

Системы повышения давления и продувки корпуса типа Y и Z серий 3003, 3004

Технические характеристики

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Улан-Удэ (3012)59-97-51
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Type Y & Z purge and pressurization system

3003

BEBCO EPS®



- NFPA 496, ISA 12.4
- Optional alarm output indicates air lock failure
- Optional differential pressure switch for Class I, Group A-D, hazardous area locations
- Type Y system certified for Class I, Division 1 to Division 2
- Type Z system certified for Class I, Division 2 to nonhazardous area
- Enclosure volume up to 2.54 m³ (90 ft³)

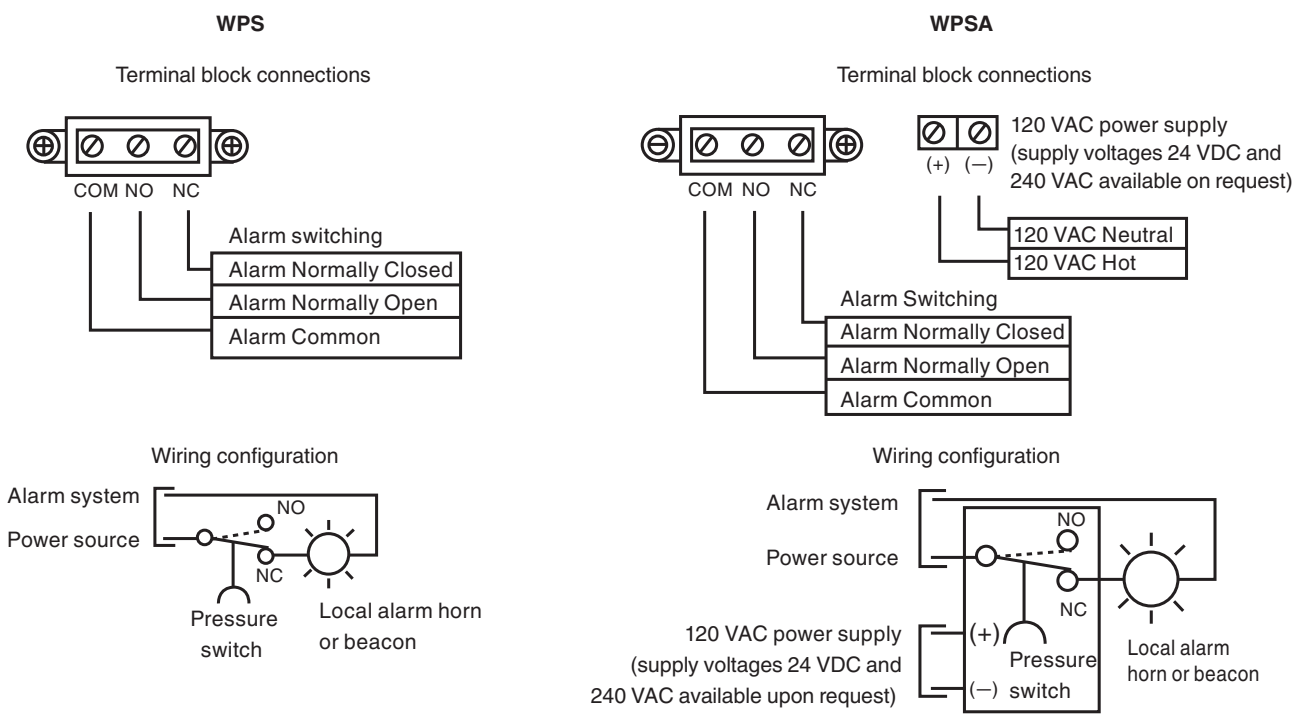
3003 Series purge and pressurization system



Function

The model 3003 is a Rapid Exchange®- purging system that operates on a supply of compressed instrument air or inert gas. The system regulates and monitors pressure within sealed protected enclosure(s), in order to remove and prevent flammable gas or vapor accumulations. The system accomplishes the required volume exchanges and maintains a safe pressure. A Pepperl+Fuchs Model EPV-3 enclosure protection vent is required for proper operation. This process reduces the hazardous (classified) area rating within protected enclosure(s), in accordance with the NEC - NFPA 70, NFPA 496, ISA 12.4.

Connection



Technical Data

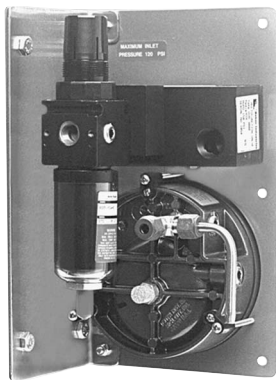
General specifications	
Series	3003 Series
System	Type Y Purge , Type Z Purge

Technical Data

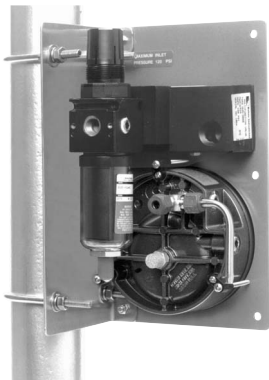
Hazardous environment	gas
Electrical specifications	
Connection	Terminal blocks
Output	
Output I	-WPS-
Output type	Switch contacts
Contact loading	120 VAC @ 15 A
Output II	-WPSA-
Output type	Switch contacts
Contact loading	120/220 VAC; 24 VDC @ 10 A; 125 VDC @ 50 mA power requirements: 24 / 120 / 240 VDC @ 3 / 4 / 11 watts
Pneumatic parameters	
Protective gas supply	instrument grade air or inert gas
Pressure requirement	80 - 120 psi (5.5 - 8.3 bar)
Safe pressure	Setpoint: 0.25" (6.35 mm) Flow rate: 0.1 - 3.5 SCFH (2.8 - 99 l/hr)
Purge flow and enclosure pressure rate	12 SCFM /720 SCFH (340 l/m / 20390 l/hr) (With regulator set to 60 psi min. during exchange)
Operating conditions	
Process conditions	
Exchange time	4 volume exchange rate: 1 min / 3.0 ft ³ (85 l/min) 5 volume exchange rate: 1 min / 2.4 ft ³ (68 l/min)
Ambient conditions	
Ambient temperature	-29 ... 49 °C (-20.2 ... 120.2 °F)
Mechanical specifications	
Connection type	System supply port: 1/4" FPT Enclosure supply port: 1/2" FPT Enclosure reference fitting: 1/4" tube Switch conduit port size: 1/2" FPT
Material	Regulator body: zinc w/enamel finish Regulator handle & bowl: polycarbonate Enclosure pressure gauge: alum. w/enamel finish Rapid Exchange® gauge: poly & nickel plated Tube fitting: 316 SS forged body Tubing: 316 SS 1/4" .035 welded Fastener hardware: alum. & stainless steel System face plate: 316 14 ga #3 brush SS System mounting flange: 316 SS tumble finish Manifold body: anodized aluminum Manifold valves: 316 SS Mfr. ID nameplate: silkscreen Lexan®
Mass	3003-LPS* 4.5 kg (10 lb) 3003-WPS* 6.8 kg (15 lb)
International approvals	
FM approval	Type Y LPS: Class I, Division 1, Groups A, B, C, D WPS: Class 1, Division 1, Groups C, D WPSA: Class I, Division 1, Groups A, B, C, D Type Z LPS: Class I, Division 2, Groups A, B, C, D WPS: Class 1, Division 2, Groups C, D WPSA: Class I, Division 2, Groups A, B, C, D
UL approval	
cULus	Type Y LPS: Class I, Division 1, Groups A, B, C, D WPS: Class 1, Division 1, Groups C, D WPSA: Class I, Division 1, Groups A, B, C, D Type Z LPS: Class I, Division 2, Groups A, B, C, D WPS: Class 1, Division 2, Groups C, D WPSA: Class I, Division 2, Groups A, B, C, D

