

Системы (модули) повышения давления или продувки корпуса типа Y и Z серии 1000

Технические характеристики

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Тула (4872)33-79-87
Тюмень (3452)66-21-18
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Улан-Удэ (3012)59-97-51
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Type Y & Z purge and pressurization system

1001A

BEBCO EPS®



- NFPA 70, NFPA 496, ISA 12.4 standards
- Optional alarm output indicates air lock failure
- Type Y system certified for Class I and Class II, Division 1 to Division 2
- Type Z system certified for Class I and Class II, Division 2 to nonhazardous area
- Class I enclosure volume up to 2 ft³
- Class II enclosure volume up to 10 ft³

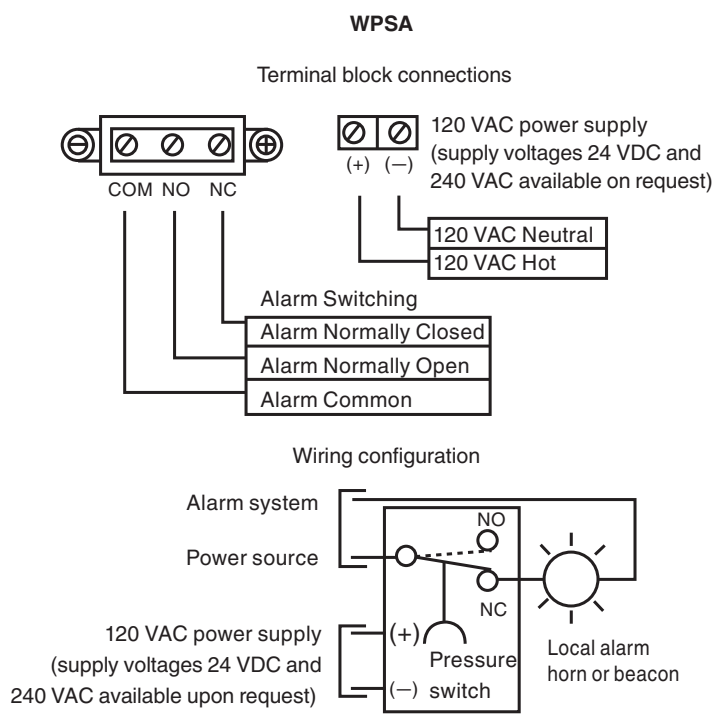
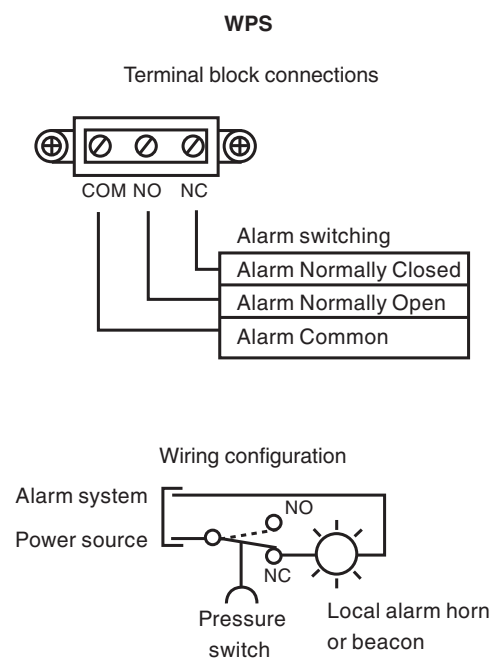
1001A Series purge and pressurization system



Function

The model 1001A is an enclosure pressurization or 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 prevent combustible dust accumulation or remove and prevent flammable gas or vapor accumulations. In Class II areas, the system maintains a "safe" (1.0") pressure. In Class I areas, the system accomplishes four air exchanges and maintains a "safe" (0.25") pressure. These processes reduce the hazardous (classified) area rating within the enclosure(s), in accordance with the NEC - NFPA 70, Article 500, NFPA 496 and ISA 12.4.

Connection



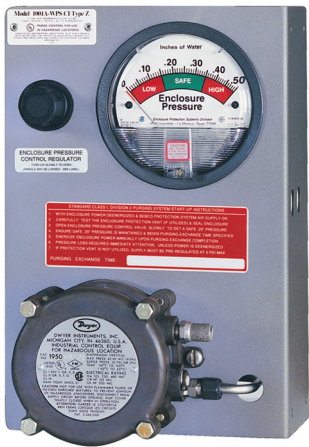
Technical Data

General specifications	
Series	1001A
System	Type Y Purge , Type Z Purge

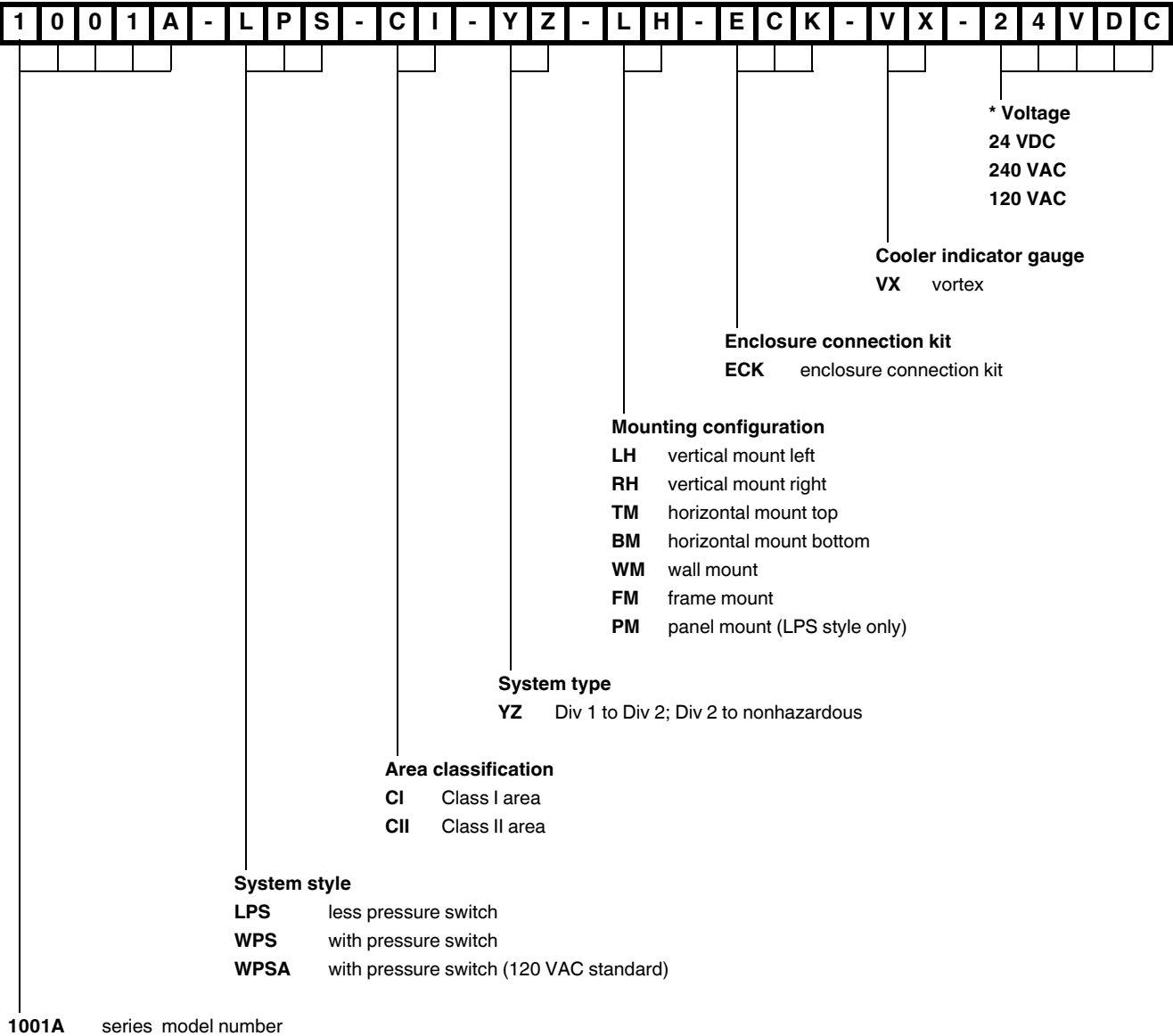
Technical Data

Hazardous environment	gas or dust
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	5 - 120 psi (With EPV-1 vent. Systems installed without vent must be equipped with redundant regulator set to 5 psi max.)
Safe pressure	Setpoint: Class I: 0.25" (6.35 mm); Class II: 1.0" (25.4 mm) Flow rate: 0.1 - 3.5 SCFH (2.8 - 99 l/hr)
Ambient conditions	
Ambient temperature	-29 ... 49 °C (-20.2 ... 120.2 °F)
Mechanical specifications	
Connection type	System supply fitting: 1/4" tube fitting Enclosure supply fitting: 1/4" tube fitting Enclosure reference fitting: 1/4" tube fitting Switch conduit port size: 1/2" FPT
Material	Regulator body: zinc w/enamel finish Regulator handle: polycarbonate Enclosure pressure gauge: alum. w/enamel finish Tube fitting: 316 ss forged body Tubing: 316 ss 1/4" .035 welded System nameplate: silk screened Lexan® &ss Fastener hardware: alum. &stainless steel Mounting plate: 316 14 ga #3 brush ss EXP pressure switch body: anodized cast aluminum Enclosure warning nameplate: silk screened ss
Mass	1001A-LPS-* 2.3 kg (5 lb) 1001A-WPS* 4.5 kg (10 lb)
International approvals	
FM approval	Type Y LPS: Class I, Division 1, Groups A, B, C, D; Class II, Division 1, Groups E, F, and G WPS: Class I, Division 1, Groups C, D; Class II, Division 1, Groups E, F, and G WPSA: Class I, Division 1, Groups A, B, C, D Type Z LPS: Class I, Division 2, Groups A, B, C, D; Class II, Division 2, Groups E, F, and G WPS: Class I, Division 2, Groups C, D; Class II, Division 2, Groups E, F, and G 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; Class II, Division 1, Groups E, F, and G WPS: Class I, Division 1, Groups C, D; Class II, Division 1, Groups E, F, and G WPSA: Class I, Division 1, Groups A, B, C, D Type Z LPS: Class I, Division 2, Groups A, B, C, D; Class II, Division 2, Groups E, F, and G WPS: Class I, Division 2, Groups C, D; Class II, Division 2, Groups E, F, and G WPSA: Class I, Division 2, Groups A, B, C, D

Assembly



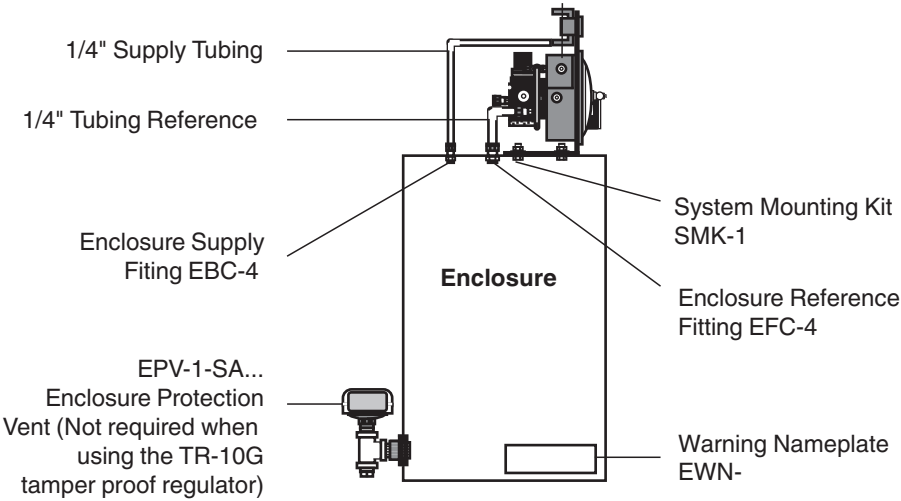
Type Code



* only for WPSA option

Additional Information

Assembly



Dimensions

Overall system dimensions			
LPS / WPS	LH - left hand	RH - right hand	TM - top mount
Height	7 / 12	7 / 12	7 / 8
Width	8 / 8	8 / 8	8 / 13.375
Depth	5.5 / 7.25	5.5 / 7.25	5.5 / 7.25
LPS / WPS	BM - bottom mount	WM - wall mount	FM & PM - surface
Height	7 / 8	7 / 12	9 / 14
Width	8 / 13.375	8 / 8	10 / 10
Depth	5.5 / 7.25	7.5 / 9.25	5 / 6.5
Dimensions in inches. Mounting dimensions available upon request. FM & PM panel cutout dimensions: LPS - 8 h x 9 w WPS - 13 h x 9 w. Height & Width dimensions reflect mounting plate measurements. Depth dimension reflects overall measurement of system, including components.			

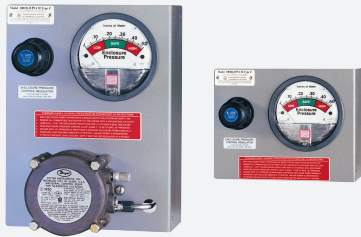
System Accessories

Factory installed fittings	
Part	Description
ECK-1001A	Enclosure Connection Kit ²⁶
Connection fittings	
Part	Description
EFC-4	1/4" flush connector
EBC-4	1/4" bulkhead connector
EPC-10	1/2" pipe connector
Additional items	
Part	Description
ILF-4	1/4" In-Line Filter Kit
SMK-1	Surface Mounting Kit (-LH-, -RH-, -TM-, -BM-, -WM- models)
SMK-4	Surface Mounting Kit (-FM-, -PM- models)
SMK-6	Surface Mounting Kit (-FM-, -PM- models)
PMK-1	Pipe Mounting Kit
GCK	Gauge Conversion Kit
EPSK-1	Explosion Proof Switch Kit (Class I areas)
EPSK-1A	Explosion Proof Switch Kit (Class I areas)
EPSK-2	Explosion Proof Switch Kit (Class II areas)
EPSK-2A	Explosion Proof Switch Kit (Class II areas)
GPSK-1	General-purpose Switch Kit (Class I areas)
GPSK-2	General-purpose Switch Kit (Class II areas)
RAH	Remote Alarm Horn
RAB-1	Div. 1 Remote Alarm Beacon
RAB-2	Div. 2 Remote Alarm Beacon
LCK	"L" style conduit fitting kit
TCK	"T" style conduit fitting kit
Hex key regulator handles	
Part	Description
TR-10G	Tamper proof regulator with gauge
Warning nameplates	
Part	Description
EWN-1	Class I enclosure warning
EWN-2	Class II enclosure warning
ETW	Enclosure temperature warning
Installation & Operation Manual	
Part	Description
DOCT-1352	Installation and Operation Manual

Type Y & Z pressurization system

1001B

BEBCO EPS®



- NFPA 70, NFPA 496, ISA 12.4 standards
- Optional alarm output indicates air lock failure
- Type Y system certified for Class II, Division 1 to Division 2
- Type Z system certified for Class II, Division 2 to nonhazardous
- Enclosure volume up to 50 ft³

1001B Series pressurization system

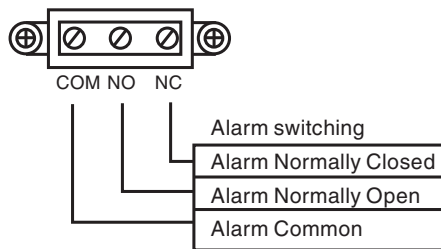


Function

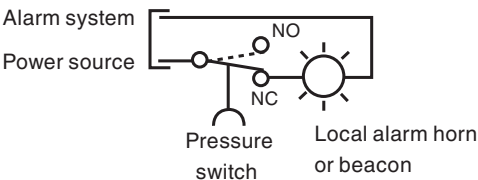
Model 1001B is an enclosure pressurization system that operates on a supply of compressed instrument air or inert gas. It regulates and monitors pressure within sealed (protected) enclosure(s), in order to prevent combustible dust accumulation by maintaining a "safe" (1.0") pressure. This process reduces the hazardous (classified) area rating within the enclosure(s), in accordance with the NEC - NFPA 70, Article 500, NFPA 496 and ISA 12.4.

