

Features

- Pressure relief vent with flow and pressure monitoring at the exhaust
- Universal mounting in any orientation
- 6000 Control Unit supports 2 vents
- Enclosure volume up to 7.1 m³ (250 ft³) per vent

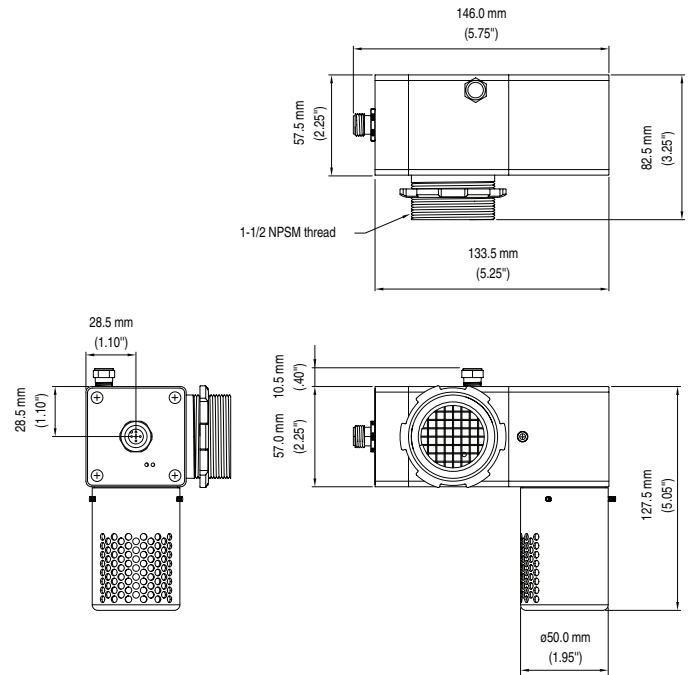
Function

The EPV-6000 vent exhausts excess pressure from the enclosure and measures flow and pressure during operation. The 6000 series vent has a pressure transducer and thermal flow sensor that is connected to the 6000 EPCU. It is intrinsically safe through the galvanic isolation barrier within the 6000 EPCU.

Because measurement of the flow is always at the exhaust of the pressurized enclosure, the vent is located on the enclosure(s) such that it is venting to the atmosphere. The EPV-6000 vent can be mounted vertically or horizontally and is not gravity dependent.

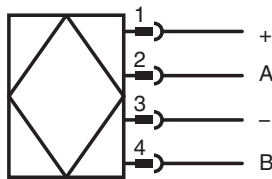
The EPV-6000 vent can be mounted externally or internally to the enclosure. When mounting internally, only the vent cap is exposed to the outside atmosphere.

