COMPLEMENTARY VALVES
Pneumax/Aignep/Sistem/Knocks/AZ

1. FLOW REGULATORS Series 600

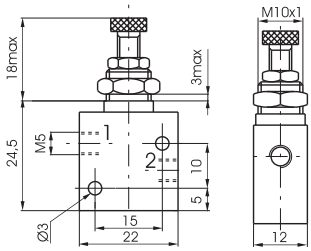
Flow control valve M5 - in line ports

Ordering code

6.01.Ⓕ

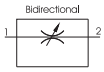
Ⓕ	FUNCTION
	05 = Unidirectional
	05/2 = Bidirectional

Weight gr. 48



Unidirectional

Bidirectional



Operational characteristics			
Fluid	Max working pressure (bar)	Temperature °C	Orifice size (mm)
Filtered air	10 bar	-5 - +70	mm. 2

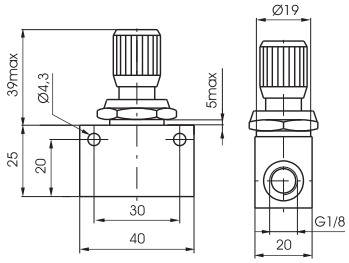
Flow control valve G1/8" - ultrasensitive

Ordering code

6.01.18/Ⓕ

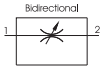
Ⓕ	FUNCTION
	4 = Unidirectional
	5 = Bidirectional

Weight gr. 100



Unidirectional

Bidirectional



Operational characteristics			
Fluid	Max working pressure (bar)	Temperature °C	Orifice size (mm)
Filtered air	10 bar	-5 - +70	mm. 3

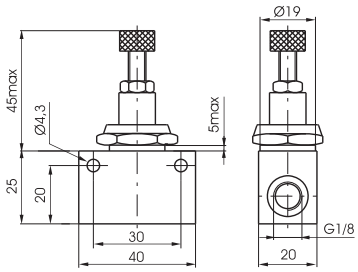
Flow control valve G1/8" - ultrasensitive with lock nut

Ordering code

6.01.18/Ⓕ

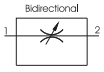
Ⓕ	FUNCTION
	6 = Unidirectional
	7 = Bidirectional

Weight gr. 105



Unidirectional

Bidirectional



Operational characteristics			
Fluid	Max working pressure (bar)	Temperature °C	Orifice size (mm)
Filtered air	10 bar	-5 - +70	mm. 3

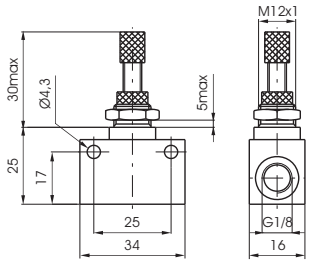
(2020/10)

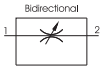
Flow control valve G1/8"

Ordering code
6.01.F

F	FUNCTION
	18N = Unidirectional
	18NE = Unidir. economic vers.
	18/1N = Bidirectional
	18/1NE = Bidir. economic vers.

Weight gr. 50



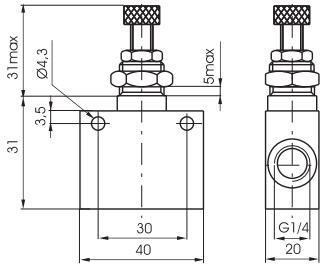


Operational characteristics			
Fluid	Max working pressure (bar)	Temperature °C	Orifice size (mm)
Filtered air	10 bar	-5 - +70	mm. 4

Flow control valve G1/4" - compact type - unidirectional

Ordering code
6.01.14/1

Weight gr. 100



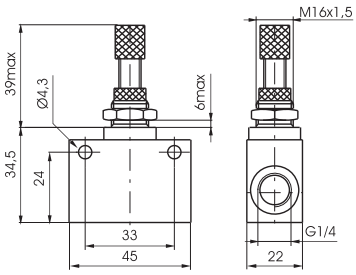
Operational characteristics			
Fluid	Max working pressure (bar)	Temperature °C	Orifice size (mm)
Filtered air	10 bar	-5 - +70	mm. 5,5

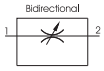
Flow control valve G1/4"

Ordering code
6.01.F

F	FUNCTION
	14N = Unidirectional
	14/1N = Bidirectional

Weight gr. 105





Operational characteristics			
Fluid	Max working pressure (bar)	Temperature °C	Orifice size (mm)
Filtered air	10 bar	-5 - +70	mm. 7

PNEUMAX

Technical modifications keep in reserve !

(2020/10)

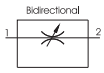
☎ +32 3 355 32 20

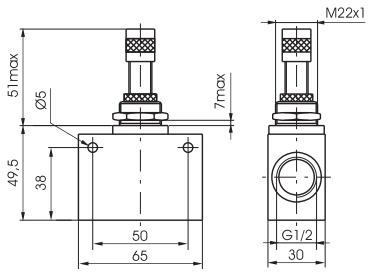
Flow control valve G1/2"

Ordering code
6.01.Ⓕ

Ⓕ	FUNCTION
	12N = Unidirectional
	12/1N = Bidirectional

Weight gr. 290



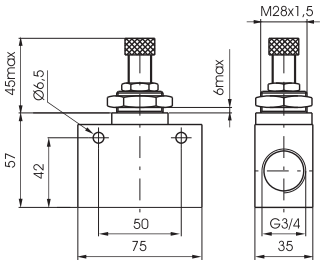


Operational characteristics			
Fluid	Max working pressure (bar)	Temperature °C	Orifice size (mm)
Filtered air	10 bar	-5 - +70	mm. 12

Flow control valve G3/4" - unidirectional

Ordering code
06:01:34

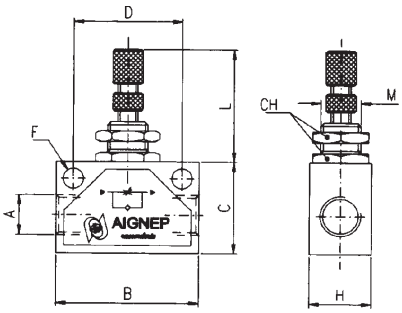
Weight gr. 500

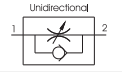


Operational characteristics			
Fluid	Max working pressure (bar)	Temperature °C	Orifice size (mm)
Filtered air	10 bar	-5 - +70	mm. 12

FLOW REGULATORS Unidirectional Series 8850

Connections A	B	C	H	D	F	L	M	CH	CODE
G 1/8	35	22	18	25	4.5	48-56	M12x0.75	15	**8850-1/8"**
G 1/4	46	30	20	35	6.5	56-64	M12x0.75	15	**8850-1/4"**





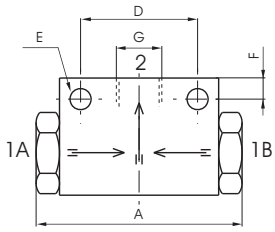
AIGNEP

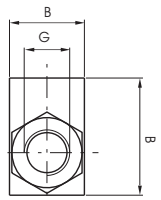
Technical modifications keep in reserve !

