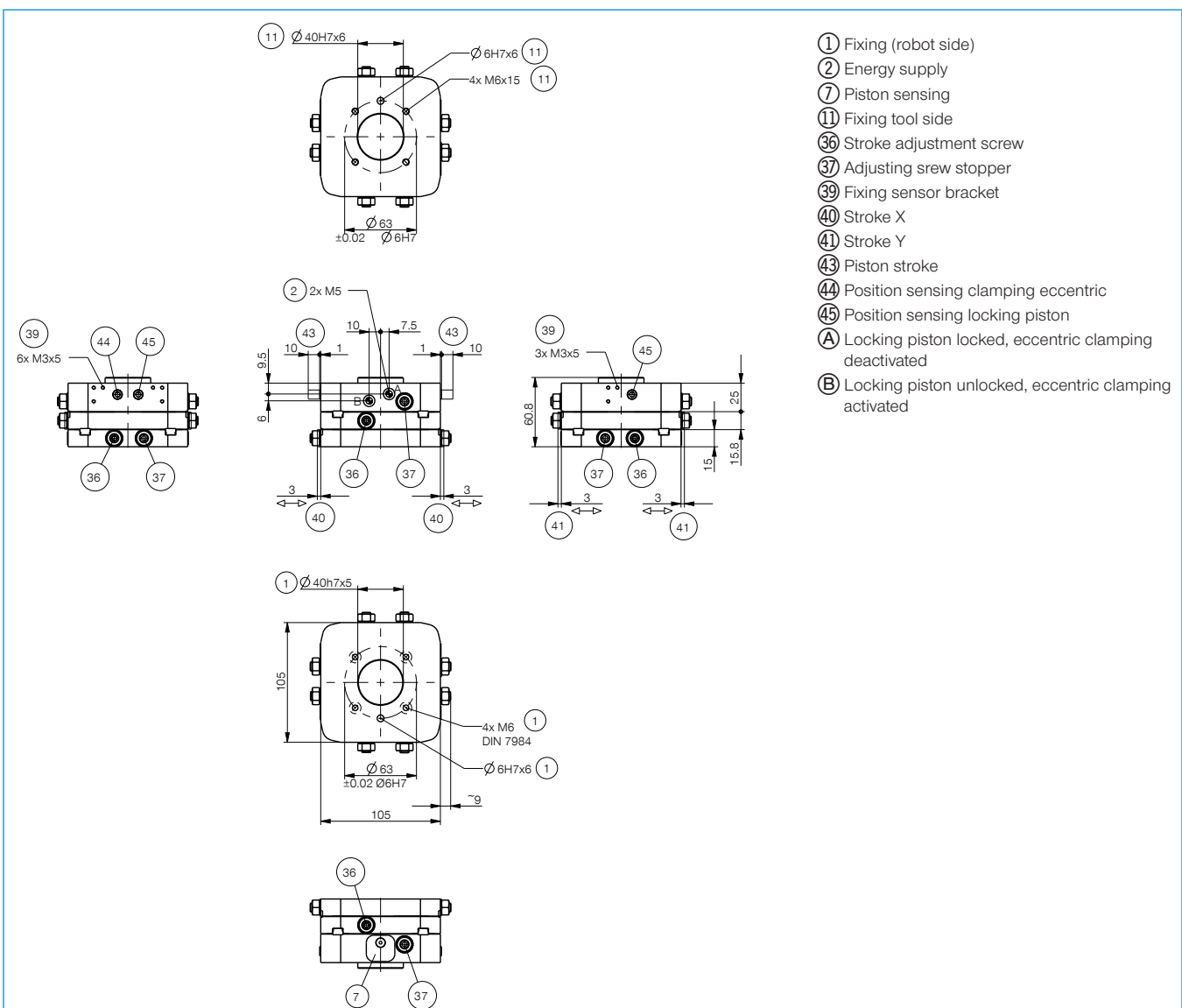
Angled Fittings - Quick Connect Style

WVM5

Order no.	Technical Data*
Connecting flange according EN ISO 9409-1	TK 63
Recommended handling weight [kg]**	7
Stroke X/Y level +/- [mm]	3
Retention force centred [N]	300
Retention force decentred [N]	100
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm³]	6.5
Moment of inertia [kg/cm²]	38.8
Weight [kg]	2

* All data measured at 6 bar

** with central attachment



AXIS COMPENSATION MODULES

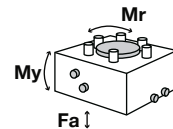
INSTALLATION SIZE XYR1080

▶ PRODUCT SPECIFICATIONS



▶ Forces and moments

Shows static forces and moments



Mr [Nm]	70
My [Nm]	70
Fa [N]	1150

▶ INCLUDED IN DELIVERY



Mounting block

KB8K



Cylinder Screw

C7984080169

▶ RECOMMENDED ACCESSORIES



Alternate proximity bracket

KHA1000-8



Inductive proximity switch - Connector M8

NJ8-E2S



Straight Fittings - Quick Connect Style

GV1-8X6



Piston position sensing

ZUB0047



Inductive proximity switch - Cable 5 m

NJ8-E2



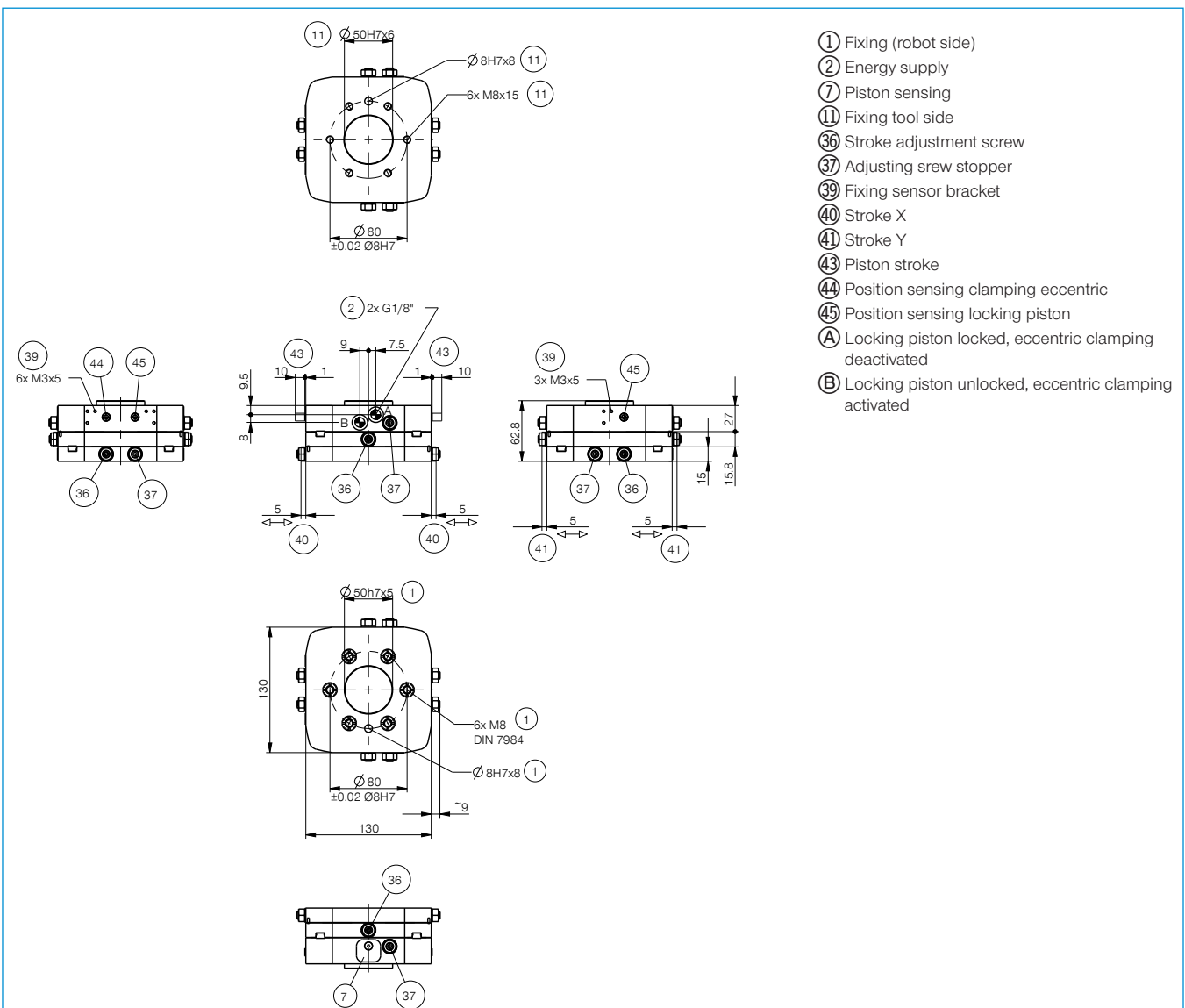
Angled Fittings - Quick Connect Style

WV1-8X6

▶ Technical Data*	
Order no.	XYR1080
Connecting flange according EN ISO 9409-1	TK 80
Recommended handling weight [kg]**	15
Stroke X/Y level +/- [mm]	5
Retention force centred [N]	450
Retention force decentred [N]	200
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm ³]	10
Moment of inertia [kg/cm ²]	82.5
Weight [kg]	3

*All data measured at 6 bar

**with central attachment



AXIS COMPENSATION MODULES

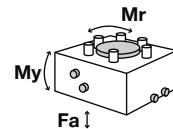
INSTALLATION SIZE XYR1100

▶ PRODUCT SPECIFICATIONS



▶ Forces and moments

Shows static forces and moments



Mr [Nm]	100
My [Nm]	100
Fa [N]	2300

▶ INCLUDED IN DELIVERY



Mounting block

KB8K



Cylinder Screw

C7984080169

▶ RECOMMENDED ACCESSORIES



Alternate proximity bracket

KHA1000-8



Inductive proximity switch - Connector M8

NJ8-E2S



Straight Fittings - Quick Connect Style

GV1-8X6



Piston position sensing

ZUB0048



Inductive proximity switch - Cable 5 m

NJ8-E2



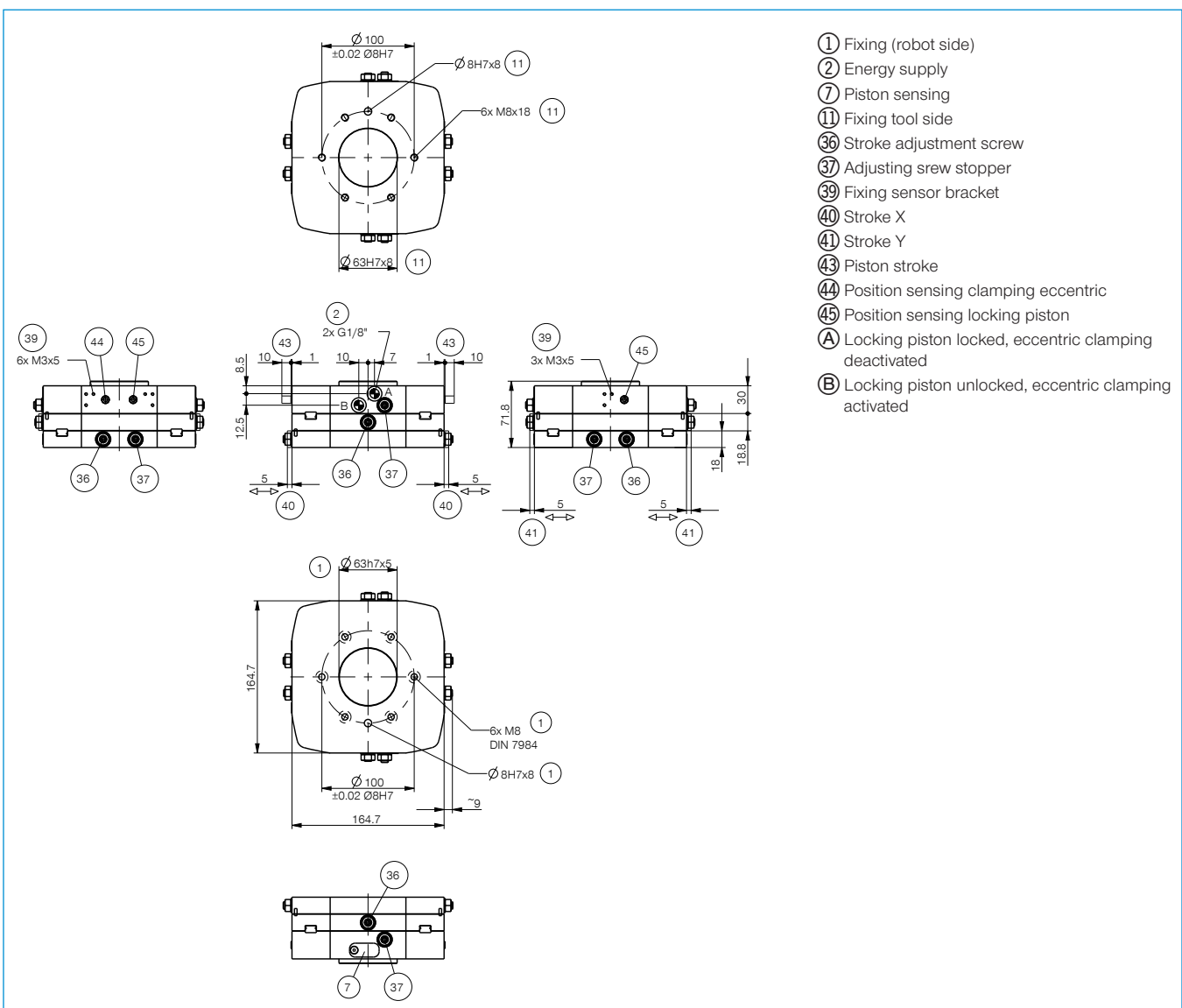
Angled Fittings - Quick Connect Style

WV1-8X6

Order no.	Technical Data*
Connecting flange according EN ISO 9409-1	TK 100
Recommended handling weight [kg] **	28
Stroke X/Y level +/- [mm]	5
Retention force centred [N]	600
Retention force decentred [N]	350
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm³]	16
Moment of inertia [kg/cm²]	231
Weight [kg]	5.3

*All data measured at 6 bar

**with central attachment



- ① Fixing (robot side)
- ② Energy supply
- ⑦ Piston sensing
- ⑪ Fixing tool side
- ③⑥ Stroke adjustment screw
- ③⑦ Adjusting screw stopper
- ③⑨ Fixing sensor bracket
- ④⑩ Stroke X
- ④⑪ Stroke Y
- ④③ Piston stroke
- ④④ Position sensing clamping eccentric
- ④⑤ Position sensing locking piston
- Ⓐ Locking piston locked, eccentric clamping deactivated
- Ⓑ Locking piston unlocked, eccentric clamping activated