Assembly

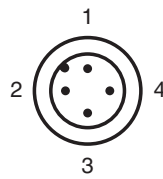


BEBCO EPS®

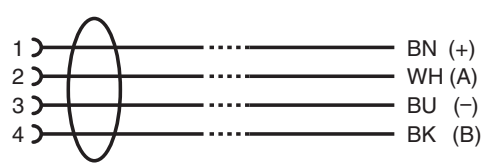
Connection



EPV-6000-**-**



Cordset, M12, 4-pin, shielded



6000-**-S2-**-AC

Release date 2014-12-11 15:20 Date of issue 2014-12-11 514686_eng.xml

General specifications	
Series	6000 Series
Number of volume exchanges	4 to 19
Hazardous environment	gas, dust, gas and dust
Electrical specifications	
Connection	
Power	Intrinsically Safe back to 6000 control unit
Signal	BUS back to 6000 control unit
Connection	M12 connector, 4-pin
Indicators/settings	
LED indicator	power: green vent number: yellow, on for second vent
Pneumatic parameters	
Protective gas supply	instrument grade air or inert gas
Safe pressure	Gas: 0.25" wc (6.4 mm wc) (0.625 mbar) (62 Pa) Dust: 0.65" wc (16.5 mm wc) (1.6 mbar) (162 Pa) Gas and Dust: 0.65" wc (16.5 mm wc) (1.6 mbar) (162 Pa)
Enclosure pressure	0 ... 9.9" wc (25 mbar) (250 mm wc)
Max. enclosure pressure	25" wc (62 mbar) (625 mm wc)
Purge flow rate	Maximum flow rate measurement for enclosure size (enclosure volume:flow rate): < 20 ft ³ (0.57 m ³): 5, 12 SCFM (141, 340 l/min), or dynamic 20 ... 30 ft ³ (0.57 ... 0.85 m ³): 5, 12, 20 SCFM (141, 340, 565 l/min), or dynamic > 30 ft ³ (0.85 m ³): 5, 12, 20, 30 SCFM (141, 340, 565, 850 l/min), or dynamic
Purge flow and enclosure pressure rate	EPV-6000-xx-01, EPV-6000-xx-02 5 SCFM @ 1.3" wc, (141 l/min @ 33 mm wc) (3.3 mbar) (324 Pa) 12 SCFM @ 2.5" wc, (340 l/min @ 64 mm wc) (6.3 mbar) (623 Pa) 20 SCFM @ 3.2" wc, (565 l/min @ 80 mm wc) (8.0 mbar) (800 Pa) 30 SCFM @ 3.6" wc, (850 l/min @ 90 mm wc) (9.0 mbar) (900 Pa) Minimum purge time = 2 min EPV-6000-xx-03, EPV-6000-xx-04 5 SCFM @ 2.1" wc, (141 l/min @ 52.5 mm wc) (5.3 mbar) (525 Pa) 12 SCFM @ 2.7" wc, (340 l/min @ 67.5 mm wc) (6.8 mbar) (675 Pa) 20 SCFM @ 3.9" wc, (565 l/min @ 97.5 mm wc) (9.8 mbar) (975 Pa) Minimum purge time = 2 min
Flow rate for leakage compensation	EPV-6000-xx-01, EPV-6000-xx-02 0.6 SCFH (17 l/hr) @ 0.25" (0.63 mbar) 12 SCFH (339 l/hr) @ 0.75" (1.9 mbar) depends on enclosure seal EPV-6000-xx-03, EPV-6000-xx-04 0.1 SCFH (2.8 l/hr) @ 0.25" (0.63 mbar) 1 SCFH (28 l/hr) @ 0.75" (1.9 mbar) depends on enclosure seal
Breaking pressure	EPV-6000-xx-01, EPV6000-xx-02: 0.8" wc (2.0 mbar) EPV-6000-xx-03, EPV6000-xx-04: 1.3" to 1.4" wc (3.2 to 3.5 mbar)
Ambient conditions	
Ambient temperature	-20 ... 60 °C (-4 ... 140 °F)
Storage temperature	-30 ... 80 °C (-22 ... 176 °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	EPV-6000-AA-.... 6063T6 anodized aluminum EPV-6000-SS-.... Cap: 316L (UNS S31603) stainless steel; Body: 6063T6 anodized aluminum
Spark arrestor	304 (UNS S30400) stainless steel
Installation	- any orientation to enclosure - not gravity dependent - internal and external mounting possible
Mass	approx. 1.4 kg (3.1 lb)
Dimensions	127.5 x 146 x 82.5 mm (5.05 x 5.75 x 3.25 in)
Mounting	1 1/2" NPT knockout (50.8 mm (2") hole) with sealed nut
Data for application in connection with Ex-areas	
EC-Type Examination Certificate	
Group, category, type of protection, temperature class	II 2 GD Ex d [ib px] IIC T4 tD A21 IP6X T60 °C Sira 09ATEX9337X
Directive conformity	

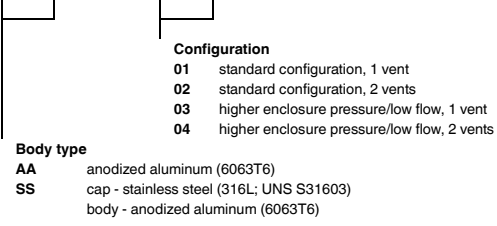
Release date 2014-12-11 15:20 Date of issue 2014-12-11 514686_eng.xml

Directive 94/9/EC	<p>EN 60079-0:2006 EN 60079-1: 2004 with Corrigendum April 2006 EN 60079-11:2007 EN 60079-2: 2004 with Corrigendum April 2006 EN 60529:1991 + A1:2000 EN 61241-0:2004 EN 61241-1:2004</p>
International approvals	
UL approval	<p>cULus Class I, Division 1, Groups A, B, C, D Class I, Zone 1, Groups IIC T4 Intrinsically safe when installed per 116-013UL-12 [Ex i] Associated Equipment Ex d [ib px] IIC T4 -20 °C ≤ TA ≤ 60 °C</p>
CSA approval	<p>cCSAus Class I, Division 1, Groups A, B, C, D T4 Class I, Zone 1, Groups IIC T4 Intrinsically safe when installed per 116-013UL-12 [Ex i] Associated Equipment Class II, Groups E, F, G, Class III Ex tD 21 T60 °C AEx tD 21 T60 °C -20 °C ≤ TA ≤ 50 °C</p>
IECEX approval	<p>Ex d [ib px] IIC T4 tD A21 IP6X T60 °C IECEX CSA09.0007X</p>
General information	
Supplementary information	<p>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.</p>

Release date 2014-12-11 15:20 Date of issue 2014-12-11 514686_eng.xml

Type code/model number

E	P	V	-	6	0	0	0	-	A	A	-	0	1
---	---	---	---	---	---	---	---	---	---	---	---	---	---



- Configuration**
- 01 standard configuration, 1 vent
 - 02 standard configuration, 2 vents
 - 03 higher enclosure pressure/low flow, 1 vent
 - 04 higher enclosure pressure/low flow, 2 vents

- Body type**
- AA anodized aluminum (6063T6)
 - SS cap - stainless steel (316L; UNS S31603)
body - anodized aluminum (6063T6)

Release date 2014-12-11 15:20 Date of issue 2014-12-11 514686_eng.xml

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

Pepperl+Fuchs Group
www.pepperl-fuchs.com

USA: +1 330 486 0002
pa-info@us.pepperl-fuchs.com

Germany: +49 621 776 2222
pa-info@de.pepperl-fuchs.com

Singapore: +65 6779 9091
pa-info@sg.pepperl-fuchs.com