Mounting

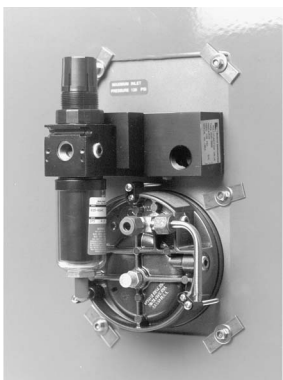
VM configuration mounting options



Model 3003-LPS-CI-YZ-VML
Flange mounted to flat vertical
surface with Model SMK-1
fastener kit

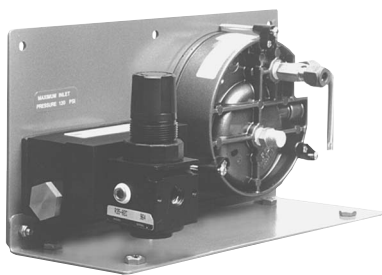


Model 3003-LPS-CI-YZ-VML
Flange mounted to vertical
2" pipe stand with
Model PMK-1 fastener kit



Model 3003-LPS-CI-YZ-VM
Frame or panel* mounted
through cutout in suitable surface
with Model SMK-6m

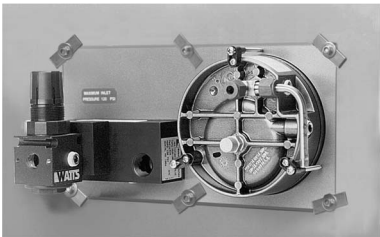
HM configuration mounting options



Model 3003-LPS-CI-YZ-HMT
Flange mounted to flat horizontal
surface with Model SMK-1 fastener kit

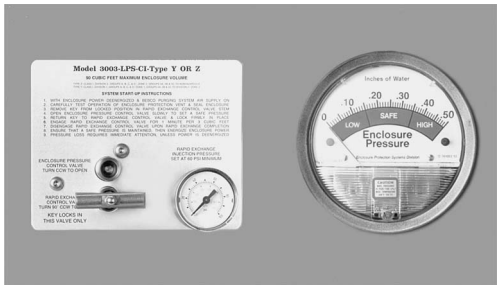


Model 3003-LPS-CI-YZ-HMB
Flange mounted to horizontal 2" pipe
stand with Model PMK-1 fastener kit

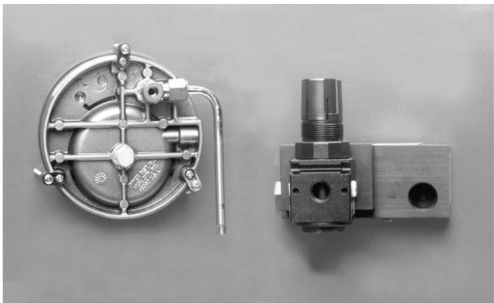


Model 3003-LPS-CI-YZ-HM
Frame or panel* mounted through
cutout in suitable surface with
Model SMK-6m fastener kit

CK configuration mounting options



Front view



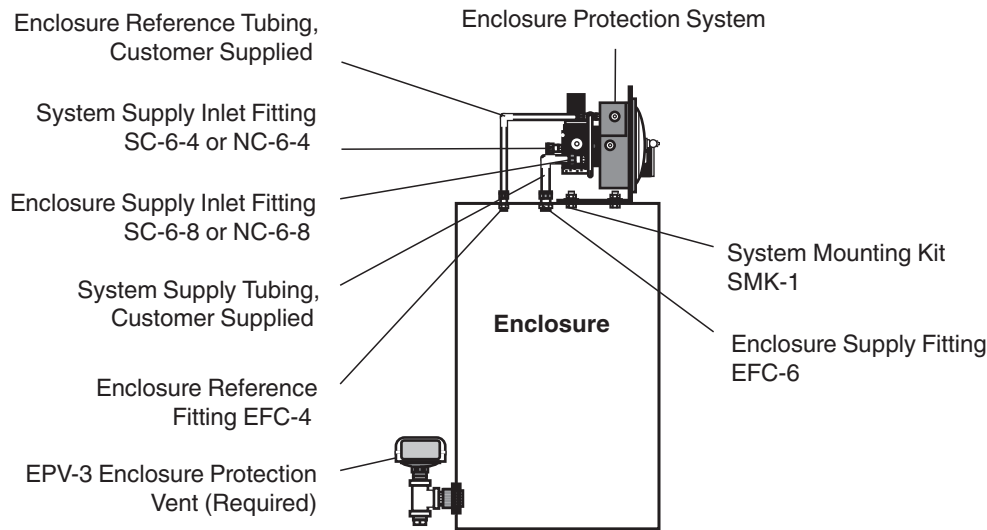
Rear view

Model 3003-LPS-CI-YZ-CK
Rear view of frame or panel* mount through cutout in suitable surface with
supplied fasteners