Connection

Terminal block connections



Wiring configuration



Technical Data

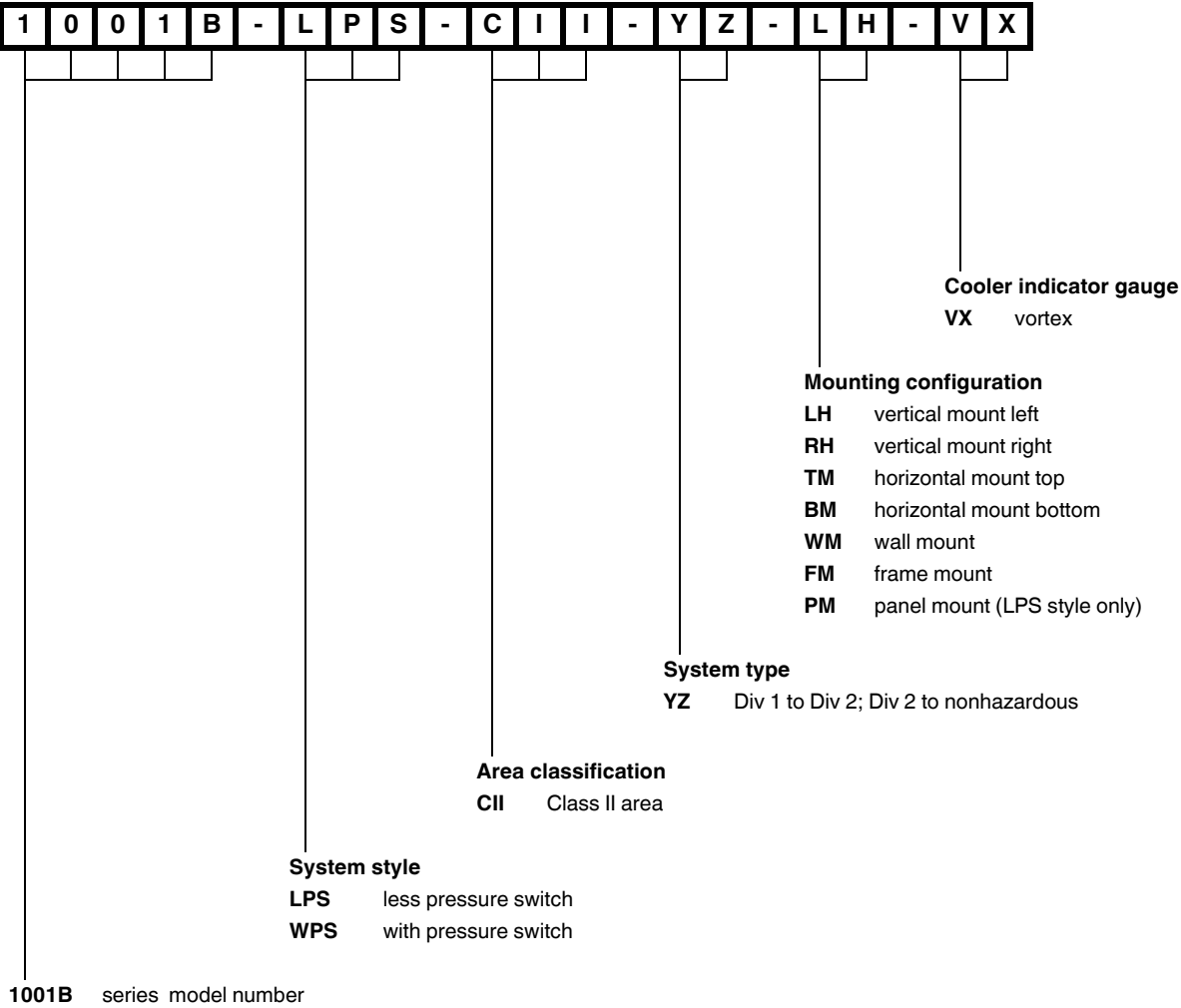
General specifications	
Series	1001B
System	Type Y Purge , Type Z Purge
Hazardous environment	gas
Electrical specifications	

Technical Data

Connection	Terminal blocks
Output	
Output I	-WPS-
Output type	Switch contacts
Contact loading	120 VAC @ 15 A
Pneumatic parameters	
Protective gas supply	instrument grade air or inert gas
Pressure requirement	5 - 120 psi (With EPV-3 vent. Systems installed without vent must be equipped with redundant regulator set to 5 psi max.)
Safe pressure	Setpoint: 1.0" (25.4 mm) Flow rate: 0.1 - 3.5 SCFH (2.8 - 99 l /hr)
Ambient conditions	
Ambient temperature	-29 ... 49 °C (-20.2 ... 120.2 °F)
Mechanical specifications	
Connection type	System supply fitting: 3/8" tube fitting Enclosure supply fitting: 3/8" tube fitting Enclosure reference fitting: 1/4" tube fitting Switch conduit port size: 1/2" FPT
Material	Regulator body: zinc w/enamel finish Regulator handle: polycarbonate Enclosure pressure gauge: alum. w/enamel finish Tube fitting: 316 ss forged body Tubing: 316 ss 1/4" .035 welded System nameplate: silk screened Lexan® &ss Fastener hardware: alum. &stainless steel Mounting plate: 316 14 ga #3 brush ss EXP pressure switch body: anodized cast aluminum Enclosure warning nameplate: silk screened ss
Mass	1001B-LPS-* 3.2 kg (7 lb) 1001B-WPS-* 5.4 kg (12 lb)
International approvals	
FM approval	Type Y LPS: Class II, Division 1, Groups E, F, and G WPS: Class II, Division 1, Groups E, F, and G Type Z LPS: Class II, Division 2, Groups E, F, and G WPS: Class II, Division 2, Groups E, F, and G
UL approval	
cULus	Type Y LPS: Class II, Division 1, Groups E, F, and G WPS: Class II, Division 1, Groups E, F, and G Type Z LPS: Class II, Division 2, Groups E, F, and G WPS: Class II, Division 2, Groups E, F, and G

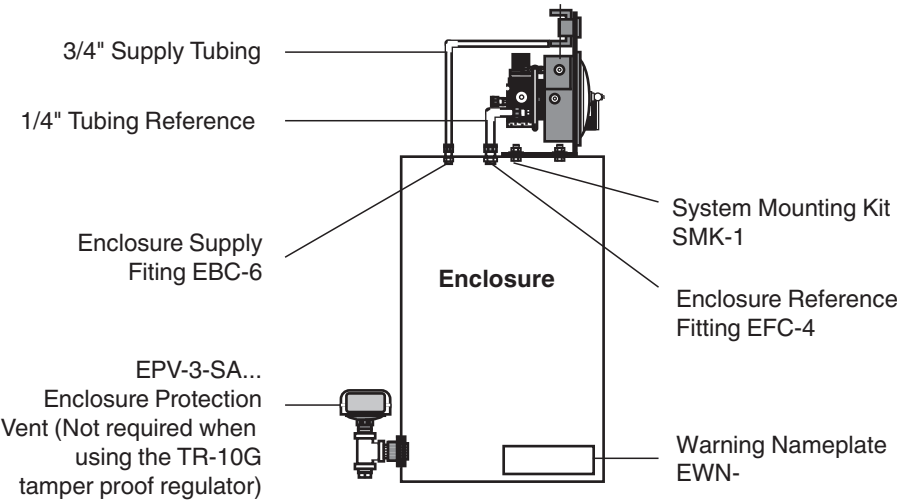


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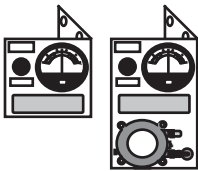
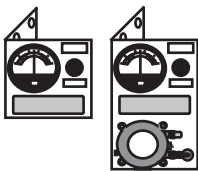
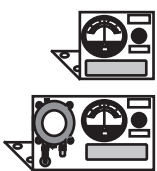
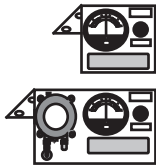
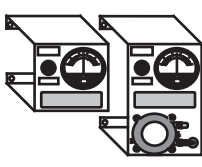
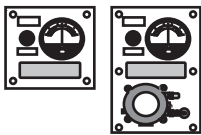


Additional Information

Assembly



Dimensions

Overall system dimensions			
LPS / WPS	LH - left hand	RH - right hand	TM - top mount
Height	7 / 12	7 / 12	7 / 8
Width	8.875 / 8.875	8.875 / 8.875	8.75 / 14.25
Depth	6 / 7.25	6 / 7.25	6 / 7.25
			
LPS / WPS	BM - bottom mount	WM - wall mount	FM & PM - surface
Height	7 / 8	7 / 12	9 / 14
Width	8.75 / 14.25	8.875 / 8.875	10.875 / 10.875
Depth	6 / 7.25	7.5 / 9.25	4.75 / 6.5
Dimensions in inches. Mounting dimensions available upon request. FM & PM panel cutout dimensions: LPS - 8 h x 9.875 w WPS - 13 h x 9.875 w. Height & Width dimensions reflect mounting plate measurements. Depth dimension reflects overall measurement of system, including components.			

System Accessories

Connection fittings	
Part	Description
EFC-4	1/4" flush connector
EFC-6	3/8" flush connector
EBC-6	3/8" bulkhead connector
EPC-13	1" pipe connector
Additional items	
Part	Description
ILF-6	3/8" In-Line Filter Kit
SMK-1	Surface Mounting Kit (-LH-, -RH-, -TM-, -BM-, -WM- models)
SMK-4	Surface Mounting Kit (-FM-, -PM- models)
SMK-6	Surface Mounting Kit (-FM-, -PM- models)
EPSK-2	Explosion Proof Switch Kit (Class II areas)
EPSK-2A	Explosion Proof Switch Kit (Class II areas)
GPSK-2	General-purpose Switch Kit (Class II areas)
RAH	Remote Alarm Horn
RAB-1	Div. 1 Remote Alarm Beacon
RAB-2	Div. 2 Remote Alarm Beacon
LCK	"L" style conduit fitting kit
TCK	"T" style conduit fitting kit
Hex key regulator handles	
Part	Description
TR-10G	Tamper proof regulator with gauge
Warning nameplates	
Part	Description
EWN-2	Class II enclosure warning
ETW	Enclosure temperature warning
Installation & Operation Manual	
Part	Description
DOCT-1353	Installation and Operation Manual

Type Y & Z pressurization system

1001C

BEBCO EPS®



- NFPA 70, NFPA 496, ISA 12.4 standards
- Optional alarm output indicates air lock failure
- Type Y system certified for Class II, Division 1 to Division 2
- Type Z system certified for Class II, Division 2 to nonhazardous
- Enclosure volume up to 7.08 m³ (250 ft³)

1001C Series pressurization system

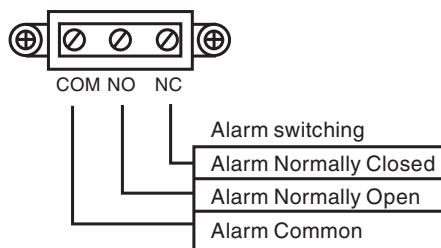


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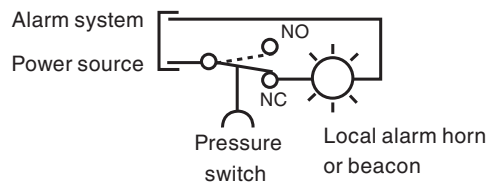
The model 1001C is an enclosure pressurization system that operates on a supply of compressed instrument air or inert gas. The system regulates and monitors pressure within sealed (protected) enclosure(s), in order to prevent combustible dust accumulation by maintaining a "safe" (1.0") pressure. This process reduces the hazardous (classified) area rating within the enclosure(s), in accordance with the NEC - NFPA 70, Article 500, NFPA 496 and ISA 12.4.