AXIS COMPENSATION MODULES

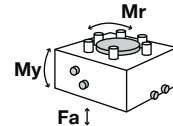
INSTALLATION SIZE XYR1125

▶ PRODUCT SPECIFICATIONS



▶ Forces and moments

Shows static forces and moments



Mr [Nm]	150
My [Nm]	150
Fa [N]	3600

▶ INCLUDED IN DELIVERY



Mounting block

KB8K



Cylinder Screw

C7984100209

▶ RECOMMENDED ACCESSORIES



Alternate proximity bracket

KHA1000-8



Inductive proximity switch - Connector M8

NJ8-E2S



Straight Fittings - Quick Connect Style

GV1-8X6



Piston position sensing

ZUB0049



Inductive proximity switch - Cable 5 m

NJ8-E2



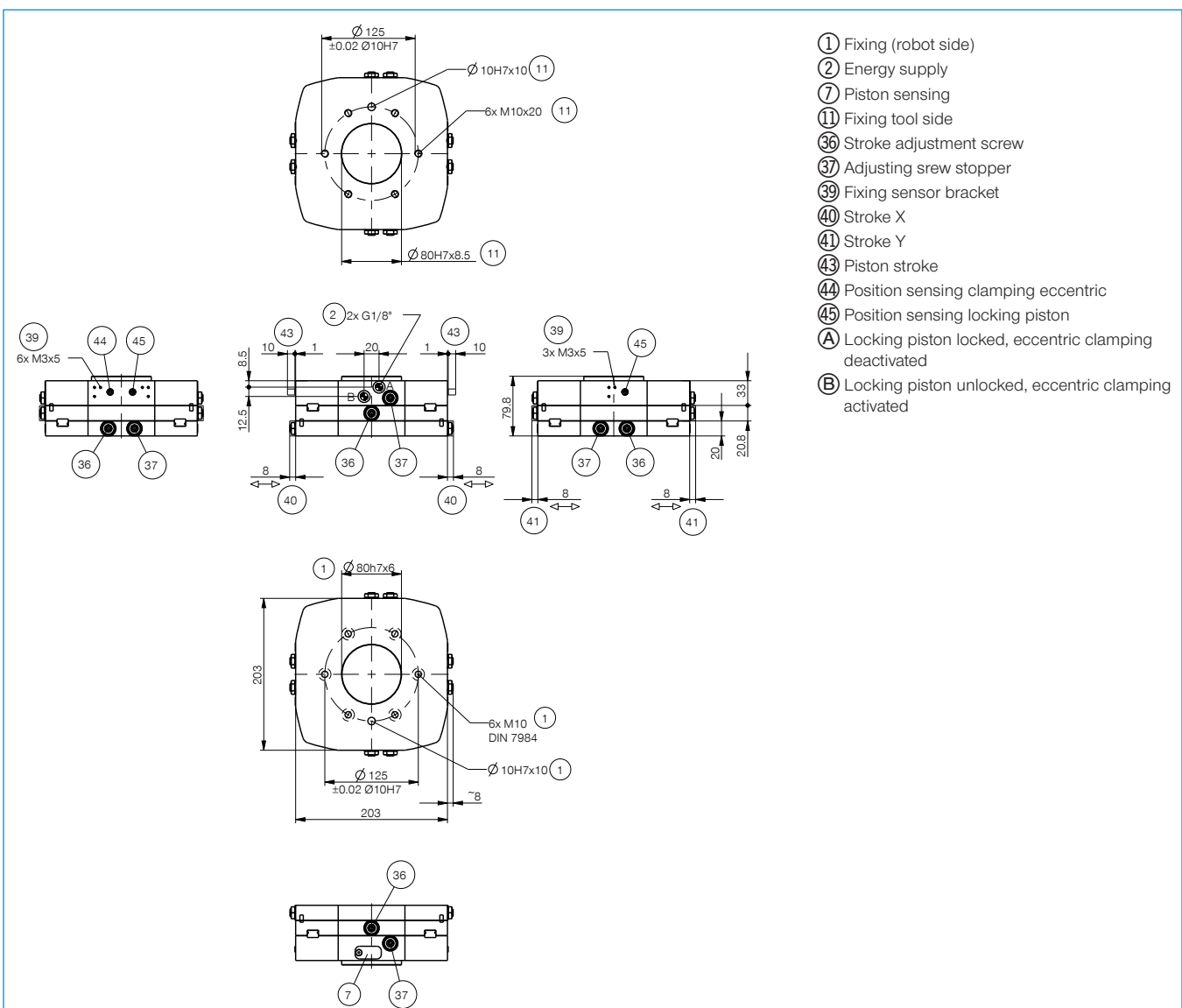
Angled Fittings - Quick Connect Style

WV1-8X6

Order no.	Technical Data*
Connecting flange according EN ISO 9409-1	TK 125
Recommended handling weight [kg]**	45
Stroke X/Y level +/- [mm]	8
Retention force centred [N]	900
Retention force decentred [N]	500
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm³]	31
Moment of inertia [kg/cm²]	585
Weight [kg]	8.9

*All data measured at 6 bar

**with central attachment



AXIS COMPENSATION MODULES

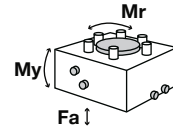
INSTALLATION SIZE XYR1160

▶ PRODUCT SPECIFICATIONS



▶ Forces and moments

Shows static forces and moments



Mr [Nm]	250
My [Nm]	250
Fa [N]	3600

▶ INCLUDED IN DELIVERY



Mounting block

KB8K



Cylinder Screw

C7984100209

▶ RECOMMENDED ACCESSORIES



Alternate proximity bracket

KHA1000-8



Inductive proximity switch - Connector M8

NJ8-E2S



Straight Fittings - Quick Connect Style

GV1-8X6



Piston position sensing

ZUB0050



Inductive proximity switch - Cable 5 m

NJ8-E2



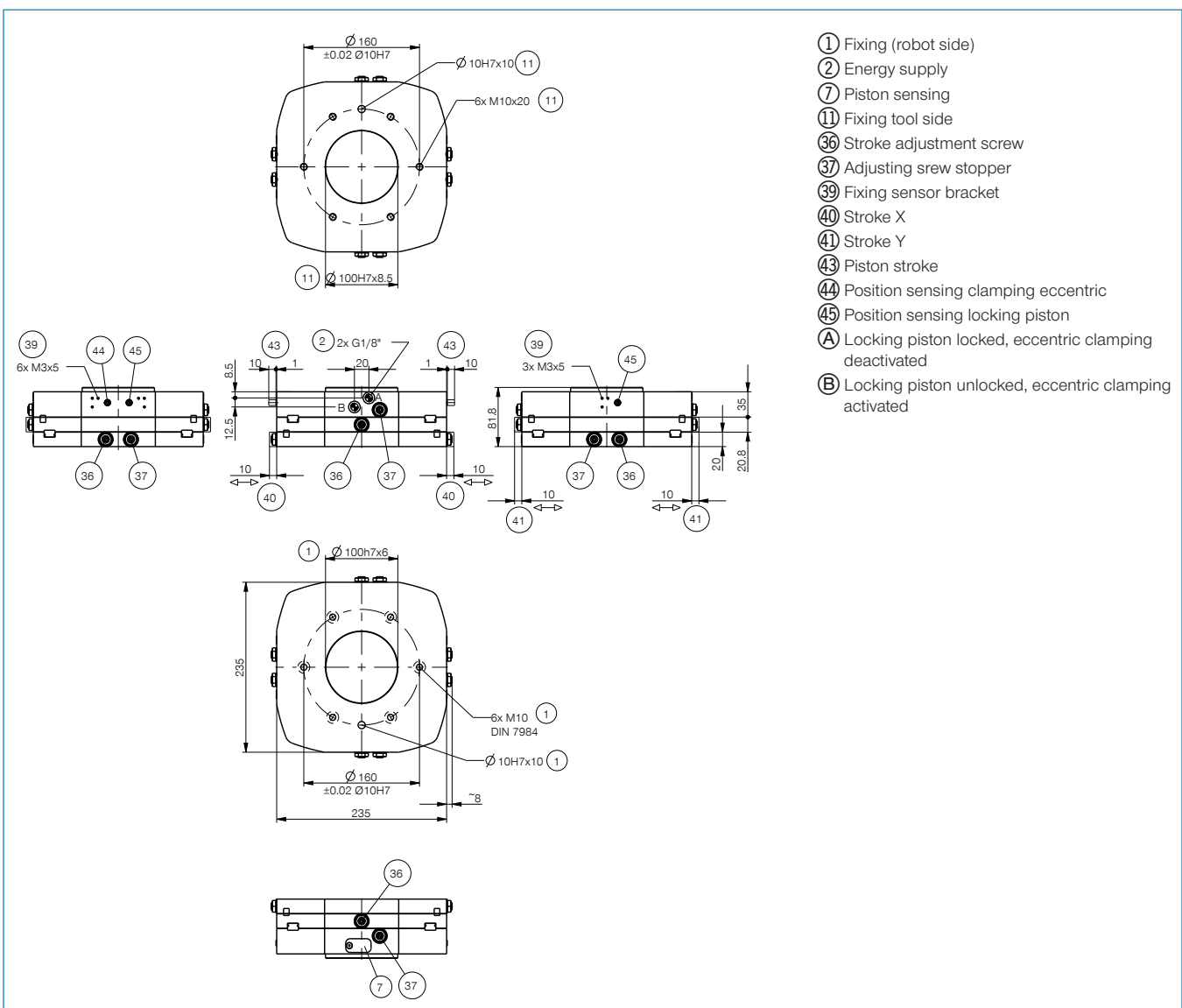
Angled Fittings - Quick Connect Style

WV1-8X6

Order no.	Technical Data*
Connecting flange according EN ISO 9409-1	TK 160
Recommended handling weight [kg]**	75
Stroke X/Y level +/- [mm]	10
Retention force centred [N]	1200
Retention force decentred [N]	800
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Air volume per cycle [cm³]	48
Moment of inertia [kg/cm²]	1005
Weight [kg]	11.7

*All data measured at 6 bar

**with central attachment



AXIS COMPENSATION MODULES

SERIES ARP

▶ PRODUCT ADVANTAGES



▶ Lockable centre placement

When moving your robot, you can fix the equalizer in place so that uncontrolled movements of the workpiece do not take place

▶ Extremely flat design

This structure reduces the moment load for your robot to a minimum and makes it possible to use smaller and more affordable sizes

▶ Variable balancing force and moment

Adjust the equaliser to your handling weight by mounting a spring package based on desired rigidity

▶ THE BEST PRODUCT FOR YOUR APPLICATION



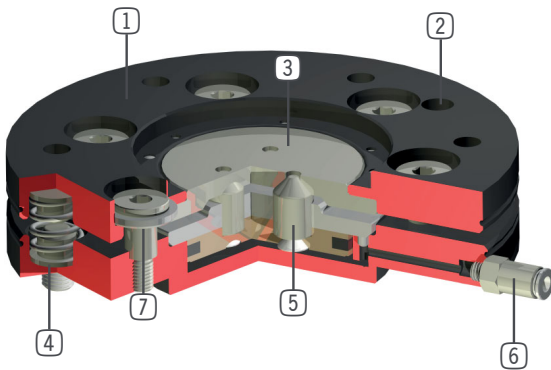
▶ Our products love the challenge!

Extreme conditions, all over the world—our tried and tested components and systems give you limitless possibilities:

Find the best product for your specific use:

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► BENEFITS IN DETAIL



- ① **Robust, lightweight housing**
 - Hard-coated aluminum alloy
- ② **Robot connecting flange**
 - partial mounting circle in accordance with EN ISO 9409-1
- ③ **Locking**
 - 3 locking pistons
 - nitrated steel
- ④ **Spring package**
 - version size 63, stronger one is available
 - version size 100, 3 springs can be removed
- ⑤ **Locking drive**
 - single-acting pneumatic cylinder
- ⑥ **Energy supply**
- ⑦ **Guiding bolts with ball cup**

► FURTHER INFORMATION IS AVAILABLE ONLINE



► Technical Information

All information just a click away at: www.zimmer-group.com

Find data, illustrations, 3-D models and operating instructions for your installation size using the order number for your desired product.

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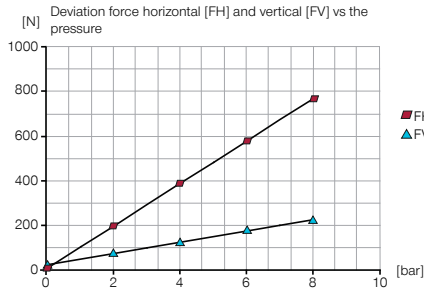
AXIS COMPENSATION MODULES

INSTALLATION SIZE AR40P

▶ PRODUCT SPECIFICATIONS

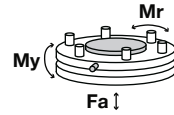


▶ Spring Pack 1 (pre-assembled)



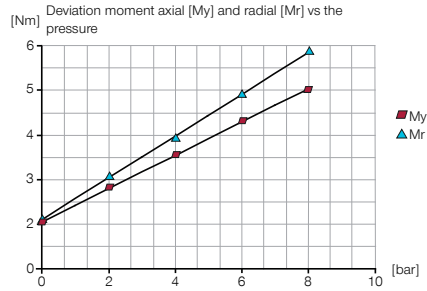
▶ Forces and moments

Shows static forces and moments which may impact on the axis compensation module.



Mr [Nm]	60
My [Nm]	60
Fa [N]	800

▶ Spring Pack 1 (pre-assembled)



▶ INCLUDED IN DELIVERY



Cylinder Screw

C7984060129



Spring Pack 1 (pre-assembled)

CFED11180

▶ RECOMMENDED ACCESSORIES



Angled Fittings - Barb Style Connection

WVM3

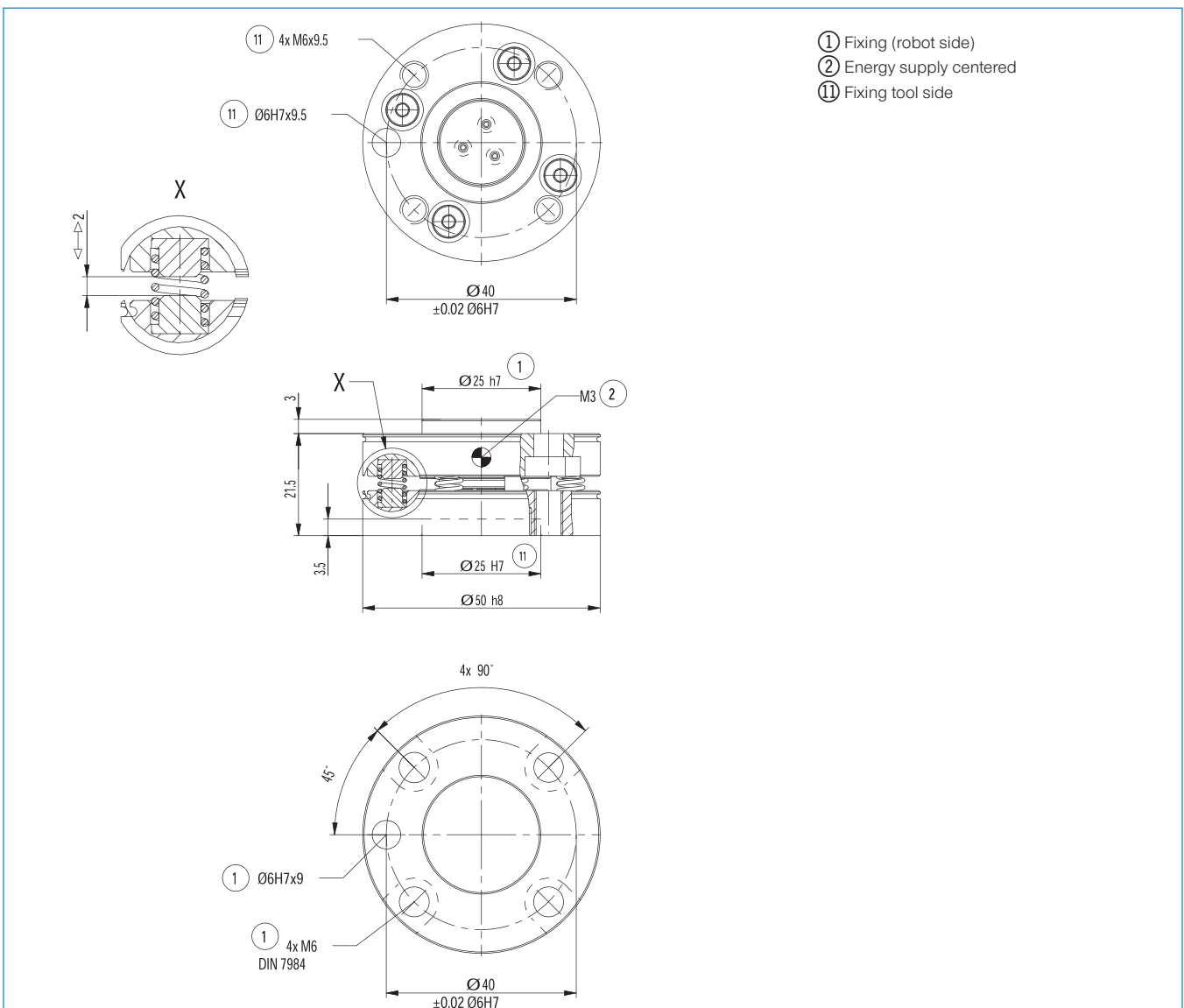


Straight Fittings - Barb Style Connection

GVM3

Order no.	Technical Data*
Connecting flange according EN ISO 9409-1	TK40
Installation Height [mm]	21.5
Recommended handling weight [kg]	3
Horizontal deviation +/- [mm]	2
Horizontal deviation +/- [°]	1
Vertical deviation [mm]	2
Vertical deviation [°]	1
Centering force when locking [N]	170
Repetition accuracy Horizontal +/- [mm/°]	0.05
Repetition accuracy Vertical +/- [mm/°]	0.05
Air volume per cycle [cm ³]	2
Operating pressure min. [bar]	1
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Moment of inertia [kg/cm ²]	0.5
Weight [kg]	0.15