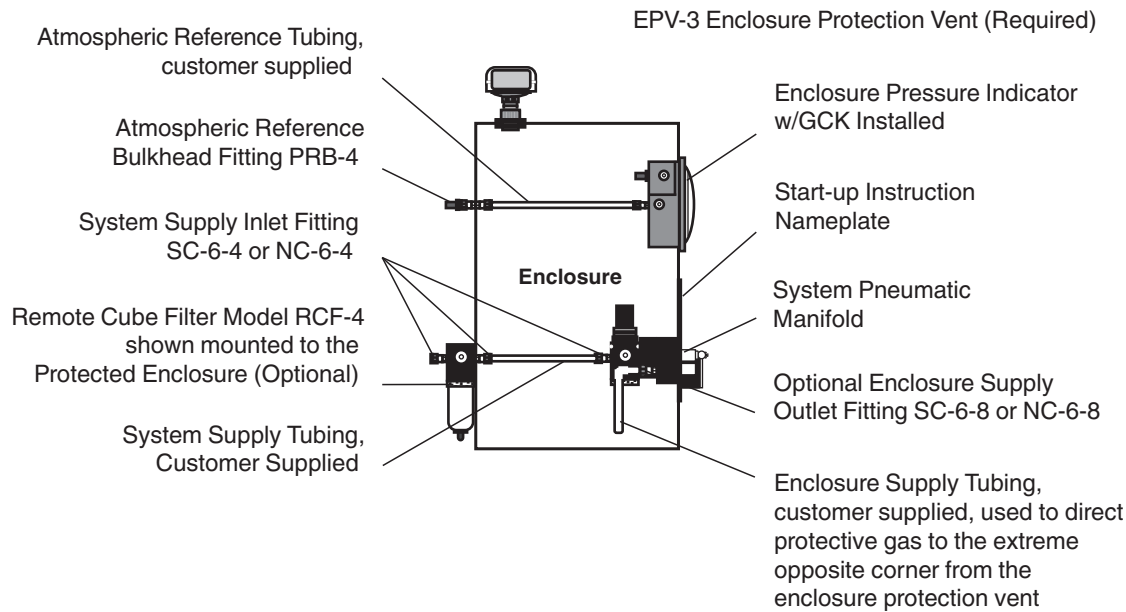
Additional Information

Assembly

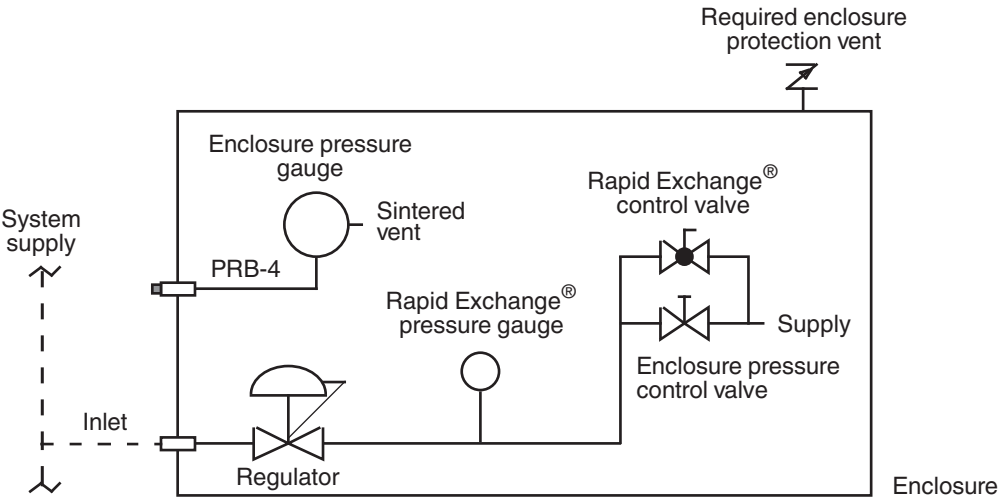
External Mount



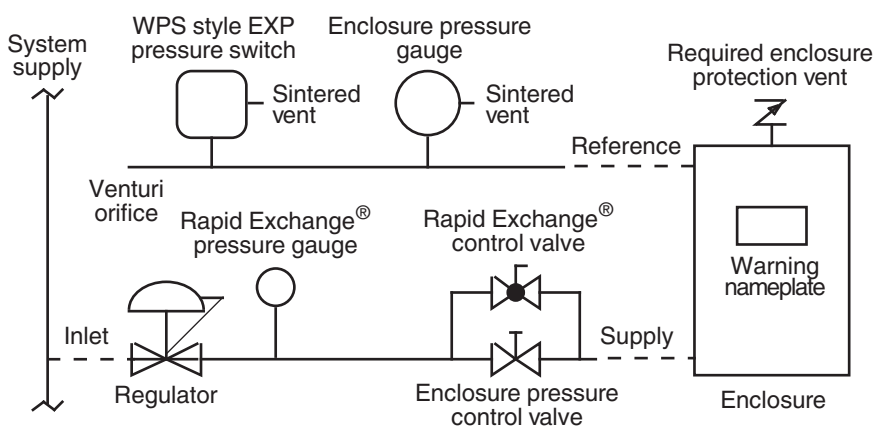
Internal Mount



Standard Pneumatic Installation Diagram

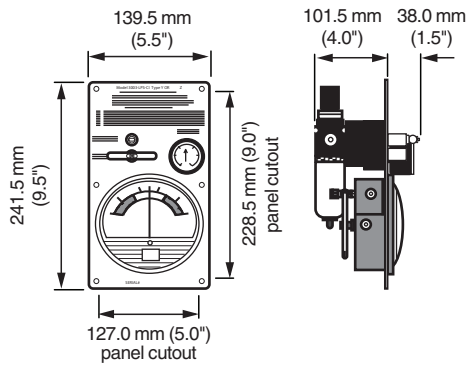


Panel Mount Installation Diagram

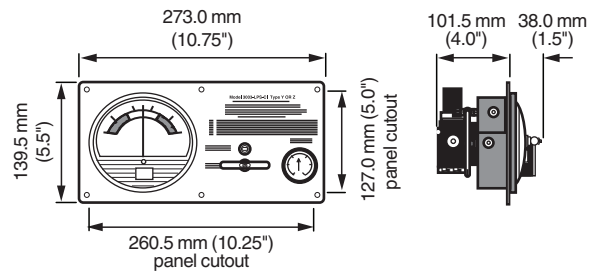


Dimensions

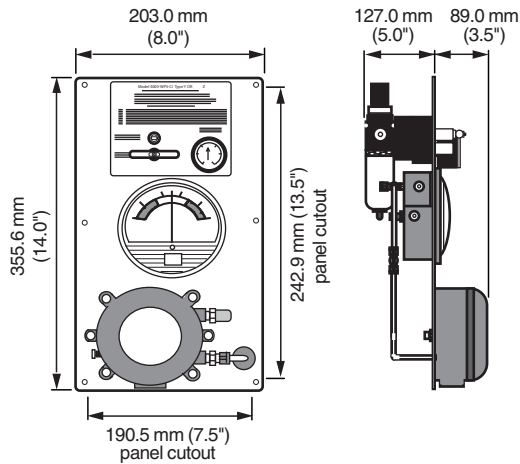
3003-LPS-CL-**-VM*-**-*****



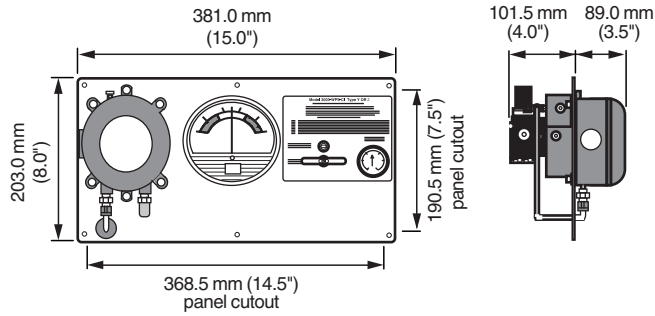
3003-LPS-CL-**-HM*-**-*****



3003-WPS*-CL-**-VM*-**-*****

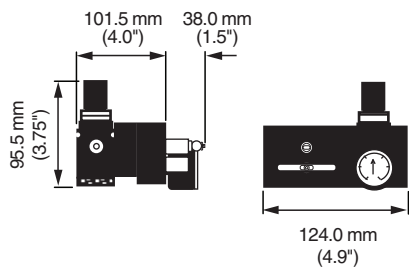


3003-WPS*-CL-**-HM*-**-*****

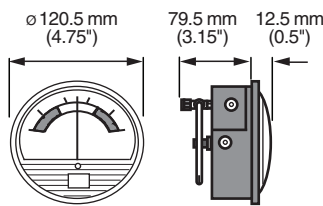


Component kit

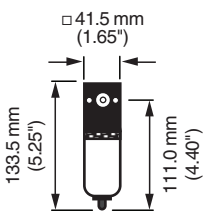
Pneumatic manifold



Enclosure pressure gauge



RCF-4



Accessories

System Accessories	
Connection fittings	
Part	Description
NC-6-4	3/8" T x 1/4" P ninety connector
SC-6-4	3/8" T x 1/4" P straight connector
NC-6-8	3/8" T x 1/2" P ninety connector
SC-6-8	3/8" T x 1/2" P straight connector
EFC-4	1/4" flush connector
EBC-4	1/4" bulkhead connector
EFC-6	3/8" flush connector
EBC-6	3/8" bulkhead connector
EPC-13	1 - 1/4" pipe connector
Additional items	
Part	Description
SMK-1	Surface Mounting Kit - Flange
SMK-6m	Surface Mounting Kit - Frame/Panel
PMK-1	Pipe Mounting Kit
GCK	Gauge Conversion Kit
ILF-4	1/4" In-Line Filter Kit
RCF-4	1/4" Remote Cube Filter
EPSK-1	Explosion Proof Switch Kit (GRP C, D)
EPSK-1A	Explosion Proof Switch Kit (GRP A-D)