Connection

Terminal block connections



Wiring configuration



Technical Data

General specifications

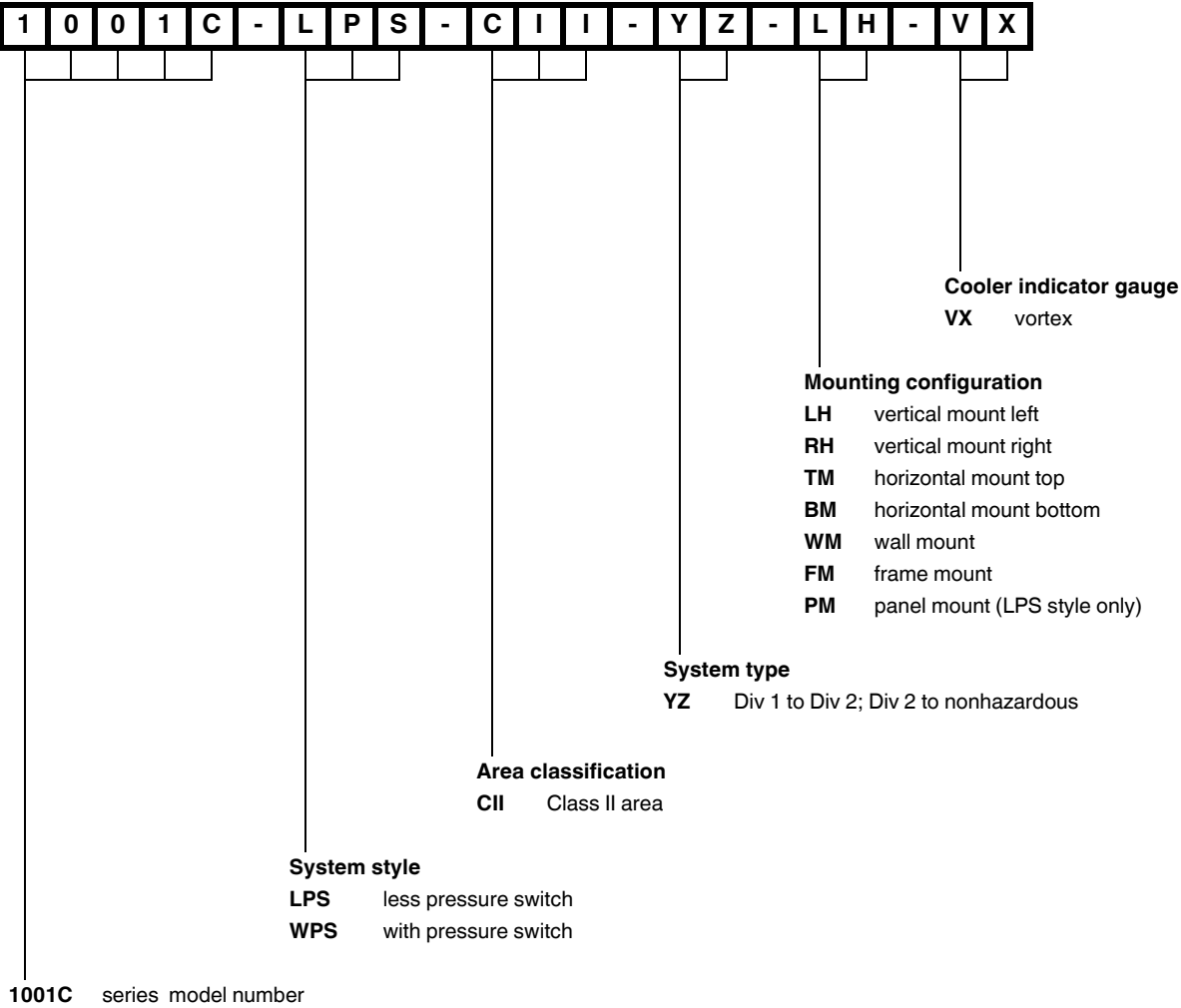
Series	1001C
System	Type Y Purge , Type Z Purge
Hazardous environment	gas

Technical Data

Electrical specifications		
Connection		Terminal blocks
Output		
Output I		-WPS-
Output type		Switch contacts
Contact loading	120 VAC @ 15 A	
Pneumatic parameters		
Protective gas supply		instrument grade air or inert gas
Pressure requirement		5 - 120 psi (With EPV-4 vent. Systems installed without vent must be equipped with redundant regulator set to 5 psi max.)
Safe pressure	Setpoint: 1.0" (25.4 mm) Flow rate: 0.1 - 3.5 SCFH (2.8 - 99 l /hr)	
Ambient conditions		
Ambient temperature		-29 ... 49 °C (-20.2 ... 120.2 °F)
Mechanical specifications		
Connection type		System supply fitting: 1/2" tube fitting Enclosure supply fitting: 1/2" tube fitting Enclosure reference fitting: 1/4" tube fitting Switch conduit port size: 1/2" FPT
Material		Regulator body: zinc w/enamel finish Regulator handle: polycarbonate Enclosure pressure gauge: alum. w/enamel finish Tube fitting: 316 ss forged body Tubing: 316 ss 1/4" .035 welded System nameplate: silk screened Lexan® &ss Fastener hardware: alum. &stainless steel Mounting plate: 316 14 ga #3 brush ss EXP pressure switch body: anodized cast aluminum Enclosure warning nameplate: silk screened ss
Mass	1001C-LPS-* 3.2 kg (7 lb) 1001C-WPS-* 5.4 kg (12 lb)	
International approvals		
FM approval	Type Y LPS: Class II, Division 1, Groups E, F, and G WPS: Class II, Division 1, Groups E, F, and G Type Z LPS: Class II, Division 2, Groups E, F, and G WPS: Class II, Division 2, Groups E, F, and G	
UL approval		
cULus	Type Y LPS: Class II, Division 1, Groups E, F, and G WPS: Class II, Division 1, Groups E, F, and G Type Z LPS: Class II, Division 2, Groups E, F, and G WPS: Class II, Division 2, Groups E, F, and G	

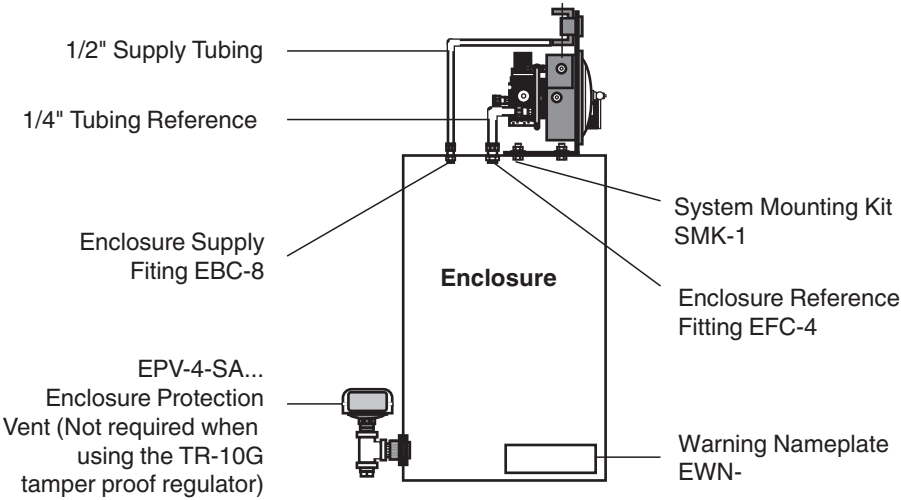


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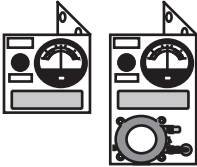
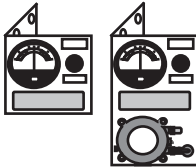
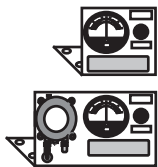
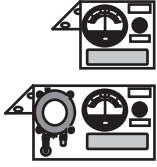
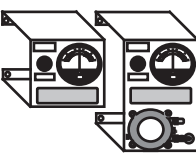
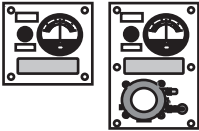


Additional Information

Assembly



Dimensions

Overall system dimensions			
LPS / WPS	LH - left hand	RH - right hand	TM - top mount
Height	7 / 12	7 / 12	7 / 8
Width	8.875 / 8.875	8.875 / 8.875	8.75 / 14.25
Depth	6 / 7.25	6 / 7.25	6 / 7.25
			
LPS / WPS	BM - bottom mount	WM - wall mount	FM & PM - surface
Height	7 / 8	7 / 12	9 / 14
Width	8.75 / 14.25	8.875 / 8.875	10.875 / 10.875
Depth	6 / 7.25	7.5 / 9.25	4.75 / 6.5
Dimensions in inches. Mounting dimensions available upon request. FM & PM panel cutout dimensions: LPS - 8 h x 9.875 w WPS - 13 h x 9.875 w. Height & Width dimensions reflect mounting plate measurements. Depth dimension reflects overall measurement of system, including components.			

System Accessories

Connection fittings	
Part	Description
EFC-4	1/4" flush connector
EFC-8	1/2" flush connector
EBC-8	1/2" bulkhead connector
EPC-14	1-1/2" pipe connector
Additional items	
Part	Description
ILF-8	1/2" In-Line Filter
SMK-1	Surface Mounting Kit (-LH-, -RH-, -TM-, -BM-, -WM- models)
SMK-4	Surface Mounting Kit (-FM-, -PM- models)
SMK-6	Surface Mounting Kit (-FM-, -PM- models)
EPSK-2	Explosion Proof Switch Kit (Class II areas)
EPSK-2A	Explosion Proof Switch Kit (Class II areas)
GPSK-2	General-purpose Switch Kit (Class II areas)
RAH	Remote Alarm Horn
RAB-1	Div. 1 Remote Alarm Beacon
RAB-2	Div. 2 Remote Alarm Beacon
LCK	"L" style conduit fitting kit
TCK	"T" style conduit fitting kit
Hex key regulator handles	
Part	Description
TR-30G	Tamper proof regulator with gauge
Warning nameplates	
Part	Description
EWN-2	Class II enclosure warning
ETW	Enclosure temperature warning
Installation & Operation Manual	
Part	Description
DOCT-1354	Installation and Operation Manual

Type Y & Z purge and pressurization system

1002

BEBCO EPS®



- NFPA 70, NFPA 496, ISA 12.4 standards
- Optional alarm output indicates air lock failure
- Type Y system certified for Class I, Division 1 to Division 2
- Type Z system certified for Class I, Division 2 to nonhazardous
- Enclosure volume up to 15 ft³

1002 Series



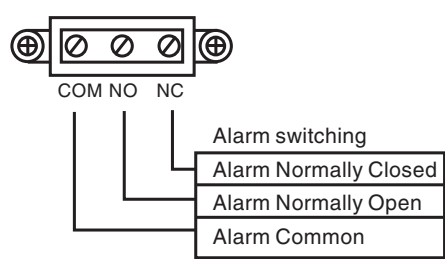
Function

The model 1002 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 four air exchanges and maintains a "safe" (0.25") pressure. A Pepperl+Fuchs Model EPV-2 Enclosure Protection Vent is required for proper operation. This process reduces the hazardous (classified) area rating within the enclosure(s), in accordance with the NEC - NFPA 70, Article 500, NFPA 496 and ISA 12.4.

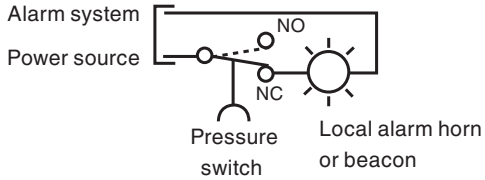
Connection

WPS

Terminal block connections

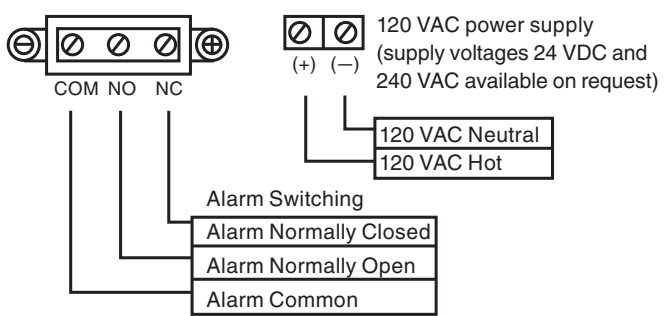


Wiring configuration

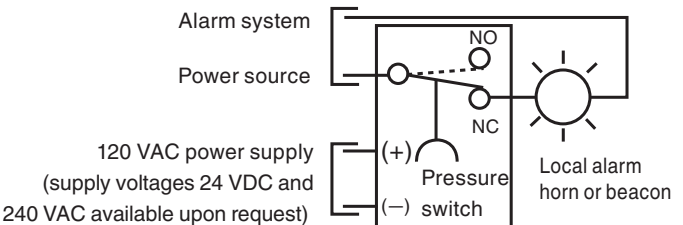


WPSA

Terminal block connections



Wiring configuration



Dimensions

Overall system dimensions			
LPS / WPS	LH - left hand	RH - right hand	TM - top mount
Height	10 / 15	10 / 15	10 / 10
Width	11 / 11	11 / 11	11 / 16
Depth	6 / 7.5	6 / 7.5	6 / 7.5
LPS / WPS	BM - bottom mount	WM - wall mount	FM & PM - surface
Height	10 / 10	10 / 15	12 / 17
Width	11 / 16	11 / 11	13 / 13
Depth	6 / 7.5	7.75 / 9.25	5 / 6.5
Dimensions in inches. Mounting dimensions available upon request. FM & PM panel cutout dimensions: LPS - 11 h x 12 w WPS - 16 h x 12 w. Height & Width dimensions reflect mounting plate measurements. Depth dimension reflects overall measurement of system, including components.			

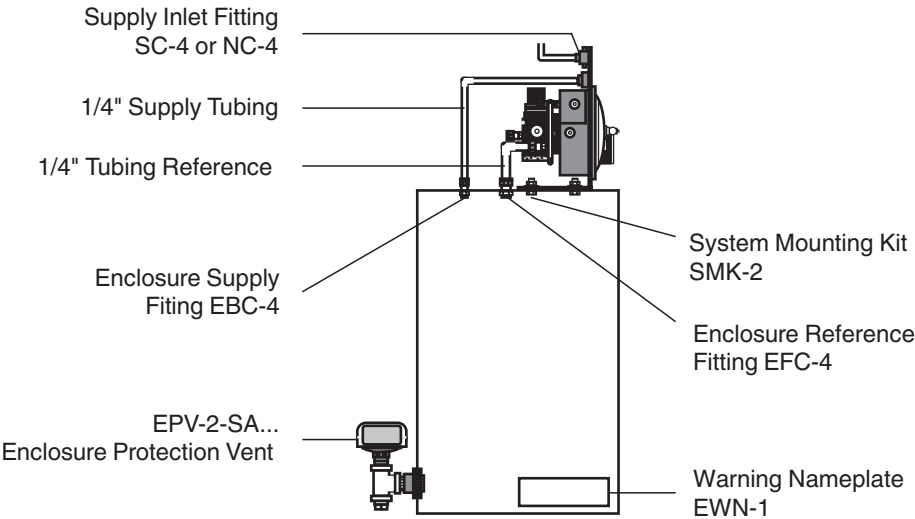
Technical Data

General specifications		
Series		1002
System		Type Y Purge , Type Z Purge
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
Safe pressure		Setpoint: 0.25" (6.35 mm) Flow rate: 0.1 - 3.5 SCFH (2.8 - 99 l /hr)
Operating conditions		
Process conditions		
Capacity and filtration		1.5 oz @ 20 μ
Exchange pressure		3" - 5"