(2020/10)

Shuttle valve "AND"

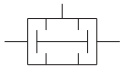
Ordering code
6.04.●/1
CONNECTION
● 05 = M5
18 = G 1/8"





G	M5	1/8"
A	36	44
B	12	16
C	22	45
D	20	25
E	3,2	4,5
F	3,5	4,5
Weight gr.	30	50
Flow rate at 6 bar with Δp = 1 Nl/min.	100	480

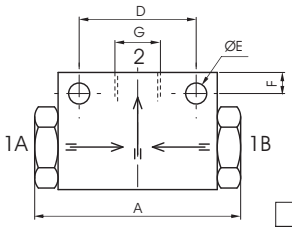
Weight "see table"

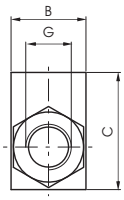


Operational characteristics		
Fluid	Max working pressure (bar)	Temperature °C
Filtered air	10 bar	-5 - +70

Shuttle valve "OR"

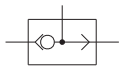
Ordering code
6.04.●
CONNECTION
● 05 = M5
18 = G 1/8"
14 =G 1/4"





G	M5	1/8"	1/4"
A	27	44	62
B	12	16	22
C	17	25	30
D	15	25	35
E	3,5	4,5	5,5
F	3,5	4,5	5,5
Weight g.	33	50	110
Flow rate at 6 bar with Δp = 1 Nl/min.	110	700	2200

Weight "see table"



Operational characteristics		
Fluid	Max working pressure (bar)	Temperature °C
Filtered air	10 bar	-5 - +70

(2020/10)

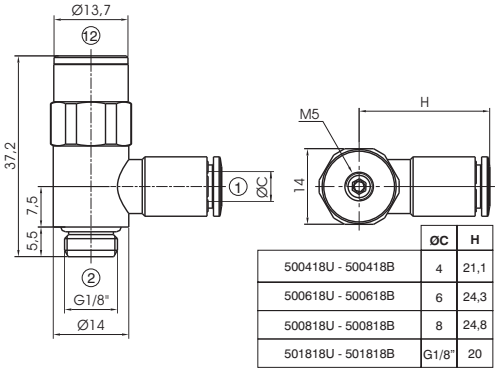
☎ +32 3 355 32 20

Blocking valves metal type - Size 1/8"

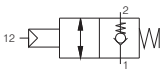
Ordering code

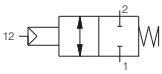
50Ⓣ18Ⓥ

	METAL TYPE
	A = Banjo only
Ⓣ	04 = Banjo Ø4
	06 = Banjo Ø6
	08 = Banjo Ø8
	18 = Banjo G1/8"
	VERSION
Ⓥ	U = Unidirectional
	B = Bidirectional



	ØC	H
500418U - 500418B	4	21,1
500618U - 500618B	6	24,3
500818U - 500818B	8	24,8
501818U - 501818B	G1/8"	20





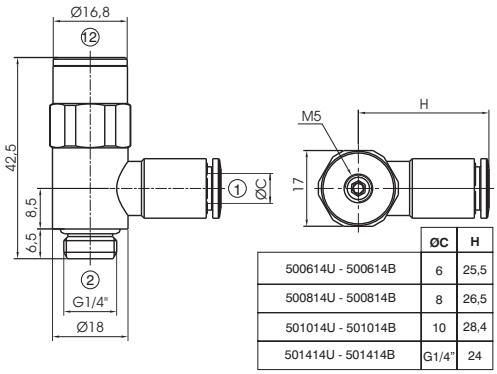
Operational characteristics				
Fluid	Pressure range (bar)	Flow rate at 6 bar with Δp=1 (Nl/min)	Flow rate with free exhaus (Nl/min)	Temperature °C
Filtered air, with or without lubrication	0,5 - 10	285	450	-5 - +50

Blocking valves metal type - Size 1/4"

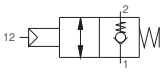
Ordering code

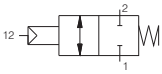
50Ⓣ14Ⓥ

	METAL TYPE
	A = Banjo only
Ⓣ	06 = Banjo Ø6
	08 = Banjo Ø8
	10 = Banjo Ø10
	14 = Banjo G1/4"
	VERSION
Ⓥ	U = Unidirectional
	B = Bidirectional



	ØC	H
500614U - 500614B	6	25,5
500814U - 500814B	8	26,5
501014U - 501014B	10	28,4
501414U - 501414B	G1/4"	24





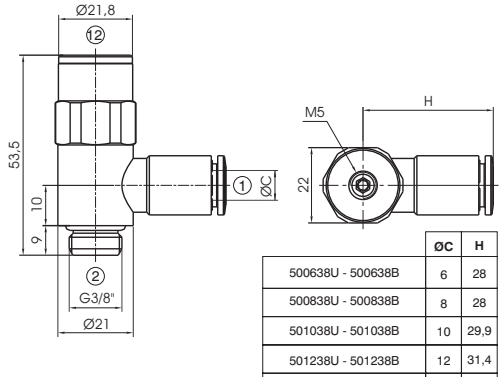
Operational characteristics				
Fluid	Pressure range (bar)	Flow rate at 6 bar with Δp=1 (Nl/min)	Flow rate with free exhaus (Nl/min)	Temperature °C
Filtered air, with or without lubrication	0,5 - 10	530	800	-5 - +50

Blocking valves metal type - Size 3/8"

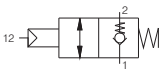
Ordering code

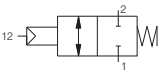
50Ⓣ38Ⓥ

	METAL TYPE
	A = Banjo only
	06 = Banjo Ø6
Ⓣ	08 = Banjo Ø8
	10 = Banjo Ø10
	12 = Banjo G1/2"
	38 = Banjo G3/8"
	VERSION
Ⓥ	U = Unidirectional
	B = Bidirectional



	ØC	H
500638U - 500638B	6	28
500838U - 500838B	8	28
501038U - 501038B	10	29,9
501238U - 501238B	12	31,4
503838U - 503838B	G3/8"	28,5





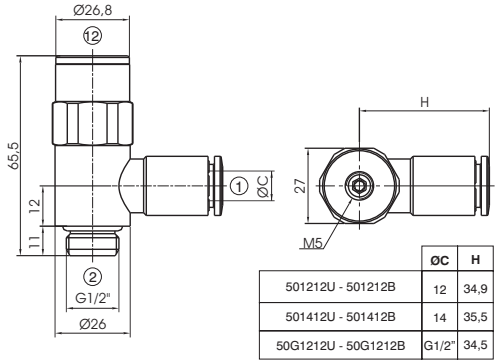
Operational characteristics				
Fluid	Pressure range (bar)	Flow rate at 6 bar with Δp=1 (Nl/min)	Flow rate with free exhaus (Nl/min)	Temperature °C
Filtered air, with or without lubrication	0,5 - 10	1000	1600	-5 - +50

Blocking valves metal type - Size 1/2"

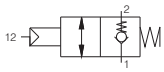
Ordering code

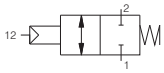
50Ⓣ12Ⓥ

Ⓣ	METAL TYPE
	A = Banjo only
	12 = Banjo G1/2"
	G12 = Banjo G1/2"
Ⓥ	VERSION
	U = Unidirectional
	B = Bidirectional



	ØC	H
501212U - 501212B	12	34,9
501412U - 501412B	14	35,5
50G1212U - 50G1212B	G1/2"	34,5





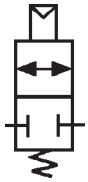
Operational characteristics

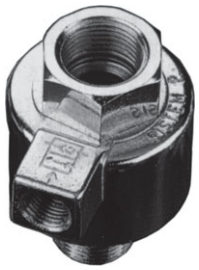
Fluid	Pressure range (bar)	Flow rate at 6 bar with Δp=1 (Nl/min)	Flow rate with free exhaus (Nl/min)	Temperature °C
Filtered air, with or without lubrication	0,5 - 10	1300	2600	-5 - +50

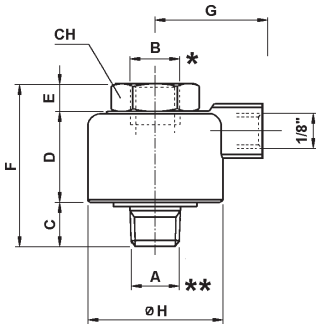
BLOCKING VALVES Series 63/73

UNIDIRECTIONAL blocking valves blocks the flow only in one direction when the pilot pressure is cut off.

BIDIRECTIONAL blocking valves blocks the flow in both directions when the pilot pressure is cut off.







