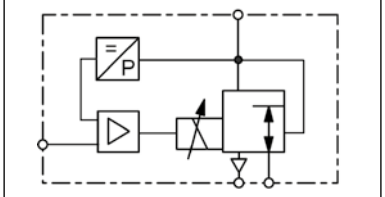
Description	The pneumatic proportional regulator controls the outlet pressure in proportion to an electrical command input signal. It comprises a complete closed loop servo system in a compact mono block assembly with proportional solenoid valve, electronic regulator and internal pressure transducer. The valve works as a slide valve and is designed for flow applications such as thermal cutting. 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, PR adapter and software. Data record can be saved and used for further valves. The valve has a constant bleed. At absence of input signal or supply voltage the valve exhausts.		
Software	Display: signal, outlet pressure, PID parameters, pressure switch signal etc.		
Scope function	view setpoint, outlet pressure, internal signals from PID control		
Media	dry, lubricated, unlubricated and 50 µm filtered compressed air or non-corrosive gases		
Supply voltage	24 V DC ± 10 V, residual ripple < 10%	**Power consumption**	14 W (810mA current consumption)
Signal range	0-10 V, 100 kΩ impedance 0/4-20 mA, 250 Ω impedance		
Electr. connection	plug M12x1, 5-pin (protection class IP65)	**Mounting position**	any, preferably solenoid on top
Accuracy	hysteresis: 0.5% FS	**Linearity/repeatability**	< ± 0.5% FS
Temp. range	fluid / ambient: 0 °C to 60 °C / 32 °F to 140 °F	**Material**	Body: aluminium Elastomer: NBR/Buna-N



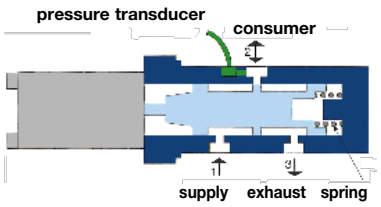
G⅜
0...6 bar/50 bar

Dimensions A mm	B mm	C mm	Nominal size DN	K_v-value (m^3/h)	Flow rate l/min*1	Supply max. bar	Connection thread G	Pressure range bar	Order number	E*
Proportional pressure regulator						0-10 V command signal, supply voltage 24 V DC, without M12 coupling socket			**PF**	
60	160	78	8	1,45	1700	12	G⅜	0... 6	**PF000-0600**	
						18		0... 10	**PF000-1000**	
						18		0... 16	**PF000-1600**	
						22		0... 20	**PF000-2000**	
						40		0... 30	**PF000-3000**	
						50		0... 40	**PF000-4000**	
						60		0... 50	**PF000-5000**	

PF

Special options, add the appropriate letter or number

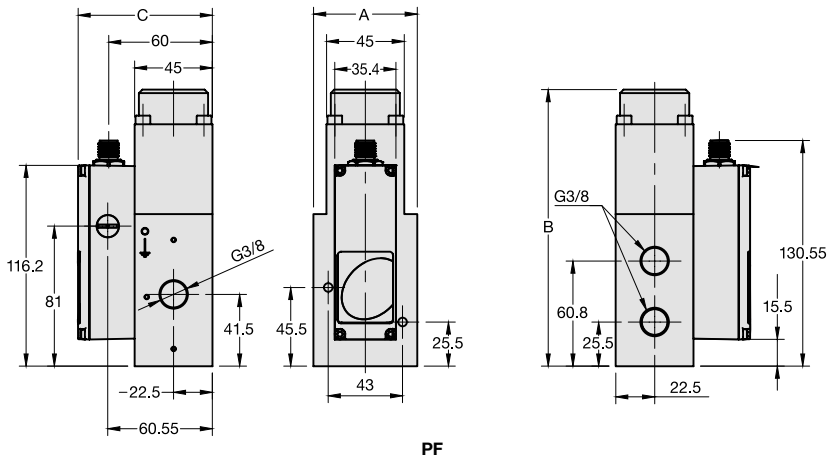
commmand signal	0-20 mA	PF . . **1**- . . . .
	4-20 mA	PF . . **2**- . . . .
monitor signal	0-10 V	PF . **1** . - . . . .
	4-20 mA	PF . **3** . - . . . .
deviant pressure range	indicate on order	PF . . . -**XX**. .
for oxygen	specially cleaned, FKM elastomers	PF . . . - . . **15**



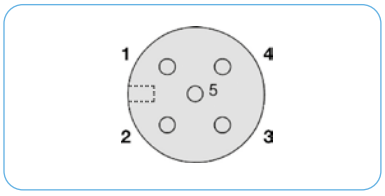
The position of the slide is continuously shifting according to command signal and pressure change at the outlet. Thereby a constant outlet pressure is achieved.

Accessories, enclosed

PR adapter	with USB plug and 1 m cable		**PDUSB**
software	basic version "light"		**PDSOFT1***2
coupling socket	M12x1, 5-pin, with 2 m cable, 5 x 0.25	angular	**KM12-C5-2**
	M12x1, 5-pin, with 5 m cable, 6 x 0.25	angular	**KM12-C5-5**



PF



view from solder pin side

pin	description	5-wire cable (2m)
1	24 V supply voltage	brown
2	analog input signal	white
3	supply ground	blue
	analog ground	
4	analog outlet signal	black
5	digital pressure switch signal	grey
housing	EMC shield	shield

connection diagram

*1 at 6 bar supply pressure and 5 bar outlet pressure
*2 You do not need any software to use the valve!

* Product group

PDF CAD
www.aircom.net

Order example:
PF000-0600