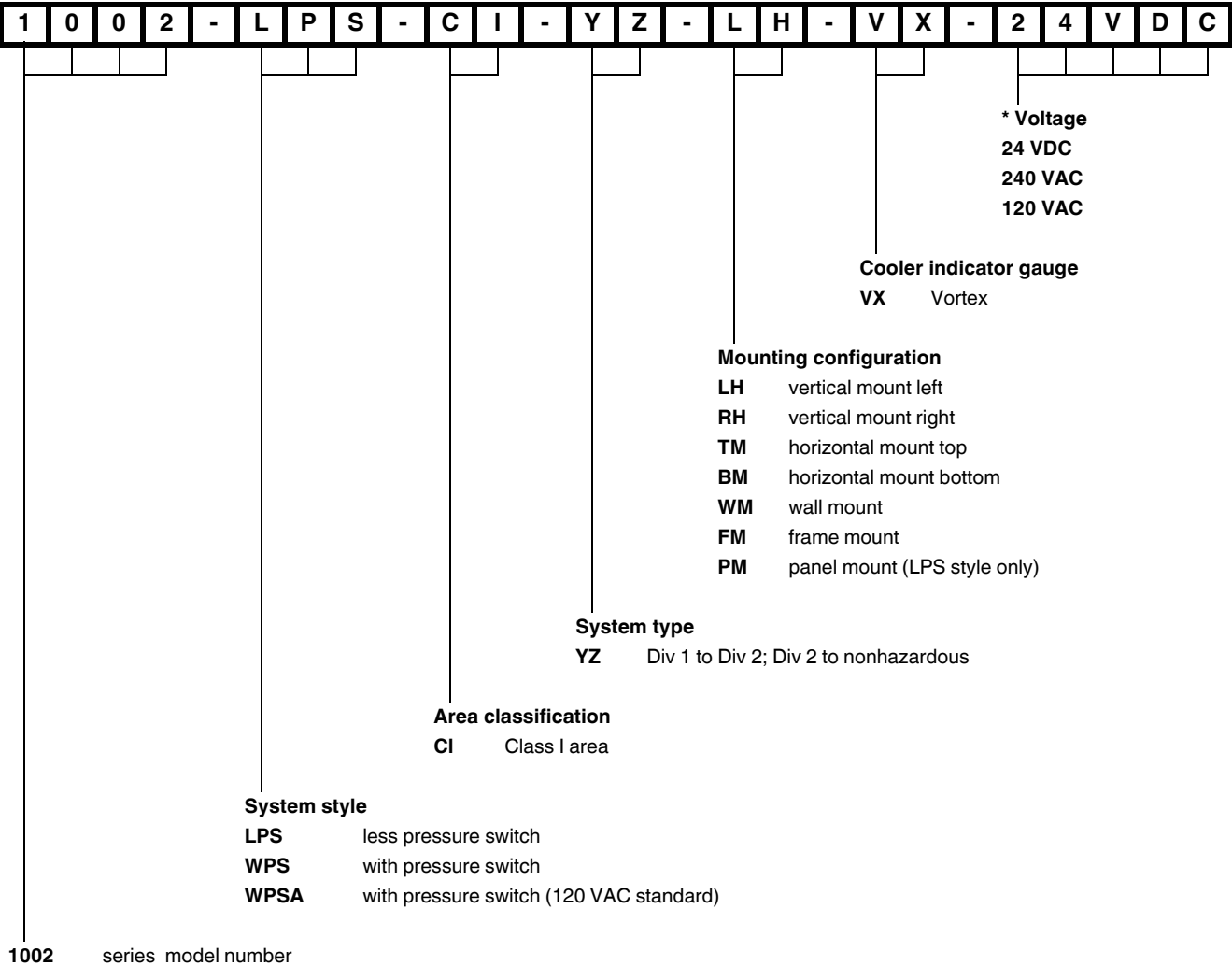
Technical Data

Exchange flow rate	4 SCFM / 240 SCFH (With regulator set to 60 psi min. during exchange)
Exchange time	1 min / ft ³
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	Filter regulator body: zinc w/enamel finish Regulator handle & bowl: polycarbonate Enclosure pressure gauge: alum. w/enamel finish Rapid Exchange [®] gauge: poly case and brass tube Tube fittings & valves: 316 ss forged body Tubing: 316 ss 1/4" .035 welded System nameplate: silk screened Lexan [®] & ss Fastener hardware: alum. & stainless steel Mounting plate: 316 14 ga #3 brush ss EXP pressure switch body: anodized cast aluminum Enclosure warning nameplate: silk screened ss
Mass	1002-LPS-* 4.5 kg (10 lb) 1002-WPS* 6.8 kg (15 lb)
International approvals	
FM approval	Type Y LPS: Class I, Division 1, Groups A, B, C, D WPS: Class I, 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 I, 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 I, 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 I, Division 2, Groups C, D WPSA: Class I, Division 2, Groups A, B, C, D

Assembly



Type Code



* only for WPSA option

Accessories

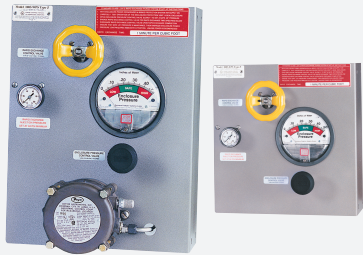
Connection fittings	
Part	Description
NC-4	1/4" ninety connector
SC-4	1/4" straight connector
EFC-4	1/4" flush connector
EBC-4	1/4" bulkhead connector
EPC-12	3/4" pipe connector
Additional items	
Part	Description
SMK-2	Surface Mounting Kit (-LH-, -RH-, -TM-, -BM-, -WM- models)
SMK-8	Surface Mounting Kit (-FM-, -PM- models)
EPSK-1	Explosion Proof Switch Kit (Class I areas)
EPSK-1A	Explosion Proof Switch Kit (Class I areas)
GPSK-1	General-purpose Switch Kit (Class I areas)
RAH	Remote Alarm Horn
RAB-1	Div. 1 Remote Alarm Beacon
RAB-2	Div. 2 Remote Alarm Beacon
LCK	L style conduit fitting kit
TCK	T style conduit fitting kit

Warning nameplates	
Part	Description
EWN-1	Class I enclosure warning
ETW	Enclosure temperature warning
Installation & Operation Manual	
Part	Description
DOCT-1355	Installation and Operation Manual

Type Y & Z purge and pressurization system

1003

BEBCO EPS®



- NFPA 70, NFPA 496, ISA 12.4 standards
- Optional alarm output indicates air lock failure
- Type Y system certified for Class I, Division 1 to Division 2
- Type Z system certified for Class I, Division 2 to nonhazardous
- Enclosure volume up to 75 ft³

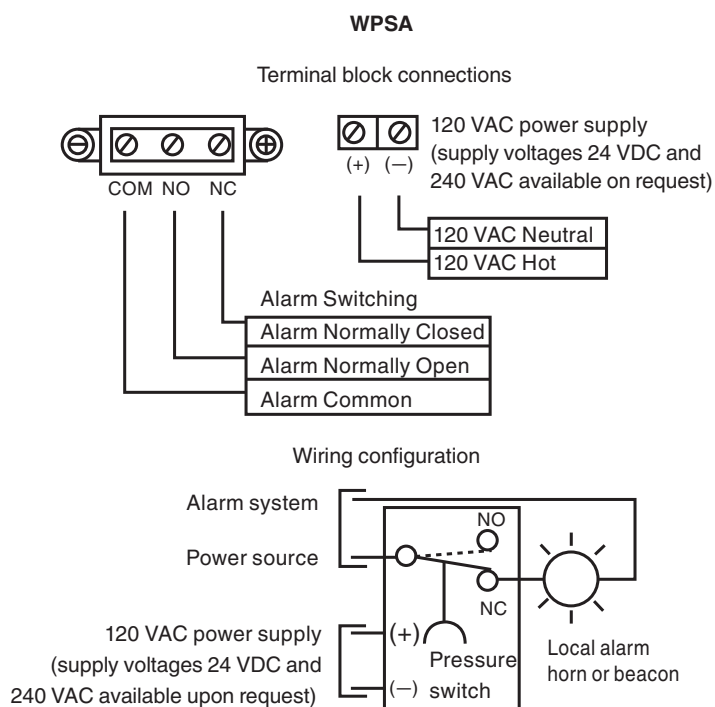
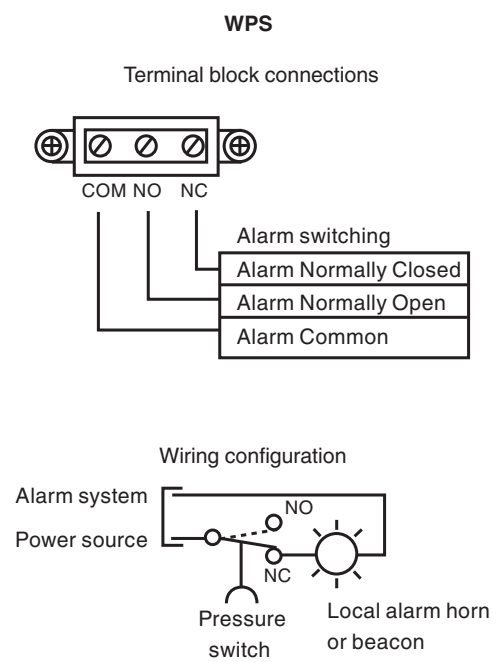
1003 Series purge and pressurization system



Function

The model 1003 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 four air exchanges and maintains a "safe" (0.25") pressure. A Pepperl+Fuchs Model EPV-3 Enclosure Protection Vent is required for proper operation. This process reduces the hazardous (classified) area rating within the enclosure(s), in accordance with the NEC - NFPA 70, Article 500, NFPA 496 and ISA 12.4.

Connection



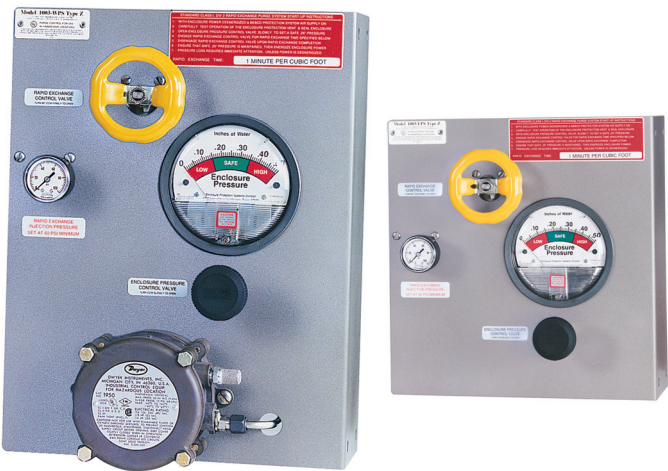
Technical Data

General specifications	
Series	1003
System	Type Y Purge , Type Z Purge

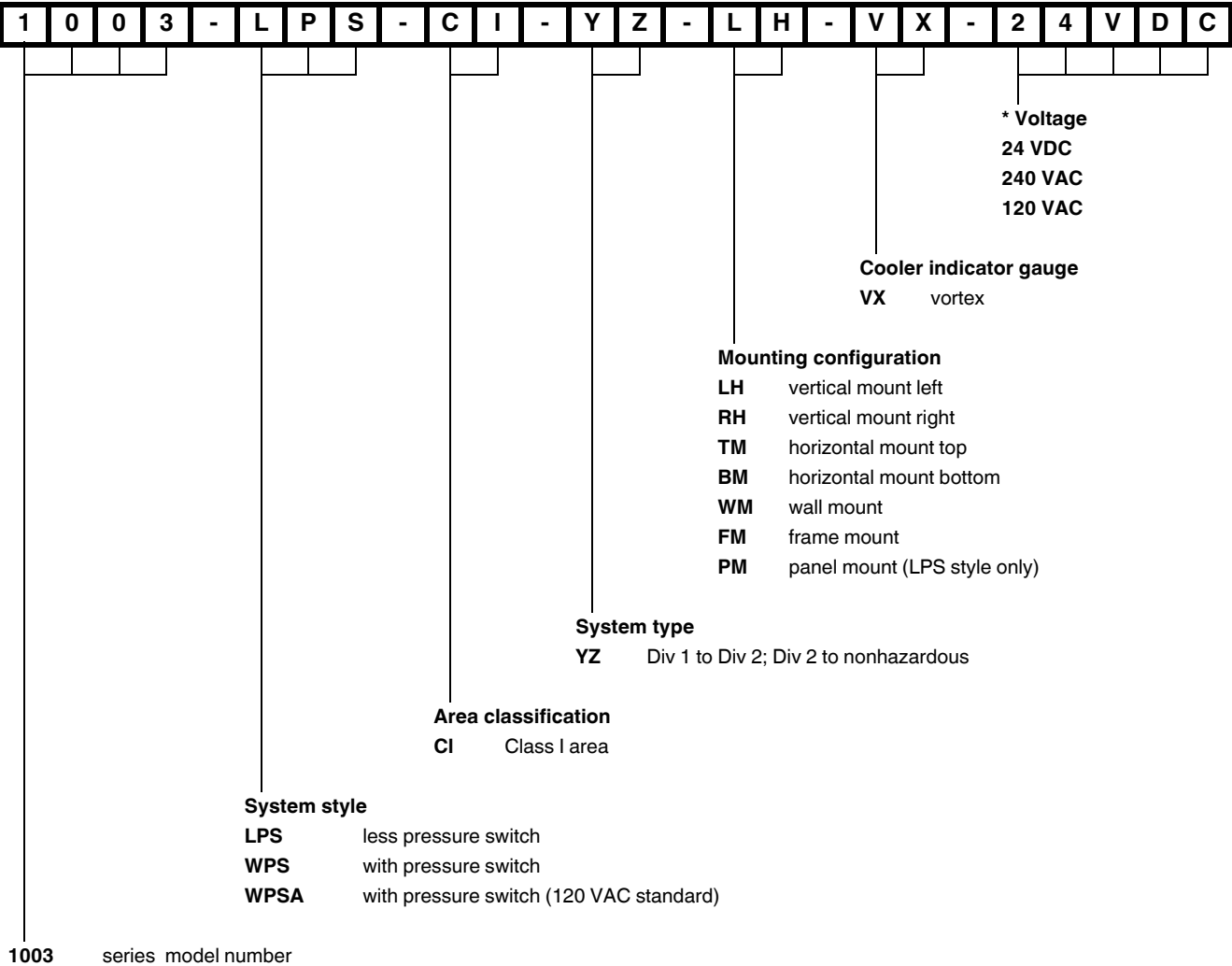
Technical Data

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
Safe pressure	Setpoint: 0.25" (6.35 mm) Flow rate: 0.1 - 3.5 SCFH (2.8 - 99 l /hr)
Operating conditions	
Process conditions	
Capacity and filtration	3.8 oz @ 40 µ
Exchange pressure	3" - 5"
Exchange flow rate	10 SCFM / 600 SCFH (With regulator set to 60 psi min. during exchange)
Exchange time	1 min / 2.5 ft ³
Ambient conditions	
Ambient temperature	-29 ... 49 °C (-20.2 ... 120.2 °F)
Mechanical specifications	
Connection type	System supply port: 3/8" FPT Enclosure supply fitting: 3/8" tube fitting Enclosure reference fitting: 1/4" tube fitting Switch conduit port size: 1/2" FPT
Material	Filter regulator body: zinc w/enamel finish Regulator handle & bowl: polycarbonate Enclosure pressure gauge: alum. w/enamel finish Rapid Exchange® gauge: poly case and brass tube Tube fittings & valves: 316 ss forged body Tubing: 316 ss 1/4" & 3/8" .035 welded System nameplate: silk screened Lexan® & ss Fastener hardware: alum. & stainless steel Mounting plate: 316 14 ga #3 brush ss EXP pressure switch body: anodized cast aluminum Enclosure warning nameplate: silk screened stainless steel
Mass	1003-LPS* 5.4 kg (12 lb) 1003-WPS* 7.7 kg (17 lb)
International approvals	
FM approval	Type Y LPS: Class I, Division 1, Groups A, B, C, D WPS: Class I, 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 I, 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 I, 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 I, Division 2, Groups C, D WPSA: Class I, Division 2, Groups A, B, C, D