Operating pressure : 1 to 10 bar
Minimum pilot pressure :
- for series 63: approx. 4.5 bar, depending on work pressure
- for series 73: approx. 2 bar, depending on work pressure

Construction : brass, nylon & stainless steel
Seals : oil-resistant rubber, polyurethane

TYPE		A **	B *	C	D	E	F	G	H	CH	Ø	Nl/min
738800	**638800**	1/8"	1/8"	10	20.5	6	36.5	25	30	17	5	650
734400	**634400**	1/4"	1/4"	11.5	25.5	5.5	42.5	28.5	37	22	7.5	1000
733300	**633300**	3/8"	3/8"	14	32.5	6	52.5	32	46	30	9	1900
UNIDIR	**BIDIR**	* CONIC BSP ** CYLINDERIC BSP										

Technical modifications keep in reserve !

(2020/10)

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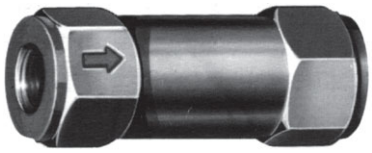
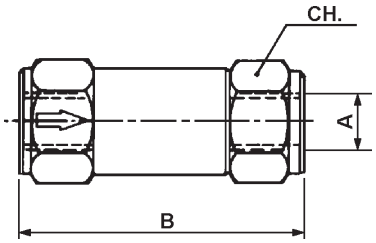
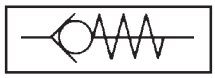
4. NON RETURN VALVES Series 6062

Non return valves are devices allowing the passage of compressed air in one direction only.





Pressure : 2 - 8 bar
Room temperature : -18 to +70°C
Body : Nickel-plated Brass
Spring : Stainless Steel AISI 302
Piston : Nickel-plated Brass

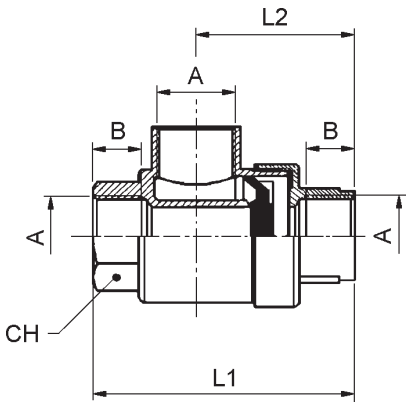


TYPE	A	B	CH
6062-M5	M5	26.5	8
6062-1/8"	1/8"	35.5	13
6062-1/4"	1/4"	42.5	17
6062-3/8"	3/8"	58	24
6062-1/2"	1/2"	64	24

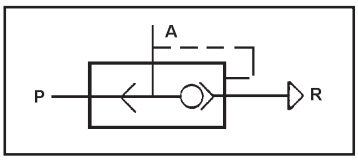
AIGNEP

5. QUICK EXHAUST VALVES Series 6050

Quick exhaust immediately opens its outlet to exhaust, whenever the pressure of the air decreases at the inlet. This allows a speedy and a better exhaust and also it speeds up the work cycles.



Maximum operating pressure : 0.3 to 10 bar
Ambient temperature : -18 to 70°C
Body : nickel-plated OT 58 UNI 5705
Seals : nylon PA6



TYPE	A	B	L1	L2	CH
6050-1/8"	1/8"	7.5	42	27	15
6050-1/4"	1/4"	11	54	35	19
6050-3/8"	3/8"	11.5	60.5	38	22
6050-1/2"	1/2"	14	71	43	26
6050-3/4"	3/4"	16.3	87	53	32

AIGNEP

(2020/10)

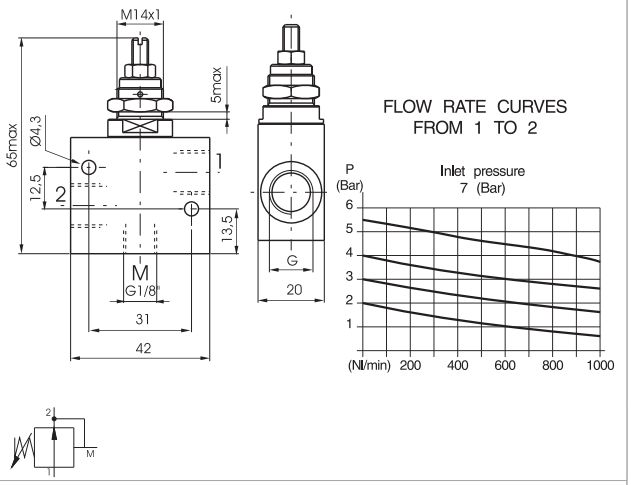
6. ECONOMIZERS Series 600

Economizer G1/8" - G1/4"

Ordering code
6.11.C

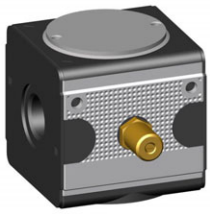
C	CONNECTION
	18 = G 1/8"
	14 = G 1/4"

Weight gr. 85



Operational characteristics					
Fluid	Max working pressure (bar)	Pressure range	Temperature °C	Flow rate from port 2 to 1 at 6 bar with Δp=1	Orifice size (mm)
Filtered and lubricated air	10 bar	0 - 5,5 bar	-5 - +70	860 Nl/min	mm. 6

7. SOFTSTARTERS Series Knocks



Multifix Series A11/33/55
1/4" 1/2" 1"
(See page 3.02)

Futura Series KSSV
1/4" 1/2" 1"
(See page 3.01)

KNOCKS FLUID-TECHNIK

Technical modifications keep in reserve !

(2020/10)

☎ +32 3 355 32 20

8. FLIP-FLOP VALVES

It frequently happens that with only one pilot signal available it is necessary to determine any reciprocating movement having two stationary positions. A typical example of this need is the opening and closing of the doors of a bus using a single push-button. This problem is resolved by adopting a flip-flop valve, which acts like a bistable 5/2 valve but is controlled by one single pilot pressure.

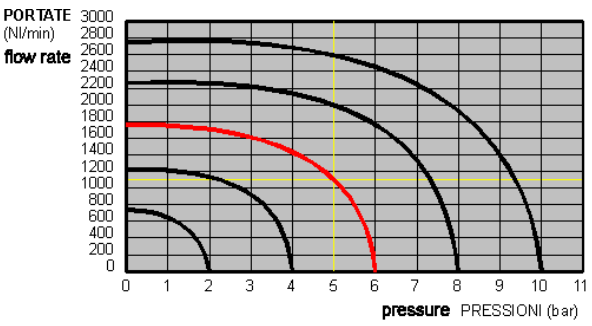
In the event of pilot pressure failure or system maintenance a manual override facility is provided.

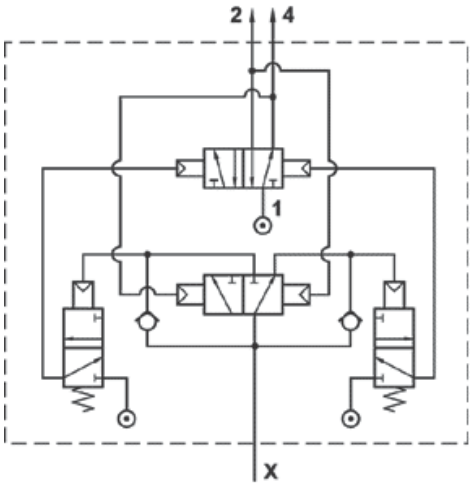
Material:

