Proportional pressure regulator Series PME

Two sizes available: PME1 and PME2 Ports G1/4 - G3/8 - 1/4NPTF





The Series PME proportional pressure regulator is the ideal solution for industrial applications that require accurate pressure control within a system.

This new pressure regulator offers a high pneumatic performance, despite having its weight and dimensions reduced to a minimum to allow greater flexibility in its use.



versions. One version has an integrated exhaust valve that allows the system to discharge even in the absence of power. The second is a manifold version, ideal for controlling several outlets with only a single inlet.

Each has been designed to meet a wide range of applications and to guarantee reliable and precise control across the entire system.

- » Manifold version
- » Integrated exhaust valve version
- » Modular with Series MD
- » Configuration APP that uses NFC technology
- » Compact and essential

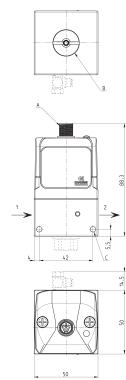
Standard of reference	CE	
Controlled quantity	Pressure	
Number of ways	3	
Flow (Qn)	PME104 - 1100 Nl/min	PME238 - 4600 Nl/min
Media	Filtered and non-lubricated compressed	l air of class [7:4:4] according to ISO 8573.1. Inert gases and oxygen
Min & max regulated pressure (bar)	0,05 - 10,3 bar (0,72-150 PSI)(D) 0,05 - 7 bar (0,72-101,5 PSI) (G)	0,05 - 6 bar (0,72-87 PSI)(F)
Maximum inlet pressure	11 bar (D); (G) ed (F)	
Resolution (% FS)	0,3 (Size 1) 0,6 (Size 2)	
Fluid temperature (min and max °C)	0 - 50 °C	
Environmental temperature (min and max °C)	0 - 50 °C	
Pneumatic ports	G1/4 - G3/8 -1/4NPTF	
Materials	body: aluminium - cover: technopolyme	er - seals: NBR or FKM
Supply voltage (V)	24 V DC	
Command signal	0-10V (2); 4-20 mA (4)	
Hysteresis (% FS)	0,5% (Size 1) 0.7% (Size 2)	
Power consumption	Max 0,5A (Envisage a power supply of a	t least 1A)
Type of electrical connection	M12 5 Pin Male	
IP protection class	IP65	
•		
Repeatability (% FS)	0,4	
Repeatability (% FS) Linearity (% FS)	0,4 0,4	

CODING EXAMPLE

РМЕ	1	04	_	Е	D	5			2	E		00
FME	_ 1	04	_	E	D	J			2	E		00
PME	SERIES											
1	SIZE: 1 = Size 1 2 = Size 2											
04	CONNECTION I 04 = G1/4 38 = G3/8 (on M4 = G1/4 Ma 14 = NPTF 1/4 N4 = 1/4 NPTF	ly size 2) nifold (only size 1)										
E	DIAGNOSTICS: E = Without W	/iFi No Diagnostics	;									
D	WORKING PRESSURE: F = 0-6 bar (standard for 0X1 version with internal servo-pilot supply) G = 0-7 bar (0X1 versions only with external servo-pilot supply with air) D = 0-10,3 bar (0X1 versions only with external servo-pilot supply with air)											
5	VALVE FUNCTION: 5 = 3/2 way NC (Port 3 always conveyable Size 2) 6 = VS function (Port 3 always conveyable Size 2) 7 = 3/2 way NC (Port 3 conveyable only Size 1) 8 = VS function (Port 3 conveyable only Size 1)											
I	PILOT SUPPLY: I = Internal E = External											
2	COMMAND SIO 2 = 0-10V 4 = 4-20mA	SNAL:										
E	DIGITAL OUTPUT SIGNAL: E = error P = pressure switch W = pressure switch with "window" function											
00	CABLE LENGTH 00 = No cable 2F = 2mt strai 2R = 2mt 90° 5F = 5mt strai 5R = 5mt 90°	ght cable ght										
0X1		ole to be used with ng pressure of Max		both with in	ternal and exte	rnal pilot supp	ly; with all o	other versio	ons only wi	th external pilo	t supply.	