Assembly



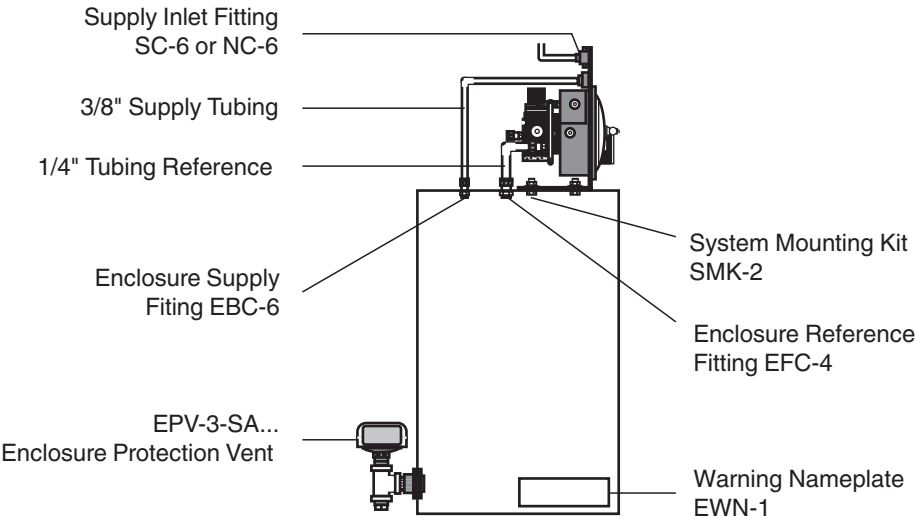
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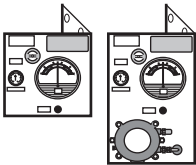
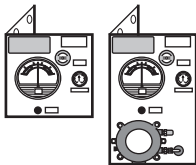
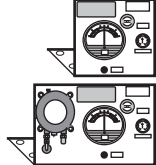
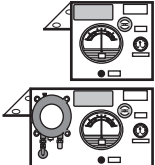
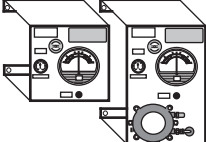
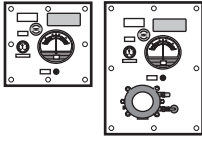
* only for WPSA option

Additional Information

Assembly



Dimensions

Overall system dimensions			
LPS / WPS	LH - left hand	RH - right hand	TM - top mount
Height	12 / 15	12 / 15	12 / 12
Width	11.5 / 11.5	11.5 / 11.5	11.5 / 16.25
Depth	6 / 7.5	6 / 7.5	6 / 7.5
			
LPS / WPS	BM - bottom mount	WM - wall mount	FM & PM - surface
Height	12 / 12	12 / 15	14 / 17
Width	11.5 / 15.25	11.5 / 15.25	13.5 / 13.5
Depth	6 / 7.5	7.75 / 9.25	5.75 / 7.25
Dimensions in inches. Mounting dimensions available upon request. FM & PM panel cutout dimensions: LPS - 13 h x 12.5 w WPS - 16 h x 12.5 w. Height & Width dimensions reflect mounting plate measurements. Depth dimension reflects overall measurement of system, including components.			

System Accessories

Connection fittings	
Part	Description
NC-6	1/4" ninety connector
SC-6	1/4" straight connector
EFC-4	1/4" flush connector
EFC-6	3/8" flush connector
EBC-6	3/8" bulkhead connector
EPC-13	1" pipe connector
Additional items	
Part	Description
SMK-2	Surface Mounting Kit (-LH-, -RH-, -TM-, -BM-, -WM- models)
SMK-8	Surface Mounting Kit (-FM-, -PM- models)
EPSK-1	Explosion Proof Switch Kit (Class I areas)
EPSK-1A	Explosion Proof Switch Kit (Class I areas)
GPSK-1	General-purpose Switch Kit (Class I areas)
RAH	Remote Alarm Horn
RAB-1	Div. 1 Remote Alarm Beacon
RAB-2	Div. 2 Remote Alarm Beacon
LCK	"L" style conduit fitting kit
TCK	"T" style conduit fitting kit
Warning nameplates	
Part	Description
EWN-1	Class I enclosure warning
ETW	Enclosure temperature warning
Installation & Operation Manual	
Part	Description
DOCT-1356	Installation and Operation Manual

Type Y & Z purge and pressurization system

1004

BEBCO EPS®



- NFPA 70, NFPA 496, ISA 12.4 standards
- Optional alarm output indicates air lock failure
- Type Y system certified for Class I, Division 1 to Division 2
- Type Z system certified for Class I, Division 2 to nonhazardous
- Enclosure volume up to 200 ft³

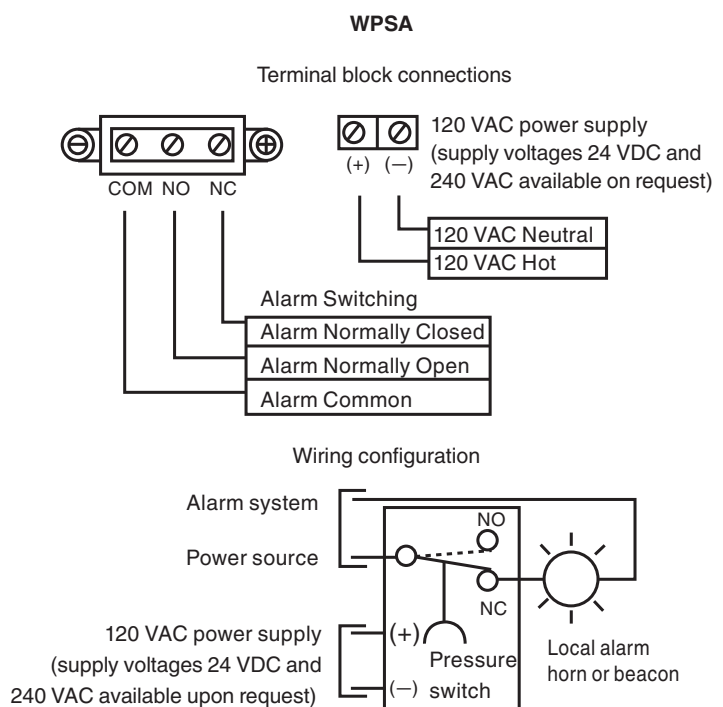
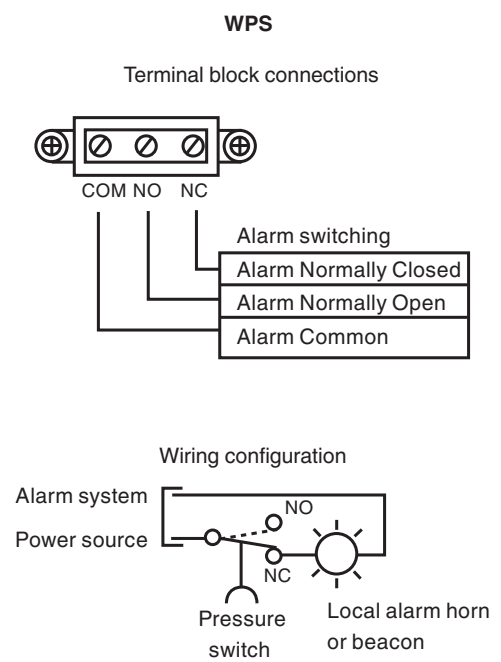
1004 Series purge and pressurization system



Function

The model 1004 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 four air exchanges and maintains a "safe" (0.25") pressure. A Pepperl+Fuchs Model EPV-4 Enclosure Protection Vent is required for proper operation. This process reduces the hazardous (classified) area rating within the enclosure(s), in accordance with the NEC - NFPA 70, Article 500, NFPA 496 and ISA 12.4.

Connection



Technical Data

General specifications	
Series	1004
System	Type Y Purge , Type Z Purge

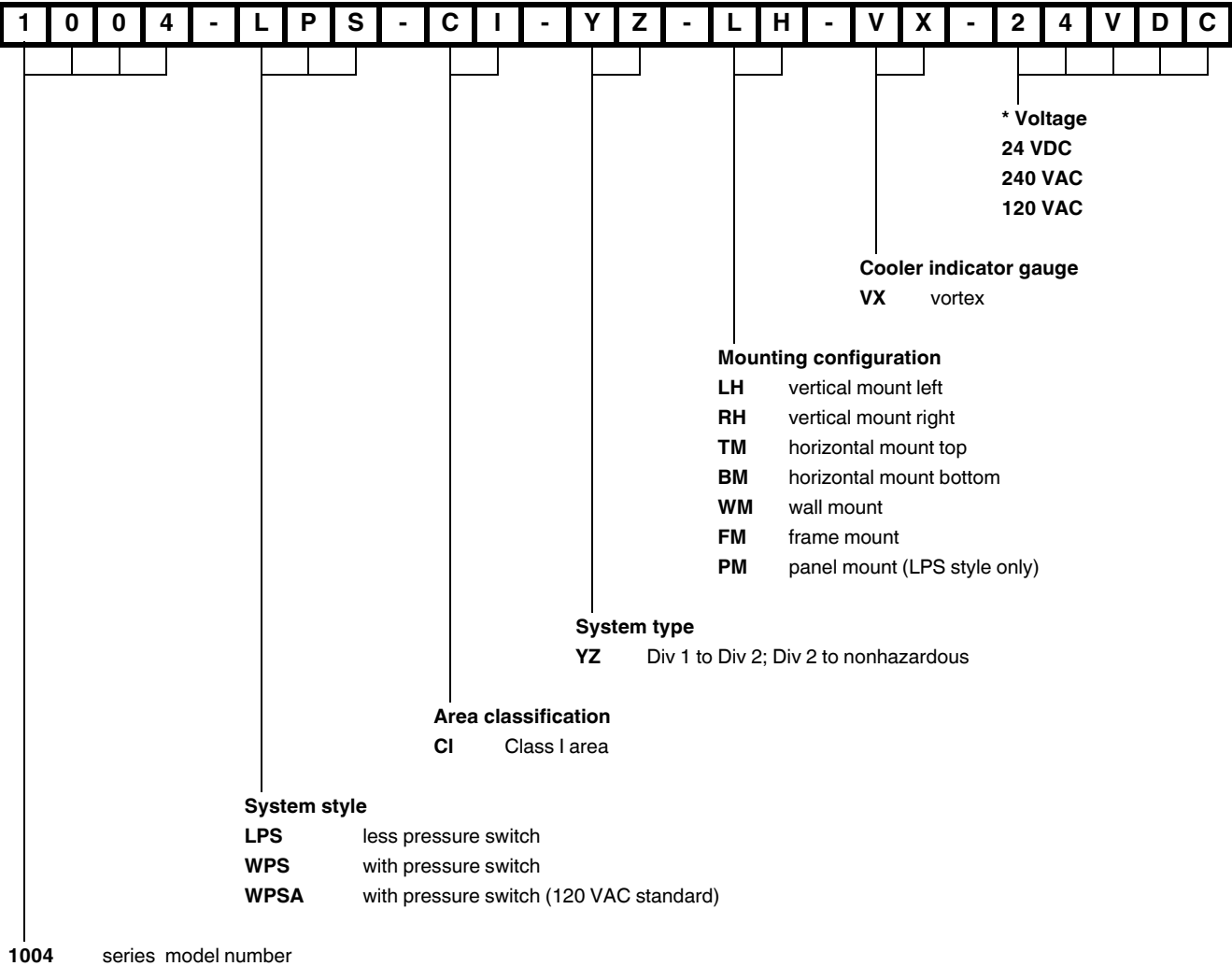
Technical Data

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
Safe pressure	Setpoint: 0.25" (6.35 mm) Flow rate: 0.1 - 3.5 SCFH (2.8 - 99 l /hr)
Operating conditions	
Process conditions	
Capacity and filtration	8.5 oz @ 40 µ
Exchange pressure	3" - 5"
Exchange flow rate	30 SCFM / 1800 SCFH (With regulator set to 80 psi min during exchange)
Exchange time	1 min / 7.5 ft ³
Ambient conditions	
Ambient temperature	-29 ... 49 °C (-20.2 ... 120.2 °F)
Mechanical specifications	
Connection type	System supply port: 1/2" FPT Enclosure supply fitting: 1/2" tube fitting Enclosure reference fitting: 1/4" tube Switch conduit port size: 1/2" FPT
Material	Filter regulator body: zinc w/enamel finish Regulator handle & bowl: polycarbonate Enclosure pressure gauge: alum. w/enamel finish Rapid Exchange® gauge: poly case and brass tube Tube fittings & valves: 316 ss forged body Tubing: 316 ss 1/4" & 1/2" .035 welded System nameplate: silk screened Lexan® & ss Fastener hardware: alum. & stainless steel Mounting plate: 316 14 ga #3 brush ss EXP pressure switch body: anodized cast aluminum Enclosure warning nameplate: silk screened stainless steel
Mass	1004-LPS* 6.8 kg (15 lb) 1004-WPS* 10.4 kg (23 lb)
International approvals	
FM approval	Type Y LPS: Class I, Division 1, Groups A, B, C, D WPS: Class I, 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 I, 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 I, 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 I, Division 2, Groups C, D WPSA: Class I, Division 2, Groups A, B, C, D

Assembly



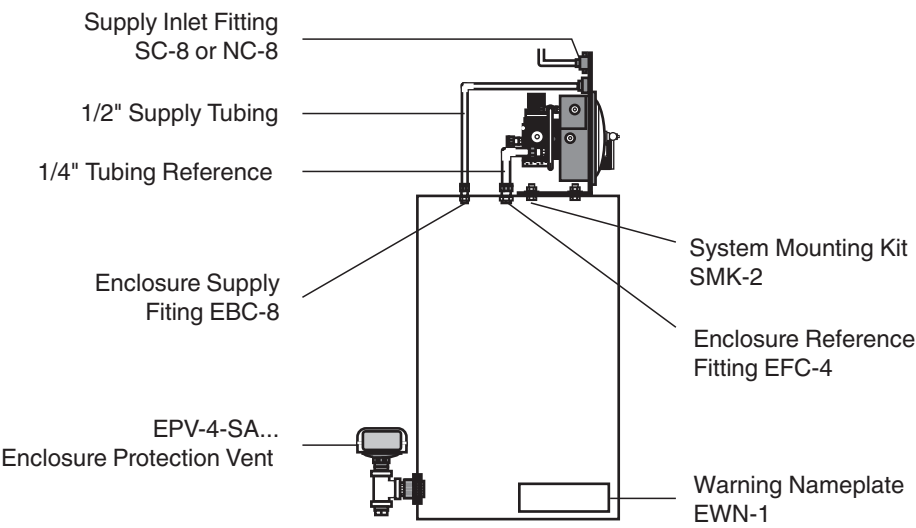
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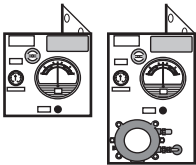
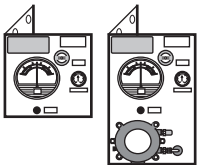
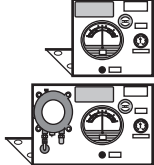
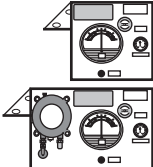
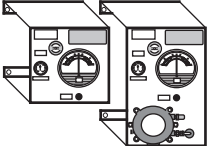
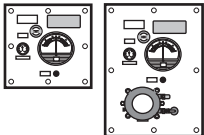
* only for WPSA option

Additional Information

Assembly



Dimensions

Overall system dimensions			
LPS / WPS	LH - left hand	RH - right hand	TM - top mount
Height	12 / 16.25	12 / 16.25	12 / 12
Width	13.5 / 13.5	13.5 / 13.5	13.5 / 16.75
Depth	6.75 / 8.25	6.75 / 8.25	6.75 / 8.25
			
LPS / WPS	BM - bottom mount	WM - wall mount	FM & PM - surface
Height	12 / 12	12 / 15	14 / 18.25
Width	13.5 / 16.75	13.5 / 13.5	15.5 / 15.5
Depth	6.75 / 8.25	7.75 / 9.25	6.75 / 8.25
Dimensions in inches. Mounting dimensions available upon request. FM & PM panel cutout dimensions: LPS - 13 h x 14.5 w WPS - 17.25 h x 14.5 w. Height & Width dimensions reflect mounting plate measurements. Depth dimension reflects overall measurement of system, including components.			

