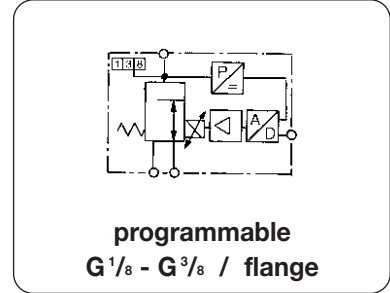
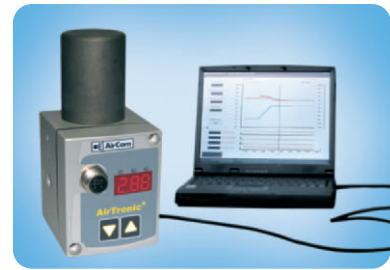


Description	The proportional pressure regulator is digitally controlled and works as a 3/2 valve with proportional magnet and closed loop. The digital control system offers advantages at installation and commissioning for adapting the valve to special applications. The pressure regulator can be set and optimized using a PC, RS232 adapter and software. Dynamic < 50mA.	
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.
Input signal	0-10V, input resistance 100 kΩ	0/4-20 mA input resistance 250 Ω
Off-function Media	if input signal is < 100 mV or compressed air or neutral gases	if input signal is < 0.2 / 4.2 mA
K_v-value	DN4: 0.35 m³/h DN8: 0.86 m³/h	Protection class: IP 65
Linearity	< 0.5% FS	Consumption: DN4: 21 W DN8: 40 W
Hysteresis	< 1% FS	Outlet pressure: > 1 % FS
Temperature	0 °C to 60 °C / 32 °F to 140 °F for fluid media	Repeatability: < 0.5% FS
Materials	aluminium body, POM inner valve	0 °C to 50 °C / 32 °F to 125 °F ambient NBR seals



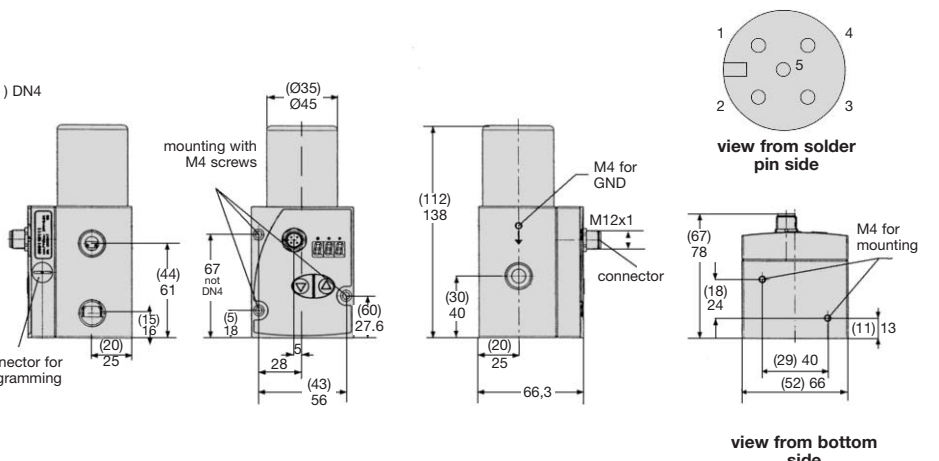
Dimensions			Nominal size	Flow	Connect. thread	Supply pressure	Pressure range	Order Number
H	B	D	DN	l/min*	G	max. bar	bar	
mm	mm	mm						

Proportional regulator				w/o display supply 24V DC	input signal 0 ... 10 V monitor signal 0 ... 10 V	PD			
112	52	68	DN4	780	G ^{1/8}	6 bar	0 ... 3 bar	PDA41 - 030	
						9 bar	0 ... 6 bar	PDA41 - 060	
						13 bar	0 ... 10 bar	PDA41 - 100	
						G ^{1/4}	6 bar	0 ... 3 bar	PDA42 - 030
							9 bar	0 ... 6 bar	PDA42 - 060
							13 bar	0 ... 10 bar	PDA42 - 100
138	66	78	DN8	1650	G ^{1/4}	6 bar	0 ... 3 bar	PDA82 - 030	
						9 bar	0 ... 6 bar	PDA82 - 060	
						13 bar	0 ... 10 bar	PDA82 - 100	
						G ^{3/8}	6 bar	0 ... 3 bar	PDA83 - 030
							9 bar	0 ... 6 bar	PDA83 - 060
							13 bar	0 ... 10 bar	PDA83 - 100

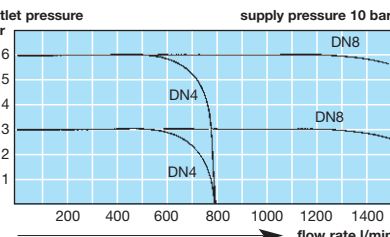


Special options add or change the appropriate letter or number

with display	3-digit, red	B	PDB... - ...
for manifold	only for PDA41 and PDA82	F	PD...F - ...
NPT-thread		N	PD...N - ...
signal 0-20 mA	and monitor signal 0-20 mA	1	PD... - ...1
signal 4-20 mA	and monitor signal 4-20 mA	2	PD... - ...2
pressure switch	PNP outlet, ± 5% accuracy	9	PD... - ...9
manifold	DN4, G ^{3/8} , PDG4		PDG8
RS232 module	with Sub-D-plug and 2 m cable		PDRS232
software	complete version "Light"		PDSOFT1
connector	M12, 5-pin, terminal		KM12 - A5 - 0
connector		straight connector	KM12 - C5 - 0
connector with cable	M12, 2 m long, 5 x 0.25	angle connector	KM12 - A5 - 2
connector with cable		straight connector	KM12 - C5 - 2
connector with cable	M12, 5 m long, 6 x 0.56	angle connector	KM12 - A5 - 5
connector with cable		straight connector	KM12 - C5 - 5
other cable lengths	indicate on order,	e.g. 10m	KM12 - C5 - 10



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



* at 10 bar supply pressure, pressure and exhaust orifices of same size

For your information:	1 bar: 14.8 psi	1 l/min: 0.035 scfm	1 mm: 0.039 inch	Pressure gauge: Please consult chapter "Gauges"
	1 psi: 0.069 bar	1 scfm: 28.3 l/min	1 inch: 25.4 mm	

Order example:
PDA41 - 100