DIMENSIONAL CHARACTERISTICS SERIES PME SIZE 1









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H

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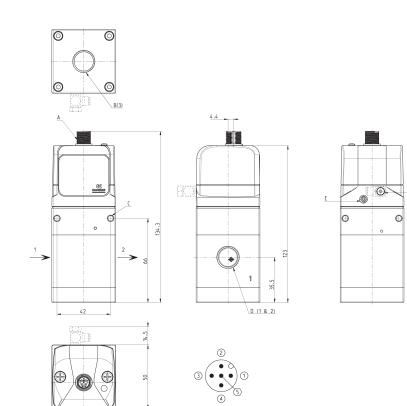
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А	B (3)	C	D(1&2)	E	F	G	H (3)	Symbols
Electrical connection M12 5 Pin Male	Exhaust regulator NOT conveyed (5)	Fixing holes Ø4,3	Port 1/4 (GAS or NPTF)	Exhaust solenoid valves	Fixing holes M4	Internal pilot supply	Absent	RE01
Electrical connection M12 5 Pin Male	Exhaust regulator conveyed (7)	Fixing holes Ø4,3	Port 1/4 (GAS or NPTF)	Exhaust solenoid valves	Fixing holes M4	Internal pilot supply	Exhaust regulator G1/4 (7)	RE05
Electrical connection M12 5 Pin Male	Exhaust regulator NOT conveyed (6)	Fixing holes Ø4,3	Port 1/4 (GAS or NPTF)	Exhaust solenoid valves	Fixing holes M4	Internal pilot supply	Absent	RE03
Electrical connection M12 5 Pin Male	Exhaust regulator conveyed (8)	Fixing holes Ø4,3	Port 1/4 (GAS or NPTF)	Exhaust solenoid valves	Fixing holes M4	Internal pilot supply	Exhaust regulator G1/4 (8)	RE07
Electrical connection M12 5 Pin Male	Exhaust regulator conveyed (5)	Fixing holes Ø4,3	Port 1/4 (GAS or NPTF)	Exhaust solenoid valves	Fixing holes M4	External pilot supply (M5)	Absent	RE02
Electrical connection M12 5 Pin Male	Exhaust regulator conveyed (7)	Fixing holes Ø4,3	Port 1/4 (GAS or NPTF)	Exhaust solenoid valves	Fixing holes M4	External pilot supply (M5)	Exhaust regulator G1/4 (7)	RE06
Electrical connection M12 5 Pin Male	Exhaust regulator NOT conveyed (6)	Fixing holes Ø4,3	Port 1/4 (GAS or NPTF)	Exhaust solenoid valves	Fixing holes M4	External pilot supply (M5)	Absent	RE04
Electrical connection M12 5 Pin Male	Exhaust regulator conveyed (8)	Fixing holes Ø4,3	Port 1/4 (GAS or NPTF)	Exhaust solenoid valves	Fixing holes M4	External pilot supply (M5)	Exhaust regulator G1/4 (8)	RE08
	Electrical connection M12 5 Pin Male Electrical connection	Electrical connection M12 5 Pin Male Exhaust regulator NOT conveyed (5) Electrical connection M12 5 Pin Male Exhaust regulator conveyed (7) Electrical connection M12 5 Pin Male Exhaust regulator NOT conveyed (6) Electrical connection M12 5 Pin Male Exhaust regulator NOT conveyed (6) Electrical connection M12 5 Pin Male Exhaust regulator conveyed (8) Electrical connection M12 5 Pin Male Exhaust regulator conveyed (5) Electrical connection M12 5 Pin Male Exhaust regulator conveyed (7) Electrical connection M12 5 Pin Male Exhaust regulator conveyed (7) Electrical connection M12 5 Pin Male Exhaust regulator conveyed (7) Electrical connection M12 5 Pin Male Exhaust regulator conveyed (7)	Electrical connection M12 5 Pin Male Exhaust regulator NOT conveyed (5) Fixing holes Ø4,3 Electrical connection M12 5 Pin Male Exhaust regulator conveyed (7) Fixing holes Ø4,3 Electrical connection M12 5 Pin Male Exhaust regulator NOT conveyed (6) 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connection M12 5 Pin MaleExhaust regulator conveyed (8)Fixing holes Ø4,3Port 1/4 (GAS or NPTF)Exhaust solenoid valvesFixing holes M4Internal pilot supplyExhaust regulator G1/4 (8)Electrical connection M12 5 Pin MaleExhaust regulator conveyed (5)Fixing holes Ø4,3Port 1/4 (GAS or NPTF)Exhaust solenoid valvesFixing holes M4External pilot supplyExhaust regulator G1/4 (8)Electrical connection M12 5 Pin MaleExhaust regulator conveyed (7)Fixing holes Ø4,3Port 1/4 (GAS or NPTF)Exhaust solenoid valvesFixing holes M4External pilot supplyExhaust regulator G1/4 (7)Electrical connection M12 5 Pin MaleExhaust regulator conveyed (7)Fixing holes Ø4,3Port 1/4 (GAS or NPTF)Exhaust solenoid valvesFixing holes M4External pi



