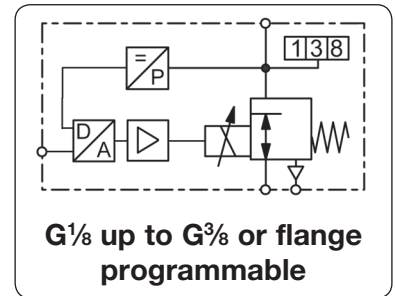


Description	The proportional pressure regulator is digitally controlled and works as a 3/2 valve with proportional magnet and closed loop. The digital control system offers advantages at installation and commissioning for adapting the valve to special applications. The regulator can be set and optimised using a PC, RS232 adapter and software.		
Software	Display: signal, outlet pressure, PID parameters, pressure switch signal etc. Scope function: view setpoint, outlet pressure, internal signals from PID control Parameters: range, zero, amplification and ramp Valve diagnosis: parameters factory-set or customised, optimization of the valve. dry, lubricated or unlubricated and 50 µm filtered compressed air or non-corrosive gases		
Media	24 V DC ± 10 V, residual ripple < 10%		
Supply voltage	0 ... 10 V / 100 kΩ impedance		
Command signal	0/4-20 mA / 250 Ω impedance		
Electrical connector	plug M12x1, 5-pin, with coupling socket		
Power consumption	21 W at DN 4, 40 W at DN 8		
Linearity / Hysteresis	< 0.5% FS / < 1% FS		
Mounting position	any		
Temperature range	Medium: 0 °C to 60 °C / 32 °F to 140 °F Body: aluminium		
Material	Ambience: 0 °C to 50 °C / 32 °F to 122 °F Elastomer: NBR/Buna-N Inner valve: POM		



Dimensions			Nominal size	Flow rate	Supply max.	Connection thread	Pressure range	Order number
A	B	C	DN	l/min*1	bar	G	bar	
mm	mm	mm						

Proportional pressure regulator								0 ... 10 V input and outlet signal, supply 24 V DC without display, with coupling socket	PD
52	112	67	4	780	6	G ^{1/8}	0 ... 3	PDA41-030	
					9		0 ... 6	PDA41-060	
					13		0 ... 10	PDA41-100	
					6	G ^{1/4}	0 ... 3	PDA42-030	
					9		0 ... 6	PDA42-060	
					13		0 ... 10	PDA42-100	
66	138	78	8	1650	6	G ^{1/4}	0 ... 3	PDA82-030	
					9		0 ... 6	PDA82-060	
					13		0 ... 10	PDA82-100	
					6	G ^{3/8}	0 ... 3	PDA83-030	
					9		0 ... 6	PDA83-060	
					13		0 ... 10	PDA83-100	

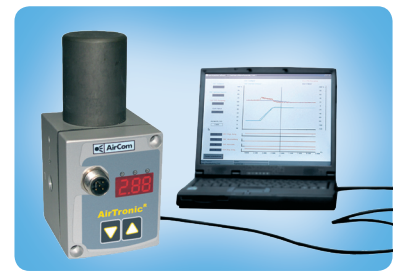


Special options, add the appropriate letter

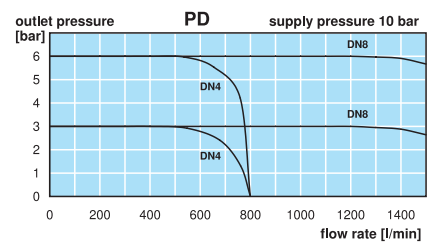
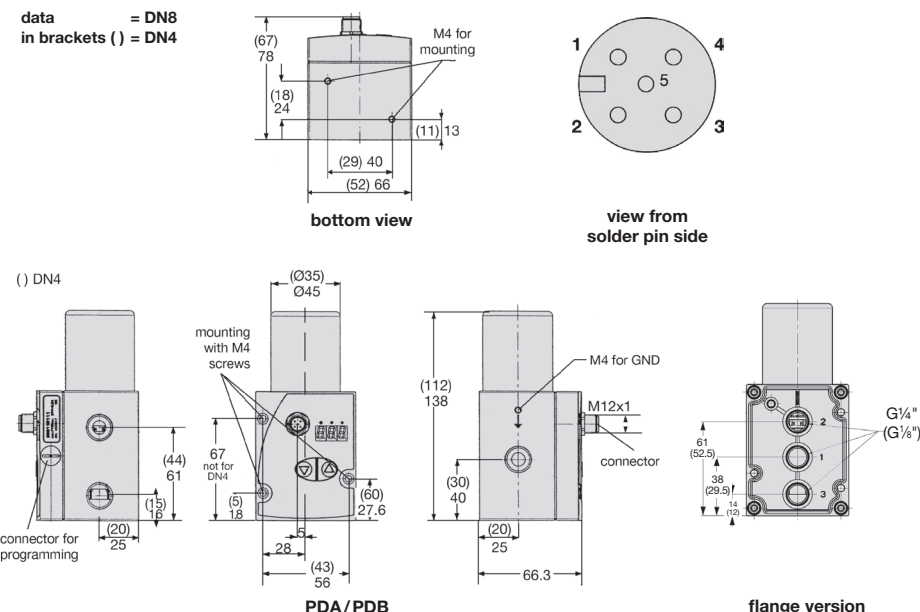
display	3-digit, red	PDB
flange version		PD . . F
NPT	connection thread	PD N
0 ... 20 mA	setpoint input and monitor signal	PD 1
4 ... 20 mA	setpoint input and monitor signal	PD 2

Accessories, enclosed

RS232 module software	with D-sub plug and 2 m cable basic version "Light"	PDRS232 PDSOFT1
coupling socket	M12x1, 5-pin, with 2 m cable, 5 x 0.25 angular 5 m cable, 6 x 0.56 angular	KM12-C5-2 KM12-C5-5



pin	description	5 wire cable (2m)	6 wire cable (5m, 10m)
1	24V supply voltage	brown	brown
2	analogue input signal	white	white
3	supply earth	blue	green
4	analogue earth		yellow
5	analogue outlet signal	black	pink
6	digital pressure switch signal	grey	grey
housing	EMV shield	shield	shield



*1 at 6 bar supply pressure and 5 bar outlet pressure