System Accessories

Connection fittings	
Part	Description
NC-8	1/2" ninety connector
SC-8	1/2" straight connector
EFC-4	1/4" flush 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-2	Surface Mounting Kit (-LH-, -RH-, -TM-, -BM-, -WM- models)
SMK-8	Surface Mounting Kit (-FM-, -PM- models)
EPSK-1	Explosion Proof Switch Kit (Class I areas)
EPSK-1A	Explosion Proof Switch Kit (Class I areas)
GPSK-1	General-purpose Switch Kit (Class I areas)
RAH	Remote Alarm Horn
RAB-1	Div. 1 Remote Alarm Beacon
RAB-2	Div. 2 Remote Alarm Beacon
LCK	"L" style conduit fitting kit
TCK	"T" style conduit fitting kit
Warning nameplates	
Part	Description
EWN-1	Class I enclosure warning
ETW	Enclosure temperature warning
Installation & Operation Manual	
Part	Description
DOCT-1357	Installation and Operation Manual

Type Y & Z purge and pressurization system

1005

BEBCO EPS®



- NFPA 70, NFPA 496, ISA 12.4 standards
- Optional alarm output indicates air lock failure
- Type Y system certified for Class I, Division 1 to Division 2
- Type Z system certified for Class I, Division 2 to nonhazardous
- Enclosure volume up to 450 ft³

1005 Series purge and pressurization system



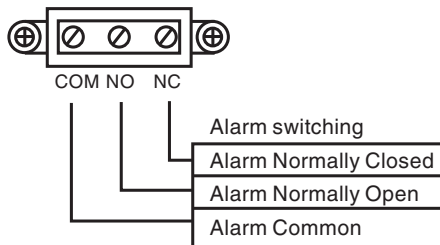
Function

The model 1005 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 four air exchanges and maintains a "safe" (0.25") pressure. A Pepperl+Fuchs Model EPV-5 Enclosure Protection Vent is required for proper operation. This process reduces the hazardous (classified) area rating within the enclosure(s), in accordance with the NEC - NFPA 70, Article 500, NFPA 496 and ISA 12.4.

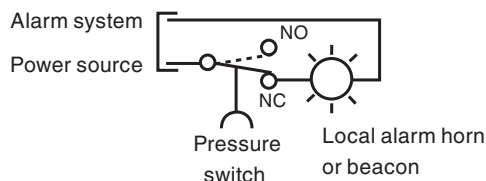
Connection

WPS

Terminal block connections

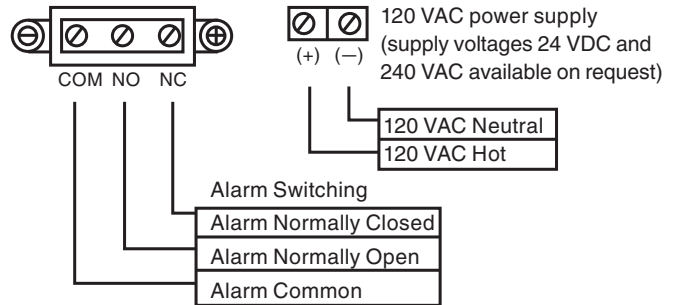


Wiring configuration

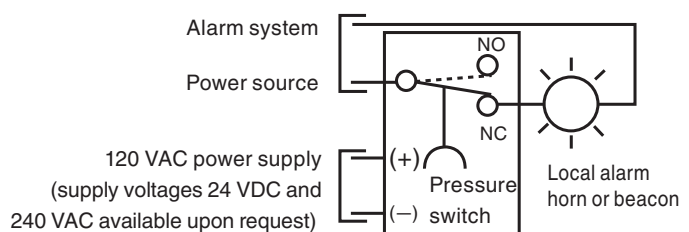


WPSA

Terminal block connections



Wiring configuration



Technical Data

General specifications

Series	1005
System	Type Y Purge , Type Z Purge

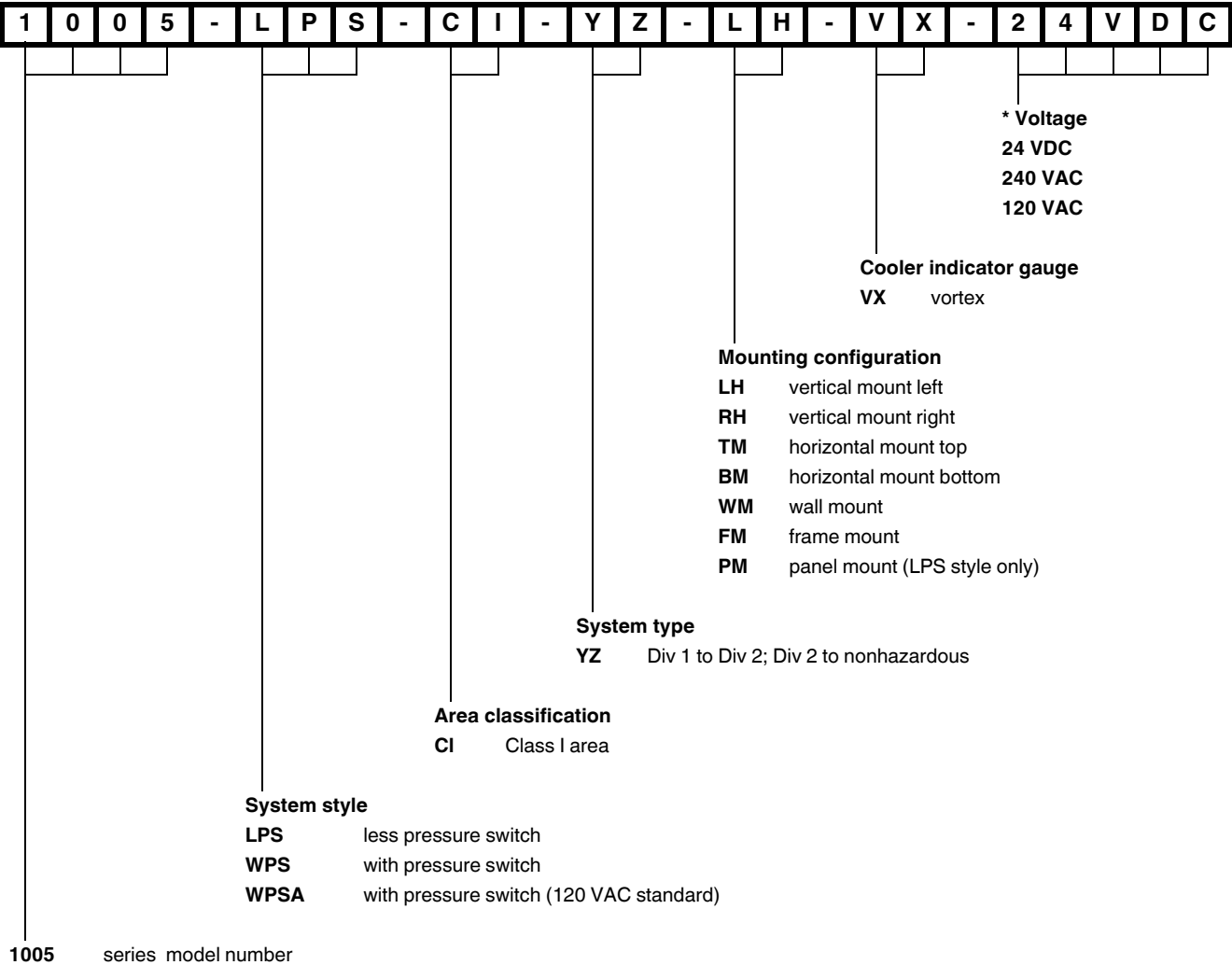
Technical Data

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
Safe pressure	Setpoint: 0.25" (6.35 mm) Flow rate: 0.1 - 3.5 SCFH (2.8 - 99 l /hr)
Operating conditions	
Process conditions	
Capacity and filtration	8.5 oz @ 40 µ
Exchange pressure	3" - 5"
Exchange flow rate	60 SCFM / 3600 SCFH (With regulator set to 80 psi min during exchange)
Exchange time	1 min / 15 ft ³
Ambient conditions	
Ambient temperature	-29 ... 49 °C (-20.2 ... 120.2 °F)
Mechanical specifications	
Connection type	System supply port: 1/2" FPT Enclosure supply fitting: 1/2" FPT Enclosure reference fitting: 1/4" tube fitting Switch conduit port size: 1/2" FPT
Material	Filter regulator body: zinc w/enamel finish Regulator handle & bowl: polycarbonate Enclosure pressure gauge: alum. w/enamel finish Rapid Exchange® gauge: poly case and brass tube Tube fittings & valves: 316 ss forged body Tubing: 316 ss 1/4" .035 welded System nameplate: silk screened Lexan® & ss Fastener hardware: alum. & stainless steel Mounting plate: 316 14 ga #3 brush ss EXP pressure switch body: anodized cast aluminum Enclosure warning nameplate: silk screened ss
Mass	1005-LPS* 6.8 kg (15 lb) 1005-WPS* 11.3 kg (25 lb)
International approvals	
FM approval	Type Y LPS: Class I, Division 1, Groups A, B, C, D WPS: Class I, 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 I, 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 I, 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 I, Division 2, Groups C, D WPSA: Class I, Division 2, Groups A, B, C, D

Assembly



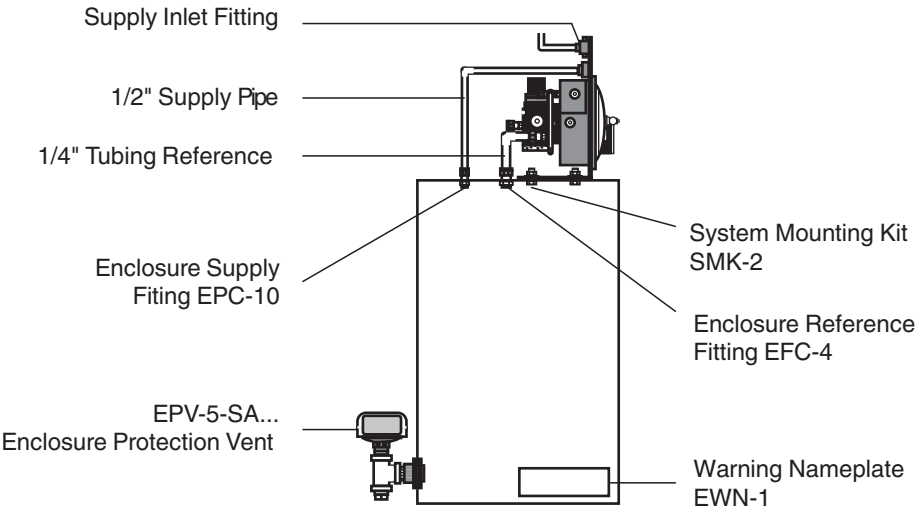
Type Code



* only for WPSA option

Additional Information

Assembly



Dimensions

Overall system dimensions			
LPS / WPS	LH - left hand	RH - right hand	TM - top mount
Height	13.5 / 17.75	13.5 / 17.75	14 / 13
Width	13.5 / 13.5	13.5 / 13.5	13.5 / 16.125
Depth	6 / 7.5	6 / 7.5	6 / 7.5
LPS / WPS	BM - bottom mount	WM - wall mount	FM & PM - surface
Height	14 / 13	15 / 17.75	15.5 / 19.75
Width	13.5 / 16.125	13.5 / 13.5	15.5 / 15.5
Depth	6 / 7.5	7.75 / 9.25	5 / 6.5
Dimensions in inches. Mounting dimensions available upon request. FM & PM panel cutout dimensions: LPS - 13.5 h x 14.5 w WPS - 18.75 h x 14.5 w. Height & Width dimensions reflect mounting plate measurements. Depth dimension reflects overall measurement of system, including components.			

System Accessories

Connection fittings	
Part	Description
EFC-4	1/4" flush connector
EPC-10	1/2" pipe connector
EPC-15	2" pipe connector
Additional items	
Part	Description
SMK-2	Surface Mounting Kit (-LH-, -RH-, -TM-, -BM-, -WM- models)
SMK-8	Surface Mounting Kit (-FM-, -PM- models)
EPSK-1	Explosion Proof Switch Kit (Class I areas)
EPSK-1A	Explosion Proof Switch Kit (Class I areas)
GPSK-1	General-purpose Switch Kit (Class I areas)
RAH	Remote Alarm Horn
RAB-1	Div. 1 Remote Alarm Beacon
RAB-2	Div. 2 Remote Alarm Beacon
LCK	"L" style conduit fitting kit
TCK	"T" style conduit fitting kit
Warning nameplates	
Part	Description
EWN-1	Class I enclosure warning
ETW	Enclosure temperature warning
Installation & Operation Manual	
Part	Description
DOCT-1358	Installation and Operation Manual

Type Y & Z purge and pressurization system

11

BEBCO EPS®



- NFPA 70, NFPA 496, ISA 12.4 standards
- Optional alarm output indicates air lock failure
- Type Y system certified for Class I and Class II, Division 1 to Division 2
- Type Z system certified for Class I and Class II, Division 2 to nonhazardous area
- Class I enclosure volume up to 2 ft³
- Class II enclosure volume up to 10 ft³

11 Series

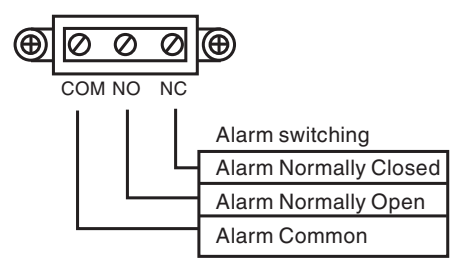


Function

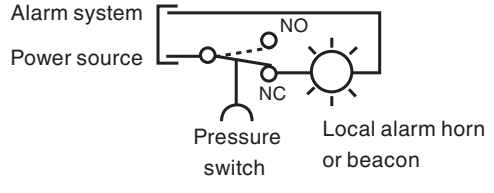
The model 11 is an enclosure pressurization or purging system that operates on a supply of compressed instrument air or inert gas. The system regulates and monitors pressure within sealed (protected) enclosure(s), in order to prevent combustible dust accumulation or remove and prevent flammable gas or vapor accumulations. In Class II areas, the system maintains a "safe" (1.0") pressure. In Class I areas, the system accomplishes four air exchanges and maintains a "safe" (0.25") pressure. These processes reduce the hazardous (classified) area rating within the enclosure(s), in accordance with the NEC - NFPA 70, Article 500, NFPA 496 and ISA 12.4.