DIMENSIONAL CHARACTERISTICS SERIES PME SIZE 2



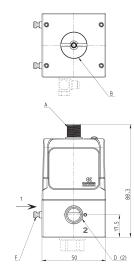


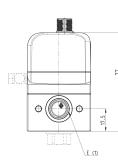
Mod.	A	B (3)	C	D (1 & 2)	E	F	Symbols
PME2xx-Ex5Ixx-xx	Electrical connection M12 5 Pin Male	Exhaust regulator G3/8	Fixing holes Ø4,3	Ports G3/8 or G1/4	Exhaust solenoid valves	Internal pilot supply	RE01
PME2xx-Ex6lxx-xx	Electrical connection M12 5 Pin Male	Exhaust regulator G3/8	Fixing holes Ø4,3	Ports G3/8 or G1/4	Exhaust solenoid valves	Internal pilot supply	RE03
PME2xx-Ex5Exx-xx	Electrical connection M12 5 Pin Male	Exhaust regulator G3/8	Fixing holes Ø4,3	Ports G3/8 or G1/4	Exhaust solenoid valves	External pilot supply (M5)	RE02
PME2xx-Ex6Exx-xx	Electrical connection M12 5 Pin Male	Exhaust regulator G3/8	Fixing holes Ø4,3	Ports G3/8 or G1/4	Exhaust solenoid valves	External pilot supply (M5)	RE04

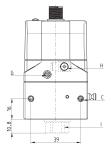
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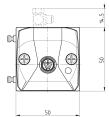
DIMENSIONAL CHARACTERISTICS SERIES PME SIZE 1 MANIFOLD