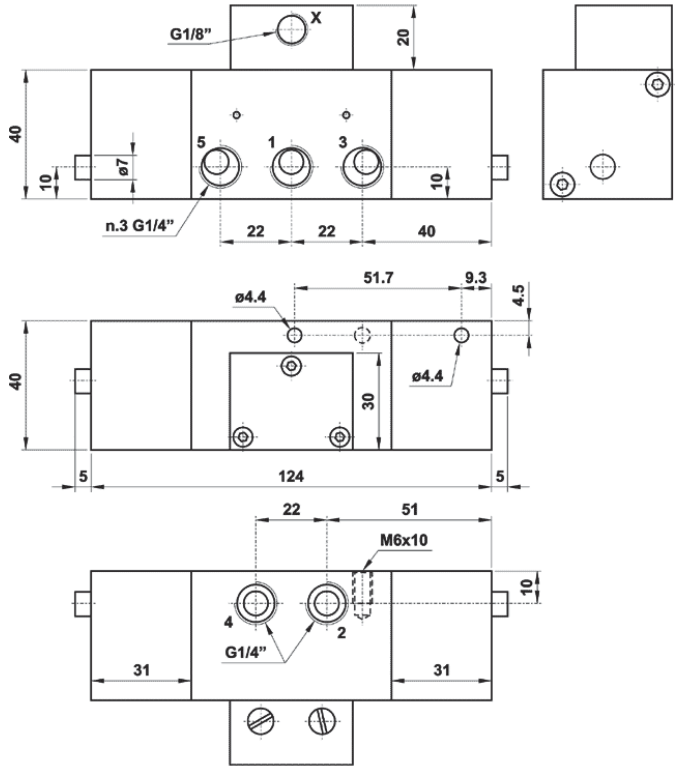
Body	:	Aluminium
Spring	:	Stainless steel
Seals	:	NBR
Spools	:	Nickel plated aluminium
Internal parts	:	Brass OT58

General characteristics:

Connections	:	1/4" (Pilot pressure 1/8")
Temperature	:	max. +60° C
Pressure	:	3 till 10 bar
Medium	:	50µ filtered, lubricated or non lubricated air







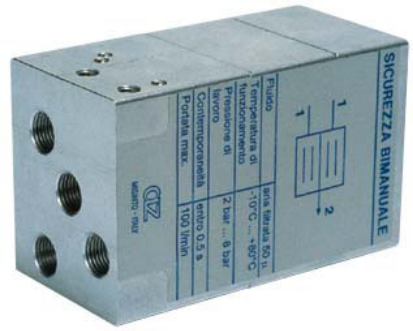
ORDER CODIFICATION : AZ100354

Technical modifications keep in reserve !

(2020/10)

9. BIMANUAL VALVES

These control valves are mainly used to control machines like press- and punching-machines. They oblige the user to start a dangerous cycle with both hands.
The main valve is only activated if both signals are pressurized. In all other situations, the main valve shuts off. The interval between the 2 signals is limited in time. So, the bimanual valve will not work when blocking permanently one of the two buttons).

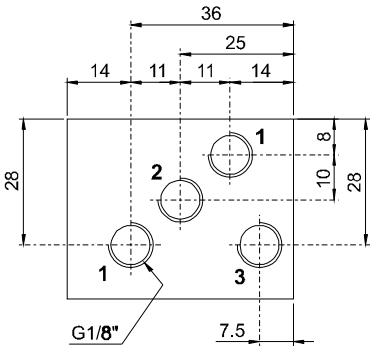


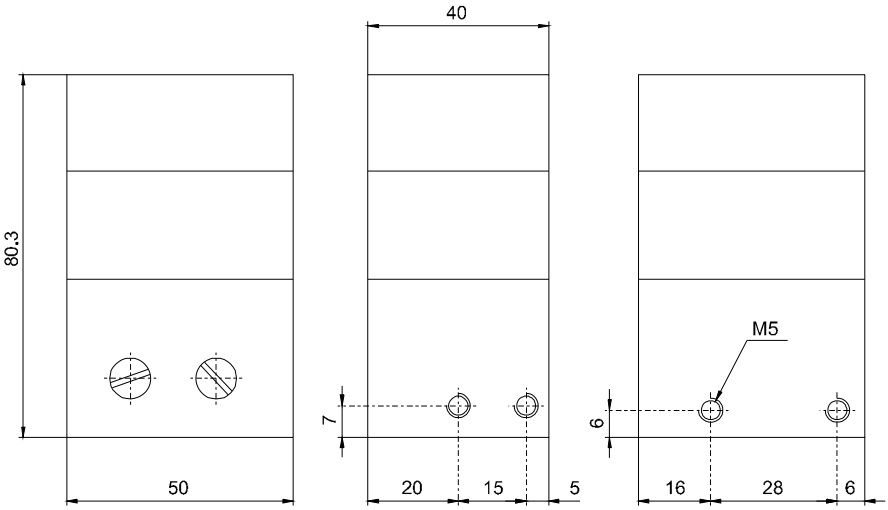
Material:

Corps : Aluminium
Spring : Stainless steel
Gaskets : NBR

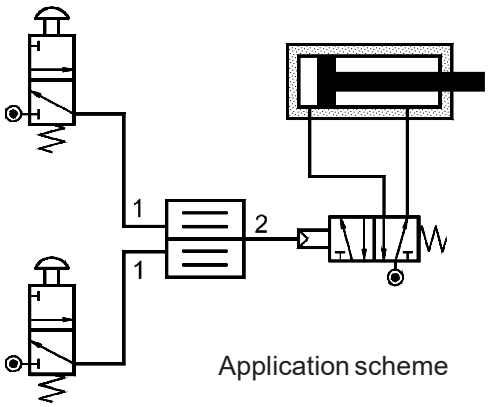
General characteristics:

Connections : 1/8"
Temperature : -10° till + 80° C
Flow : 100 Nl/min.
Pressure : 2 till 8 bar
Medium : Filtered air (50µ), lube or not lube

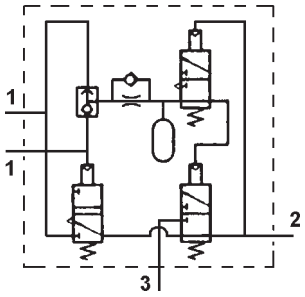




CONNECTIONS
1. Inlet
2. Utilisation
3. Exhaust



Application scheme



Internal scheme

ORDER CODIFICATION :
AZ081564
(CE-certificated)

Technical modifications keep in reserve !

(2020/10)

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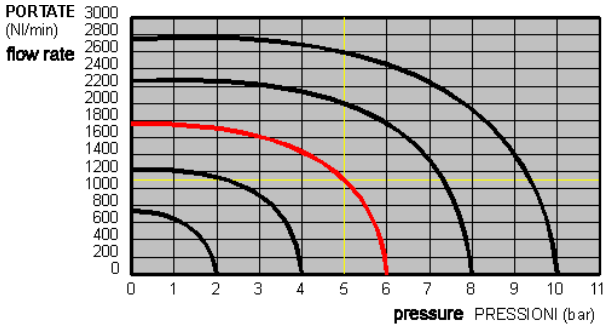
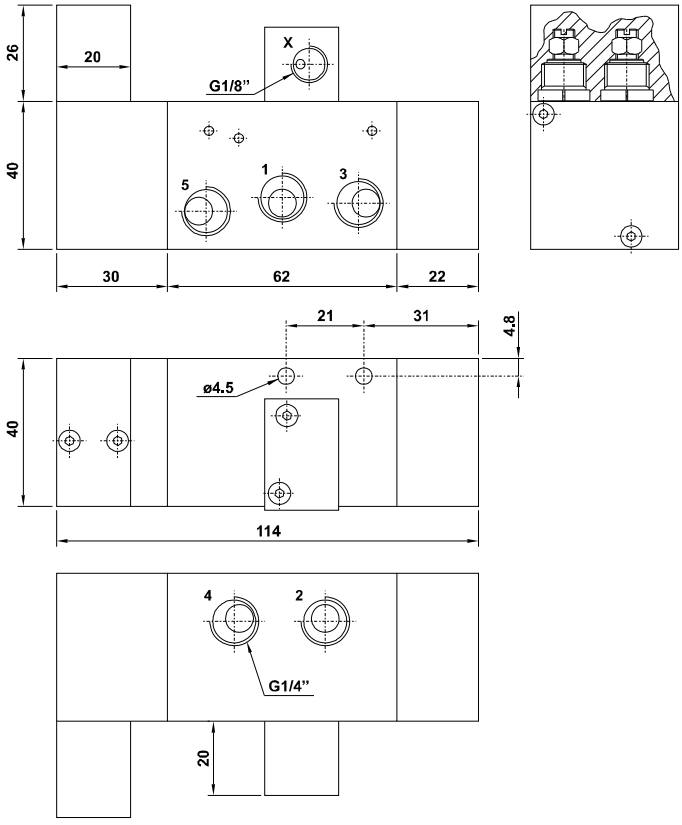
10. OSCILLATING VALVES

This control valve generates an alternating signal with a regulating frequency. With this valve it is possible to activate automatically a double-acting cylinder in and out, without any use of end-contacts. The on/off times can be regulated separately by means of 2 incorporated flow-regulators. The valves starts oscillating when "X" is pressurized.