GPSK-1	General-purpose Switch Kit
RAH	Remote Alarm Horn
RAB-1	Div. 1 Remote Alarm Beacon
RAB-2	Div. 2 Remote Alarm Beacon
Warning nameplates	
Part	Description
EWN-1	Class I enclosure warning
ETW	Enclosure temperature warning
Installation & Operation Manual	
Part	Description
DOCT-1369	Installation and Operation Manual

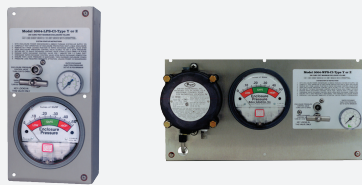
Type Code

* only for WPSA option

Type Y & Z purge and pressurization system

3004

BEBCO EPS®



- NFPA 496, ISA 12.4
- Optional alarm output indicates air lock failure
- Optional differential pressure switch for Class I, Group A-D, hazardous area locations
- Type Y system certified for Class I, Division 1 to Division 2
- Type Z system certified for Class I, Division 2 to nonhazardous area
- Enclosure volume up to 7.08 m³ (250 ft³)

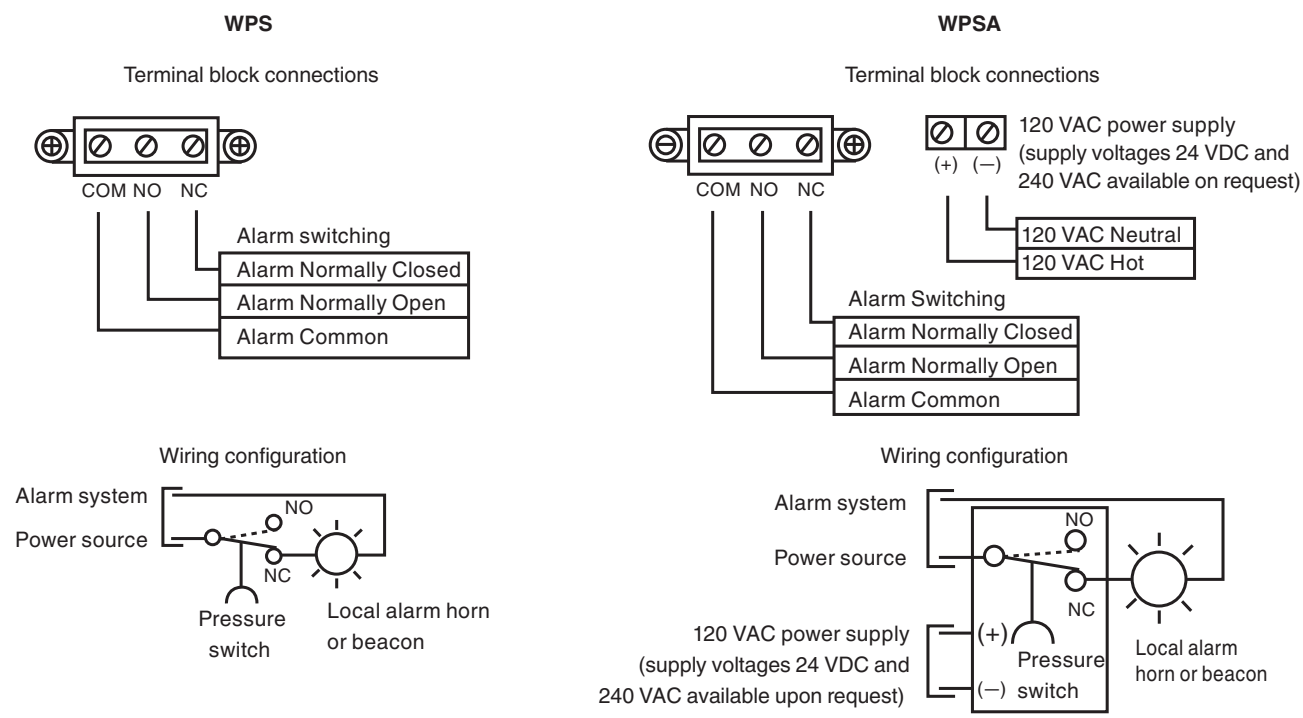
3004 Series purge and pressurization system



Function

The model 3004 is a Rapid Exchange® purging system that operates on a supply of compressed instrument air or inert gas. The system regulates and monitors pressure within sealed protected enclosure(s), in order to remove and prevent flammable gas or vapor accumulations. The system accomplishes the required volume exchanges and maintains a safe pressure. A Pepperl+Fuchs Model EPV-4 enclosure protection vent is required for proper operation. This process reduces the hazardous (classified) area rating within protected enclosure(s), in accordance with the NEC - NFPA 70, NFPA 496, ISA 12.4.