*All data measured at 6 bar



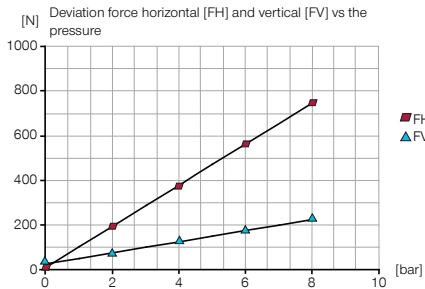
AXIS COMPENSATION MODULES

INSTALLATION SIZE AR50P

▶ PRODUCT SPECIFICATIONS

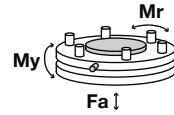


▶ Spring Pack 1 (pre-assembled)



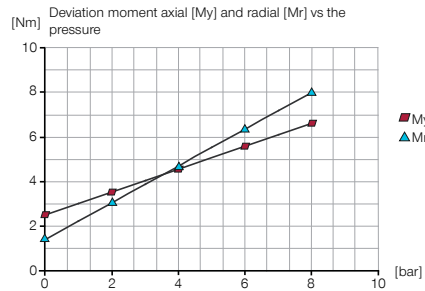
▶ Forces and moments

Shows static forces and moments which may impact on the axis compensation module.



Mr [Nm]	60
My [Nm]	60
Fa [N]	800

▶ Spring Pack 1 (pre-assembled)



▶ INCLUDED IN DELIVERY



Cylinder Screw

C7984060129



Spring Pack 1 (pre-assembled)

CFED11180

▶ RECOMMENDED ACCESSORIES



Angled Fittings - Barb Style Connection

WVM3

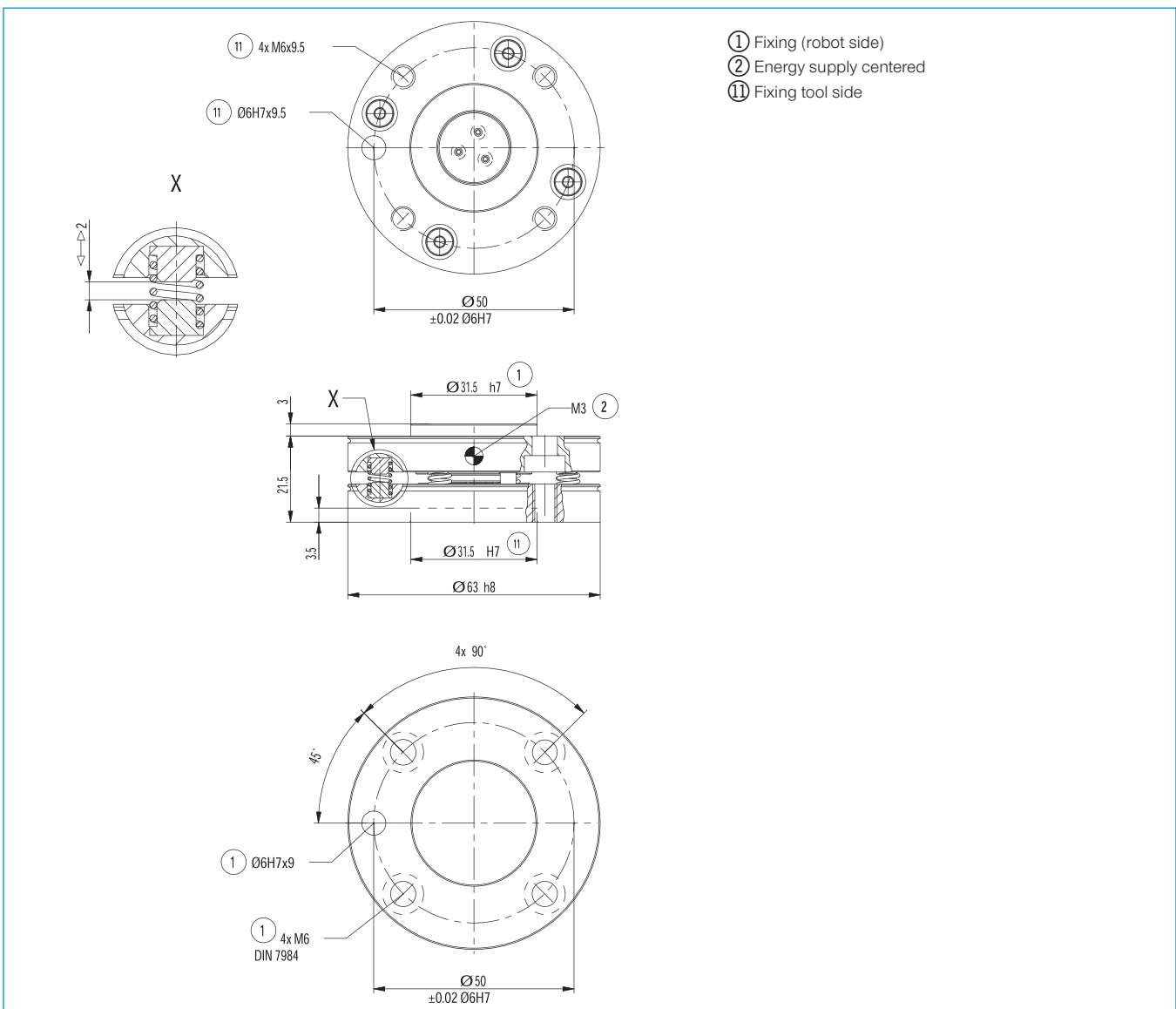


Straight Fittings - Barb Style Connection

GVM3

Order no.	AR50P
Connecting flange according EN ISO 9409-1	TK 50
Installation Height [mm]	21.5
Recommended handling weight [kg]	4
Horizontal deviation +/- [mm]	2
Horizontal deviation +/- [°]	1
Vertical deviation [mm]	2
Vertical deviation [°]	1
Centering force when locking [N]	170
Repetition accuracy Horizontal +/- [mm/°]	0.05
Repetition accuracy Vertical +/- [mm/°]	0.05
Air volume per cycle [cm ³]	2
Operating pressure min. [bar]	1
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Moment of inertia [kg/cm ²]	1.1
Weight [kg]	0.22

*All data measured at 6 bar



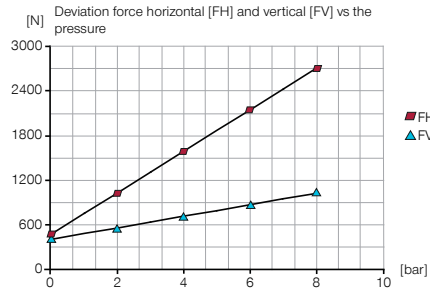
AXIS COMPENSATION MODULES

INSTALLATION SIZE AR63P

▶ PRODUCT SPECIFICATIONS

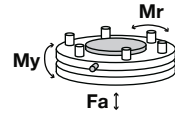


▶ Spring Pack 1 (pre-assembled)



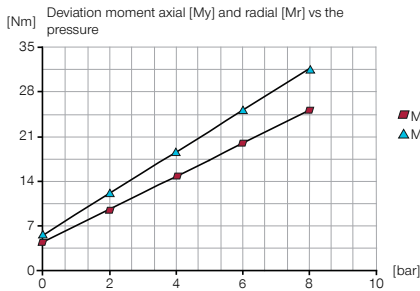
▶ Forces and moments

Shows static forces and moments which may impact on the axis compensation module.

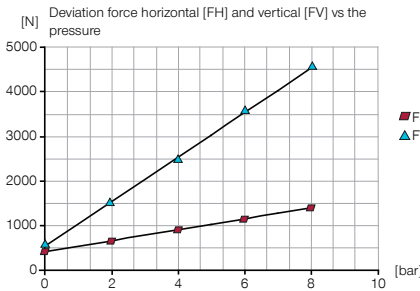


Mr [Nm]	300
My [Nm]	300
Fa [N]	1500

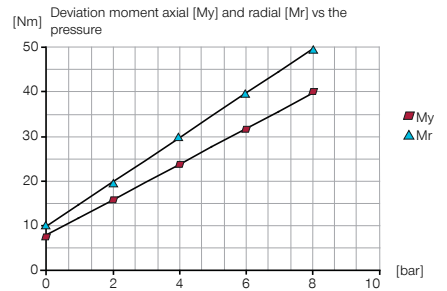
▶ Spring Pack 1 (pre-assembled)



▶ Spring Pack 2



▶ Spring Pack 2



▶ INCLUDED IN DELIVERY



Cylinder Screw

C7984060149



Spring Pack 1 (pre-assembled)

CFED63000



Spring Pack 2

CFED63010

▶ RECOMMENDED ACCESSORIES



Angled Fittings - Barb Style Connection

WVM3

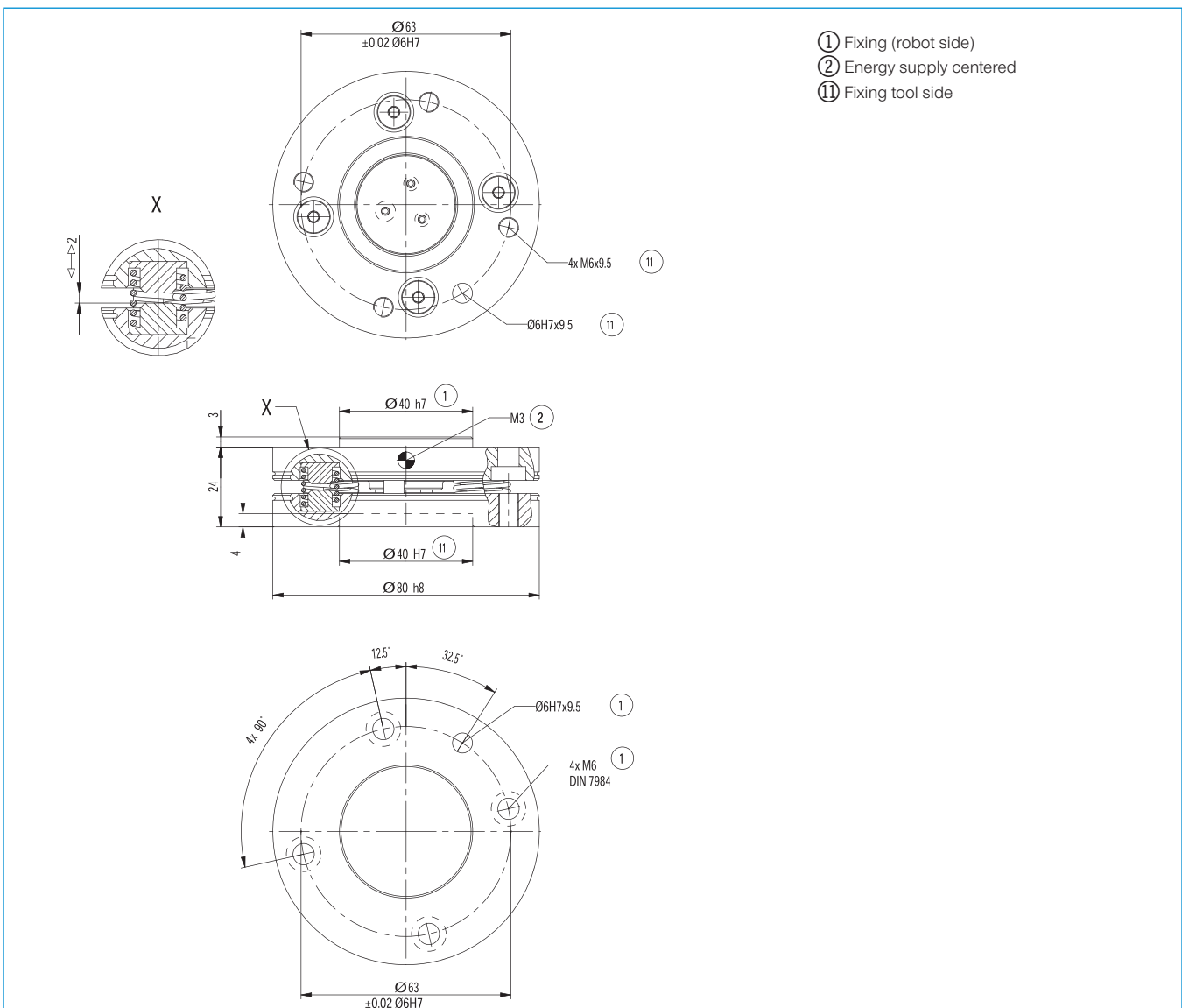


Straight Fittings - Barb Style Connection

GVM3

Order no.	AR63P
Connecting flange according EN ISO 9409-1	TK 63
Installation Height [mm]	24
Recommended handling weight [kg]	15
Horizontal deviation +/- [mm]	2
Horizontal deviation +/- [°]	1
Vertical deviation [mm]	2
Vertical deviation [°]	1
Centering force when locking [N]	600
Repetition accuracy Horizontal +/- [mm/°]	0.05
Repetition accuracy Vertical +/- [mm/°]	0.05
Air volume per cycle [cm³]	3.6
Operating pressure min. [bar]	1
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Moment of inertia [kg/cm²]	2.8
Weight [kg]	0.36

*All data measured at 6 bar



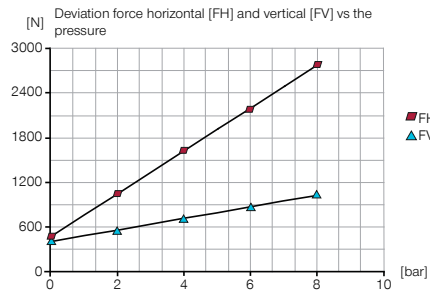
AXIS COMPENSATION MODULES

INSTALLATION SIZE AR80P

▶ PRODUCT SPECIFICATIONS

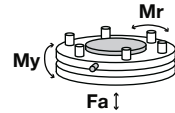


▶ Spring Pack 1 (pre-assembled)



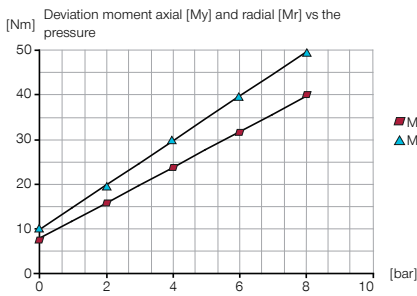
▶ Forces and moments

Shows static forces and moments which may impact on the axis compensation module.

