

6100 series vent

EPV-6100-MP-*



- Maximum flow rate of 14,000 l/min
- Intrinsically safe when connected to 6100 control unit

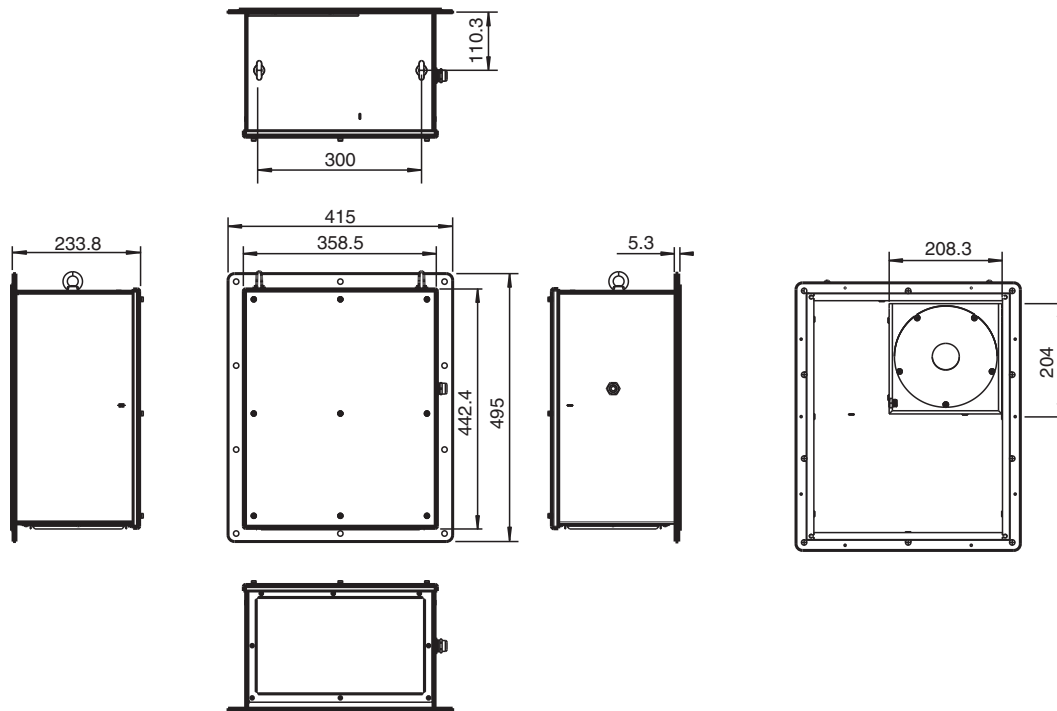
6100 series purge and pressurization enclosure protection vent



Function

The EPV-6100 vent/pressure relief device exhausts excess pressure from the motor/enclosure. The vent's pressure switch monitors the differential pressure across the vent orifice during the purging cycle. The differential pressure is used to determine the flow through the vent. The pressure switch is connected to the 6100 EPCU. It is intrinsically safe through the galvanic isolation barrier within the 6100 EPCU.

Dimensions



Technical Data

General specifications	
Series	6100 Series
Hazardous environment	gas
Electrical specifications	
Connection	
Power	Intrinsically safe connection to the 6100 control unit