Connection



Technical Data

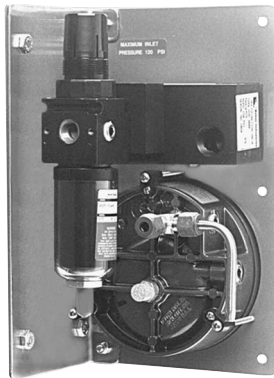
General specifications	
Series	3004 Series
System	Type Y Purge , Type Z Purge

Technical Data

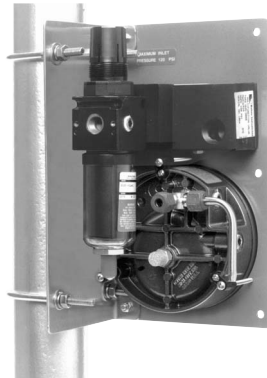
Hazardous environment	gas
Electrical specifications	
Connection	Terminal blocks
Output	
Output I	-WPS-
Output type	Switch contacts
Contact loading	120 VAC @ 15 A
Output II	-WPSA-
Output type	Switch contacts
Contact loading	120/220 VAC; 24 VDC @ 10 A; 125 VDC @ 50 mA power requirements: 24 / 120 / 240 VDC @ 3 / 4 / 11 watts
Pneumatic parameters	
Protective gas supply	instrument grade air or inert gas
Pressure requirement	80 - 120 psi (5.5 - 8.3 bar)
Safe pressure	Setpoint: 0.25" (6.35 mm) Flow rate: 0.1 - 3.5 SCFH (2.8 - 99 l/hr)
Purge flow and enclosure pressure rate	30 SCFM /1800 SCFH (850 l /m / 50976 l/hr) (With regulator set to 60 psi min. during exchange)
Operating conditions	
Process conditions	
Exchange time	4 volume exchange rate: 1 min / 7.5 ft ³ (212.4 l/m) 5 volume exchange rate: 1 min / 6.0 ft ³ (169.9 l/m)
Ambient conditions	
Ambient temperature	-29 ... 49 °C (-20.2 ... 120.2 °F)
Mechanical specifications	
Connection type	System supply port: 1/2" FPT Enclosure supply port: 1/2" FPT Enclosure reference fitting: 1/4" tube Switch conduit port size: 1/2" FPT
Material	Regulator body: zinc w/enamel finish Regulator handle & bowl: polycarbonate Enclosure pressure gauge: alum. w/enamel finish Rapid Exchange [®] gauge: poly & nickel plated Tube fitting: 316 SS forged body Tubing: 316 SS 1/4" .035 welded Fastener hardware: alum. & stainless steel System face plate: 316 14 ga #3 brush SS System mounting flange: 316 SS tumble finish Manifold body: anodized aluminum Manifold valves: 316 SS Mfr. ID nameplate: silkscreen Lexan [®]
Mass	3004-LPS-* 5.4 kg (12 lb) 3004-WPS-* 7.7 kg (17 lb)
International approvals	
FM approval	Type Y LPS: Class I, Division 1, Groups A, B, C, D WPS: Class 1, Division 1, Groups C, D WPSA: Class I, Division 1, Groups A, B, C, D Type Z LPS: Class I, Division 2, Groups A, B, C, D WPS: Class 1, Division 2, Groups C, D WPSA: Class I, Division 2, Groups A, B, C, D
UL approval	
cULus	Type Y LPS: Class I, Division 1, Groups A, B, C, D WPS: Class 1, Division 1, Groups C, D WPSA: Class I, Division 1, Groups A, B, C, D Type Z LPS: Class I, Division 2, Groups A, B, C, D WPS: Class 1, Division 2, Groups C, D WPSA: Class I, Division 2, Groups A, B, C, D

Mounting

VM configuration mounting options



Model 3004-LPS-CI-YZ-VML
Flange mounted to flat vertical
surface with Model SMK-1
fastener kit

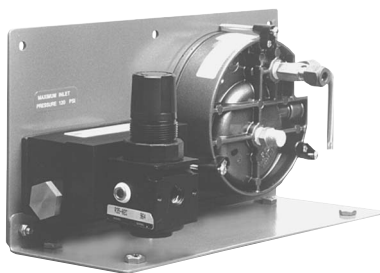


Model 3004-LPS-CI-YZ-VML
Flange mounted to vertical
2" pipe stand with
Model PMK-1 fastener kit

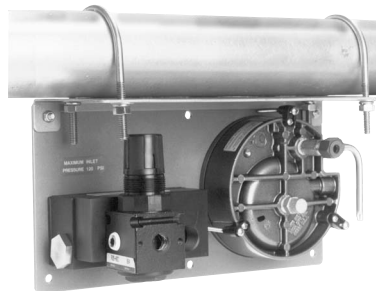


Model 3004-LPS-CI-YZ-VM
Frame or panel* mounted
through cutout in suitable surface
with Model SMK-6m

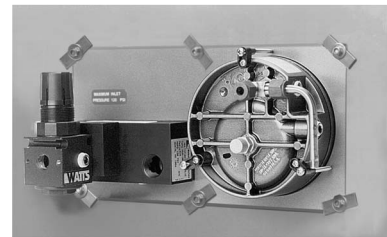
HM configuration mounting options



Model 3004-LPS-CI-YZ-HMT
Flange mounted to flat horizontal
surface with Model SMK-1 fastener kit



Model 3004-LPS-CI-YZ-HMB
Flange mounted to horizontal 2" pipe
stand with Model PMK-1 fastener kit

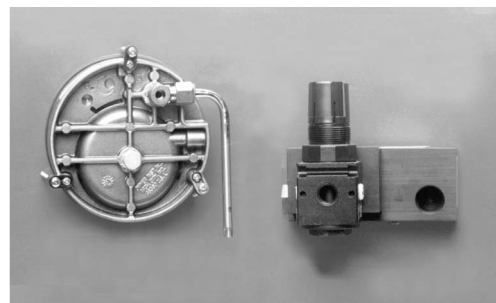


Model 3004-LPS-CI-YZ-HM
Frame or panel* mounted through
cutout in suitable surface with
Model SMK-6m fastener kit

