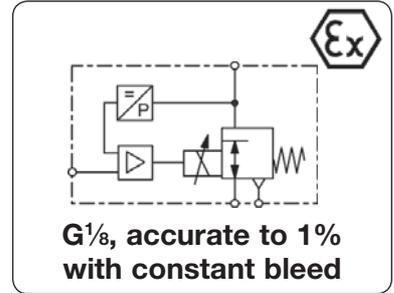


Piezo Proportional Pressure Regulator with ATEX approval

PCEX

Description	Piezo-operated proportional pressure valve with closed loop in a two-wire system. Outlet pressure is proportional to an electrical input signal. The valve can be mounted in any position and is immune to shock or vibration. It is pilot-controlled to reach a higher flow rate.		
Media	lubricated or unlubricated and 50 µm filtered compressed air or non-corrosive gases not necessary due to two-wire system (supply through 4...20 mA command signal)		
Supply voltage	Compliance with directive 94/9/EC for use in potentially explosive atmosphere of group IIC, temperature classification T4.		
Electrical connector	coupling socket, 4-pin according to DIN 43651, size 15 x 15 mm	connector turnable in 90° steps	
ATEX classification	Ignition protection type: II1G Ex ia IIC T4; II1D Ex D20 T135°C		
Power consumption	< 200 mW	Failsafe feature	exhaust at power breakdown
Linearity/Hysteresis	< 1% FS	Repeatability	< 0.5% FS
Mounting position	any	Protection class	IP 65
Air consumption	The pilot valve has an air consumption of 1.6 l/min		
Temperature range	Media: 0 °C to 60 °C / 32 °F to 140 °F	Ambient:	0 °C to 60 °C / 32 °F to 140 °F
Material	Body: aluminium and plastic	Elastomer:	NBR/Buna-N and FKM
	Inner valve: stainless steel and plastic		



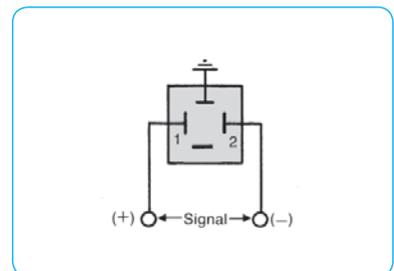
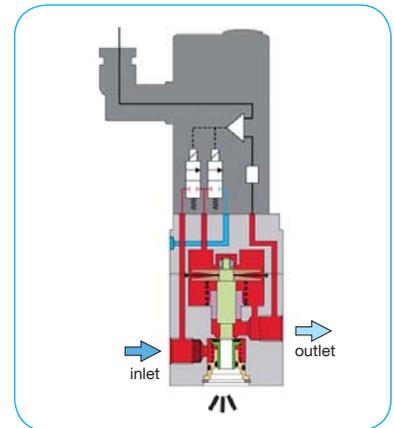
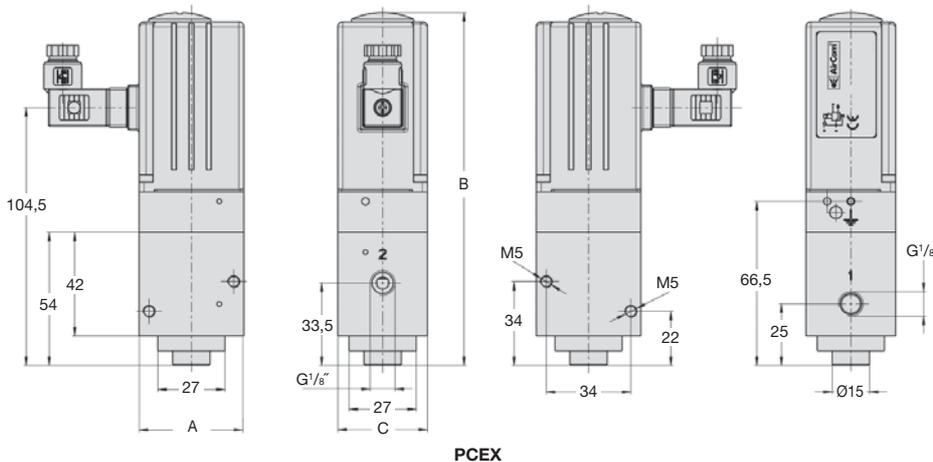
Dimensions			Nominal size	K _v -value	Flow rate	Supply min./max.	Connection thread	Pressure range	Order number
A	B	C	DN	(m ³ /h)	l/min*1	bar	G	bar	

Proportional pressure regulator									4-20 mA input signal, ATEX with coupling socket, with constant bleed	PCEX
42	143	36	4.0	0.5	550	2.5/3.0	G _{1/8}	0...2	PCEX-02	
						3.5/5.0		0...3	PCEX-03	
						4.5/6.0		0...4	PCEX-04	
						5.5/8.0		0...5	PCEX-05	
						6.5/8.0		0...6	PCEX-06	



PCEX

- 1: supply port
- 2: outlet port
- 3: exhaust



*1 at 6 bar supply pressure, 5 bar outlet pressure, equal exhaust forward flow

PDF CAD



Order example:
PCEX-02