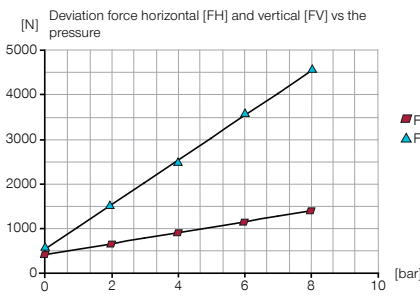


Mr [Nm]	300
My [Nm]	300
Fa [N]	1500

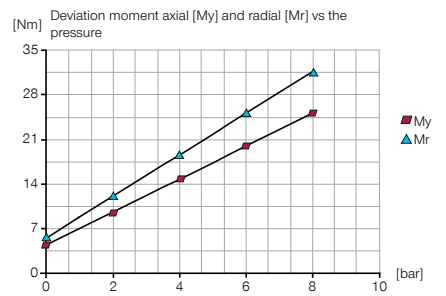
▶ Spring Pack 1 (pre-assembled)



▶ Spring Pack 2



▶ Spring Pack 2



▶ INCLUDED IN DELIVERY



Cylinder Screw

C7984080169



Spring Pack 1 (pre-assembled)

CFED63000



Spring Pack 2

CFED63010

▶ RECOMMENDED ACCESSORIES



Angled Fittings - Barb Style Connection

WVM3

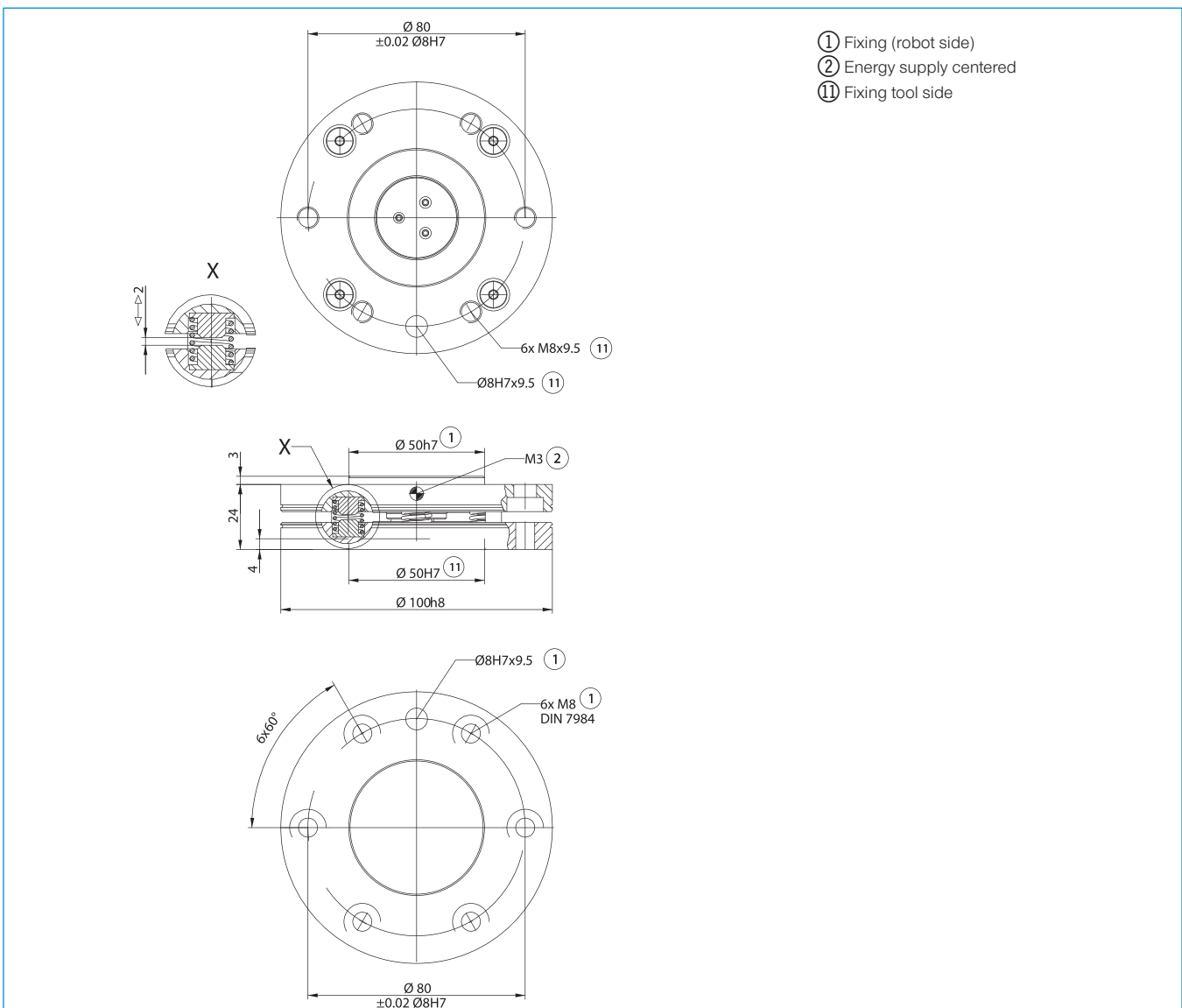


Straight Fittings - Barb Style Connection

GVM3

Order no.	Technical Data*
Connecting flange according EN ISO 9409-1	TK 80
Installation Height [mm]	24
Recommended handling weight [kg]	15
Horizontal deviation +/- [mm]	2
Horizontal deviation +/- [°]	1
Vertical deviation [mm]	2
Vertical deviation [°]	1
Centering force when locking [N]	600
Repetition accuracy Horizontal +/- [mm/°]	0.05
Repetition accuracy Vertical +/- [mm/°]	0.05
Air volume per cycle [cm³]	3.6
Operating pressure min. [bar]	1
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Moment of inertia [kg/cm²]	6.2
Weight [kg]	0.5

*All data measured at 6 bar



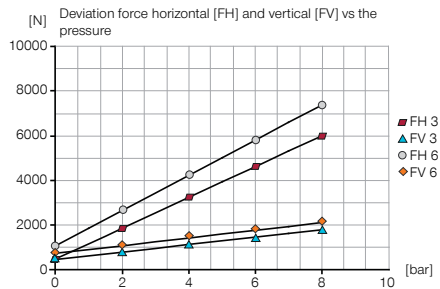
AXIS COMPENSATION MODULES

INSTALLATION SIZE AR100P

PRODUCT SPECIFICATIONS

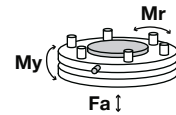


Spring Pack 1 (pre-assembled)



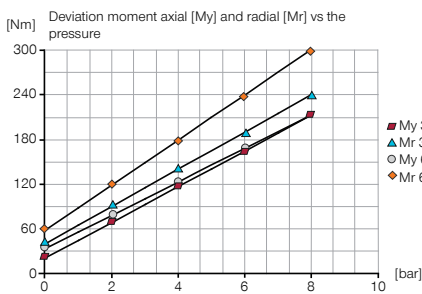
Forces and moments

Shows static forces and moments which may impact on the axis compensation module.

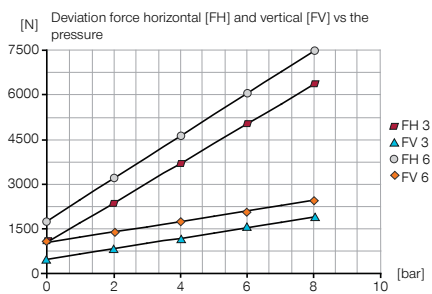


Mr [Nm]	500
My [Nm]	500
Fa [N]	2100

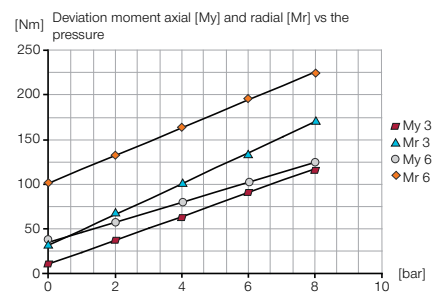
Spring Pack 1 (pre-assembled)



Spring Pack 2



Spring Pack 2



INCLUDED IN DELIVERY



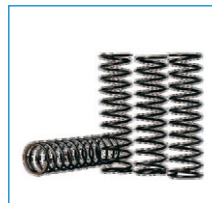
Cylinder Screw

C7984080169



Spring Pack 1 (pre-assembled)

CFED10050



Spring Pack 2

CFED10060

RECOMMENDED ACCESSORIES



Straight Fittings - Quick Connect Style

GVM5

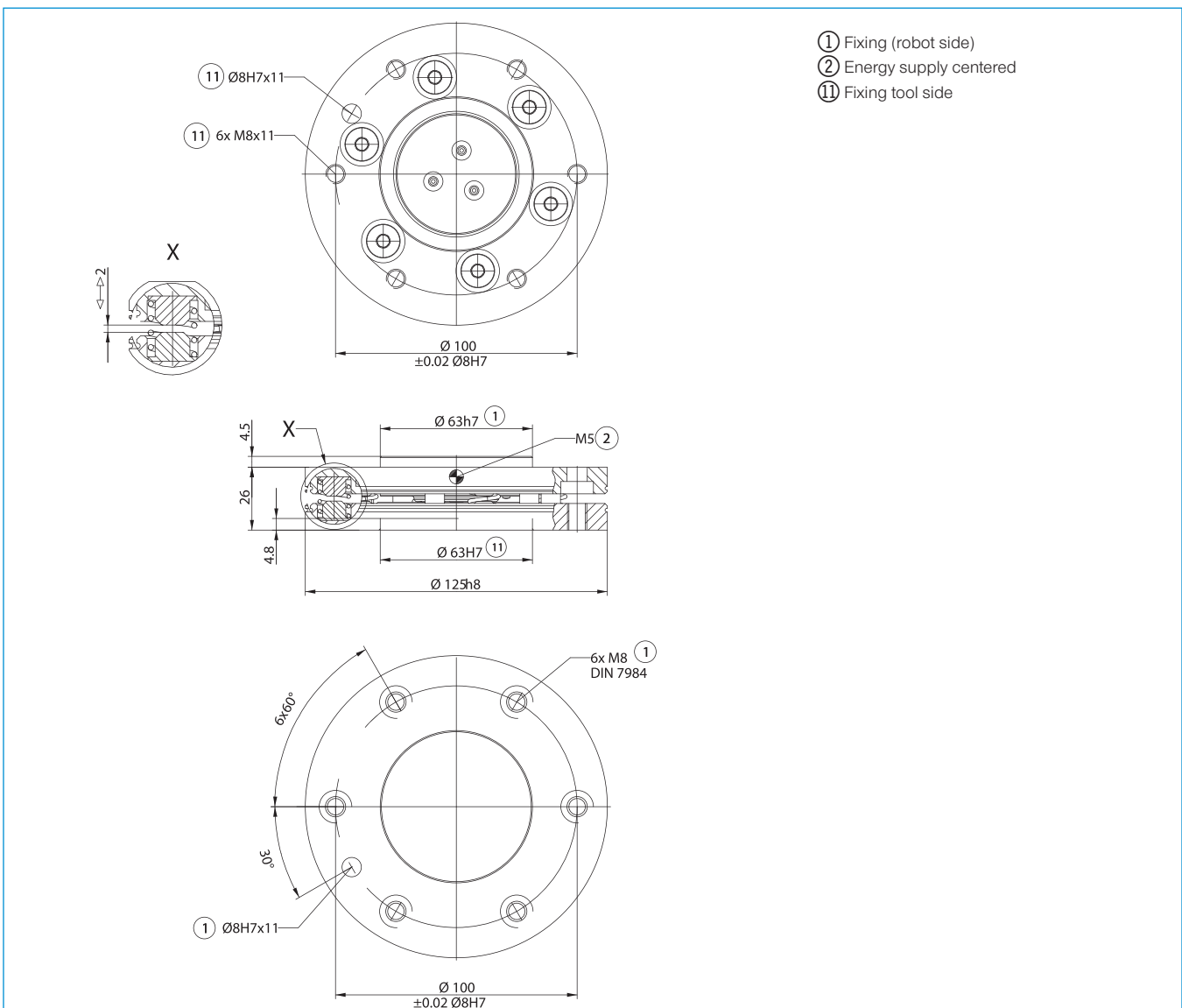


Angled Fittings - Quick Connect Style

WVM5

Order no.	AR100P
Connecting flange according EN ISO 9409-1	TK 100
Installation Height [mm]	26
Recommended handling weight [kg]	30
Horizontal deviation +/- [mm]	2
Horizontal deviation +/- [°]	1
Vertical deviation [mm]	2
Vertical deviation [°]	1
Centering force when locking [N]	1400
Repetition accuracy Horizontal +/- [mm/°]	0.05
Repetition accuracy Vertical +/- [mm/°]	0.05
Air volume per cycle [cm³]	8.5
Operating pressure min. [bar]	1
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Moment of inertia [kg/cm²]	17
Weight [kg]	0.85

*All data measured at 6 bar



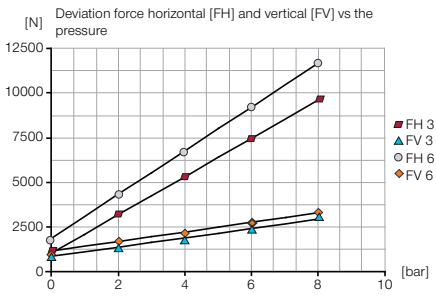
AXIS COMPENSATION MODULES

INSTALLATION SIZE AR125P

PRODUCT SPECIFICATIONS

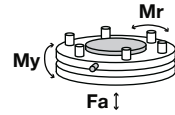


Spring Pack 1 (pre-assembled)



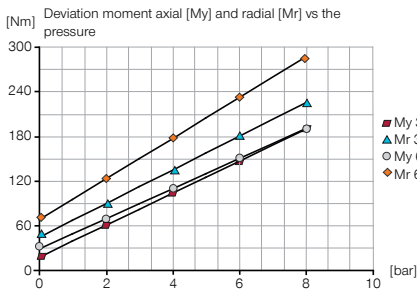
Forces and moments

Shows static forces and moments which may impact on the axis compensation module.