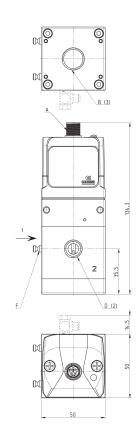


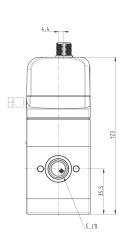
Mod.	А	B (3)	C	D (2)	E(1)	F	G	Н	I (3)	Symbols
PME1M4-Ex5Ixx-xx	Electrical connection M12 5 Pin Male	Exhaust regulator NOT conveyed (5)	Fixing holes Ø4.3	Port G 1/4	Port G 1/4	Connection plug	Exhaust solenoid valves	Internal pilot supply	Absent (5)	RE09
PME1M4-Ex6lxx-xx	Electrical connection M12 5 Pin Male	Exhaust regulator NOT conveyed (6)	Fixing holes Ø4,3	Port G 1/4	Port G 1/4	Connection plug	Exhaust solenoid valves	Internal pilot supply	Absent (6)	RE11
PME1M4-Ex7lxx-xx	Electrical connection M12 5 Pin Male	Exhaust regulator conveyed (7)	Fixing holes Ø4,3	Port G 1/4	Port G 1/4	Connection plug	Exhaust solenoid valves	Internal pilot supply	Exhaust (7) G1/4	RE13
PME1M4-Ex8lxx-xx	Electrical connection M12 5 Pin Male	Exhaust regulator conveyed (8)	Fixing holes Ø4,3	Port G 1/4	Port G 1/4	Connection plug	Exhaust solenoid valves	Internal pilot supply	Exhaust (8) G1/4	RE15
PME1M4-Ex5Exx-xx	Electrical connection M12 5 Pin Male	Exhaust regulator NOT conveyed (5)	Fixing holes Ø4,3	Port G 1/4	Port G 1/4	Connection plug	Exhaust solenoid valves	External pilot supply (M5)	Absent (5)	RE10
PME1M4-Ex6Exx-xx	Electrical connection M12 5 Pin Male	Exhaust regulator NOT conveyed (6)	Fixing holes Ø4,3	Port G 1/4	Port G 1/4	Connection plug	Exhaust solenoid valves	External pilot supply (M5)	Absent (6)	RE12
PME1M4-Ex7Exx-xx	Electrical connection M12 5 Pin Male	Exhaust regulator conveyed (7)	Fixing holes Ø4,3	Port G 1/4	Port G 1/4	Connection plug	Exhaust solenoid valves	External pilot supply (M5)	Exhaust (7) G1/4	RE14
PME1M4-Ex8Exx-xx	Electrical connection M12 5 Pin Male	Exhaust regulator conveyed (8)	Fixing holes Ø4,3	Port G 1/4	Port G 1/4	Connection plug	Exhaust solenoid valves	External pilot supply (M5)	Exhaust (8) G1/4	RE16



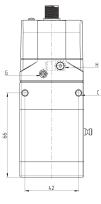
DIMENSIONAL CHARACTERISTICS SERIES PME SIZE 2 MANIFOLD







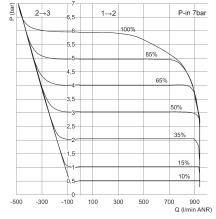




Mod.	А	B (3)	С	D (2)	E(1)	F	G	Н	Symbols
PME2M4-Ex5lxx-xx	Electrical connection M12 5 Pin Male	Exhaust regulator G3/8	Fixing holes Ø4,3	Port G1/4 (Gas or NPTF)	Port G1/4 (Gas or NPTF)	Connection plug	Exhaust solenoid valves	Internal pilot supply	RE09
PME2M4-Ex6lxx-xx	Electrical connection M12 5 Pin Male	Exhaust regulator G3/8	Fixing holes Ø4,3	Port G1/4 (Gas or NPTF)	Port G1/4 (Gas or NPTF)	Connection plug	Exhaust solenoid valves	Internal pilot supply	RE11
PME2M4-Ex5Exx-xx	Electrical connection M12 5 Pin Male	Exhaust regulator G3/8	Fixing holes Ø4,3	Port G1/4 (Gas or NPTF)	Port G1/4 (Gas or NPTF)	Connection plug	Exhaust solenoid valves	External pilot supply (M5)	RE10
PME2M4-Ex6Exx-xx	Electrical connection M12 5 Pin Male	Exhaust regulator G3/8	Fixing holes Ø4,3	Port G1/4 (Gas or NPTF)	Port G1/4 (Gas or NPTF)	Connection plug	Exhaust solenoid valves	External pilot supply (M5)	RE12

FLOW CHARTS SIZE 1 - Standard version (G1/4)

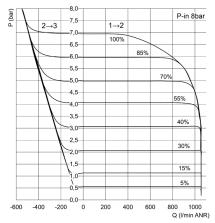
Typical curve for version PME104-EF...



P = Regulated outlet pressure and exhaust pressure Q = Flow

% = Percentage of the command signal

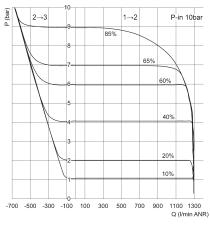
Typical curve for version PME104-EG...



P = Regulated outlet pressure and exhaust pressure

Q = Flow % = Percentage of the command signal

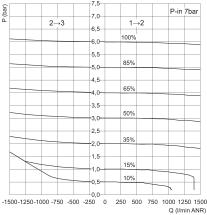
Typical curve for version PME104-ED...



