

Features

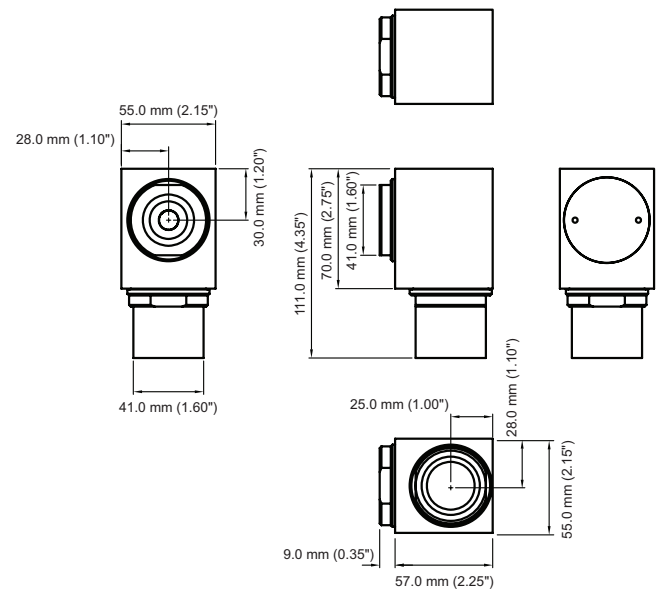
- Pressure relief vent with spark arrestor
- Mount inside or outside the enclosure
- Mechanical, no cables to connect
- Certified for use with the 5000Q control unit

Function

The 5000Q series Ex pz purge and pressurization system allows general-purpose equipment to be mounted in enclosures and operate safely in Zone 2 or Zone 22 hazardous areas. The EPV-5000Q vent allows the purge gas to exit the enclosure but provides a seal when the enclosure is pressurized and operating. The vent also has a spark arrestor, a requirement for hazardous areas.

The EPV-5000Q vent works with the 5000Q control unit and is ATEX certified for Zone 2 or Zone 22 applications.

Assembly



BEBCO EPS®

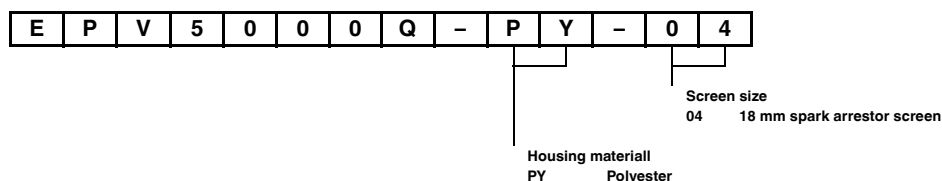
Connection

General specifications	
Series	5000Q
Number of volume exchanges	min. 5
Hazardous environment	gas or dust
Pneumatic parameters	
Protective gas supply	instrument grade air or inert gas
Maximum pressure	25 mbar (10" H ₂ O)
Safe pressure	- gas 0.25 mbar (0.1" H ₂ O) (Zone 2) - dust 0.5 mbar (0.2" H ₂ O) (Zone 22)
Purge flow and enclosure pressure rate	- for 3.0 mm orifice at 2 bar (29 psig): 105 l/min, 8 ... 10 mbar - for 4.5 mm orifice at 2 bar (29 psig): 220 l/min, 8 ... 10 mbar
Flow rate for leakage compensation	0.3 l/min typ. (enclosure pressure at 1 mbar, depends on enclosure seal)
Breaking pressure	3 mbar (1.2" H ₂ O)
Conformity	
Degree of protection	EN 60529
Shock resistance	EN 60068-2
Ambient conditions	
Ambient temperature	-20 ... 60 °C (-4 ... 140 °F)
Storage temperature	-20 ... 60 °C (-4 ... 140 °F)
Relative humidity	5 ... 95 %, noncondensing
Vibration resistance	5 ... 100 Hz , 1 g, 12 m/s ² , all axes
Impact resistance	30 g, 11 ms, all axes
Mechanical specifications	
Material	
Housing	polyester
Spark arrestor	Stainless steel (multi screen)
Installation	- any orientation to enclosure - not gravity dependent - internal and external mounting possible
Mass	approx. 320 g (0.7 lb)
Dimensions	66 x 111 x 55 mm (2.6 x 4.4 x 2.2 in)
Mounting	mounting hole 37 mm with locking ring
Data for application in connection with Ex-areas	
EC-Type Examination Certificate	EPS 10 ATEX 1263 , for additional certificates see www.pepperl-fuchs.com
Group, category, type of protection, temperature class	⊕ II 3 G Ex nA nC [pz] II T4 -20 °C to +60 °C ⊕ II 3 G Ex nA nC [pz] II T6 -20 °C to +40 °C ⊕ II 3 D Ex tD A22 [pD] IP64 T70°C
Directive conformity	
Directive 94/9/EC	EN 60079-0:2006 , EN 60079-2:2007 , EN 60079-15:2005 , EN 61241-0:2004 , EN 61241-1:2004 , EN 61241-4:2006
General information	
Supplementary information	EC-Type Examination Certificate, Statement of Conformity, Declaration of Conformity, Attestation of Conformity and instructions have to be observed where applicable. For information see www.pepperl-fuchs.com .

Accessories

Control unit:	5000Q-02-*	required
Digital valve:	5000Q-DV-*	optional
Regulator:	5000Q-PRE-*	optional

Type code/model number



Release date 2015-01-20 21:47 Date of issue 2015-01-20 514731_eng.xml

Refer to "General Notes Relating to Pepperl+Fuchs Product Information".