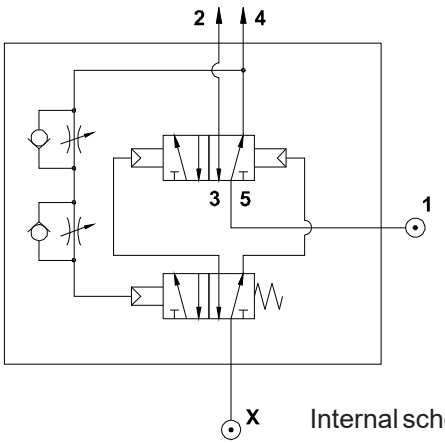
Material:
Body : Aluminium
Springs : Stainless steel
Seals : NBR
Internal parts : Brass OT58

Technical data:
Connections : 1/4" (Pilot pressure 1/8")
Temperature : max + 60° C
Working pressure : 2 till 10 bar
Actuating pressure (X) : 3 till 10 bar
Medium : 50µ filtered, lubricated or non lubricated air





CONNECTIONS
1. Inlet
2-4. Utilisation
3-5. Exhaust
X. Pilot Pressure



Internal scheme

ORDER CODIFICATION
AZ010464

Technical modifications keep in reserve !

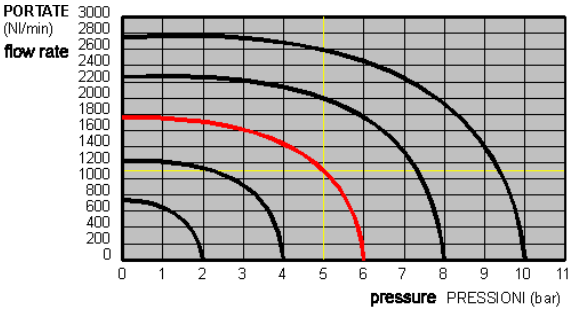
(2020/10)

11. 5/2 OSCILLATING NOT VALVES

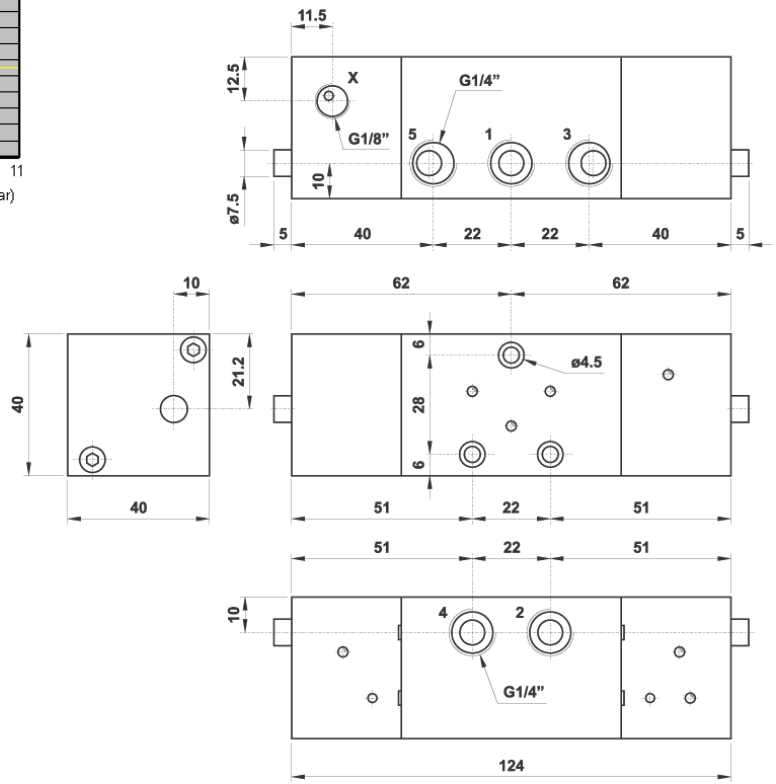
It is a high-flow device which allows a double acting cylinder or analogue pneumatic equipment to automatically extend and retract without the need for limit switches.
The frequency of the phases is set by regulation of the exhausts 3 and 5 using separate silencer/regulators which are not included.
When actuating signal is applied or removed the valve automatically moves to the start position ensuring no device is left in a semi-actuated position.
A manual override is integrated to re-activate the oscillator if it gets accidentaly blocked.

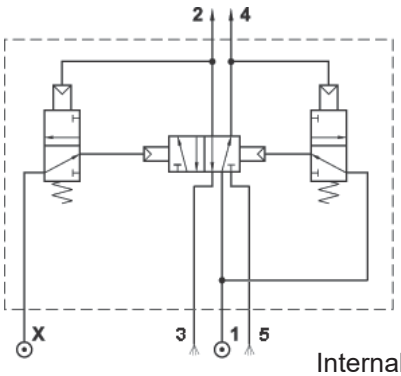
Material:
Body : Aluminium
Springs : Stainless steel
Seals : NBR
Spools : Nickel plated aluminium
Internal parts : Brass OT58

Technical data:
Connections : 1/4" (Pilot pressure 1/8")
Temperature : max + 60° C
Working pressure : 2 till 7 bar
Actuating pressure (X) : 3 till 7 bar
Medium : 50µ filtered, lubricated or non lubricated air



CONNECTIONS
1. Inlet
2-4. Utilisation
3-5. Exhaust
X. Pilot Pressure





Internal scheme

ORDER CODIFICATION
AZ100274

Technical modifications keep in reserve !

(2020/10)

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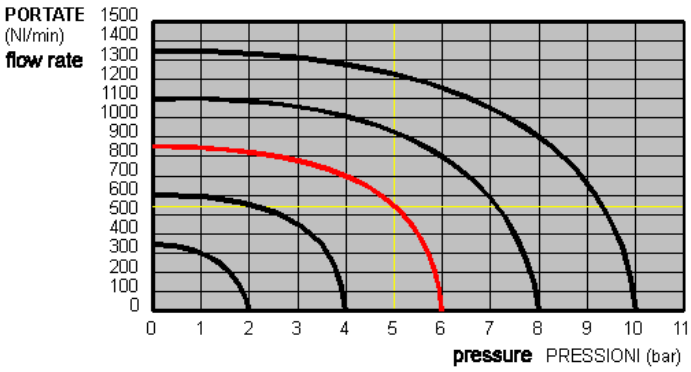
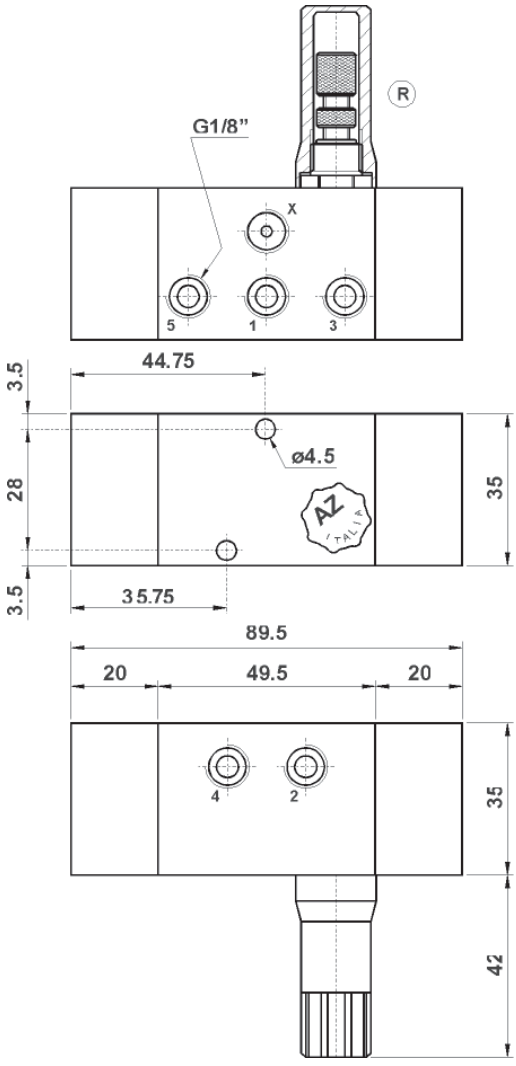
12. 5/2 TIMER VALVES