- P = Regulated outlet pressure and exhaust pressure Q = Flow
- % = Percentage of the command signal

FLOW CHARTS SIZE 1 - Manifold version (G1/4)

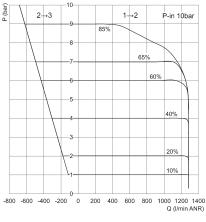
Typical curve for version PME1M4-EF...



P = Regulated outlet pressure and exhaust pressure Q = Flow

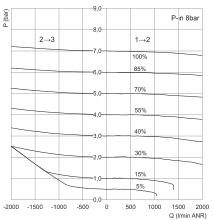
% = Percentage of the command signal

Typical curve for version PME1M4-ED...



- P = Regulated outlet pressure and exhaust pressure Q = Flow
- % = Percentage of the command signal

Typical curve for version PME1M4-EG...

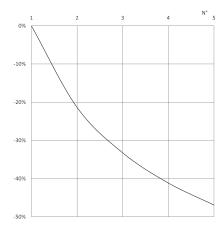


P = Regulated outlet pressure and exhaust pressure

Q = Flow

% = Percentage of the command signal

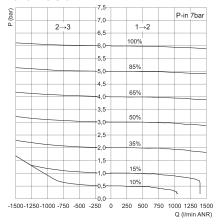
DECAY FACTOR FOR MANIFOLD REGULATORS SIZE 1



N° = number of regulators in manifold configuration % = % of decrease in flow rate compared to the maximum flow rate Note: the air inlet is only from one side, in case it should be on the right and on the left, only consider the positions as from 1 ÷ 3.

FLOW CHARTS SIZE 2 - Version (G1/4)

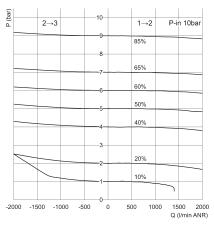
Typical curve for version PME2M4-EF...



P = Regulated outlet pressure and exhaust pressure Q = Flow

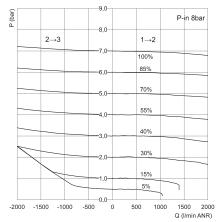
% = Percentage of the command signal

Typical curve for version PME2M4-ED...



- P = Regulated outlet pressure and exhaust pressure Q = Flow
- % = Percentage of the command signal

Typical curve for version PME2M4-EG...

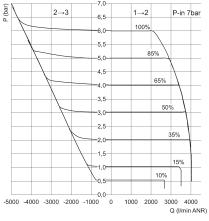


P = Regulated outlet pressure and exhaust pressure

Q = Flow % = Percentage of the command signal

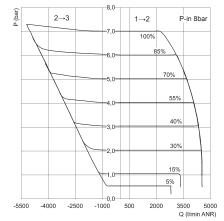
FLOW CHARTS SIZE 2 - Version (G3/8)

Typical curve for version PME238-EF...



- P = Regulated outlet pressure and exhaust pressure Q = Flow
- % = Percentage of the command signal

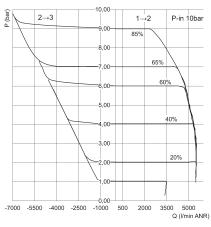
Typical curve for version PME238-EG...



P = Regulated outlet pressure and exhaust pressure

Q = Flow % = Percentage of the command signal

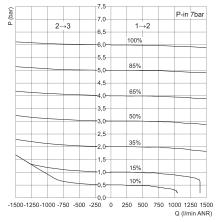
Typical curve for version PME238-ED...



- P = Regulated outlet pressure and exhaust pressure Q = Flow
- % = Percentage of the command signal

FLOW CHARTS SIZE 2 - Manifold Version (G1/4)

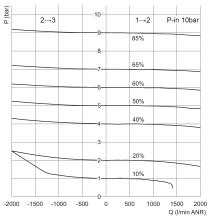
Typical curve for version PME2M4-EF...



P = Regulated outlet pressure and exhaust pressure Q = Flow

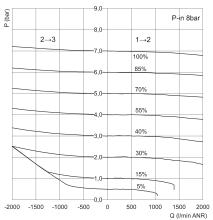
% = Percentage of the command signal

Typical curve for version PME2M4-ED...