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

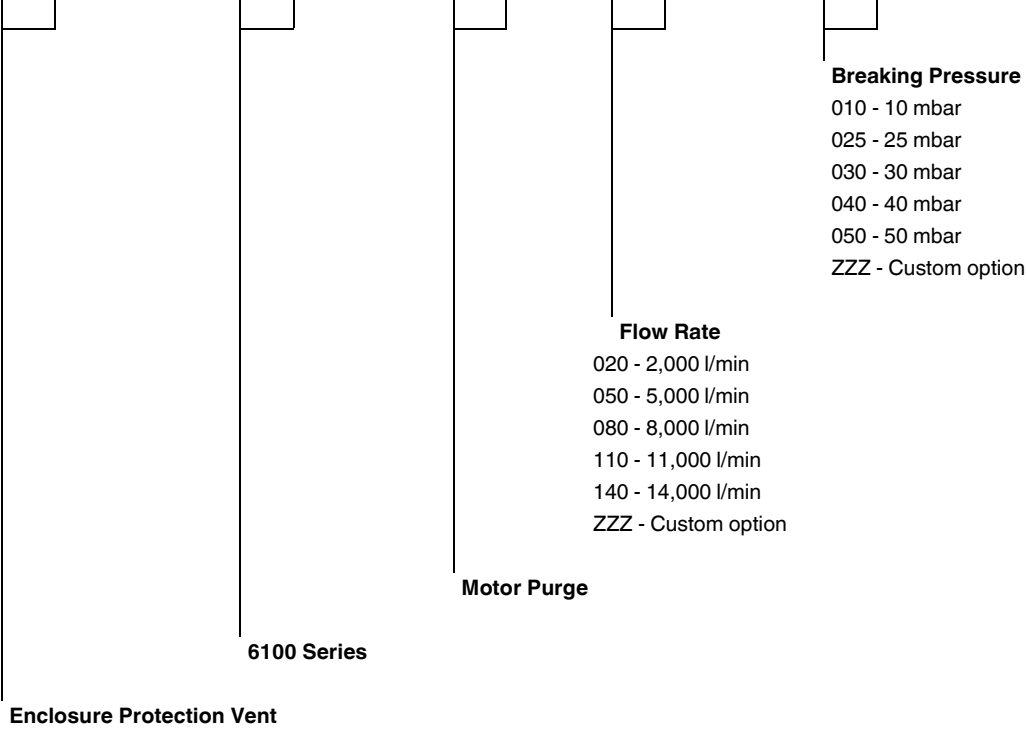
Technical Data

Signal	2-wire intrinsically safe pressure switch
Connection	2-wire
Pneumatic parameters	
Protective gas supply	Clean air or inert gas
Safe pressure	0.625 mbar [0.25 in wc / 6.4 mm wc)
Enclosure pressure	0 ... 50 mbar (0 ... 20.1 in wc / 0 ... 510.5 mm wc)
Purge flow and enclosure pressure rate	EPV-6100-MP-020: 2000 l/min at approximately 11.5 mbar (70.6 cfm at approximately 4.6 in wc) EPV-6100-MP-050: 5000 l/min at approximately 32.5 mbar (176.5 cfm at approximately 13.1 in wc) EPV-6100-MP-080: 8000 l/min at approximately 30.5 mbar (282.4 cfm at approximately 12.3 in wc) EPV-6100-MP-110: 11000 l/min at approximately 26.5 mbar (388.3 cfm at approximately 10.6 in wc) EPV-6100-MP-140: 14000 l/min at approximately 25.5 mbar (494.2 cfm at approximately 10.2 in wc)
Flow rate for leakage compensation	depends on enclosure seal based on completely sealed enclosure
Breaking pressure	Approx. 10 mbar (4.0 in wc) Approx. 25 mbar (10.0 in wc) Approx. 30 mbar (12.1 in wc) Approx. 40 mbar (16.1 in wc) Approx. 50 mbar (20.1 in wc)
Directive conformity	
Electromagnetic compatibility	
Directive 2014/30/EU	EN 61326-1:2013
RoHS	
Directive 2011/65/EU (RoHS)	EN 50581:2012
Ambient conditions	
Ambient temperature	-20 ... 60 °C (-4 ... 140 °F)
Storage temperature	-20 ... 80 °C (-4 ... 176 °F)
Relative humidity	5 ... 95 %, noncondensing
Vibration resistance	EN 60068-2-6
Impact resistance	EN 60068-2-27
Mechanical specifications	
Material	316L stainless steel (housing)
Installation	-gravity dependent -air outlet, screen side must be facing down
Mass	17 kg (37 lb)
Data for application in connection with hazardous areas	
Certificate	CML 19 ATEX 1425X
Marking	Ⓔ II2G Ex db eb ib [ib Gb][pxb Gb] IIC T4 Gb
Directive conformity	
Directive 2014/34/EU	EN IEC 60079-0:2018 EN 60079-1:2014 EN 60079-2:2014 EN 60079-7:2015 EN 60079-11:2012
International approvals	
IECEx approval	IECEx CML 19.0156X Ex db eb ib [ib Gb][pxb Gb] IIC T4 Gb
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 . Supplemental Standards : EN 61010-1:2010

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Type Code

E	P	V	-	6	1	0	0	-	M	P	-	0	2	0	-	0	5	0
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