This is a high-flow 5 way valve with a pneumatic timer which delays the effect of the pneumatic pilot after a preset time. The time is adjusted by screw (R).
When a signal is applied to X the valve will stay in the rest position until the time which was set at R has elapsed, and then the valve will automatically switch to the actuated position. Then the valve will remain in the actuated position. When the pilot signal stops, the valve returns to the rest position.
The valve will only operate when pressure signal is applied to X.

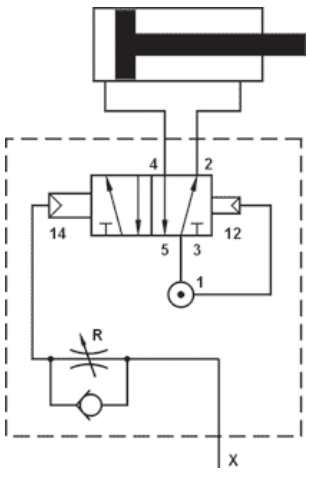
Material:
Body : Aluminium
Springs : Stainless steel
Seals : NBR
Spools : Nickel plated aluminium
Internal parts : Brass OT58

Technical data:
Connections : 1/8"
Temperature : max + 60° C
Working pressure : 2 till 10 bar
Actuating pressure (X) : 3 till 10 bar
Time regulation : 0 till 15 sec
Medium : 50µ filtered, lubricated or non lub air





CONNECTIONS
1. Inlet
2-4. Utilisation
3-5. Exhaust
X. Pilot Pressure



Application scheme

ORDER CODIFICATION
AZ001774

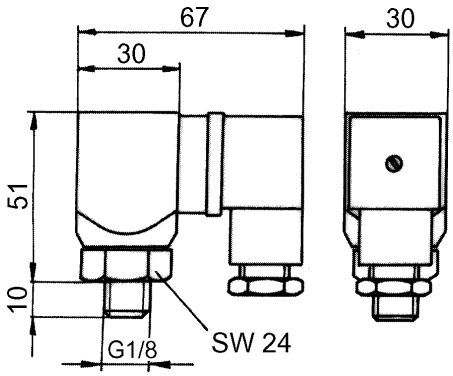
Technical modifications keep in reserve !

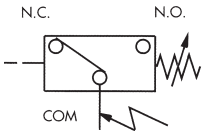
(2020/10)

13. PRESSURE SWITCHES Series PE210

connector
included

Media	Air, non corrosive gases and fluids
Description	Diaphragm
Mounting	Arbitrary
Pressure range	1 - 10 bar (max 20 bar)
Switch difference	15% - 25%
Temperature	-30° to +120° C
Port size	G 1/8"
Electr.connection	Plug connection DIN 43650, form A
Circuit element	Micro-switch, one-pole change
Type of isolation	IP 65, connect IP 00 DIN 40050
Weight	0,230 kg.
CODE	**PE210**





direct-current switch-power			
	resistor loading	bulb loading	inductive loading
[V]	[A]	[A]	[A]
30	5	0,5	5
50	2	0,4	2
75	1	0,3	1
125	0,5	0,2	0,06
250	0,25	0,1	0,03
alternating-current switch-power			
	resistor loading	bulb loading	inductive loading
[V]	[A]	[A]	[A]
125	5	0,5	5
250	5	0,5	5

14. PRESSURE SWITCHES FOR COMPRESSOR Series PES1V12

ORDER CODE : PES1V12

Met ontluchtingsventiel geschikt voor 1/4" of 6 mm aansluiting, regelbare min. en max. druk - Voor mono- en driefasige compressoren (tot 380 V.) -IP 40 - Gebruik: Automatisch aan- & uitschakelen van compressoren

Avec soupape de décharge pour raccordement 1/4" ou 6 mm, pression min. et max. - Pour compresseurs mono- et triphasés (jusqu'à 380 V) IP 40 - Utilisation: (Dé)branchement automatique de compresseurs

Art nr.		No. d'article	C00004002
Diameter		Diamètre	1/4" I
Stroomsterkte		Voltage	0
Verpakking		Emballage	Bulk
Vermogen		Puissance	4 HP
Werkdruk		Pression de travail	7,5-10 bar

Technical modifications keep in reserve !

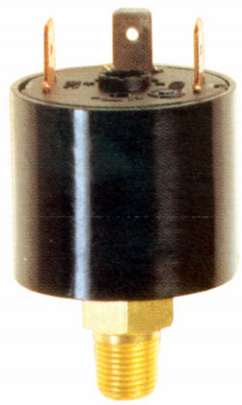
(2022/02)

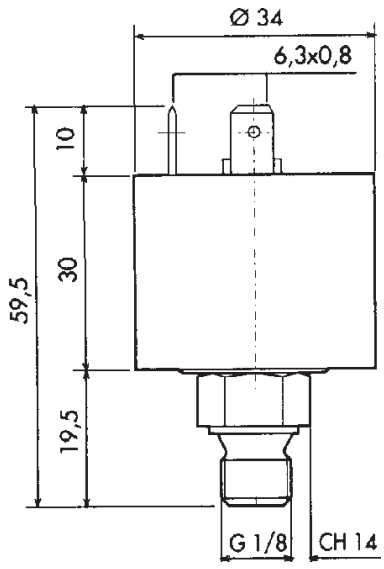
☎ +32 3 355 32 20

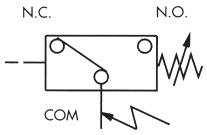
15. PRESSURE SWITCHES Series PN5611

Pressure switches are used to convert a pneumatic signal into an ON-OFF electric signal.

Pressure :	Adjustable 0.2 - 6 bar (max. supply pressure 12 bar) Factory preset at 6 bar
Contact :	NO or NC (according to the terminals connected)
Operating voltage :	Max. 250 V
Parts in contact with the fluid :	Diaphragm in stainless steel AISI 301, brass connection.
Fluids :	Water, oil, air & steam
Max. temp :	Fluid 155°C, Ambient 120°C
Electrical data :	Faston 6.3 x 0.8 Microswitch: NC ≤ 15 A resistance load ≤ 1.5 inductive NO ≤ 9 A resistance load ≤ 0.9 inductive Life of the electrical contacts: 100.000 cycles
Mounting position :	Any. Prefered the position with the fastons upwards
Weight :	0.060 kg.

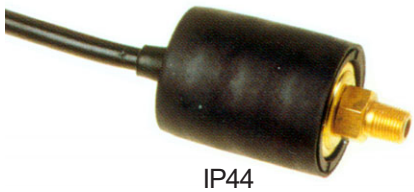






ORDER CODE :
PN5611

(rubber cap included)



IP44

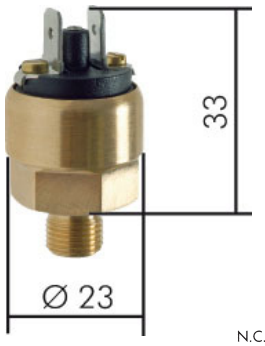
Technical modifications keep in reserve !

