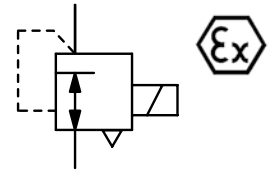


PROPORTIONAL PRESSURE REGULATOR WITH PIEZO ELEMENT AND ELECTRICAL FEEDBACK PT7

Description	The proportional pressure regulator translates a direct current or voltage signal into a linear proportional pneumatic outlet signal. With rapid response controls using low-powered piezo microelectronics, flapper nozzle and solid state control circuit. The proportional pressure regulator has internal electronic with an electrical feedback sensor and is housed in NEMA4X (IP65) enclosure with six outlet ranges, jumper selectable. Input and outlet ports on both ends of the body simplify pneumatic piping.		
Media	5 µm filtered compressed air or non-corrosive gases		
Supply voltage	7...30 V DC, 90 mW, required for 0...10 V setpoint input only, with reverse voltage protection		
Electrical connector	plug according to DIN 43650A, contact gap 18 mm, 3-pin, with coupling socket 30 x 30 mm		
Command signal	0...10 V / 10 kΩ, 3-pin, 24 V DC supply voltage, 4...20 mA / 330 Ω, two-wire, min. 7 V DC on input		
Failsafe	exhaust at power breakdown		
Linearity	< 0.25% FS		
Hysteresis	< 0.1% FS at 0.2...0.5 bar, otherwise < 0.25% FS		
Adjustment	Zero point: by 0.3 bar Range: 40% FS		
Temperature range	-40 °C to 70 °C / -40 °F to 158 °F		
Material	Body: chromated aluminium Nozzle: sapphire in nickel-plated brass plate		
	Response sensitivity	< 0.2% FS	
	Repeatability	< 0.1% FS	
	Vibration sensitivity	< 1% FS, for 10 g and 15...500 Hz	
	Mounting position	any	
	Protection class	IP 65	
	Elastomer:	NBR/Buna-N	
	Inner valve:	stainless steel, brass, zinc-plated steel	



**accurate to 0.25%
piezo-controlled**

Dimensions			Flow rate	Supply pressure	Command signal	Pressure range	Order number	E*
A	B	C						
mm	mm	mm	l/min*1	max. bar	V/mA	bar		

Proportional pressure regulator 0-10 V $\frac{1}{4}$ " NPT, air consumption 2...8 l/min subject to pressure range							PT780
57	95	13	250	8	0-10 V	0.2...1	PT780-B100
						0.2...2	PT780-B200
57	133	13	300	10	0-10 V	0...2	PT780-0200
						0...4	PT780-0400
						0...8	PT780-0800

Proportional pressure regulator 4-20 mA $\frac{1}{4}$ " NPT, air consumption 2...8 l/min subject to pressure range							PT782
57	95	13	250	8	4-20 mA	0.2...1	PT782-B100
						0.2...2	PT782-B200
57	133	13	300	10	4-20 mA	0...2	PT782-0200
						0...4	PT782-0400
						0...8	PT782-0800

Special options, change the appropriate number

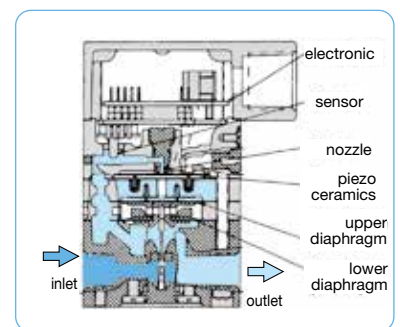
-i-Atex	Atex II 1G Ex ia IIB T4	4-20 mA only	PT782-...01
-d-Atex	Atex ds IIC T6	max. 2 bar	4-20 mA only PT782-...0E

Accessories, enclosed

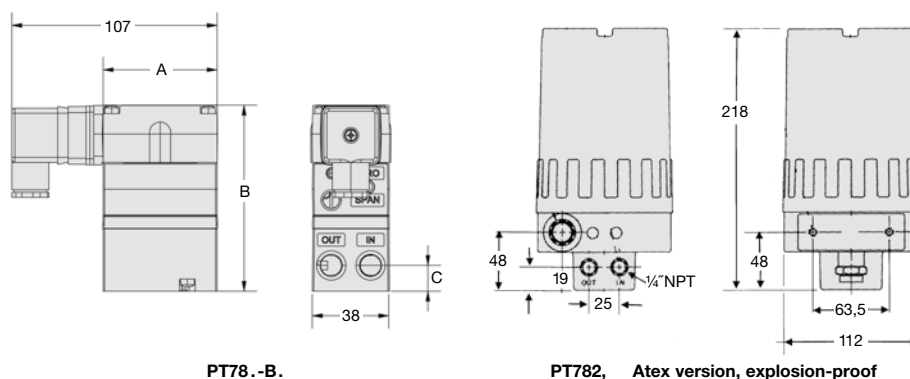
mounting bracket	made of steel, for standard version	SA-PT1
	made of plastic, for DIN rail	SA-PT2
mounting clip	made of steel, Atex version, explosion-proof	SA-PT3
isolate transmitter	Ex ia II C E/A: 0...20 mA, 24 V DC, EX 1-32	KFD2-CD



PT78.-0.



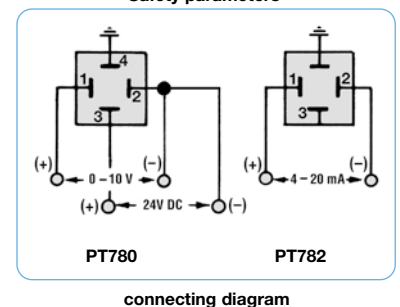
cross-section



*1 at 7 bar supply pressure and 1.4 bar outlet pressure

Parameter	max. Value
Voltage U_i	28 V
Current I_i	100 mA
Power P_i	700 mW
Inductance L_i	0 µH
Capacitance C_i	12 µF

Safety parameters



connecting diagram

* Product group

PDF CAD
www.aircom.net



Order example:
PT780-B100

Proport.
pressure
10