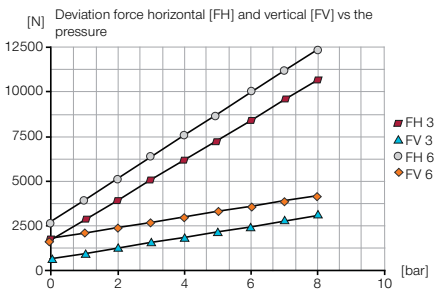


Mr [Nm]	900
My [Nm]	900
Fa [N]	7000

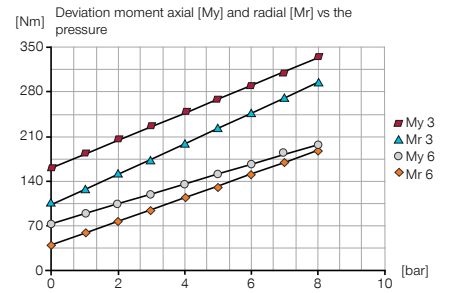
Spring Pack 1 (pre-assembled)



Spring Pack 2



Spring Pack 2



INCLUDED IN DELIVERY



Cylinder Screw

C7984100209



Spring Pack 2

CFED12510



Spring Pack 1 (pre-assembled)

CFED12500

RECOMMENDED ACCESSORIES



Straight Fittings - Quick Connect Style

GVM5

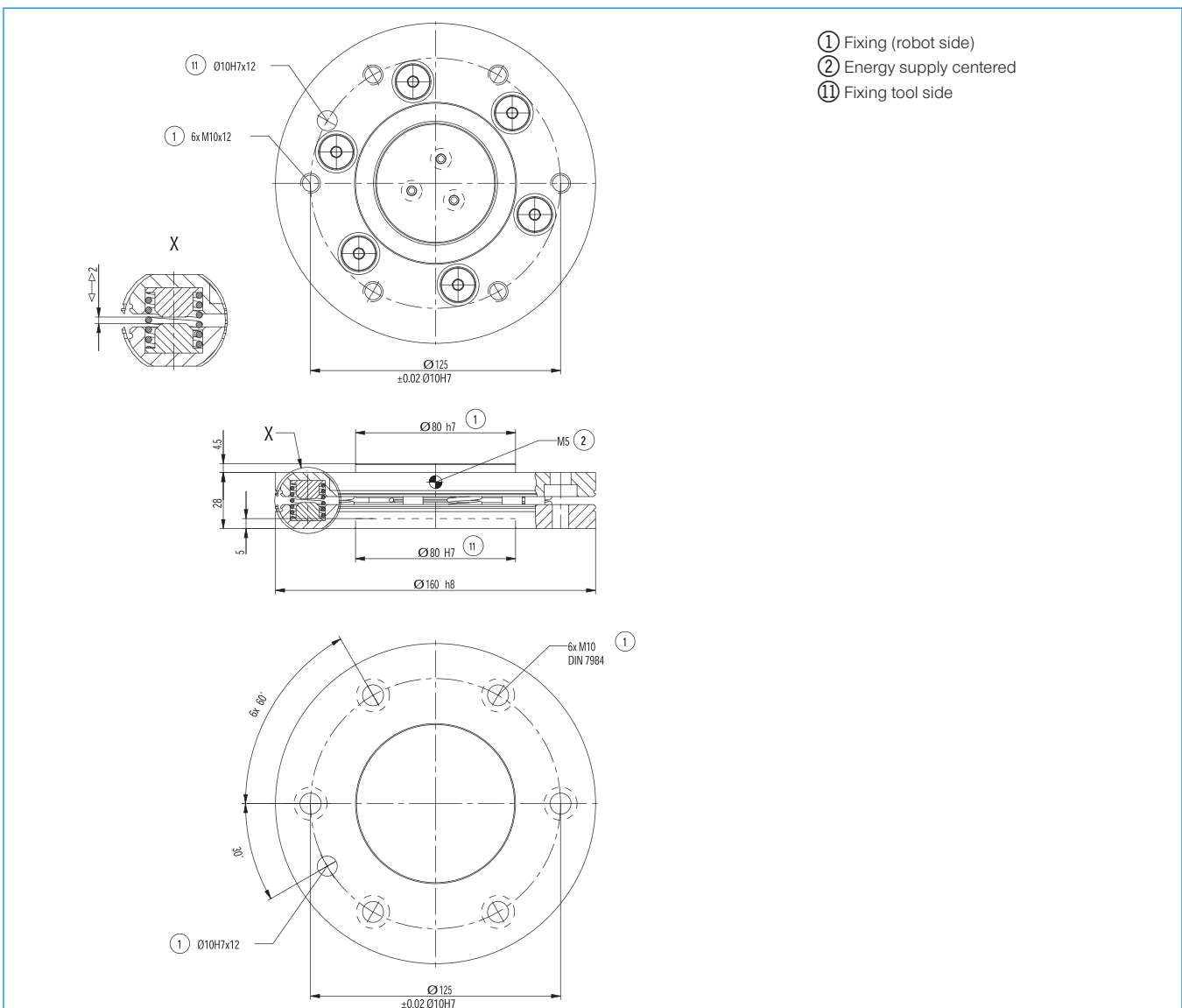


Angled Fittings - Quick Connect Style

WVM5

Order no.	Technical Data*
Connecting flange according EN ISO 9409-1	TK 125
Installation Height [mm]	28
Recommended handling weight [kg]	50
Horizontal deviation +/- [mm]	2
Horizontal deviation +/- [°]	1
Vertical deviation [mm]	2
Vertical deviation [°]	1
Centering force when locking [N]	3000
Repetition accuracy Horizontal +/- [mm/°]	0.05
Repetition accuracy Vertical +/- [mm/°]	0.05
Air volume per cycle [cm ³]	14
Operating pressure min. [bar]	1
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Moment of inertia [kg/cm ²]	61
Weight [kg]	1.9

*All data measured at 6 bar



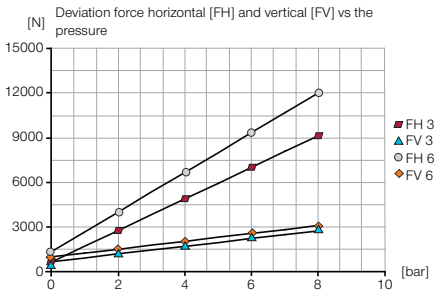
AXIS COMPENSATION MODULES

INSTALLATION SIZE AR160P

▶ PRODUCT SPECIFICATIONS

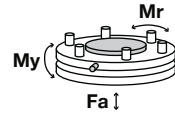


▶ Spring Pack 1 (pre-assembled)



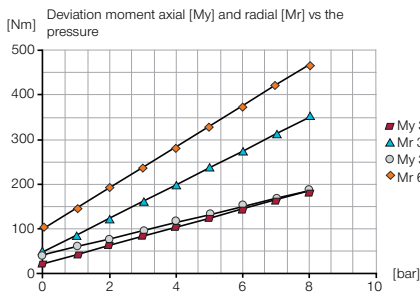
▶ Forces and moments

Shows static forces and moments which may impact on the axis compensation module.

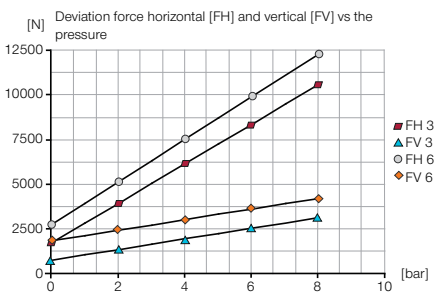


Mr [Nm]	900
My [Nm]	900
Fa [N]	7000

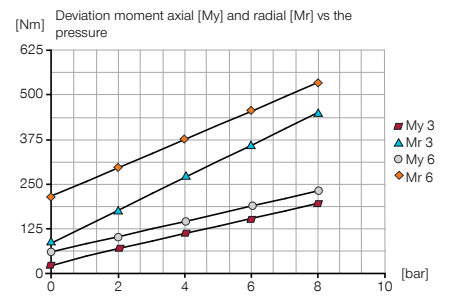
▶ Spring Pack 1 (pre-assembled)



▶ Spring Pack 2



▶ Spring Pack 2



▶ INCLUDED IN DELIVERY



Cylinder Screw

C7984100209



Spring Pack 1 (pre-assembled)

CFED12500



Spring Pack 2

CFED12510

▶ RECOMMENDED ACCESSORIES



Straight Fittings - Quick Connect Style

GVM5

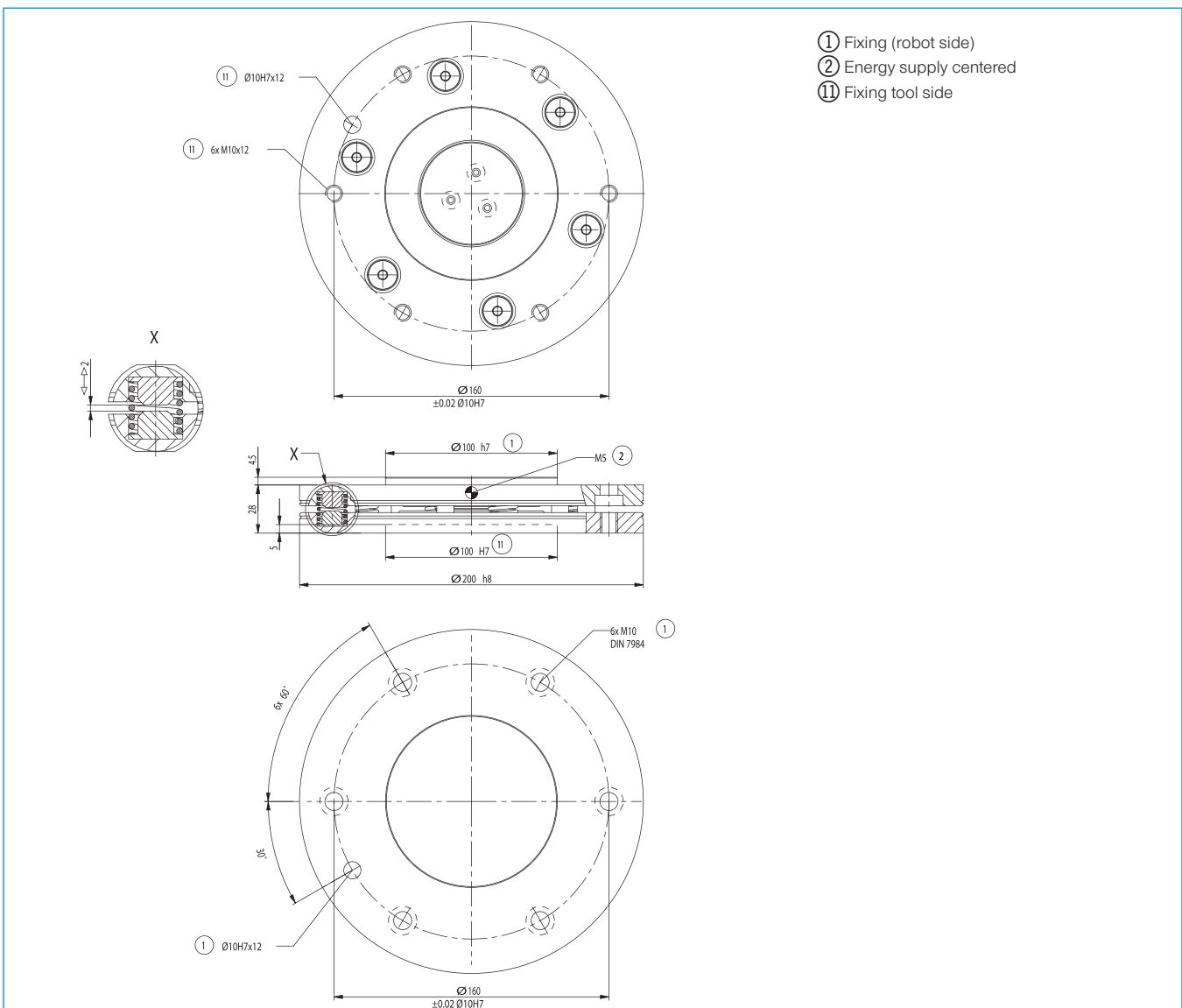


Angled Fittings - Quick Connect Style

WVM5

► Technical Data*	
Order no.	AR160P
Connecting flange according EN ISO 9409-1	TK 160
Installation Height [mm]	28
Recommended handling weight [kg]	60
Horizontal deviation +/- [mm]	2
Horizontal deviation +/- [°]	1
Vertical deviation [mm]	2
Vertical deviation [°]	1
Centering force when locking [N]	3000
Repetition accuracy Horizontal +/- [mm/°]	0.05
Repetition accuracy Vertical +/- [mm/°]	0.05
Air volume per cycle [cm ³]	14
Operating pressure min. [bar]	1
Operating pressure max. [bar]	8
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Moment of inertia [kg/cm ²]	115
Weight [kg]	5.6

*All data measured at 6 bar



CRASH PROTECTION OVERVIEW OF SERIES



► CRASH PROTECTION SERIES CSR

	124
Installation size CSR50	126
Installation size CSR63	128
Installation size CSR80	130
Installation size CSR100	132
Installation size CSR125	134
Installation size CSR160	136

CRASH PROTECTION SERIES CSR

▶ PRODUCT ADVANTAGES



▶ Adjustable triggering sensitivity

By controlling the air pressure, you can optimally match the sensitivity to your application

▶ Integrated sensors

If there is a collision, the integrated sensor gives a signal to the control system to trigger an emergency stop.

▶ More safety due to manual return

We forgo an automatic return and ensure that the operator inspects the machine and the reason for the emergency stop

▶ THE BEST PRODUCT FOR YOUR APPLICATION



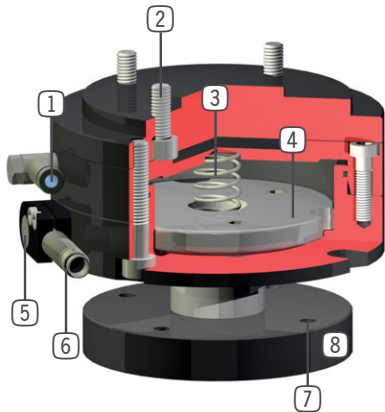
▶ Our products love the challenge!

Extreme conditions, all over the world—our tried and tested components and systems give you limitless possibilities:

Find the best product for your specific use:

www.zimmer-group.com

► BENEFITS IN DETAIL



- ① **Energy supply**
- ② **Robot connecting flange**
 - partial mounting circle in accordance with EN ISO 9409-1
- ③ **Drive**
 - single-acting pneumatic cylinder
 - response sensitivity adjustable via operating pressure
 - with integrated spring
- ④ **Force transfer**
 - direct and low-loss at piston surface
- ⑤ **Pressure differential switch**
 - indirect overload recognition
- ⑥ **Sensors**
 - inductive proximity switch generates a signal which can be used to recognise an overload situation
 - generates an automatic emergency off system situation
 - included in the delivery inductive proximity switch Ø 8 mm with cable connection M8x1
- ⑦ **Connecting flange**
- ⑧ **Overload recognition and compensation**
 - in Z-direction up to 28 mm stroke
 - angular deflection up to 12.5°
 - on rotation around the Z-axis 360°

► FURTHER INFORMATION IS AVAILABLE ONLINE



► Technical Information

All information just a click away at: www.zimmer-group.com

Find data, illustrations, 3D models and operating instructions for your installation size using the order number for your desired product.

Quick, clear and always up-to-date.



