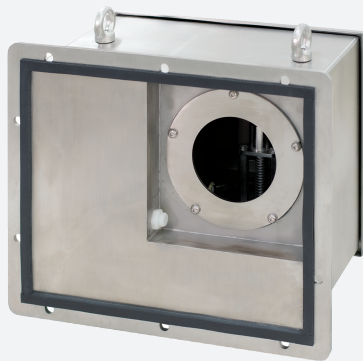




6100 Series Mini Vent

BEBCO EPS*

EPV-6100-MPM-*

- Flow rate: 2,000 ... 6,000 l/min
- Intrinsically safe when connected to 6100 control unit
- Compact footprint

6100 series purge and pressurization enclosure protection mini vent



Function

The Motor Purge Mini Vent pressure relief device exhausts excess pressure from the motor/enclosure. It features a pressure switch that monitors the differential pressure across the vent orifice during the purging cycle. The differential pressure is used to verify 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.

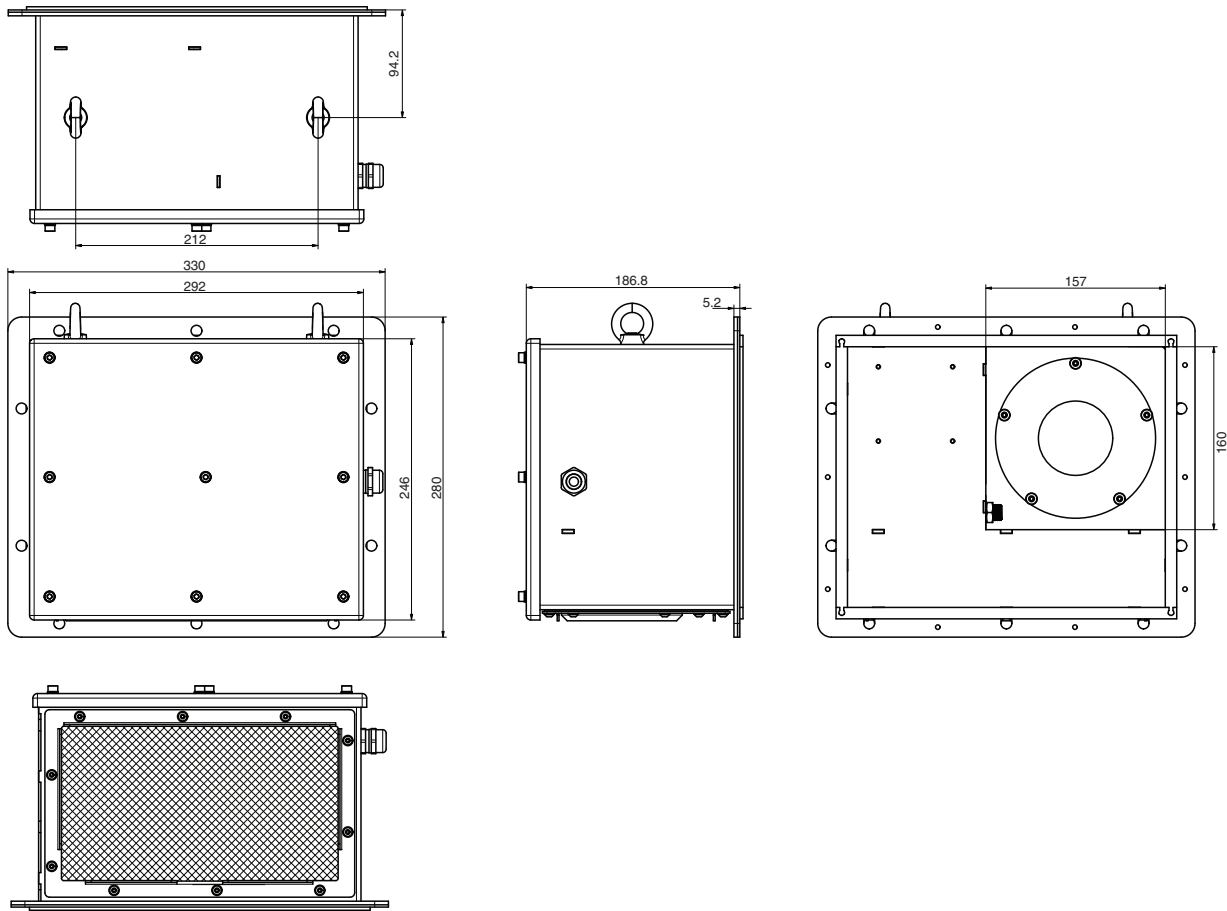
Operation

Purge Pressure & Flow Rate Table (Mini Vent)													
Model Number		EPV-6100-MPM-020-XXX		EPV-6100-MPM-250-XXX		EPV-6100-MPM-300-XXX		EPV-6100-MPM-400-XXX		EPV-6100-MPM-500-XXX		EPV-6100-MPM-600-XXX	
Purge Flow, L/m		2000		2500		3000		4000		5000		6000	
Model Number, EPV-6100-MPM-XXX-XXX	BP (mbar)	Purge Pressure (mbar)	Peak Pressure of Enclosure (mbar)	Purge Pressure (mbar)	Peak Pressure of Enclosure (mbar)	Purge Pressure (mbar)	Peak Pressure of Enclosure (mbar)	Purge Pressure (mbar)	Peak Pressure of Enclosure (mbar)	Purge Pressure (mbar)	Peak Pressure of Enclosure (mbar)	Purge Pressure (mbar)	Peak Pressure of Enclosure (mbar)
XXX-010	10	11.9	11.9	12.2	12.2	13.0	13.0	13.3	13.3	13.3	13.4	14.0	14.0
XXX-015	15	16.7	16.7	17.3	17.3	17.7	17.7	--	--	--	--	--	--
XXX-020	20	21.2	22.4	23.3	23.3	23.1	23.2	19.5	22.0	18.7	22.0	19.2	22.0