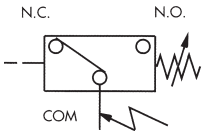
(2022/03)

16. PRESSURE SWITCHES Series DRS

This miniature membrane pressure switches are used to convert a pneumatic signal into an ON-OFF electric signal.

Materials: Body: brass, diaphragms: NBR
Temperature range: -25°C to max. +85°C
Switchback difference: < 10 %
Protection class: IP 65 (clamps IP 00)
Cable connection: Flat connecter 2 x 6.3 x 0.8
Media: Hydraulic oil, oil emulsion, water, air





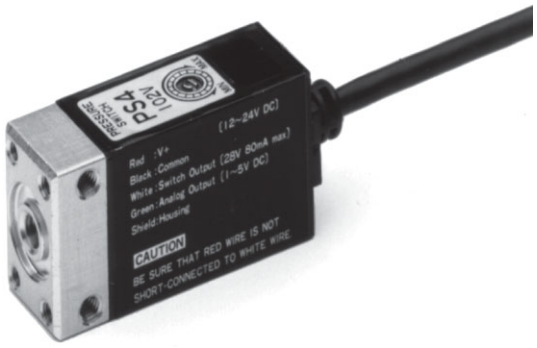
FOR HIGHER LOADS RELAIS ARE RECOMMENDED

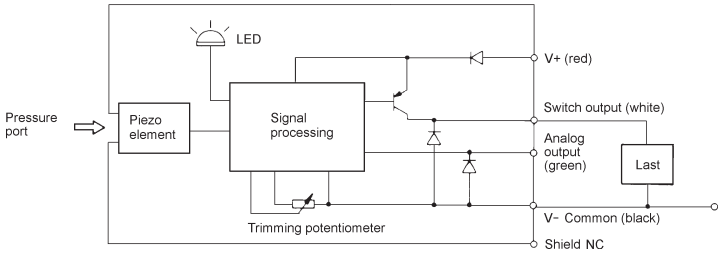
ORDER CODE	CONTACT	ADJUSTING PRESSURE RANGE	CONNECTION	MAX. PRESSURE	SWITCH CAPACITY
DRSS2MINI	NO	0,3-2 bar	M1/8"	5 bar	42 V / 100 VA
DRSO2MINI	NC	0,3-2 bar	M1/8"	5 bar	42 V / 100 VA
DRSS10MINI	NO	1-10 bar	M1/8"	20 bar	42 V / 100 VA
DRSO10MINI	NC	1-10 bar	M1/8"	20 bar	42 V / 100 VA
DRSM2	Protection cap	It is advisable to protect the electric connections and the internal devices against moisture and dust infiltration by means of this protection cap.			

(2022/02)

☎ +32 3 355 32 20

17. VACUUM / PRESSURE SWITCHES Series PS4





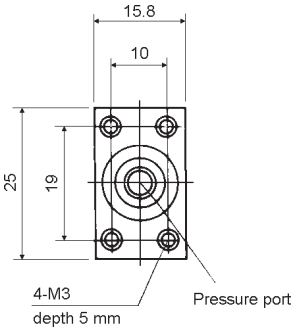
The semi-conductor type pressure sensor and the electronic hybrid circuit are contained in a plastic housing.

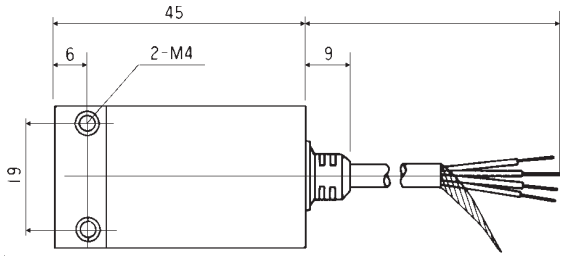
The operation principle is based on the piezo resistance effect of 4 semi-conductor strain gages in the silicon element. Because of the elasticity and small dimensions of the element, the sensor has **fast response** and guarantees **optimal repeatability, hysteresis and vibration resistance**.

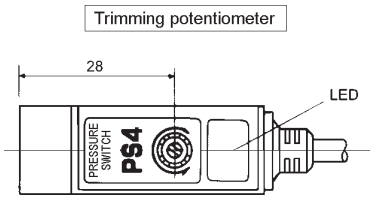
The sensed pressure is converted to an electric signal which is amplified in the electronic circuit with on the one side the analog output and on the other side the switch without any mechanical and or moving parts which results in long life. **Over 10 million cycles** were run in both inhouse and field tests.

A built in LED indicates the switching position and simplifies presetting by means of the trimming potentiometer on top of the switch-housing. At the front side an aluminium connection block is attached to the plastic housing with port connection M5 and O-ring groove for subplate or manifold mouting.

(also ON SPECIAL REQUEST with connector & cable available).







ORDER CODE	PS4-102V-Z	PS4-103G-Z
Pressure range	-1 ~ 0 bar	-1 ~ 10 bar
Overpressure	3 bar	16 bar
Max. Pressure	5 bar	20 bar
Pressure media	dry, non aggressive gases	dry, non aggressive gases
Working voltage	12 - 24 VDC	12 - 24 VDC
Current consumption	30 mA at 24 VDC	30 mA at 24 VDC
Insulation resistance	min. 100 Mohm at 500 V	min. 100 Mohm at 500 V
Analog output	1±0,4 - 4± 0,4 VDC	1±0,4 - 4± 0,4 VDC
Switch output	PNP open collector output Switching characteristic: Current max. 80 mA Excitation Voltage: max. 2 V	PNP open collector output Switching characteristic: Current max. 80 mA Excitation Voltage: max. 2 V
Switch position indication	LED	LED
Switching pressure setting	Potentiometer	Potentiometer
Switching hysteresis	max. 15 mbar at -1bar	max. 150 mbar at 10 bar
Switching accuracy at constant temperature	5 mbar	50 mbar
Switching frequency	1000 Hz	1000 Hz
Housing material	Aluminium and Polycarbonat	Aluminium and Polycarbonat
Shock resistance	100 G. Time 1 ms	100 G. time 1 ms
Vibration resistance	10 G (10 - 2000 Hz)	10 G (10 - 2000 Hz)
Dielectric strength	500 VAC 1 min.	500 VAC 1 min.
Temperature range	-20°C + 70°C operating temperature -20°C + 80°C storage temperature	-20°C + 70°C operating temperature -20°C + 80°C storage temperature
Electrical connection	4 x 0.13 mm², 3 m shielded cable AWG 26	4 x 0.13 mm², 3 m shielded cable AWG 26
Pressure connection	M5 or O-ring sealed subplate- or manifold mounting	M5 or O-ring sealed subplate- or manifold mounting
Weight	approx. 80 g	approx. 80 g

18. VACUUM / PRESSURE GAUGES Series PS30

Compact multipurpose compound pressure gauge specifically designed to cover negative to normal pressure.

Red LED with 2.5 digits
Larger display with high luminance LED

2-point switch output
8 operation modes available with combination of separate mode and window comparator mode

Small 30mm-square face
Space-saving design

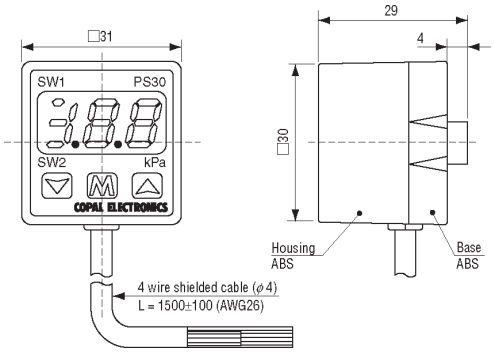
Various modes and units can be selected
5 different pressure units