CRASH PROTECTION

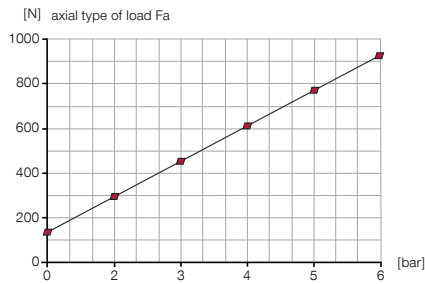
INSTALLATION SIZE CSR50

▶ PRODUCT SPECIFICATIONS



▶ Air pressurization

shows force and moments vs pressure

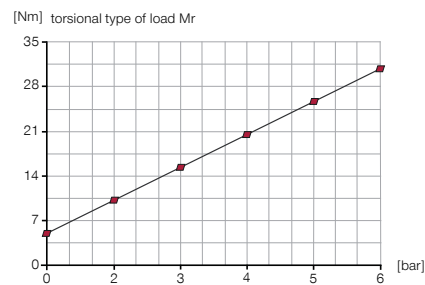


▶ Forces and moments

See diagram for max. forces and torques

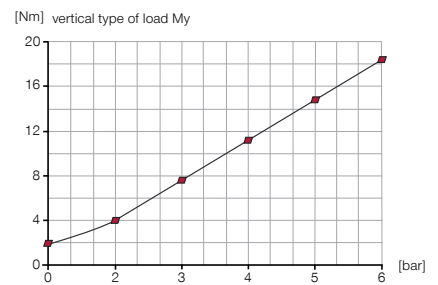
▶ Air pressurization

shows force and moments vs pressure



▶ Air pressurization

shows force and moments vs pressure



▶ INCLUDED IN DELIVERY



Inductive proximity switch
- Connector M8
NJ8-E2S-05



Cylinder Screw
C0912060169

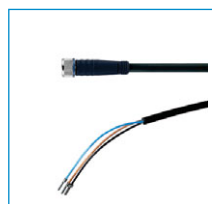
▶ RECOMMENDED ACCESSORIES



Straight Fittings - Quick
Connect Style
GVM5



Plug-in connector Angled
Cable 5m - Socket M8
(female)
KAW500



Plug-in connector Straight
Cable 5m - Socket M8
(female)
KAG500

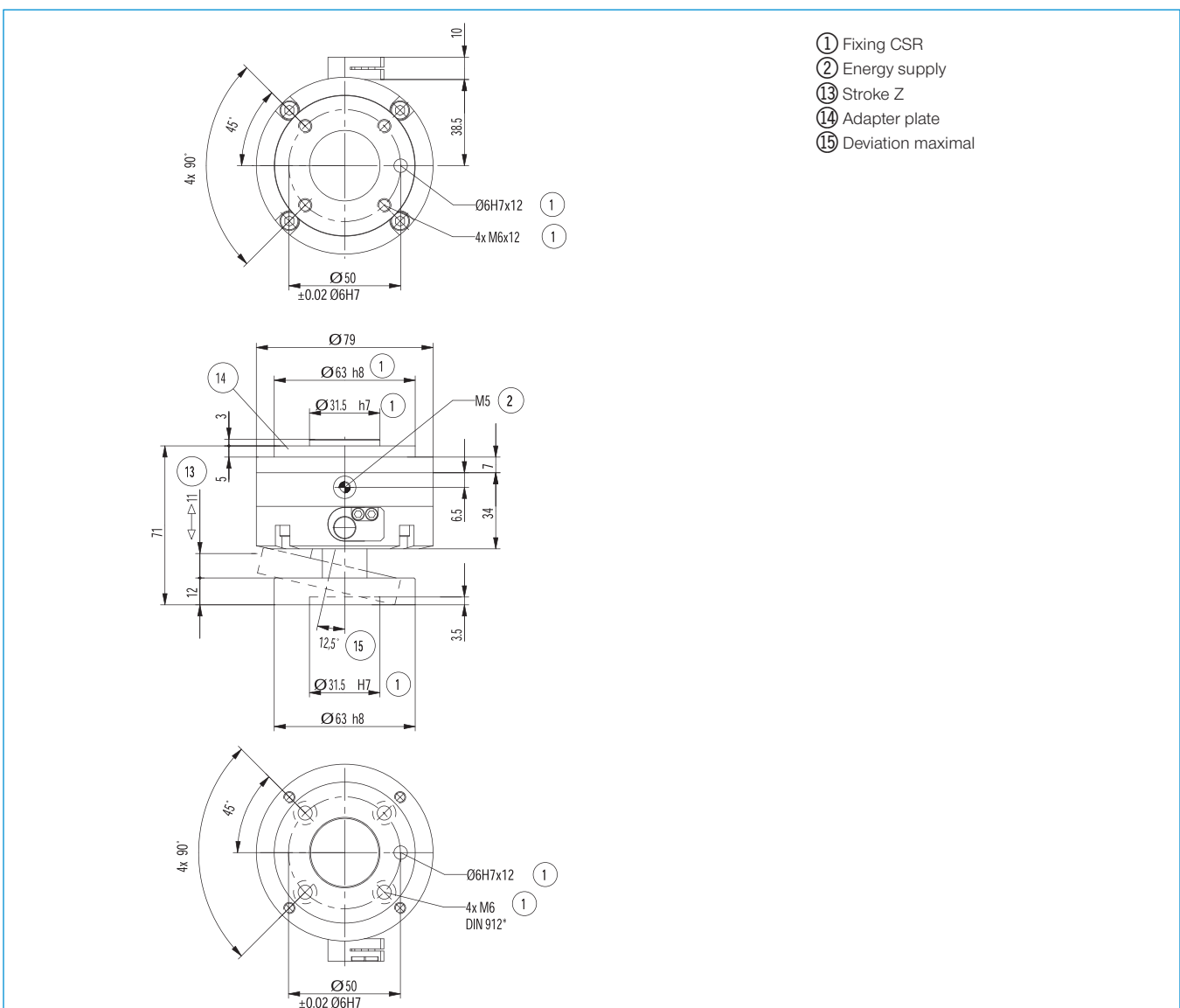


Angled Fittings - Quick
Connect Style
WVM5

Order no.	Technical Data*
Connecting flange according EN ISO 9409-1	TK 50
Installation Height [mm]	71
Recommended handling weight [kg]**	6
Z-axis deviation [mm]	12.5
Repetition accuracy Axial +/- [mm]	0.05
Horizontal deviation +/- [°]	12.5
Repetition accuracy Radial +/- [mm]	0.05
Operating pressure min. [bar]	1
Operating pressure max. [bar]	6
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Weight [kg]	0.7

*All data measured at 6 bar

**with central attachment



CRASH PROTECTION

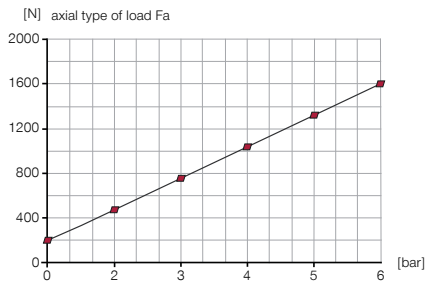
INSTALLATION SIZE CSR63

▶ PRODUCT SPECIFICATIONS



▶ Air pressurization

shows force and moments vs pressure

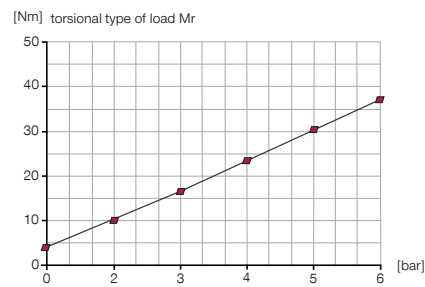


▶ Forces and moments

See diagram for max. forces and torques

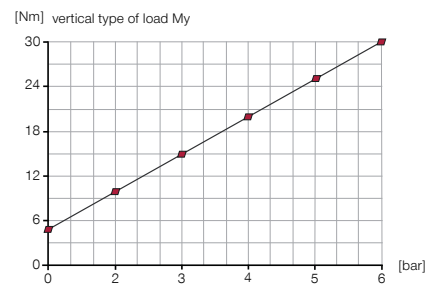
▶ Air pressurization

shows force and moments vs pressure



▶ Air pressurization

shows force and moments vs pressure



▶ INCLUDED IN DELIVERY



Inductive proximity switch
- Connector M8
NJ8-E2S-05



Cylinder Screw
C0912060169

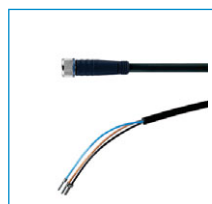
▶ RECOMMENDED ACCESSORIES



Straight Fittings - Quick
Connect Style
GVM5



Plug-in connector Angled
Cable 5m - Socket M8
(female)
KAW500



Plug-in connector Straight
Cable 5m - Socket M8
(female)
KAG500

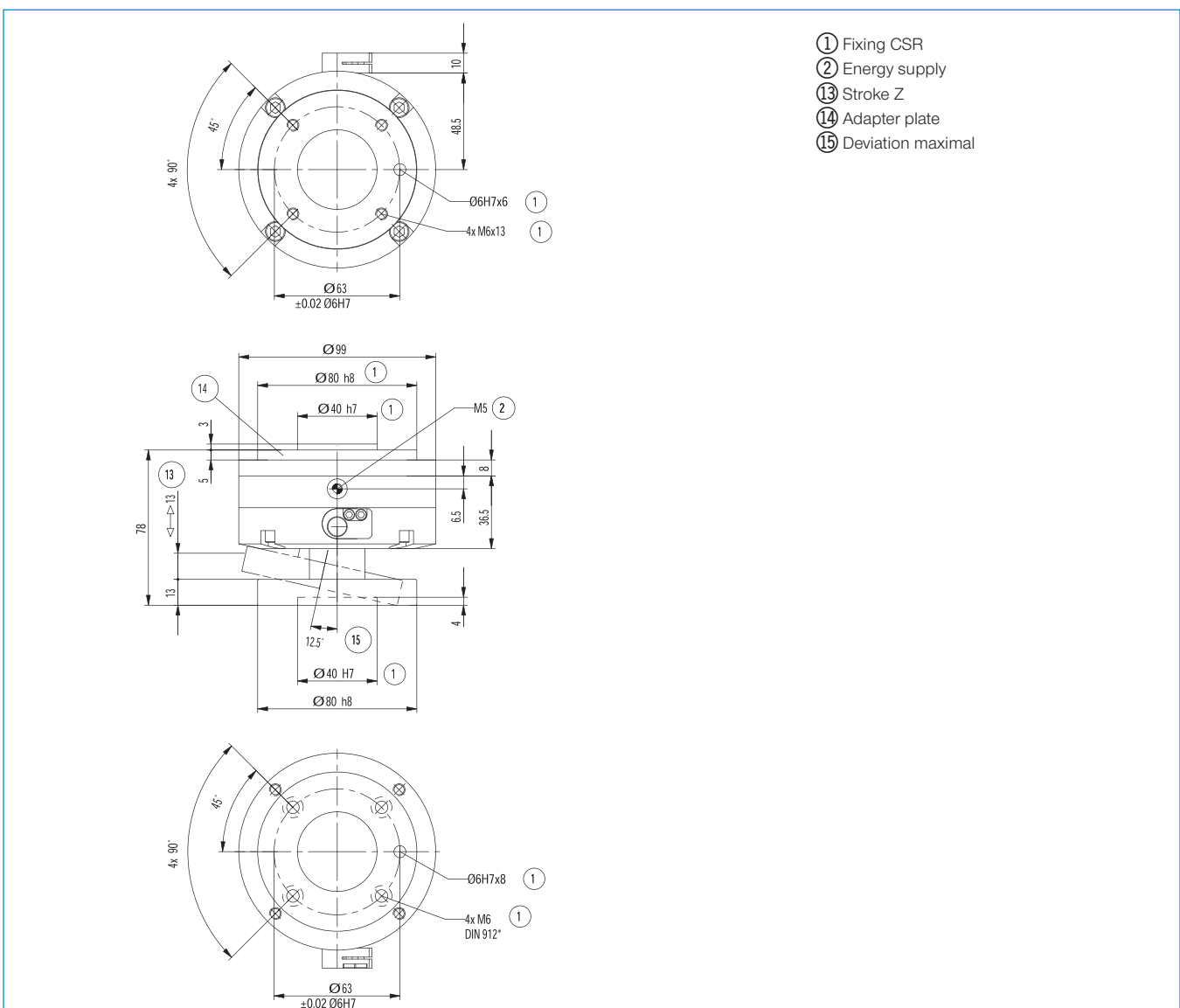


Angled Fittings - Quick
Connect Style
WVM5

Order no.	Technical Data*
Connecting flange according EN ISO 9409-1	TK 63
Installation Height [mm]	78
Recommended handling weight [kg]**	12
Z-axis deviation [mm]	10.5
Repetition accuracy Axial +/- [mm]	0.05
Horizontal deviation +/- [°]	12.5
Repetition accuracy Radial +/- [mm]	0.05
Operating pressure min. [bar]	1
Operating pressure max. [bar]	6
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Weight [kg]	1.1