XXX-030	30	33.7	33.7	34.1	34.1	37.2	37.2	34.2	34.2	33.5	34.0	33.5	34.0
XXX-040	40	41.7	42.9	42.0	42.9	44.2	44.7	39.8	42.3	39.9	42.3	39.9	42.3

Note: Breaking and purge pressures shown above are approximate values.

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

Dimensions



Technical Data

General specifications		
Series		6100 Series
System		Ex pxb Purge
Hazardous environment		gas
Electrical specifications		
Connection		
Power		Intrinsically safe connection to the 6100 control unit
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)
Flow rate for leakage compensation		depends on enclosure seal based on completely sealed enclosure
Breaking pressure		Approx. 10 mbar (4.0 in wc) Approx. 15 mbar (6.0 in wc) Approx. 20 mbar (8.0 in wc) Approx. 30 mbar (12.1 in wc) Approx. 40 mbar (16.1 in wc)
Directive conformity		
Electromagnetic compatibility		
Directive 2014/30/EU		EN 61326-1:2013
RoHS		

Release date: 2024-11-18 Date of issue: 2024-11-18 Filename: t221366_eng.pdf

Technical Data

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		9 kg (20 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

Type Code

Structure of the type code

(1)	
1	Model
EPV	Enclosure Protection Vent
2	Series
6100	6100 Series
3	Device Variant
MPM	Ex pxb Motor Purge Mini-Vent
4	Flow Rate
020	2,000 l/min*
025	2,500 l/min*
030	3,000 l/min*
040	4,000 l/min
050	5,000 l/min
060	6,000 l/min
ZZZ	Custom option
5	Breaking Pressure
010	10 mbar
015	15 mbar
020	20 mbar
030	30 mbar
040	40 mbar*
ZZZ	Custom option

*Lower flows are not available at higher breaking pressures.