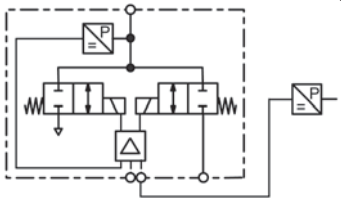
Proportional Pressure Regulator on PCB, Accurate to 0.2% PM

Description	Proportional control valve with closed loop control technology for better control of pressurised gases. The instrument can be built as single closed loop or dual closed loop control valve.		
Media	dry, lubricated or unlubricated and 5 µm filtered compressed air or non-corrosive gases		
Fail freeze	constant outlet pressure at voltage drop		
Second loop	0…10 V, impedance 4.7 kΩ,	ratio of internal to external relationship is 10% to 90%	
Supply voltage	15…24 V DC, residual ripple < 10%, with reverse voltage protection		
Impedance	0…10 V / 4.7 kΩ, 4…20 mA / 100 Ω,	jumper selectable command	
Monitor signal	0…10 V at max. 10 mA		
Electrical connection	terminal strip for 2.5 mm²		
Power consumption	3.6 W regulating, 0.5 W non-regulating	**Air consumption**	without constant bleed
Linearity / Hysteresis	< 0.15% FS	**Repeatability**	< 0.02 FS
Temperature influence	< 1% FS at 0 °C to 50 °C / 32 °F to 122 °F	**Adjustment**	zero point and span
Temperature range	0 °C to 70 °C / 32 °F to 158 °F	**Mounting position**	any, vibration-resistant
Material	Ports: brass	Elastomer:	FKM
	Transducer: aluminium and silicon	Valves:	nickel-plated brass



with single or double loop

Dimensions A mm	B mm	C mm	Flow rate l/min*1	Supply pressure max. mbar/bar	Accuracy %	Connection thread G	Pressure range mbar/bar	Order number
Proportional press. regulator 0-10 V input and monitor signal, supply voltage 24 V DC, fail freeze, single loop for DIN rail								**PM**
56	78	54	35	10 mbar	0.2	G⅛	0… 5 mbar	**PM1DE-A5**
				20 mbar			0… 10 mbar	**PM1DE-B1**
				200 mbar			0…100 mbar	**PM1DE-C1**
				1000 mbar			0…600 mbar	**PM1DE-C6**
56	78	54	35	2 bar	0.2	G⅛	0… 1 bar	**PM1DE-01**
				3 bar			0… 2 bar	**PM1DE-02**
				9 bar			0… 4 bar	**PM1DE-04**
				9 bar			0… 6 bar	**PM1DE-06**
				15 bar			0… 10 bar	**PM1DE-10**
56	78	54	35	2 bar	0.2	G⅛	0… -1 bar	**PM1DE-V0**
				2 bar			-1… +1 bar	**PM1DE-V1**

PM . D
DIN rail mounting

PM . P
panel mounting

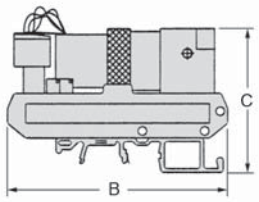
PM . M
mounting on manifold block

Special options, add the appropriate letter

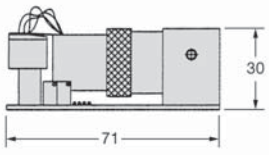
double loop	second loop feedback 0 ...10 V	PM**2** . . - . .
4-20 mA	supply signal, jumper selectable command	PM . . **I** - . .
flow 100 l/min	increased flow rate	PM . . . - . . **HF**
panel mounting	on plane level	PM . **P** . - . .
mounting for manifolds	connections downwards	PM . **M** . - . .

Zubehör, lose beigelegt

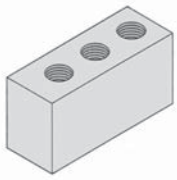
manifold block	for 2 to 7 valves	number of valves added to order number	**SBM- .**



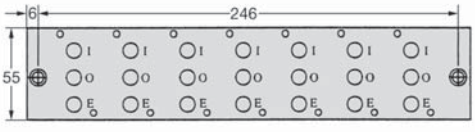
PM . D for DIN rail

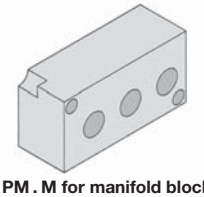


PM . D for panel mounting

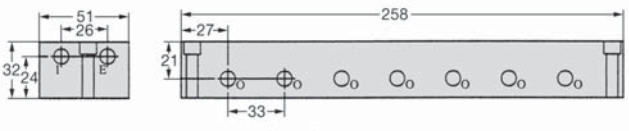


PM . D for DIN rail

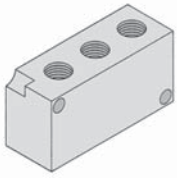




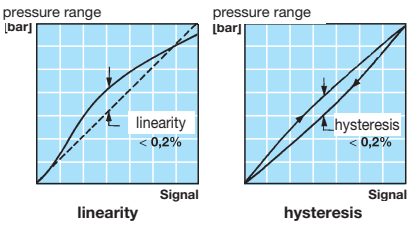
PM . M for manifold block



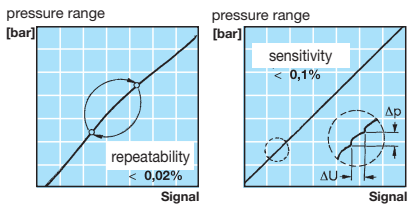
manifold block for 2 to 7 valves



PM . P for panel mounting



linearity **hysteresis**



repeatability **sensitivity**

*1 at 7 bar supply pressure and open outlet, at regulated flow rate of 3 l/min
*2 higher supply pressures on request

For further details about double loop see PQ2

PDF CAD
www.aircom.net

Order example: PM1DE-A5