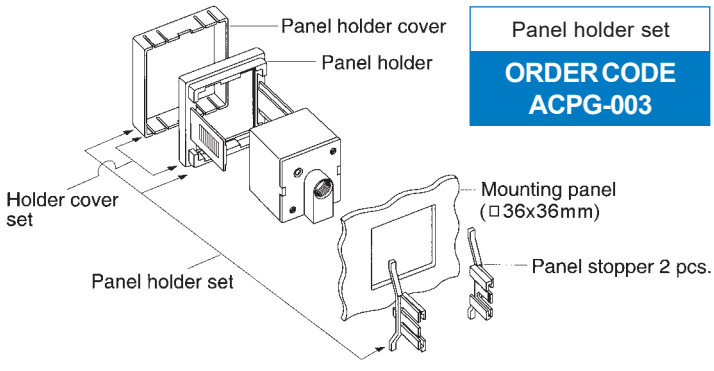
ORDER CODE	PS30-103R	PS30-102R
Rated pressure range	-1 ~ 10 bar	-1 ~ 1 bar
Maximum pressure	15 bar	2 bar
Media	Non-corrosive gases	
Input voltage	12 ~ 24 VDC (including ripple)	
Current consumption	40 mA maximum	
Display	2.5-digit LED	
Temperature / Humidity	-10 ~ 50 °C / 35 ~ 85 %RH	
Insulation resistance	> 100 MΩ at 500 VDC between bundle of lead wire and pressure port	
Dielectric strength	1 minute at 500 VAC between bundle of lead wire and pressure port (leak current : < 1 mA)	
Vibration	10 ~ 500 Hz Amplitude 1.5 mm, 3 directions, 2 h each	
Shock	490 m/s² 3 directions for 3 times each	
Thermal error	±3 %F.S. (0 ~ +50 °C)	
Pressure port	M5, Silicon	
Weight	approx. 60g (including 1.5 m cable)	
Protection	IP40	
Accessories	Unit seal, seal screw, M5 connecting joint screw	

SWITCH OUTPUT (PNP)

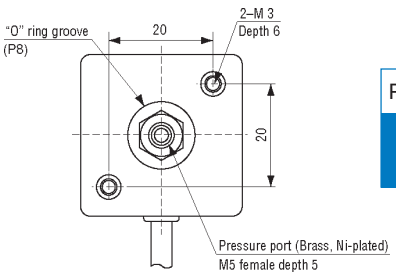
Switch capacity : 30 VDC 100 mA max.
Residual voltage : 2,2 V max.
(at load current or 100 mA)

Hysteresis	0 ~ 30 digits (adj.)
Repeatability	±0,3%F.S. max.
Response	5 ~ 250 ms (adj.)
Short-circ. prot.	Provided

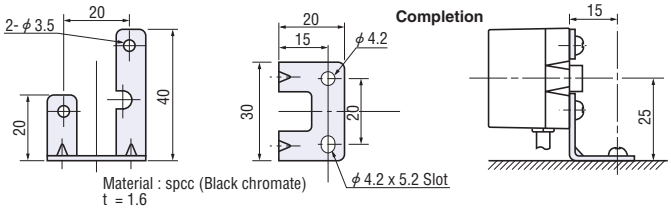




Panel holder set
ORDER CODE ACPG-003



Panel mounting bracket
ORDER CODE ACPG-002



Technical modifications keep in reserve !

(2020/10)

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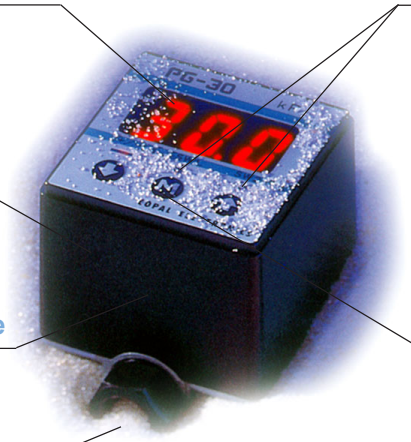
19. VACUUM / PRESSURE GAUGES Series PG30

Compact multipurpose compound pressure gauge specifically designed to cover negative to normal pressure.

Full 3-digit red LED
Clear indication even in dark places

2-point switch output
8 operation modes available with combination of separate mode and window comparator mode

Protection grade IP65
Proven IP65 grade gauge body



Small 30mm-square face
Space-saving design

Various modes and units can be selected
8 different pressure units

Analog output 1~5 V
In addition to 2-point switch output, analog voltage output is provided

ORDER CODE	PG30-103R	PG30-102R
Rated pressure range	-1 ~ 10 bar	-1 ~ 1 bar
Maximum pressure	15 bar	2 bar
Media	Non-corrosive gases	
Input voltage	10.8 ~ 30 VDC (including ripple)	
Current consumption	70 mA maximum	
Analog output	Output voltage : 1 ~ 5 V Output impedance : 10 kΩ	
Display	Full 3-digit LED	
Switch state indication	Output 1 (green) and output 2 (red) light up when output is on.	
Temperature / Humidity	-10 ~ 50 °C / 35 ~ 85 %RH	
Insulation resistance	> 100 MΩ at 500 VDC between bundle of lead wire and pressure port	
Dielectric strength	1 minute at 500 VAC between bundle of lead wire and pressure port (leak current : < 1 mA)	
Vibration	10 ~ 500 Hz Amplitude 1.5 mm, 3 directions, 2 h each	
Shock	490 m/s² 3 directions for 3 times each	
Thermal error	±3 %F.S. (0 ~ +50 °C)	
Pressure port	1/8", Aluminium die-casting, silicone	
Weight	approx. 80g (including 2 m cable)	
Accessories	Unit seal, seal screw, M5 connecting joint screw	

SWITCH OUTPUT (PNP)

Switch capacity : 30 VDC 100 mA max.
Residual voltage : 2,2 V max.
(at load current or 100 mA)

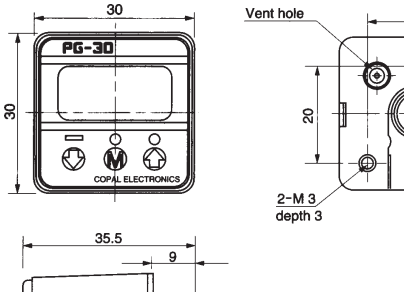
Hysteresis	0 ~ 300 digits (adj.)
Repeatability	±0,2%F.S. ±1digit
Response	5 ms ~ 2,5 s (adj.)
Short-circ. prot.	Provided

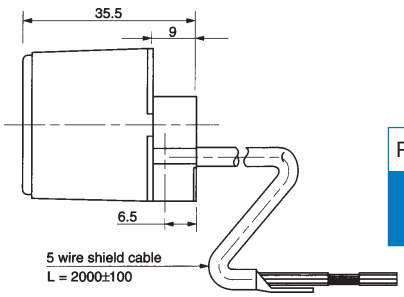
OUTPUT MODE SETTING

Detected pressure (Pin)

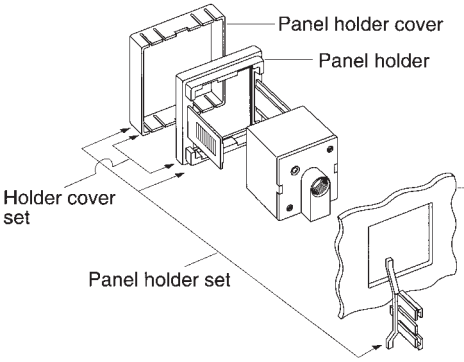
Output mode	Pin (L)	Pin (H)
R mode	-Pr	+Pr
G mode	0	+Pr
V mode	0	-Pr
Output voltage Vo	Vo (L)	Vo (H)

Pressure range (103R) : only for G mode

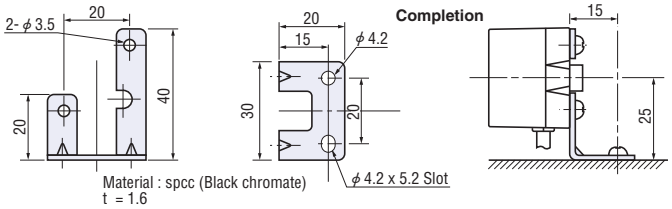




Panel mounting bracket
ORDER CODE ACPG-002



Panel holder set
ORDER CODE ACPG-003



Technical modifications keep in reserve !

(2020/10)