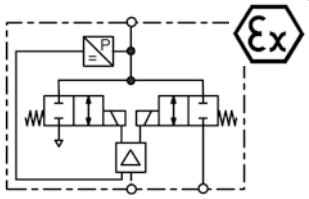
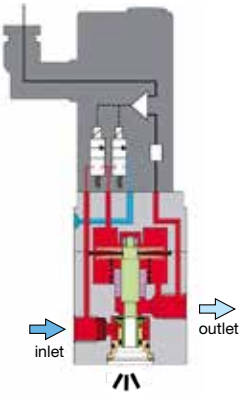
Description	Piezo-operated proportional pressure regulator with closed loop in a two-wire system. Outlet pressure is proportional to an electrical input signal. The valve can be mounted in any position and is immune to shock or vibration. It is pilot-controlled to reach a higher flow rate.
Media	lubricated or unlubricated and 50 µm filtered compressed air or non-corrosive gases
Supply voltage	not necessary due to two-wire system (supply through 4...20 mA command signal)
Electrical connector	coupling socket, 4-pin according to DIN 43651, size 15 x 15 mm connector turnable in 90° steps
ATEX classification	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
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



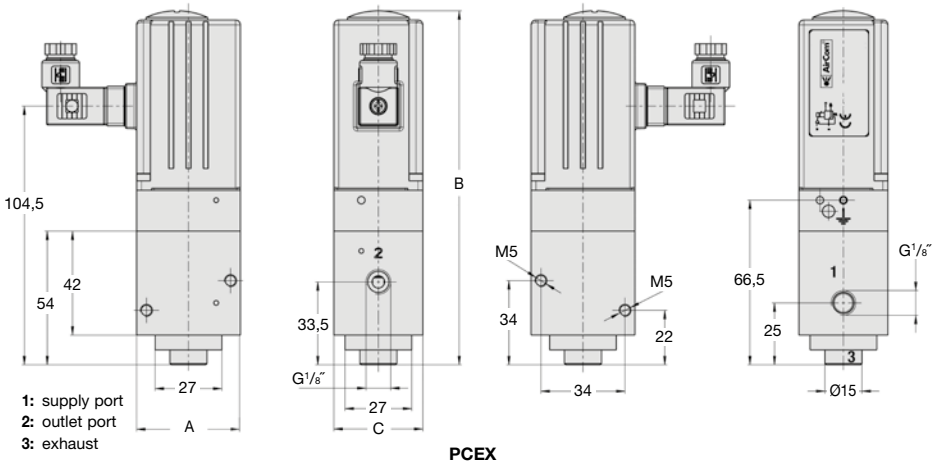
G⅛, accurate to 1% with constant bleed

Dimensions A mm	B mm	C mm	Nominal size DN	K_v-value (m^3/h)	Flow rate l/min*1	Supply min./max. bar	Connection thread G	Pressure range bar	Order number	E*
Proportional pressure regulator 4-20 mA input signal, ATEX with coupling socket, with constant bleed									**PCEX**	
42	143	36	4	0.5	550	2.5 / 3.0	G⅛	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**	

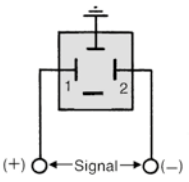
PCEX



cross-section



PCEX



connection diagram

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