CK configuration mounting options



Front view



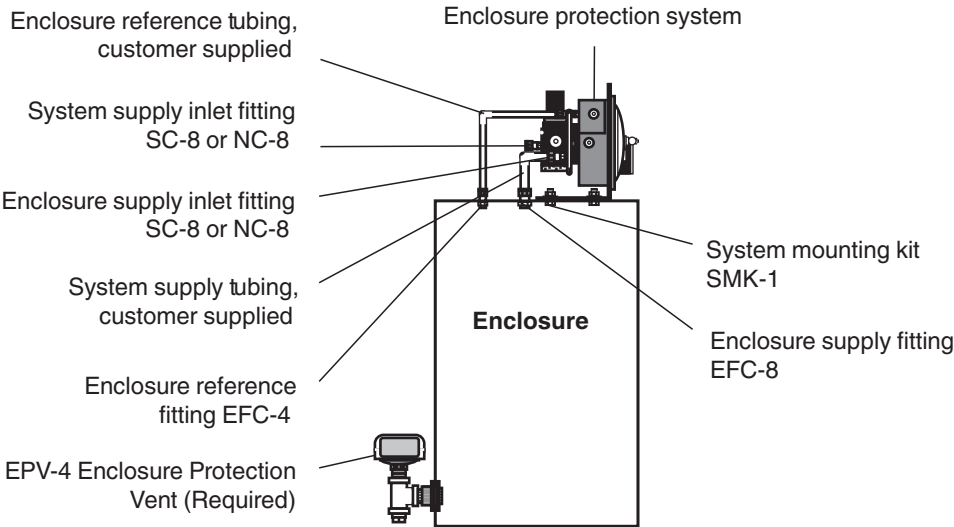
Rear view

Model 3004-LPS-CI-YZ-CK
Rear view of frame or panel* mount through cutout in suitable surface with
supplied fasteners