*All data measured at 6 bar

**with central attachment



CRASH PROTECTION

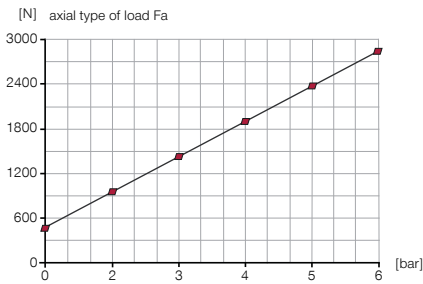
INSTALLATION SIZE CSR80

▶ PRODUCT SPECIFICATIONS



▶ Air pressurization

shows force and moments vs pressure

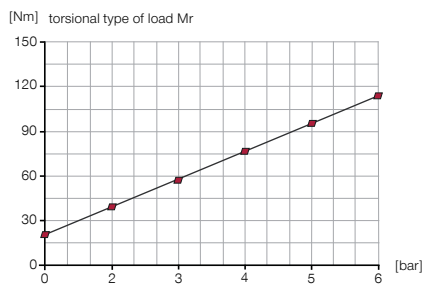


▶ Forces and moments

See diagram for max. forces and torques

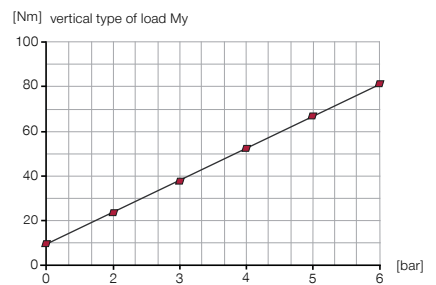
▶ Air pressurization

shows force and moments vs pressure



▶ Air pressurization

shows force and moments vs pressure



▶ INCLUDED IN DELIVERY



Inductive proximity switch
- Connector M8
NJ8-E2S-05



Cylinder Screw
C0912080169

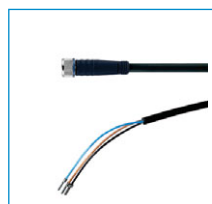
▶ RECOMMENDED ACCESSORIES



Straight Fittings - Quick
Connect Style
GVM5



Plug-in connector Angled
Cable 5m - Socket M8
(female)
KAW500



Plug-in connector Straight
Cable 5m - Socket M8
(female)
KAG500

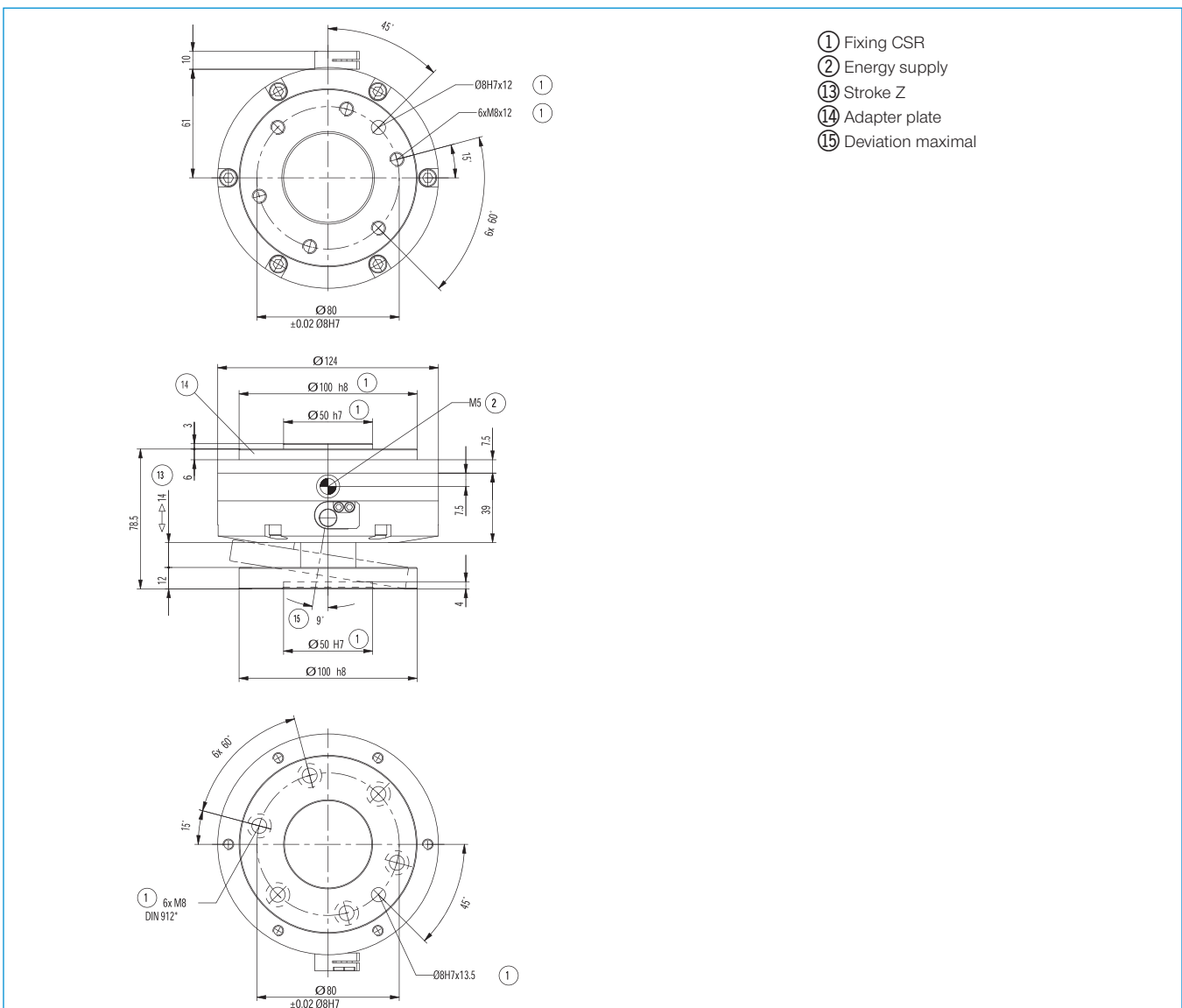


Angled Fittings - Quick
Connect Style
WVM5

Order no.	Technical Data*
Connecting flange according EN ISO 9409-1	TK 80
Installation Height [mm]	78.5
Recommended handling weight [kg]**	35
Z-axis deviation [mm]	14
Repetition accuracy Axial +/- [mm]	0.05
Horizontal deviation +/- [°]	9
Repetition accuracy Radial +/- [mm]	0.05
Operating pressure min. [bar]	1
Operating pressure max. [bar]	6
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Weight [kg]	1.5

*All data measured at 6 bar

**with central attachment



CRASH PROTECTION

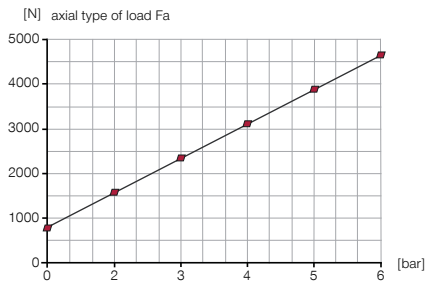
INSTALLATION SIZE CSR100

▶ PRODUCT SPECIFICATIONS



▶ Air pressurization

shows force and moments vs pressure

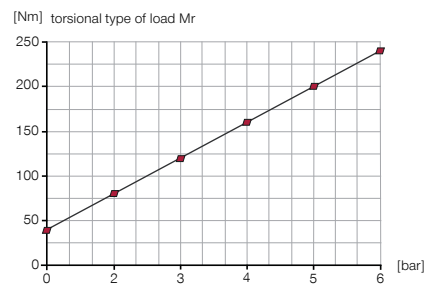


▶ Forces and moments

See diagram for max. forces and torques

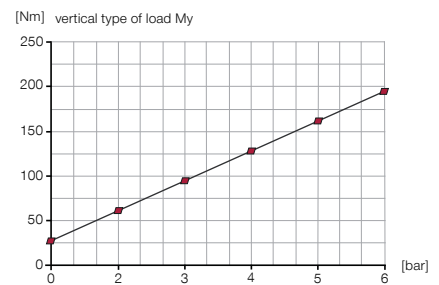
▶ Air pressurization

shows force and moments vs pressure



▶ Air pressurization

shows force and moments vs pressure



▶ INCLUDED IN DELIVERY



Inductive proximity switch
- Connector M8
NJ8-E2S-05

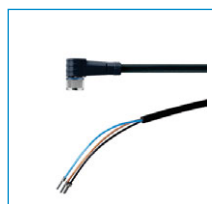


Cylinder Screw
C0912080209

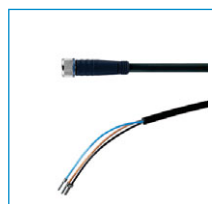
▶ RECOMMENDED ACCESSORIES



Straight Fittings - Quick
Connect Style
GV1-8X8



Plug-in connector Angled
Cable 5m - Socket M8
(female)
KAW500



Plug-in connector Straight
Cable 5m - Socket M8
(female)
KAG500

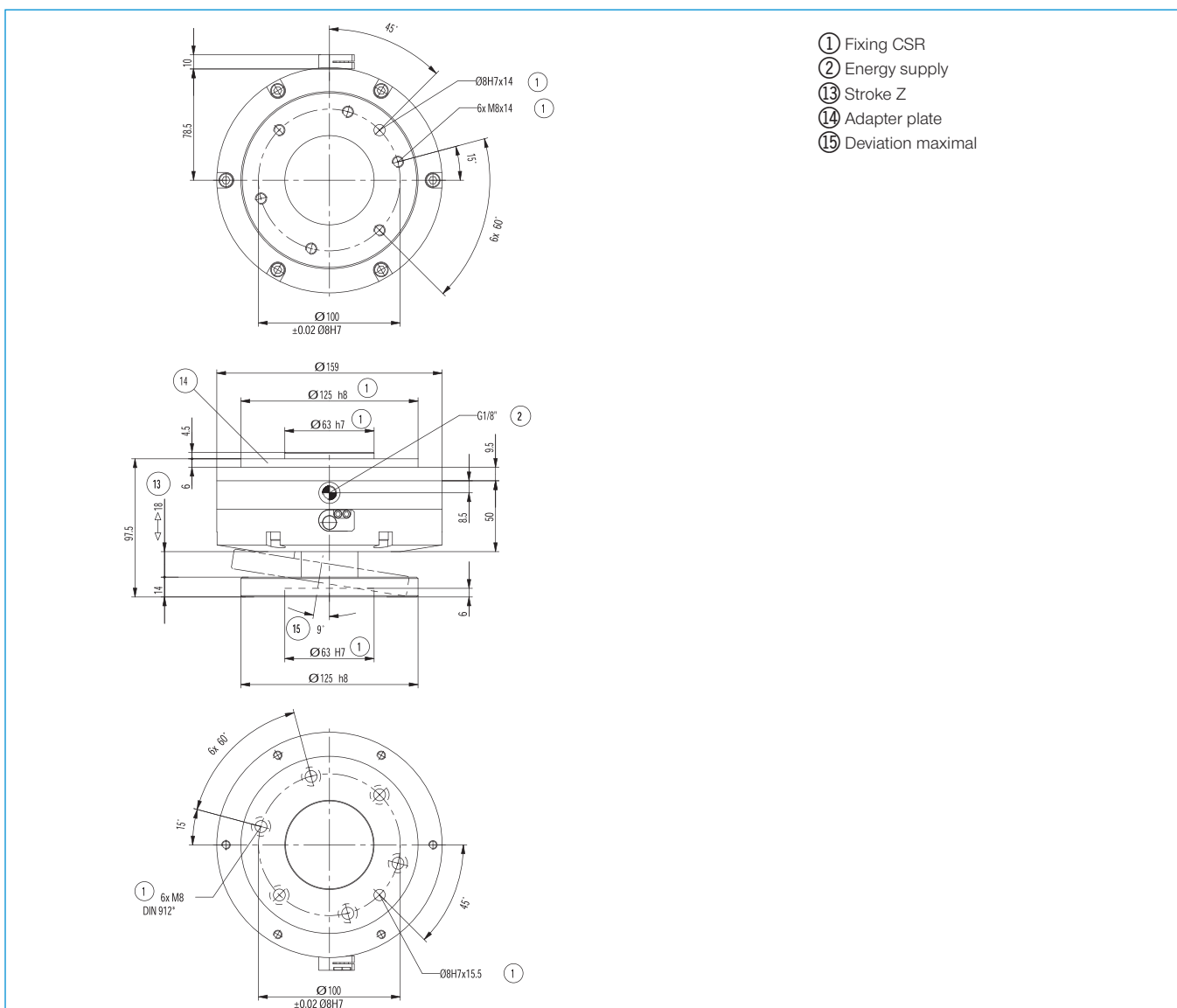


Angled Fittings - Quick
Connect Style
WV1-8X6

Order no.	Technical Data*
Connecting flange according EN ISO 9409-1	TK 100
Installation Height [mm]	97.5
Recommended handling weight [kg]**	60
Z-axis deviation [mm]	18
Repetition accuracy Axial +/- [mm]	0.05
Horizontal deviation +/- [°]	9
Repetition accuracy Radial +/- [mm]	0.05
Operating pressure min. [bar]	1
Operating pressure max. [bar]	6
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Weight [kg]	3.3

*All data measured at 6 bar

**with central attachment

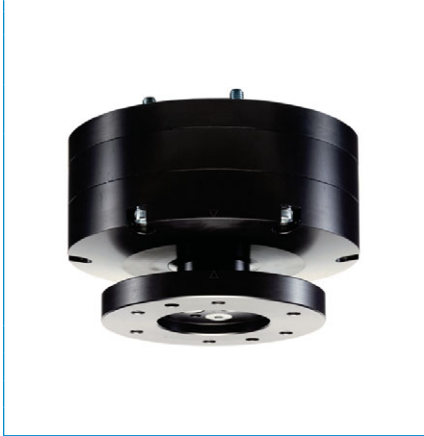


- ① Fixing CSR
- ② Energy supply
- ⑬ Stroke Z
- ⑭ Adapter plate
- ⑮ Deviation maximal