Connection

Terminal block connections



Wiring configuration



Technical Data

General specifications	
Series	11
System	Type Y Purge , Type Z Purge

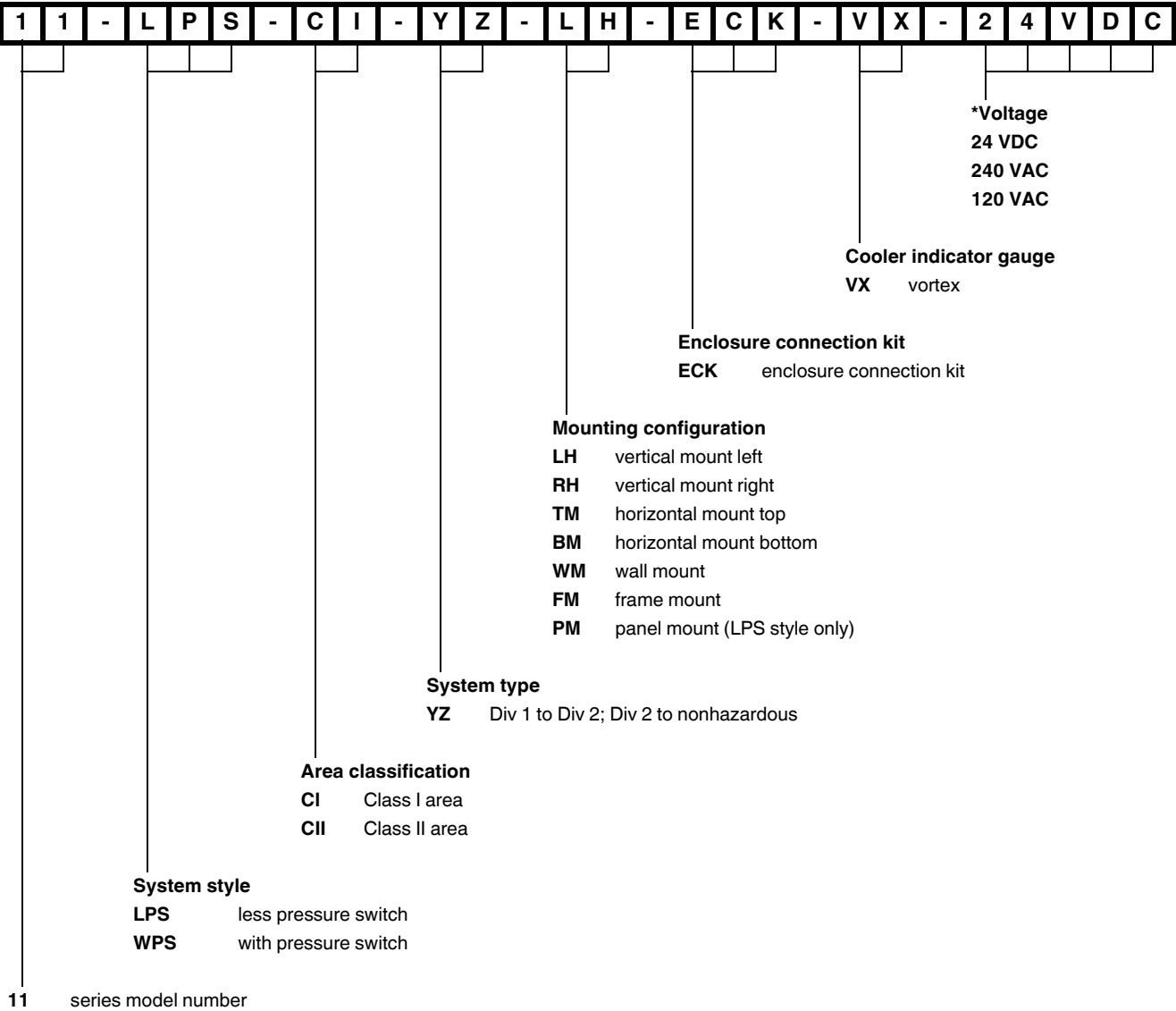
Technical Data

Hazardous environment	gas
Electrical specifications	
Connection	Terminal blocks
Output	
Output I	-WPS-
Output type	Switch contacts
Contact loading	120 VAC @ 15 A
Pneumatic parameters	
Protective gas supply	instrument grade air or inert gas
Pressure requirement	5 - 120 psi (With EPV-1 vent. Systems installed without vent must be equipped with redundant regulator set to 5 psi max.)
Safe pressure	Setpoint: Class I: 0.25" (6.35 mm); Class II: 1.0" (25.4 mm) Flow rate: 0.1 - 3.5 SCFH (2.8 - 99 l/hr)
Ambient conditions	
Ambient temperature	4.4 ... 49 °C (39.9 ... 120.2 °F)
Mechanical specifications	
Connection type	System supply fitting: 1/4" tube fitting Enclosure supply fitting: 1/4" tube fitting Enclosure reference fitting: 1/4" tube fitting Switch conduit port size: 1/2" FPT
Material	Regulator body: zinc w/enamel finish Regulator handle: polycarbonate Enclosure pressure gauge: ABS plastic Tube fittings: 316 ss forged body Tubing: 316 ss 1/4" .035 welded System nameplate: silk screened Lexan® & ss Fastener hardware: alum. & stainless steel Mounting plate: 316 14 ga #3 brush ss EXP pressure switch body: anodized cast aluminum Enclosure warning nameplate: silk screened ss
Mass	11-LPS-* 2.3 kg (5 lb) 11-WPS-* 4.5 kg (10 lb)
International approvals	
FM approval	Type Y LPS: Class I, Division 1, Groups A, B, C, D; Class II, Division 1, Groups F, G WPS: Class I, Division 1, Groups C, D; Class II, Division 1, Groups F, G Type Z LPS: Class I, Division 2, Groups A, B, C, D; Class II, Division 2, Groups F, G WPS: Class I, Division 2, Groups C, D; Class II, Division 2, Groups F, G
UL approval	
cULus	Type Y LPS: Class I, Division 1, Groups A, B, C, D; Class II, Division 1, Groups F, G WPS: Class I, Division 1, Groups C, D; Class II, Division 1, Groups F, G Type Z LPS: Class I, Division 2, Groups A, B, C, D; Class II, Division 2, Groups F, G WPS: Class I, Division 2, Groups C, D; Class II, Division 2, Groups F, G

Assembly



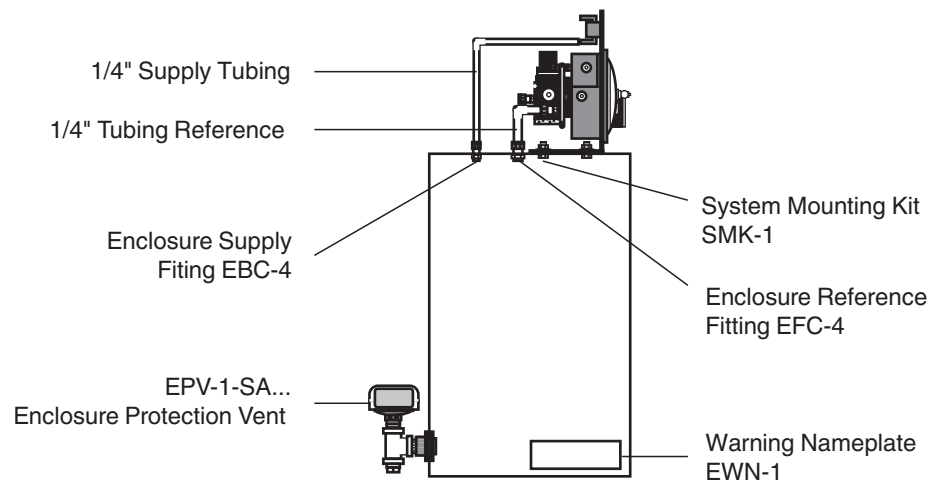
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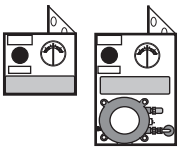
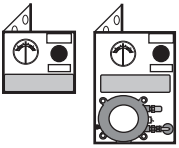
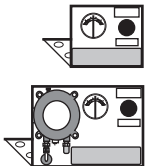
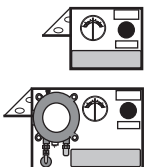
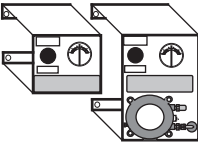
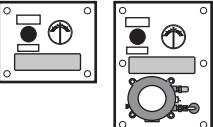
* only for WPS option

Additional Information

Assembly



Dimensions

Overall system dimensions			
LPS / WPS	LH - left hand	RH - right hand	TM - top mount
Height	6.25 / 10.75	6.25 / 10.75	6.25 / 8.5
Width	6 / 7.5	6 / 7.5	7.5 / 13.375
Depth	5.5 / 7.25	5.5 / 7.25	5.5 / 7.25
			
LPS / WPS	BM - bottom mount	WM - wall mount	FM & PM - surface
Height	6.25 / 8.5	6.25 / 10.75	8.25 / 12.75
Width	7.5 / 13.375	6 / 7.5	8 / 9.5
Depth	5.5 / 7.25	5.5 / 7.25	4.5 / 7
Dimensions in inches. Mounting dimensions available upon request. FM & PM panel cutout dimensions: LPS - 7.25 h x 7 w WPS - 11.75 h x 8.5 w. Height & Width dimensions reflect mounting plate measurements. Depth dimension reflects overall measurement of system, including components.			

System Accessories

Factory installed fittings	
Part	Description
ECK-11	Enclosure Connection Kit
Connection fittings	
Part	Description
EFC-4	1/4" flush connector
EBC-4	1/4" bulkhead connector
EPC-10	1/2" pipe connector
Additional items	
Part	Description
ILF-4	1/4" In-Line Filter
SMK-1	Surface Mounting Kit (-LH-, -RH-, -TM-, -BM-, -WM- models)
SMK-4	Surface Mounting Kit (-FM-, -PM- models)
SMK-6	Surface Mounting Kit (-FM-, -PM- models)
PMK-1	Pipe Mounting Kit
GCK	Gauge Conversion Kit
EPSK-1	Explosion Proof Switch Kit (Class I areas)
EPSK-1A	Explosion Proof Switch Kit (Class I areas)
EPSK-2	Explosion Proof Switch Kit (Class II areas)
EPSK-2A	Explosion Proof Switch Kit (Class II areas)
GPSK-1	General-purpose Switch Kit (Class I areas)
GPSK-2	General-purpose Switch Kit (Class II areas)
RAH	Remote Alarm Horn
RAB-1	Div. 1 Remote Alarm Beacon
RAB-2	Div. 2 Remote Alarm Beacon
LCK	"L" style conduit fitting kit
TCK	"T" style conduit fitting kit
Hex key regulator handles	
Part	Description
TR-10G	Tamper proof regulator with gauge
Warning nameplates	
Part	Description
EWN-1	Class I enclosure warning
EWN-2	Class II enclosure warning
ETW	Enclosure temperature warning
Installation & Operation Manual	
Part	Description
DOCT-1359	Installation and Operation Manual



Type Z purge and pressurization system

1011

- NFPA 70, NFPA 496, ISA 12.4 standards
- Optional alarm output indicates air lock failure
- Type Z system certified for Class I and Class II, Division 2 to nonhazardous area
- Class I enclosure volume up to 2 ft³
- Class II enclosure volume up to 10 ft³

1011 Series purge and pressurization system



Function

The model 1011 is an enclosure pressurization or 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 prevent combustible dust accumulation or remove and prevent flammable gas or vapor accumulations. In Class II areas, the system maintains a "safe" (1.0") pressure. In Class I areas, the system accomplishes four air exchanges and maintains a "safe" (0.25") pressure. These processes reduce the hazardous (classified) area rating within the enclosure(s), in accordance with the NEC - NFPA 70, Article 500, NFPA 496 and ISA 12.4.

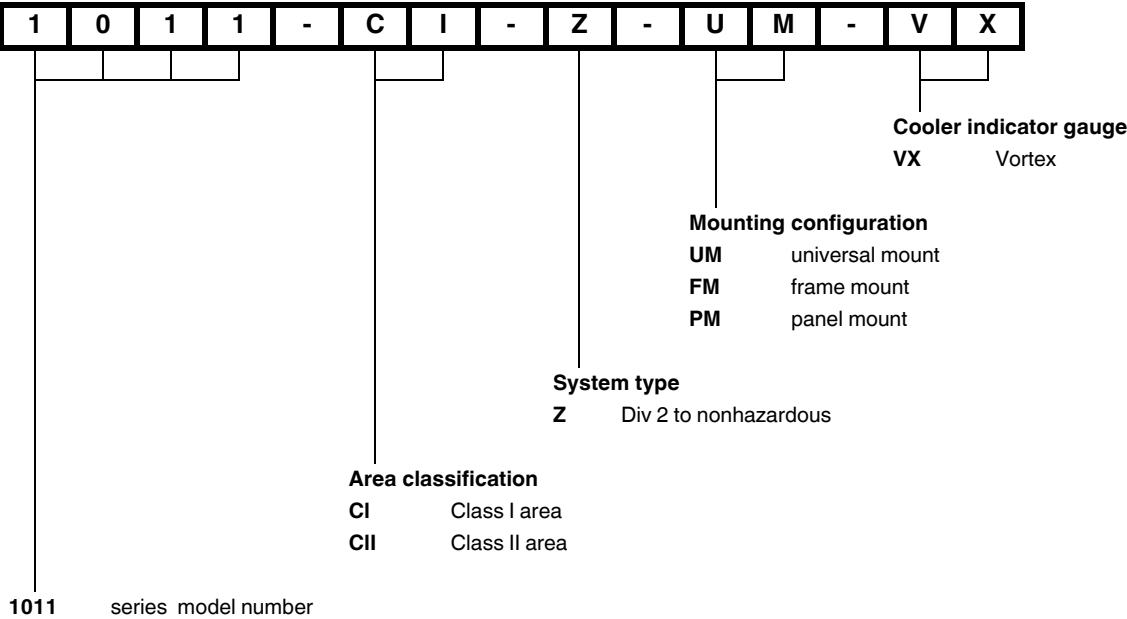
Technical Data

General specifications	
Series	1011
System	Type Y Purge , Type Z Purge
Hazardous environment	gas
Pneumatic parameters	
Protective gas supply	instrument grade air or inert gas
Pressure requirement	5 - 120 psi (With EPV-1 vent. Systems installed without vent must be equipped with redundant regulator set to 5 psi max.)
Safe pressure	Setpoint: Class I: 0.25" (6.35 mm); Class II: 1.0" (25.4 mm) Flow rate: 0.1 - 3.5 SCFH (2.8 - 99 l /hr)
Ambient conditions	
Ambient temperature	-29 ... 49 °C (-20.2 ... 120.2 °F)
Mechanical specifications	
Connection type	System supply fitting: 1/4" tube fitting Enclosure supply fitting: 1/4" tube fitting Enclosure reference fitting: 1/4" tube fitting
Material	Regulator body: brass, zinc w/enamel finish Regulator handle: polycarbonate Enclosure pressure gauge: alum w/ enamel finish Tube fittings: 316 ss forged body Tubing: 316 ss 1/4" .035 welded System nameplate: silk screened Lexan® Fastener hardware: alum. & stainless steel Mounting plate & bracket: anodized aluminum Enclosure warning nameplate: silk screened ss
Mass	3.2 kg (7 lb)
International approvals	
UL approval	
cULus	Class I, Division 2, Groups A, B, C, D Class II, Division 2, Groups F, G