- $\mathsf{P}=\mathsf{Regulated}$ outlet pressure and exhaust pressure $\mathsf{Q}=\mathsf{Flow}$
- % = Percentage of the command signal

Typical curve for version PME2M4-EG...

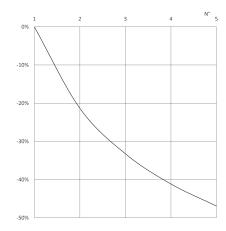


P = Regulated outlet pressure and exhaust pressure

Q = Flow

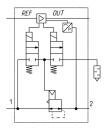
% = Percentage of the command signal

DECAY FACTOR FOR MANIFOLD REGULATORS SIZE 2

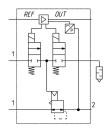


N° = number of regulators in manifold configuration % = % of decrease in flow rate compared to the maximum flow rate Note: the air inlet is only from one side, in case it should be on the right and on the left, only consider the positions as from 1 ÷ 3.

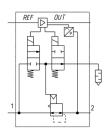




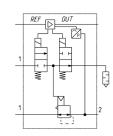
RE01 Version with internal servo-pilot supply, two pilot valves 2/2 NC.



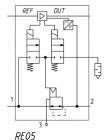
RE02 Version with external servopilot supply and two pilot valves 2/2 NC.



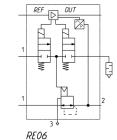
RE03 Version with internal servopilot supply and two pilot valves; one 2/2 NC and one 2/2 NO (exhaust)



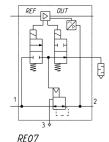
RE04 Version with external servopilot supply and two pilot valves; one 2/2 NC and one 2/2 NO (exhaust)



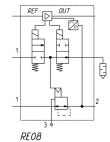
Version with internal servo-pilot supply and two pilot valves 2/2 NC, exhaust conveyable.



Version with external servopilot supply and two pilot valves 2/2 NC, exhaust conveyable.

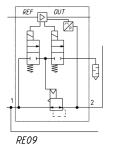


Version with internal servopilot supply and two pilot valves; one 2/2 NC and one 2/2 NO to exhaust, exhaust conveyable.

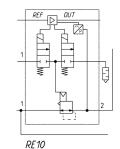


Version with external servopilot supply and two pilot valves; one 2/2 NC and one 2/2 NO to exhaust, exhaust conveyable.

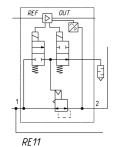
PNEUMATIC SYMBOLS OF SERIES PME PROPORTIONAL PRESSURE REGULATOR, manifold version size 1 and 2



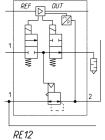
Manifold version with internal servo-pilot supply and two pilot valves 2/2 NC.



Manifold version with external servo-pilot supply and two pilot valves 2/2 NC.



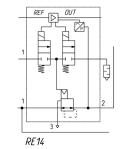
Manifold version with internal servo-pilot supply and two pilot valves; one 2/2 NC and one 2/2 NO to exhaust.



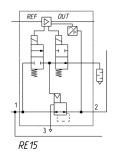
Manifold version with external servo-pilot supply and two pilot valves; one 2/2 NC and one 2/2 NO to exhaust.

REF OUT

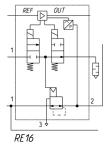
Manifold version with internal servo-pilot supply and two pilot valves 2/2 NC and exhaust conveyable.



Manifold version with external servo-pilot supply and two pilot valves 2/2 NC and exhaust conveyable.



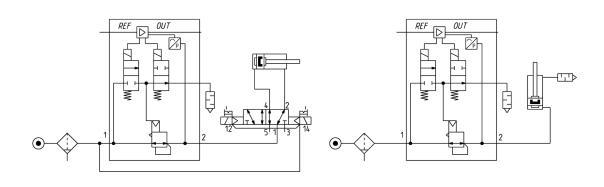
Manifold version with internal servo-pilot supply and two pilot valves; one 2/2 NC and one 2/2 NO to exhaust, exhaust conveyable.