CRASH PROTECTION

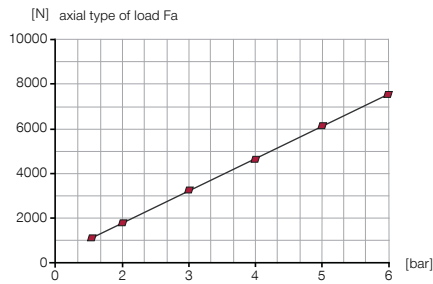
INSTALLATION SIZE CSR125

▶ PRODUCT SPECIFICATIONS



▶ Air pressurization

shows force and moments vs pressure

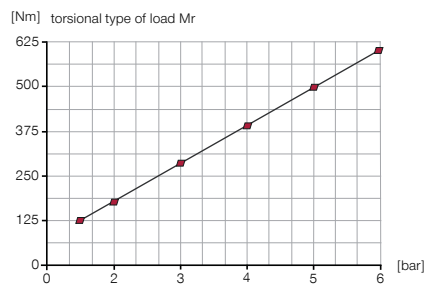


▶ Forces and moments

See diagram for max. forces and torques

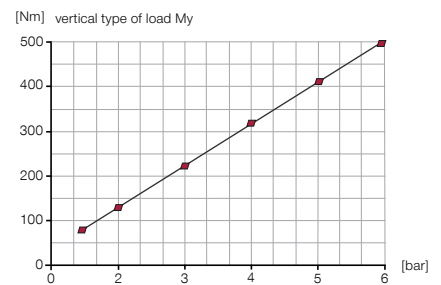
▶ Air pressurization

shows force and moments vs pressure



▶ Air pressurization

shows force and moments vs pressure



▶ INCLUDED IN DELIVERY



Inductive proximity switch
- Connector M8
NJ8-E2S-05



Cylinder Screw
C0912100309

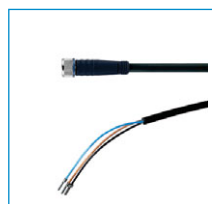
▶ RECOMMENDED ACCESSORIES



Straight Fittings - Quick
Connect Style
GV1-8X8



Plug-in connector Angled
Cable 5m - Socket M8
(female)
KAW500



Plug-in connector Straight
Cable 5m - Socket M8
(female)
KAG500

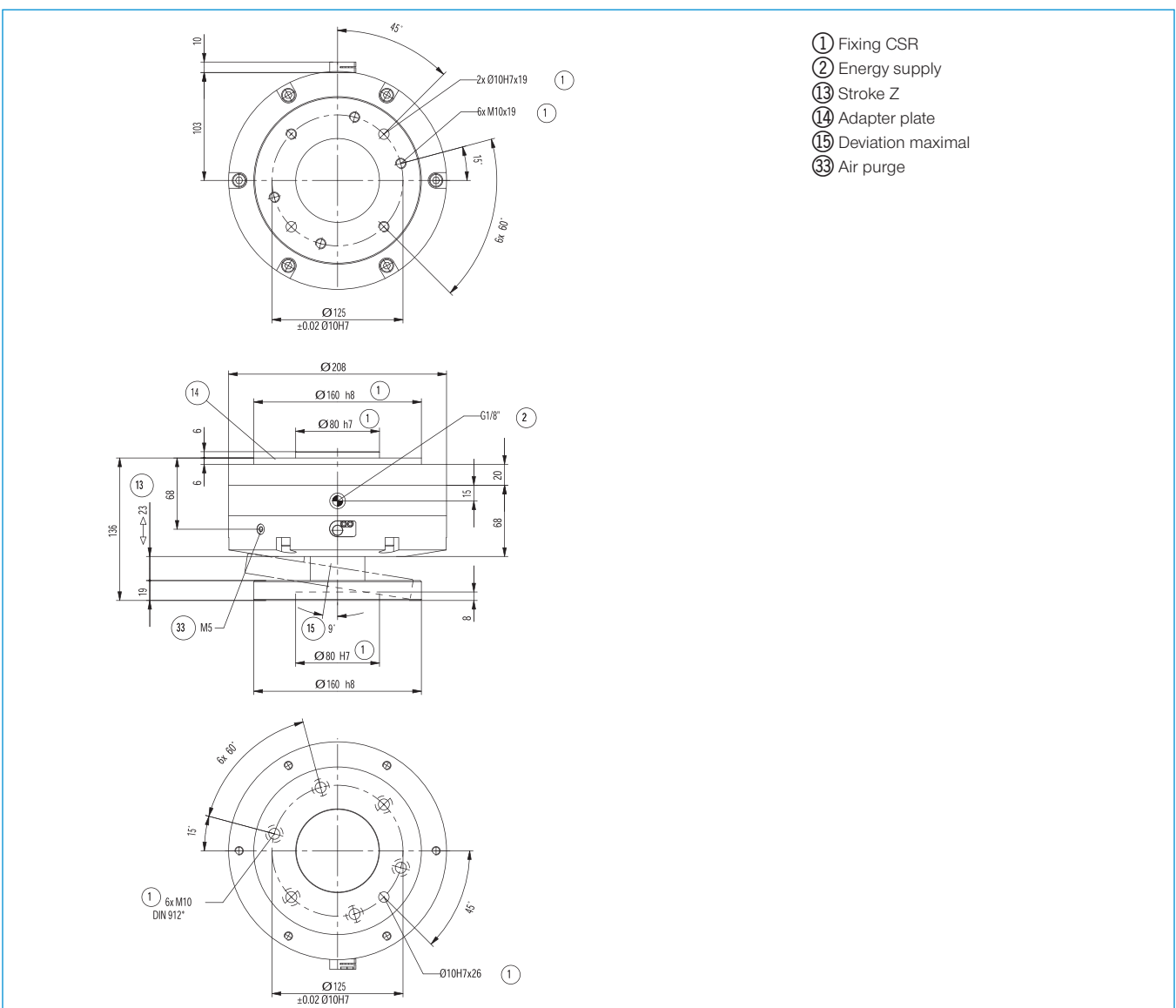


Angled Fittings - Quick
Connect Style
WV1-8X6

Order no.	Technical Data*
Connecting flange according EN ISO 9409-1	TK 125
Installation Height [mm]	136
Recommended handling weight [kg]**	100
Z-axis deviation [mm]	23
Repetition accuracy Axial +/- [mm]	0.05
Horizontal deviation +/- [°]	9
Repetition accuracy Radial +/- [mm]	0.05
Operating pressure min. [bar]	1
Operating pressure max. [bar]	6
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Weight [kg]	8

* All data measured at 6 bar

**with central attachment



CRASH PROTECTION

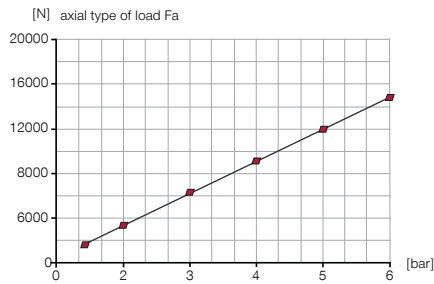
INSTALLATION SIZE CSR160

▶ PRODUCT SPECIFICATIONS



▶ Air pressurization

shows force and moments vs pressure

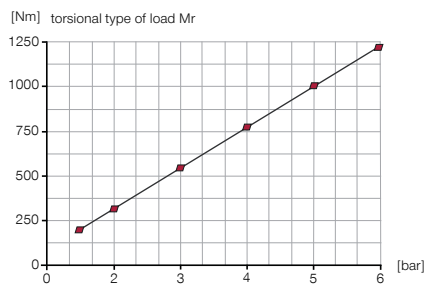


▶ Forces and moments

See diagram for max. forces and torques

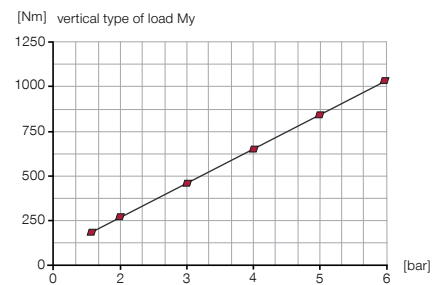
▶ Air pressurization

shows force and moments vs pressure



▶ Air pressurization

shows force and moments vs pressure



▶ INCLUDED IN DELIVERY



Inductive proximity switch
- Connector M8
NJ8-E2S-05



Cylinder Screw
C0912100309

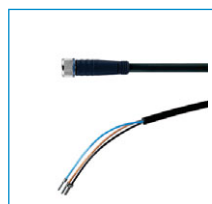
▶ RECOMMENDED ACCESSORIES



Straight Fittings - Quick
Connect Style
GV1-8X8



Plug-in connector Angled
Cable 5m - Socket M8
(female)
KAW500



Plug-in connector Straight
Cable 5m - Socket M8
(female)
KAG500

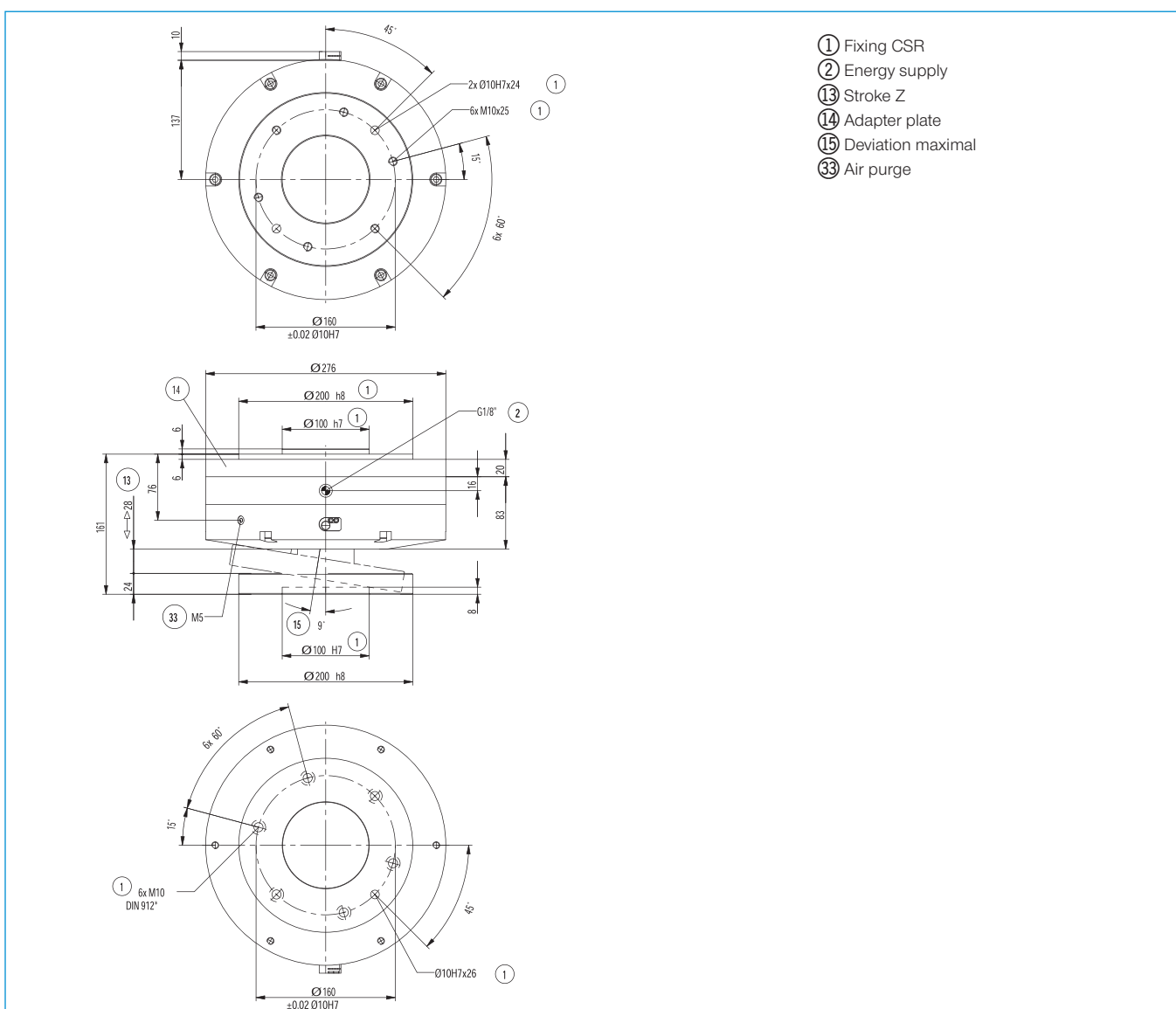


Angled Fittings - Quick
Connect Style
WV1-8X6

Order no.	Technical Data*
Connecting flange according EN ISO 9409-1	TK 160
Installation Height [mm]	161
Recommended handling weight [kg]**	150
Z-axis deviation [mm]	28
Repetition accuracy Axial +/- [mm]	0.05
Horizontal deviation +/- [°]	9
Repetition accuracy Radial +/- [mm]	0.05
Operating pressure min. [bar]	1
Operating pressure max. [bar]	6
Operating temperature min. [°C]	5
Operating temperature max. [°C]	+80
Weight [kg]	15.2

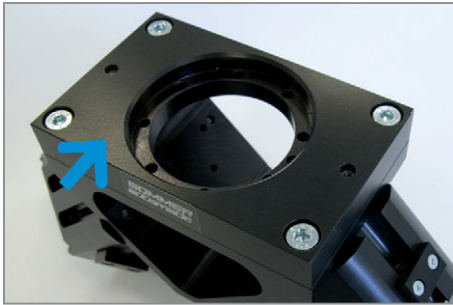
* All data measured at 6 bar

**with central attachment



ROBOT ACCESSORIES

ANGLE FLANGE



Flexible connection to your robot

Adapter plate manufactured according to EN ISO 9409-1 matches for a variety of 40 different types of robot manufacturers. In addition, also available for robots with hollow axle.

1st step: Select adapter plate

Simply define the type of robot and you get the appropriate adapter plate.



About 100 different variants

Adapter plates and angle flanges can be combined with 16 different grippers - with the result of more than 100 different varieties. Choose from our main catalog your appropriate gripper. There you will find the most diverse designs: some with other without gripping force safety device, protected from dust or temperature resistant.

2nd step: Select Angle flange

Choose a gripper and there follows the right angle flange.

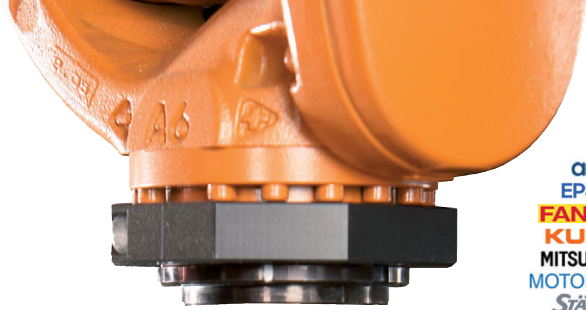


Extend the functionality of your Angle flange

Cover plate, discharge nozzle or programming pins, with the extensive accessory, you can quickly and individually integrate additional functions.

3rd step: Select accessories





1st step:



Adapterplatte

adept
 EPSON
FANUC
KUKA
MITSUBISHI
MOTOMAN
 STÄUBLI

ABB
 adept
COMAU
FANUC
Kawasaki
KUKA
MITSUBISHI
MOTOMAN
 STÄUBLI

KUKA
DEIS
 STÄUBLI

COMAU
FANUC
KUKA
DEIS

FANUC

Order no.: Adapter plate
Connecting flange EN-ISO9409-1 TK 31,5
ViperS650
Pro Six
LR mate 200
KR5 sixx
RV1, RV2, RV3, RV4, RV5, RV6
HP3, HP5, HP6
RX60, TX40, TX60, RS20, RS40, RS60, RS80

Order no.: Adapter plate
APR05

Connecting flange EN-ISO9409-1 TK 40
140, 2400L, 1600-5, 1600-7
viper S13400
smart six
M-6iB, M16iB, M710iC/20L
FS06, FC06, FA06, FS10C, FC10C
KR16L6 (KS)
RV12
UP6, HP6, HP20, IA20
RX90, RX130XL

APR01

Connecting flange EN-ISO9409-1 TK 50
KR6, KR16, KR30L16
RV10-6, RV20-6
RX130, TX90, RX160

APR02

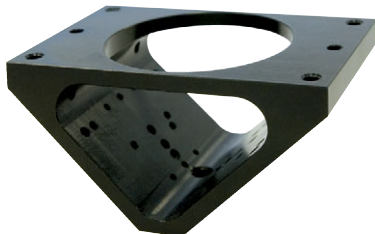
Connecting flange EN-ISO9409-1 TK 100
NM 16-3.1, NM 25-2.2, NM 45-2.0
M-420iA, M710iC/50/70
KR30, KR60
RV60-40, RV60-60

APR03

M10iA

APR04

2nd step:



Angle flange

All other informations about your gripper, you will find in our catalog or online at: www.zimmer-group.de

Order no.: Angle flange
Grippers to match for WFR01:
GD304
GD306
GP404
GP406

WFR01

Grippers to match for WFR02:
GD308
GD310
GP408
GP410

WFR02

Grippers to match for WFR03:
GPP5004
GPP5006
GPD5004
GPD5006

WFR03

Grippers to match for WFR04:
GPP5008
GPP5010
GPD5008
GPD5010

WFR04

3rd step:



Cover plate



Discharge nozzle



Programming pins

Order no.: Accessories
for WFR01 + WFR03
for WFR02 + WFR04
for WFR01 + WFR02 + WFR03 + WFR04
for WFR01 + WFR02 + WFR03 + WFR04

ABWFR01
ABWFR02
DUWFR01
SPWFR01

USAGE NOTE

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USAGE NOTE

INDIVIDUAL

DECLARATION OF INCORPORATION IN TERMS OF THE EC DIRECTIVE 2006/42/EC ON MACHINERY (ANNEX II 1 B)

We hereby declare that our elements meet the following basic requirements of the Machinery Directive 2006/42/EC as an incomplete machine

No.1.1.2., No.1.1.3., No.1.1.5., No.1.3.2, No. 1.3.4, No. 1.3.7, No.1.5.3, No.1.5.4, No.1.5.8., No.1.6.4, No.1.7.1, No.1.7.3, No.1.7.4.

We also declare that the specific technical documents were produced in accordance with Annex VII Part B of this Directive. We undertake to provide the market supervisory bodies with electronic versions of the incomplete machine's special documents via our documentation department should they have reason to request them.

The incomplete machine may only be commissioned if the machine or system in which the incomplete machine is to be installed has been determined to satisfy the conditions of the Machinery Directive 2006/42/EC and the EC Declaration of Conformity has been produced in accordance with Annex II A.

USAGE NOTE

INDIVIDUAL

DECLARATION OF INCORPORATION IN TERMS OF THE EC DIRECTIVE 2006/42/EC ON MACHINERY (ANNEX II 1 B)

We hereby declare that our elements meet the following basic requirements of the Machinery Directive 2006/42/EC as an incomplete machine

No.1.1.2., No.1.1.3., No.1.1.5., No.1.3.2, No. 1.3.4, No. 1.3.7, No.1.5.3, No.1.5.4, No.1.5.8., No.1.6.4, No.1.7.1, No.1.7.3, No.1.7.4.

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