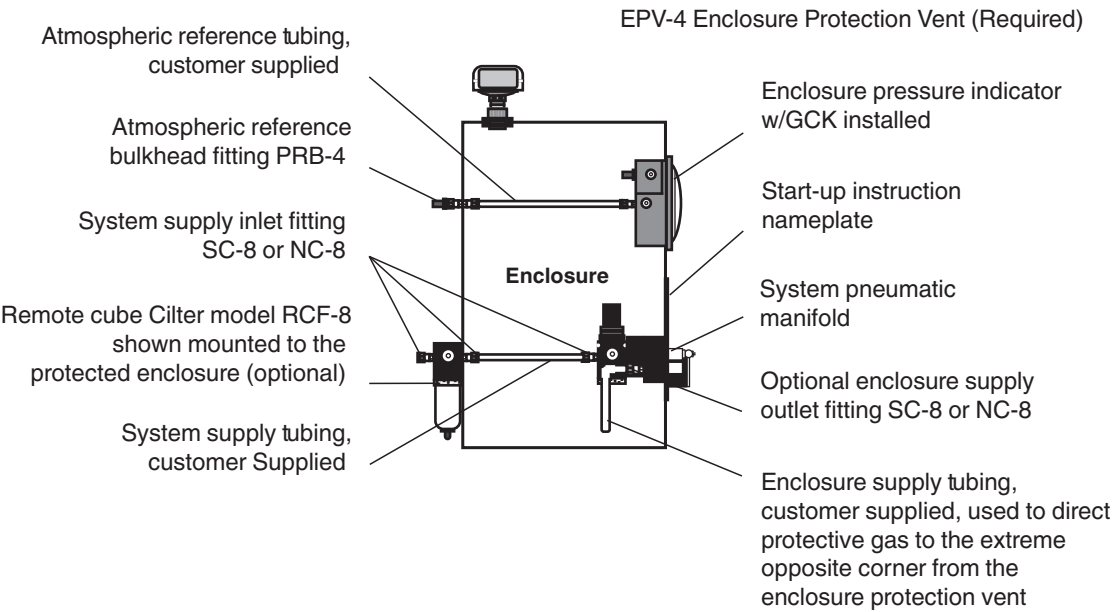
Additional Information

Assembly

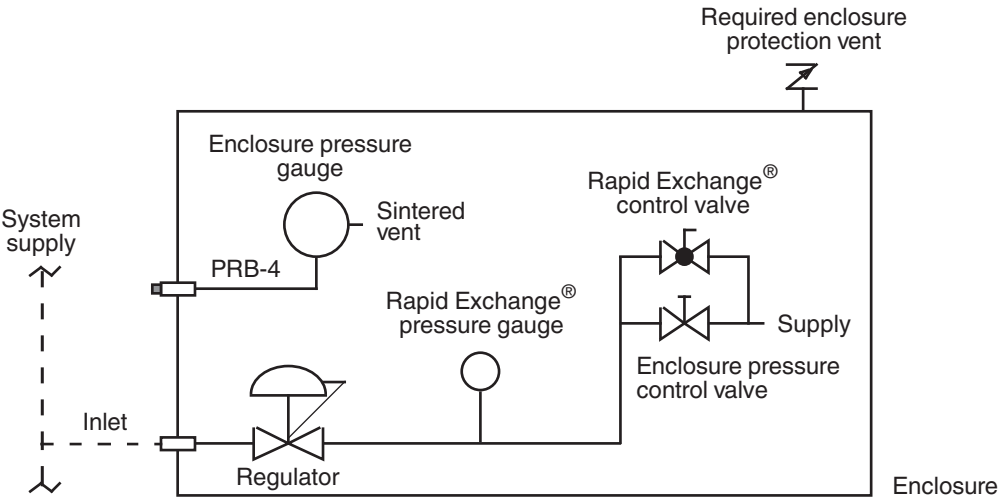
External Mount



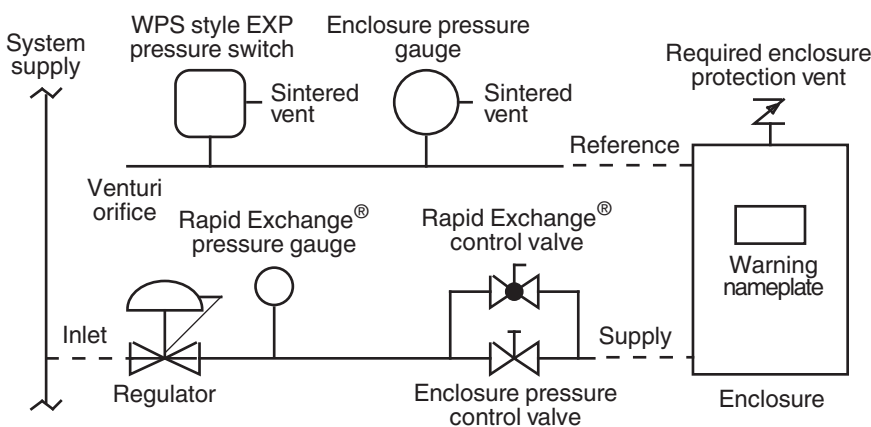
Internal Mount



Standard Pneumatic Installation Diagram

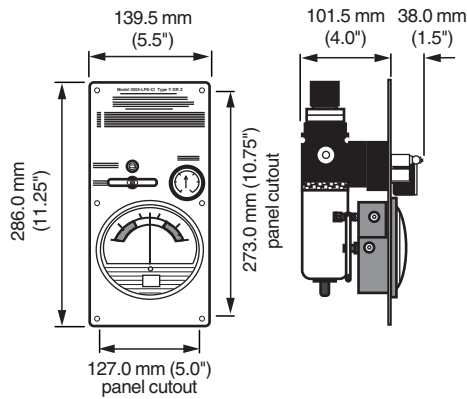


Panel Mount Installation Diagram

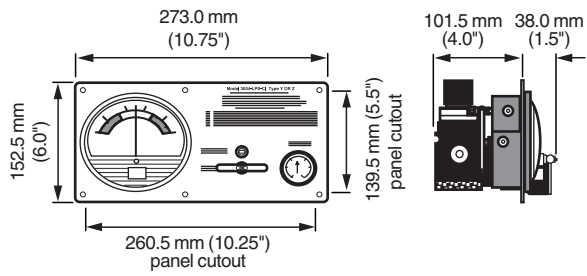


Dimensions

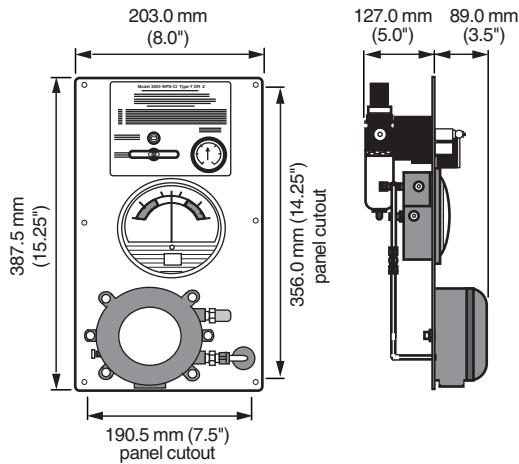
3004-LPS-CL-**-VM**-**-*****



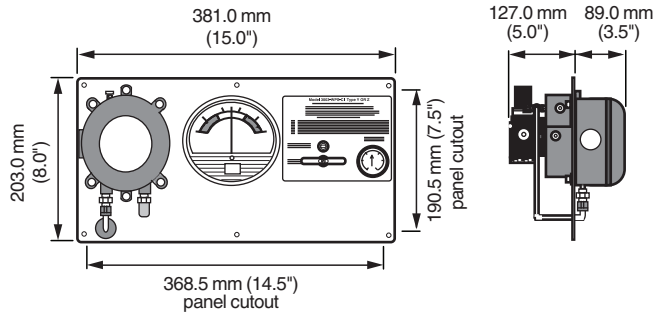
3004-LPS-CL-**-HM**-**-*****



3004-WPS*-CL-**-VM**-**-*****

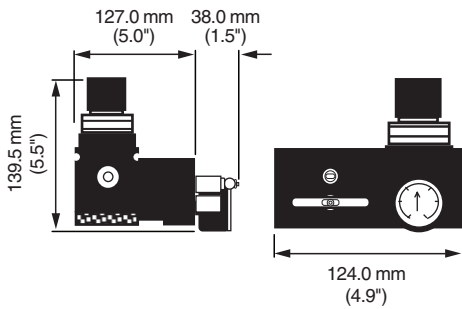


3004-WPS*-CL-**-HM**-**-*****

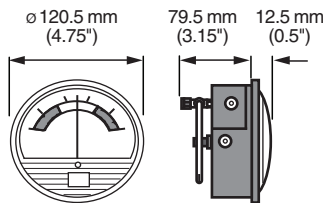


Component kit

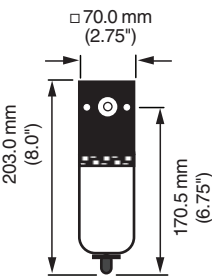
Pneumatic manifold



Enclosure pressure gauge



RCF-8



Accessories

System Accessories	
Connection fittings	
Part	Description
NC-8	1/2" T x 1/2" P ninety connector
SC-8	1/2" T x 1/2" P straight connector
EFC-4	1/4" flush connector
EBC-4	1/4" bulkhead connector
EFC-8	1/2" flush connector
EBC-8	1/2" bulkhead connector
EPC-14	1 - 1/2" pipe connector
Additional items	
Part	Description
SMK-1	Surface Mounting Kit - Flange
SMK-6m	Surface Mounting Kit - Frame/Panel
PMK-1	Pipe Mounting Kit
GCK	Gauge Conversion Kit
ILF-8	1/2" In-Line Filter Kit
RCF-8	1/2" Remote Cube Filter
EPSK-1	Explosion Proof Switch Kit (GRP C, D)
EPSK-1A	Explosion Proof Switch Kit (GRP A-D)
GPSK-1	General-purpose Switch Kit
RAH	Remote Alarm Horn
RAB-1	Div. 1 Remote Alarm Beacon
RAB-2	Div. 2 Remote Alarm Beacon
Warning nameplates	
Part	Description
EWN-1	Class I enclosure warning
ETW	Enclosure temperature warning
Installation & Operation Manual	
Part	Description
DOCT-1370	Installation and Operation Manual

Type Code

* only for WPSA option



Enclosure protection vent

BEBCO EPS®

EPV-*-SA-*

- Top or side mount configurations
- Seamless cap
- Friction free valve assembly
- Spark arresting exhaust
- Can only be purchased in conjunction with corresponding Purge system or as a replacement

Pressure relief vent for use with the Pepperl+Fuchs Bebcos EPS® purge and pressurization systems



Function

The EPV (enclosure protection vents) are self-seating, gravity controlled, low pressure relief valve designed to ventilate excessive enclosure pressures created by the Rapid Exchange® process, or the failure of the enclosure pressure control devices. Each vent features a seamless cap, a spark arresting (SA) style exhaust element, a friction-free valve assembly, a base, and a mounting hub. The mounting hub, along with associated pipe fittings, permits direct mounting through a round cutout on the top or side of a protected enclosure. This device functions only in conjunction with Pepperl+Fuchs Bebcos EPS® purge systems, to reduce the hazardous (classified) area rating within protected enclosure(s), in accordance with the NEC - NFPA 70, Article 500, NFPA 496, and ISA 12.4.

