PROPORTIONAL PRESSURE REGULATOR FOR FLOW APPLICATIONS

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.

Accuracy

Temp. range

Software Display: signal, outlet pressure, PID parameters, pressure switch signal etc. Scope function

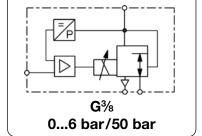
view setpoint, outlet pressure, internal signals from PID control

dy, lubricated, unlubricated and 50 μ m filtered compressed air or non-corrosive gases 24 V DC \pm 10 V, residual ripple < 10% **Power consumption** 14 W (810mA current consumption) Media Supply voltage Signal range Electr. connection

0-10 V, 100 kΩ impedance 0/4-20 mA, 250 Ω impedance plug M12x1, 5-pin (protection class IP65) Mounting position hysteresis: 0.5% FS Linearity/repeatabi

any, preferably solenoid on top Linearity/repeatability < ± 0.5% FS

fluid / ambient: 0 °C to 60 °C / 32 °F to 140 °F Body: aluminium Elastomer: NBR/Buna-N



	Dimensions		Nominal	nal K _v - Flow Supply		Connection	Pressure	Order			
1	4	В	С	size	value	rate	max.	thread	range	number	E*
m	m	mm	mm	DN	(m ³ /h)	l/min*1	bar	G	bar		

Proportional pressure regulator					ulator	0-10 V command signal, supply voltage 24 V DC, without M12 coupling socket			
60	160	78	8	1,45	1700	12	G¾	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

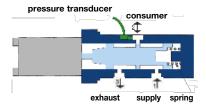


PF



Special options, add the appropriate letter or number

0-20 mA	PF 1
4-20 mA	PF 2
0-10 V	PF. 1
4-20 mA	PF. 3
indicate on order	PF -XX
specially cleaned, FKM elastomers	PF 15
	4-20 mA 0-10 V 4-20 mA indicate on order



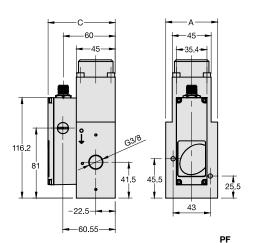
The position of the slide is continuously shifting according to command signal and pressure change at the outlet. Thereby a constant outlet pressure is achieved.

0

0 05 0

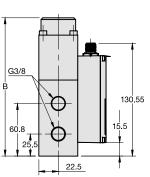
Accessories, enclosed

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



G3/8 130.55 60.8 22.5

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





view from solder pin side

connection diagram