Assembly

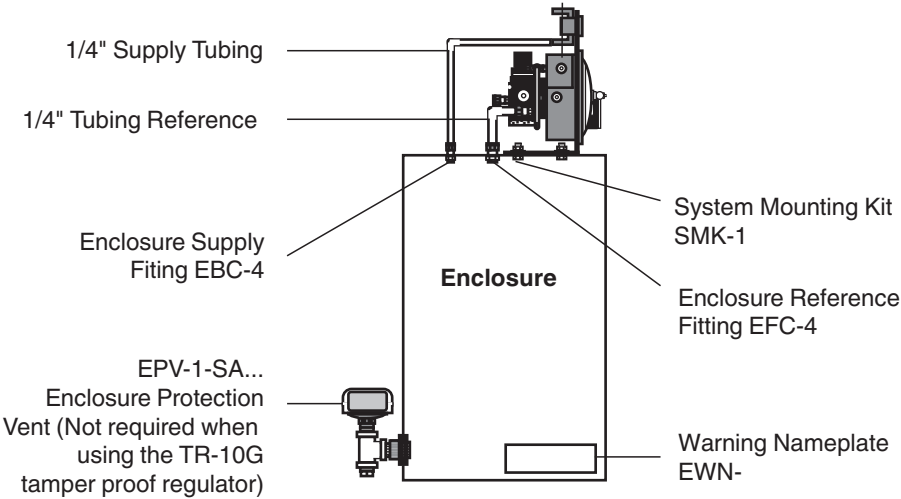


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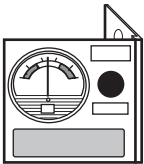
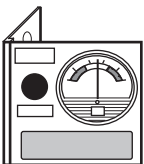
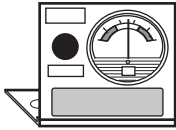
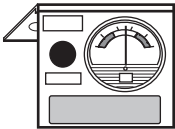
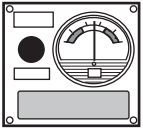
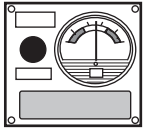


Additional Information

Assembly



Dimensions

Overall system dimensions			
Configuration	UM - left hand	UM - right hand	UM - top mount
Height	8	8	8.25
Width	8.25	8.25	8
Depth	5	5	5
			
Configuration	UM - bottom mount	FM - frame mount	PM - panel mount
Height	8.25	8	8
Width	8	8	8
Depth	5	5	5
Dimensions in inches. Mounting dimensions available upon request. FM & PM panel cutout dimensions: 7.625 h x 7.625 w. Height & Width dimensions reflect mounting plate measurements. Depth dimension reflects overall measurement of system, including components.			

System Accessories

Connection fittings	
Part	Description
EFC-4	1/4" flush connector
EBC-4	1/4" bulkhead connector
EPC-10	1/2" pipe connector
Additional items	
Part	Description
ILF-4	1/4" In-Line Filter
SMK-1	Surface Mounting Kit (-LH-, -RH-, -TM-, -BM-, -WM- models)
SMK-4	Surface Mounting Kit (-FM-, -PM- models)
EPSK-1	Explosion Proof Switch Kit (Class I areas)
EPSK-1A	Explosion Proof Switch Kit (Class I areas)
EPSK-2	Explosion Proof Switch Kit (Class II areas)
EPSK-2A	Explosion Proof Switch Kit (Class II areas)
GPSK-1	General-purpose Switch Kit (Class I areas)
GPSK-2	General-purpose Switch Kit (Class II areas)
RAH	Remote Alarm Horn
RAB-2	Div. 2 Remote Alarm Beacon
LCK	"L" style conduit fitting kit
TCK	"T" style conduit fitting kit
Hex key regulator handles	
Part	Description
TR-10G	Tamper proof regulator with gauge
Warning nameplates	
Part	Description
EWN-1	Class I enclosure warning
EWN-2	Class II enclosure warning
ETW	Enclosure temperature warning
Installation & Operation Manual	
Part	Description
DOCT-1360	Installation and Operation Manual



Type Z purge and pressurization system

1012

- NFPA 70, NFPA 496, ISA 12.4 standards
- Optional alarm output indicates air lock failure
- Type Z system certified for Class I, Division 2 to nonhazardous
- Enclosure volume up to 15 ft³

1012 Series



Function

The model 1012 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 four air exchanges and maintains a "safe" (0.25") pressure. A Pepperl+Fuchs Model EPV-2 Enclosure Protection Vent is required for proper operation. This process reduces the hazardous (classified) area rating within the enclosure(s), in accordance with the NEC - NFPA 70, Article 500, NFPA 496 and ISA 12.4.

Technical Data

General specifications		
Series		1012
System		Type Y Purge , Type Z Purge
Hazardous environment		gas
Pneumatic parameters		
Protective gas supply		instrument grade air or inert gas
Pressure requirement		80 - 120 psi
Safe pressure		Setpoint: 0.25" (6.35 mm) Flow rate: 0.1 - 3.5 SCFH (2.8 - 99 l /hr)
Operating conditions		
Process conditions		
Capacity and filtration		1.5 oz @ 20 µ
Exchange pressure		3" - 5"
Exchange flow rate		4 SCFM / 240 SCFH (With regulator set to 60 psi min. during exchange)
Exchange time		1 min / ft ³
Ambient conditions		
Ambient temperature		-29 ... 49 °C (-20.2 ... 120.2 °F)
Mechanical specifications		
Connection type		System supply port: 1/4" FTP Enclosure supply fitting: 1/4" tube fitting Enclosure reference fitting: 1/4" tube fitting
Material		Filter regulator body: zinc w/enamel finish Regulator handle & bowl: polycarbonate Enclosure pressure gauge: alum. w/enamel finish Rapid Exchange® gauge: poly case and brass tube Tube fittings & valves: 316 ss forged body Tubing: 316 ss 1/4" .035 welded System nameplate: silk-screened Lexan® & 6061 aluminum Fastener hardware: alum. & stainless steel Mounting plate: 6061 Aluminum Enclosure warning nameplate: silk-screened stainless steel

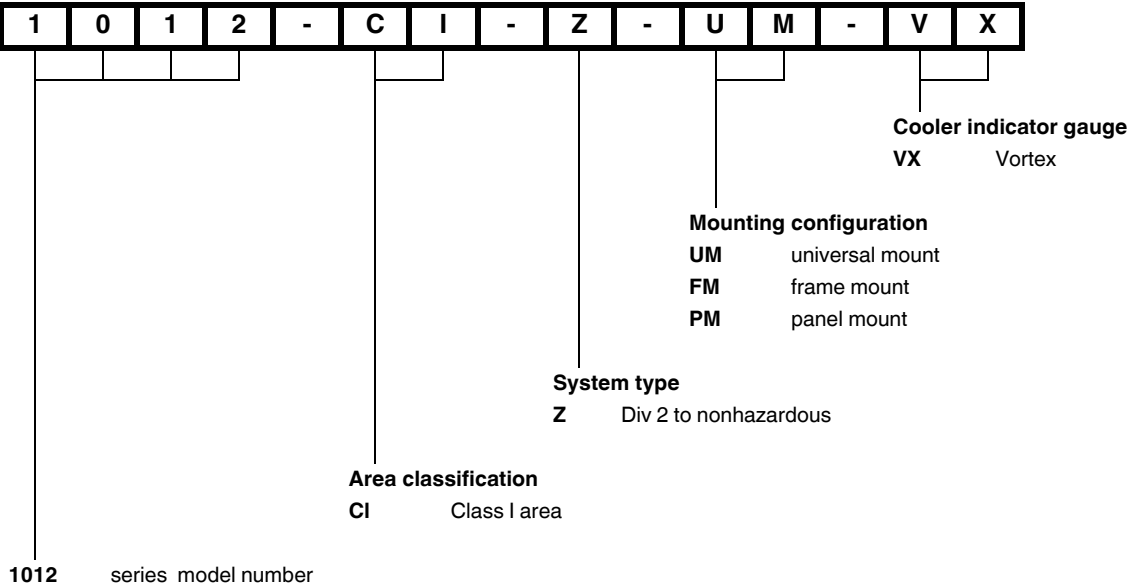
Technical Data

Mass	4.5 kg (10 lb)		
International approvals			
UL approval			
cULus		Class I, Division 2, Groups A, B, C, D	

Assembly

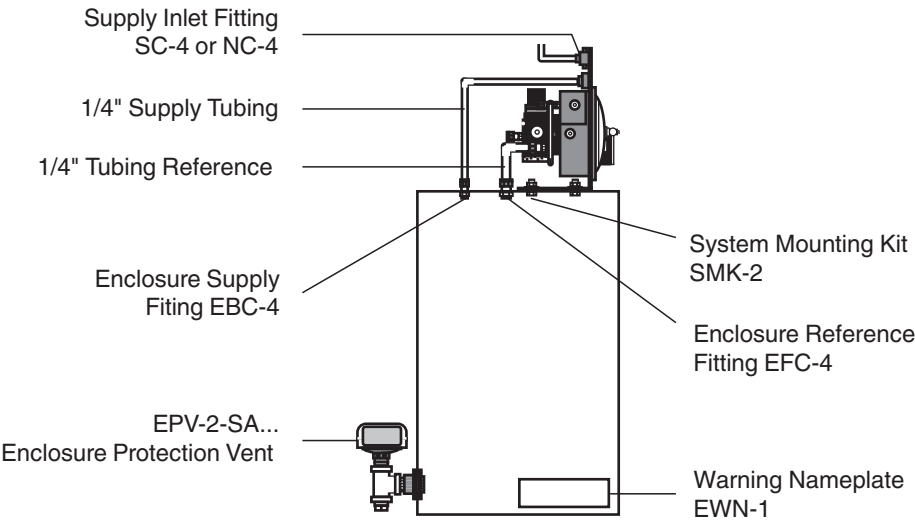


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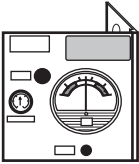
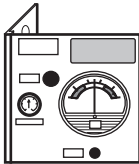
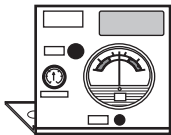
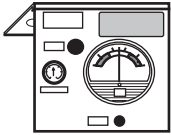
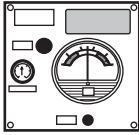
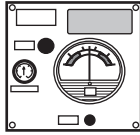


Additional Information

Assembly



Dimensions

Overall system dimensions			
Configuration	UM - left hand	UM - right hand	UM - top mount
Height	12	12	12.25
Width	12.25	12.25	12
Depth	5	5	5
			
Configuration	UM - bottom mount	FM - frame mount	PM - panel mount
Height	12.25	12	12
Width	12	12	12
Depth	5	5	5
Dimensions in inches. Mounting dimensions available upon request. FM & PM panel cutout dimensions: 11.625 h x 11.625 w. Height & Width dimensions reflect mounting plate measurements. Depth dimension reflects overall measurement of system, including components.			

System Accessories

Connection fittings	
Part	Description
NC-4	1/4" ninety connector
SC-4	1/4" straight connector
EFC-4	1/4" flush connector
EBC-4	1/4" bulkhead connector
EPC-12	3/4" pipe connector
Additional items	
Part	Description
SMK-1	Surface Mounting Kit (-LH-, -RH-, -TM-, -BM-, models
SMK-4	Surface Mounting Kit (-FM-, -PM- models)
EPSK-1	Explosion Proof Switch Kit (Class I areas)
EPSK-1A	Explosion Proof Switch Kit (Class I areas)
GPSK-1	General-purpose Switch Kit (Class I areas)
RAH	Remote Alarm Horn
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-1361	Installation and Operation Manual



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

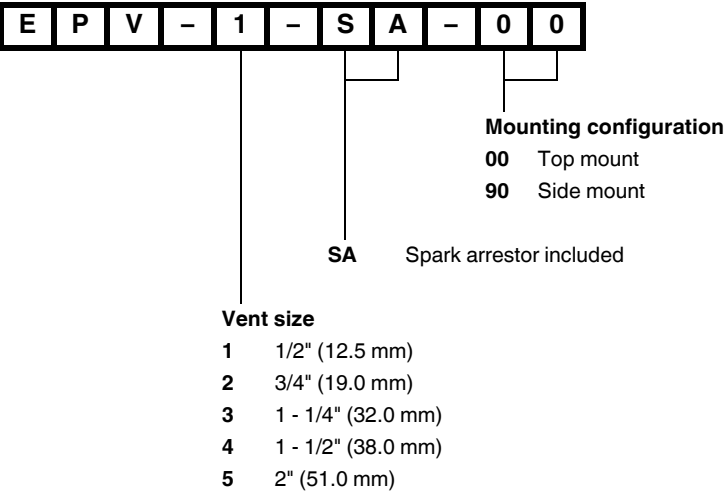
Technical Data

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



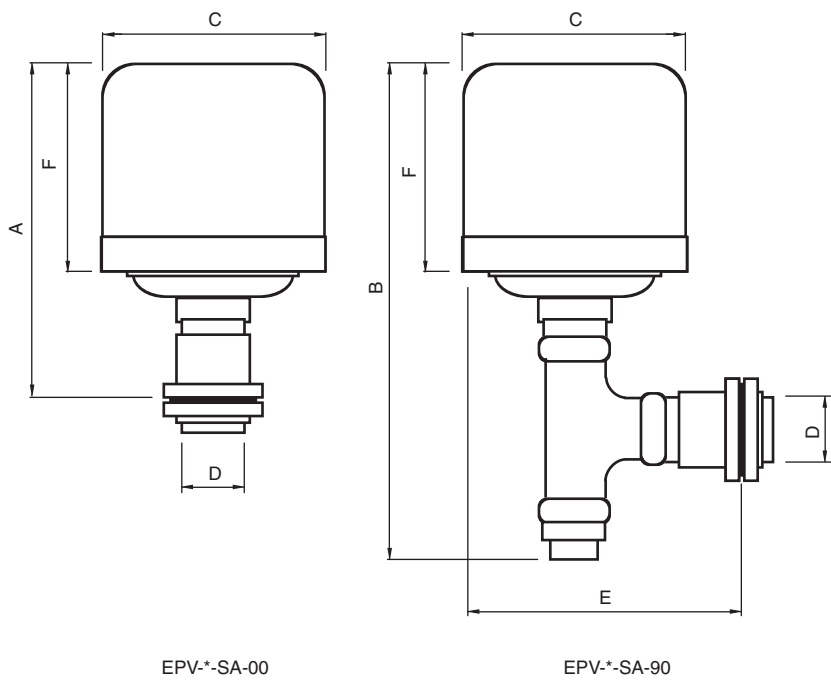
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Technical Features

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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