0 °C to 60 °C / 32 °F to 140 °F NBR/Buna-N and FKM

Description

Piezo-operated proportional pressure regulator 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. Iubricated or unlubricated and 50 µm filtered compressed air or non-corrosive gases

Media

Supply voltage Electrical connector ATEX classification

Power consumption Linearity/Hysteresis Mounting position Air consumption Temperature range Material

not necessary due to two-wire system (supply through 4...20 mA command signal) coupling socket, 4-pin according to DIN 43650, size 15 x 15 mm connector turnable in 90° steps

Compliance with directive 2014/34/EU for use in potentially explosive atmosphere of group IIC, temperature classification T4. Ignition protection type: II1G Ex ia IIC T4; II1D Ex D20 T135°C

< 200 mW < 1% FS Failsafe feature Repeatability any **Protectic**The pilot valve has an air consumption of 1.6 l/min Protection class IP 65

Media: 0 °C to 60 °C / 32 °F to 140 °F Ambient: Body: aluminium and plastic Elastomer:

Inner valve: stainless steel and plastic

exhaust at power breakdown < 0.5% FS

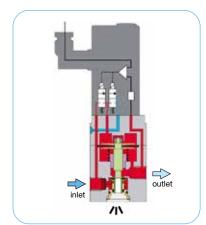
G1/8, accurate to 1% with constant bleed

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

Pro	porti	onal	press	ure re	gulate	or	4-20 mA in with coup	nput signal, ling socket,	ATEX with constant bleed	PCEX
42	143	36	4	0.5	550		/3.0	G1//8	02	PCEX-02
						3.5	/5.0		03	PCEX-03
						4.5	/6.0		04	PCEX-04
						5.5	/8.0		05	PCEX-05
						6.5	/8.0		06	PCEX-06



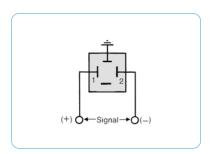
PCEX



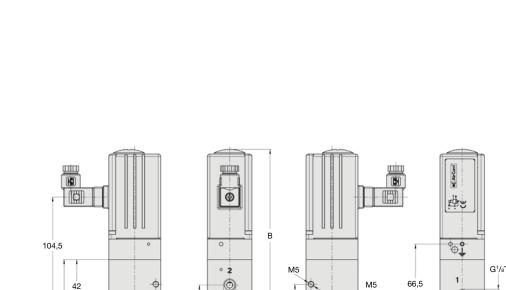
cross-section

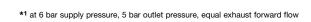
Parameter	max. Value			
Voltage Ui	30 V			
Current li	120 mA			
Power Pi	800 mW			
Inductance Li	0 μΗ			
Capacitance Ci	0 μF			





connection diagram





33.5

G1/8"

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C

PCEX



Ø15

25





Proport.

54

1: supply port

2: outlet port

3: exhaust