Technical Data

General specifications	
Series	EPV
Hazardous environment	gas or dust
Pneumatic parameters	
Protective gas supply	instrument grade air or inert gas
Pressure requirement	2" ...5" wc (50.8 mm ... 127 mm wc)
Maximum pressure	5" ... 7" wc (127 mm ... 177 mm wc)
Breaking pressure	0.65" wc (16.5 mm wc)
Ambient conditions	
Ambient temperature	-29 ... 49 °C (-20.2 ... 120.2 °F)
Relative humidity	5 ... 95 %, noncondensing
Mechanical specifications	
Material	Body: cap - 3003 drawn aluminum base - A.S.E. 306, 308 cast aluminum mounting hub - zinc plated steel pipe fittings - schedule 40 3003 aluminum nameplates - Lexan® hardware - 316 SS Exhaust elements: spark arrestor - 316 SS element cap - 6061 aluminum Valve assembly: base - 14 Ga. machined 316 ss seat disc - 14 Ga. machined 316 SS hinge - Zytel® 8018, 14% glass fill pin & rivets - 316 SS disc adhesive - urethane epoxy

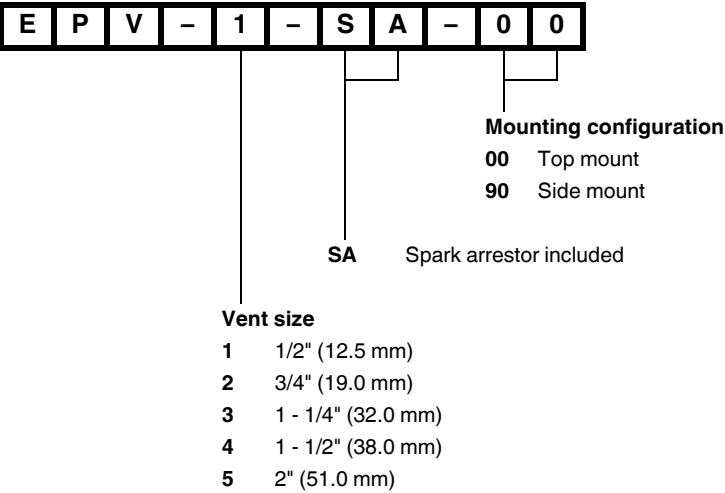
Technical Data

Mass	EPV-1-SA-00: 3 lb (1.36 kg) EPV-1-SA-90: 4 lb (1.81 kg) EPV-2-SA-00: 3 lb (1.36 kg) EPV-2-SA-00: 4 lb (1.81 kg) EPV-3-SA-00: 4 lb (1.81 kg) EPV-3-SA-90: 5 lb (2.27 kg) EPV-4-SA-00: 7 lb (3.18 kg) EPV-4-SA-00: 9 lb (4.08 kg) EPV-5-SA-00: 10 lb (4.54 kg) EPV-5-SA-00: 12 lb (5.44 kg)	
Mounting		-00: top mount -90: side mount
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. Vents are only certified for use with Pepperl+Fuchs Bebcos EPS® purge and pressurization systems. See specific purge and pressurization system for associated certifications.

Assembly



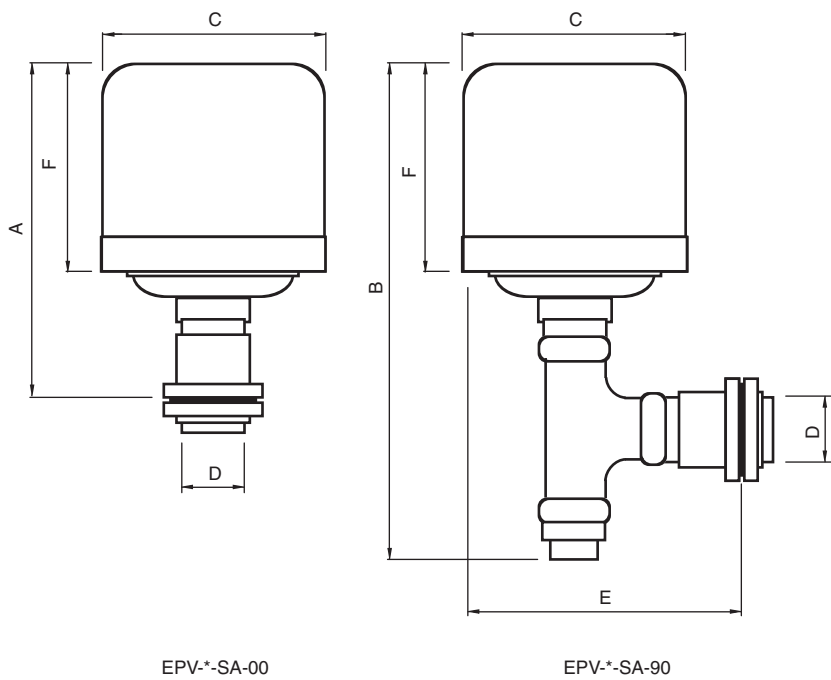
Type Code



Technical Features

Vent Compatibility & Flow Rate Chart				
Vent model	Required use	Optional use	SCFH (l)/hr @ 3" (76.2 mm)	SCFH (l)/hr @ 7" (177.8 mm)
EPV-1-SA		11, 1011, 1001A & 2001A	568 (16086)	1044 (29566)
EPV-2-SA	1012, 1002 & 2002		685 (19399)	122 (34041)
EPV-3-SA	1003, 2003, 3003 & 4004	1001C & 201B	1143 (32370)	1971 (55819)
EPV-4-SA	1004, 2004, 3004, & 4004	1001C & 2001C	2510 (71083)	4387 (124240)
EPV-5-SA	1005 & 2005		4280 (121210)	4479 (126845)
Normal SCFH measured with enclosure pressure @ 3" (76.2 mm) of water				
Max SCFH measured @ 7" (177.8 mm) of water				

Overall Vent Dimensions [inches (mm)]					
Vent model	EPV-1	EPV-2	EPV-3	EPV-4	EPV-5
Hub size	1/2"	3/4"	1 - 1/4"	1 - 1/2"	2"
A	4.75 (120.70)	4.88 (123.8)	5.25 (133.4)	7 (177.8)	7 (177.8)
B	7 (177.8)	7.36 (187.3)	8 (203.2)	11 (279.4)	11.5 (292.1)
C	4 (101.6)	4.63 (117.5)	5 (127)	8 (203.2)	8 (203.2)
D	0.88 (22.2)	1.13 (28.6)	1.75 (44.5)	2 (50.8)	2.5 (63.5)
E	4.25 (108)	5.25 (133.4)	5.5 (139.7)	9 (228.6)	9 (228.6)
F	2.75 (69.9)	2.75 (69.9)	2.75 (69.9)	3.75 (95.3)	3.75 (95.3)
Hub Size indicates standard trade conduit size. All vents require 4" to 7" (101.6 mm to 177.8 mm) underside clearance for testing.					



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