Manifold version with external servo-pilot supply and two pilot valves; one 2/2 NC and one 2/2 NO to exhaust, exhaust conveyable.

PNEUMATIC DIAGRAM FOR INSTALLATION

PME version with integrated exhaust valve. Recommended pneumatic diagrams in order to create a pneumatic circuit that allows to discharge the regulated pressure in absence of power supply.

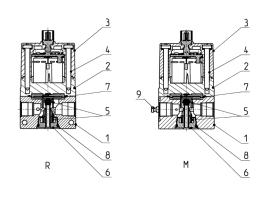


Automatio

SERIES PME PROPORTIONAL PRESSURE REGULATOR

SIZE 1 - MATERIALS

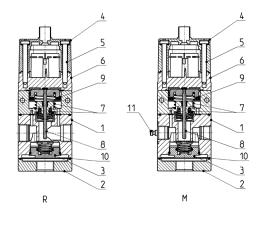
R = Proportional regulator M = Proportional regulator - manifold verision



PARTS	MATERIALS, standard version	
1 = body	Anodised aluminium	
2 = cover	PA6 CM 30%	
3 = cap	PARA GF50%	
4 = screws	stainless steel	
5 = springs	stainless steel	
6 = plug	nickel-plated brass	
7 = diaphragm	NBR	
8 = seals and O-Ring	NBR	
9 = pin for manifold version	stainless steel only for manifold version	

SIZE 2 - MATERIALS

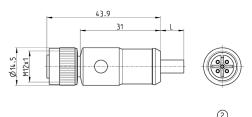
R = Proportional regulator M = Proportional regulator - manifold verision



PARTS	MATERIALS, standard version	
1 = body	Anodised aluminium	
2 = end cover	Anodised aluminium	
3 = plug	brass	
4 = cover	PA6 CM 30%	
5 = screws	stainless steel	
6 = valve body	PARA GF50%	
7 = springs	stainless steel	
8 = piston rod	stainless steel	
9 = piston seal	NB	
10 = seals and O-Ring	NB	
11 = pin for manifold version	Stainless steel only for manifold version	

Cable with M12 connector, 5 pin, female, straight, not shielded



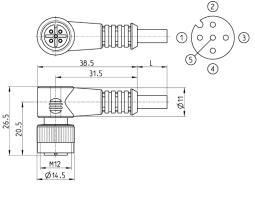




Mod.	Cable length (m)	
CS-LF05HB-D200	2	
CS-LF05HB-D500	5	

Cable with M12 connector, 5 pin, female, 90°, not shielded





		Ø14.5
Mod.	Cable length (m)	
CS-LR05HB-D200	2	
CS-LR05HB-D500	5	

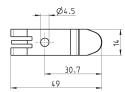
Mounting brackets for DIN-rail Mod. PCF-EN531



DIN EN 50022 (7,5mm x 35mm - width 1)

Supplied with: 2x mounting brackets 2x screws M4x6 UNI 5931 2x nuts



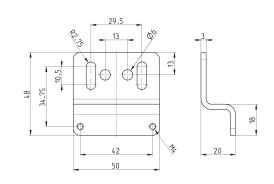


Mod. PCF-EN531

Rear bracket Mod. PRE-ST



The kit includes 1x zinc-plated bracket 2x M4x55 white zinc-plated screws



Mod. PRE-ST

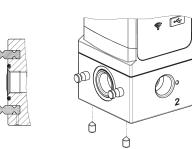
PRE-ST



Fixing kit for manifold version: PRE-M-PIN-1-2



The kit includes: 2x shaped steel pins 4x steel grub screws 1x O-Ring

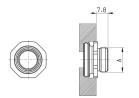


Mod. PRE-M-PIN-1-2

Kit to fix PRE on Series MD



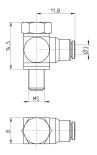
The kit includes: 1x bushing 1x O-Ring 2x special Ø4.5x34 white zinc-plated screws



DIMENSIONS		
Mod.	A	
PRE-1/4-C	G1/4	
PRE-3/8-C	G3/8	

Fittings for external pilot supply





Mod. 6625 3-M5