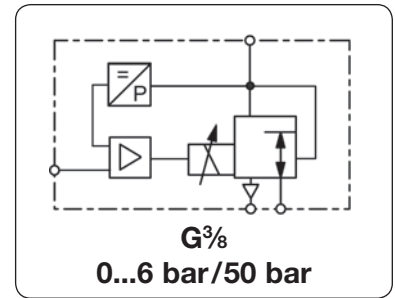


<b>Description</b>	The pneumatic proportional valve controls the outlet pressure in proportion to an electrical command input signal. It comprises a complete closed loop servo system in a compact mono block assembly with proportional solenoid valve, electronic regulator and internal pressure transducer. 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, RS232 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.		
<b>Software</b>	Display: signal, outlet pressure, PID parameters, pressure switch signal etc.		
<b>Scope function</b>	view setpoint, outlet pressure, internal signals from PID control		
<b>Media</b>	dry, lubricated, unlubricated and 50 µm filtered compressed air or non-corrosive gases		
<b>Supply voltage</b>	24 V DC ± 10 V, residual ripple < 10%	<b>Power consumption</b>	14 W (810mA current consumption)
<b>Signal range</b>	0-10 V, 100 kΩ impedance	<b>Impedance</b>	0/4-20 mA, 250 Ω impedance
<b>Electr. connection</b>	plug M12x1, 5-pin (protection class IP65)	<b>Mounting position</b>	any, preferably solenoid on top
<b>Accuracy</b>	hysteresis: 0.5% FS	<b>Linearity/repeatability</b>	< ± 0.5% FS
<b>Temp. range</b>	fluid / ambient: 0 °C to 60 °C / 32 °F to 140 °F	<b>Material</b>	Body: aluminium Elastomer: NBR/Buna-N



Dimensions	Nominal	K <sub>v</sub> -	Flow	Supply	Connection	Pressure	Order
A B C	size	value	rate	max.	thread	range	number
mm mm mm	DN	(m³/h)	l/min*1	bar	G	bar	

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	G <sup>3</sup> / <sub>8</sub>	0 ... 6 <b>PF000-0600</b>
						18		0 ... 10 <b>PF000-1000</b>
						18		0 ... 16 <b>PF000-1600</b>
						22		0 ... 20 <b>PF000-2000</b>
						40		0 ... 30 <b>PF000-3000</b>
						50		0 ... 40 <b>PF000-4000</b>
						60		0 ... 50 <b>PF000-5000</b>



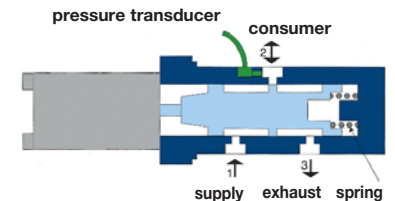
## Special options, add the appropriate letter or number

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

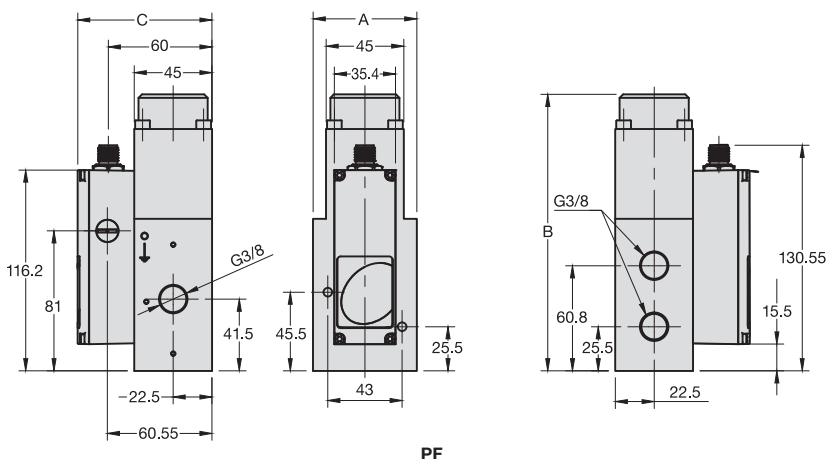


## Accessories

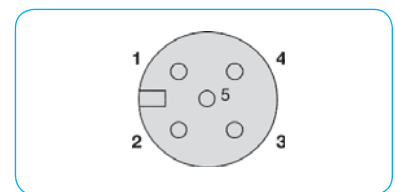
<b>RS232 module</b>	with 9-pin D-sub plug and 2 m cable	<b>PDRS232</b>
<b>software</b>	basic version "light"	<b>PDSOFT1</b>
<b>coupling socket</b>	M12x1, 5-pin, with 2 m cable, 5 x 0.25	angular <b>KM12-C5-2</b>
	M12x1, 5-pin, with 5 m cable, 6 x 0.25	angular <b>KM12-C5-5</b>



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.



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



pin	description	5-wire cable (2m)	6-wire cable (5m)
1	24 V supply voltage	brown	brown
2	analog input signal	white	white
3	supply ground	blue	green
4	analog ground		yellow
5	analog outlet signal	black	pink
6	digital pressure switch signal	grey	grey
housing	EMC shield	shield	shield

connection diagram

