

Class I ($\leq 2 \text{ ft}^3$) and Class II ($\leq 10 \text{ ft}^3$)

Description

Model 11 is an enclosure pressurization or purging 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 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.

Operation

In accordance with system instructions, start-up requires air supply to be engaged and enclosure power to be deenergized. In Class II areas, all dust must be removed from the enclosure(s). The enclosure protection vent (if used) must be tested and enclosure(s) must be sealed. The enclosure pressure control regulator is then used to set a safe reading on the enclosure pressure gauge. In Class II areas, power can be energized when safe pressure is stable. In Class I areas, the user must perform an exchange cycle (determined by the safe pressure flow rate—five minutes minimum) before power can be energized. Loss of safe pressure in Class I or II areas requires immediate attention, unless power is deenergized. WPS style systems include an explosion proof differential pressure switch with form "C" contacts for audible or visual alarm systems.

Specifications

System Dimensions:	See page 18
Shipping Weight:	LPS - 5 lb /WPS - 10 lb
Temp. Range:	40°F to +120°F
Supply Pressure Range:	* 5 - 120 psi
Supply Requirements:	clean air or inert gas
Safe Press. (CI/CII):	0.25" / 1.0"
Safe Press. Flow Rate:	** 0.1 - 3.5 SCFH
System Supply Fitting:	1/4" tube fitting
Enclosure Supply Fitting:	1/4" tube fitting
Enclosure Reference Fitting:	1/4" tube fitting
Switch Setting (CI/CII, Decr):	0.15" / 0.5" \pm 0.02"
Switch Conduit Port Size:	1/2" FPT
Switch Contact Rating:	120 VAC @ 15 A

* With EPV-1 Vent - 120 psi max. to 5 psi min. Systems installed without Vent must be equipped with redundant regulator set to 5 psi max.

** Enclosure integrity determines actual flow rate

Model 11



LPS Style (Less Pressure Switch)



WPS Style (With Pressure Switch)

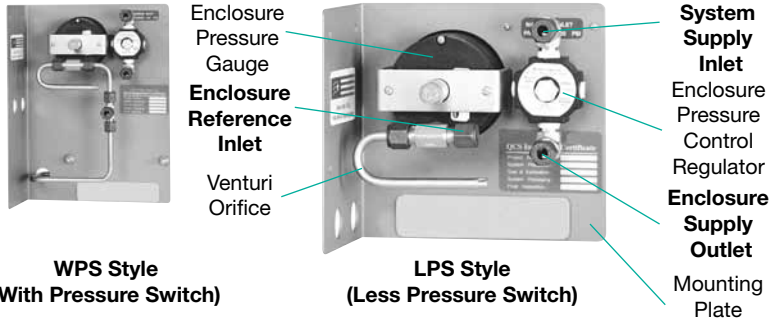


Standard Model Applications

<p>Model Number: 11-CI Type Y Designation: Purging System Enclosure Volume: 2 ft³ max.</p> <p>LPS Style UL & FM Certified: Cl. I, Div. 1, Group A-D Rating Reduction: Div. 1 to Div. 2</p> <p>WPS Style UL & FM Certified: Cl. I, Div. 1, Group C&D Rating Reduction: Div. 1 to Div. 2</p>	<p>Model Number: 11-CI Type Z Designation: Purging System Enclosure Volume: 2 ft³ max.</p> <p>LPS Style UL & FM Certified: Cl. I, Div. 2, Group A-D Rating Reduction: Div. 2 to Nonhazardous</p> <p>WPS Style UL & FM Certified: Cl. I, Div. 2, Group C&D Rating Reduction: Div. 2 to Nonhazardous</p>
<p>Model Number: 11-CII Type Y Designation: Pressurization System Enclosure Volume: 10 ft³ max.</p> <p>LPS Style UL & FM Certified: Cl. II, Div. 1, Group F&G Rating Reduction: Div. 1 to Div. 2</p> <p>WPS Style UL & FM Certified: Cl. II, Div. 1, Group F&G Rating Reduction: Div. 1 to Div. 2</p>	<p>Model Number: 11-CII Type Z Designation: Pressurization System Enclosure Volume: 10 ft³ max.</p> <p>LPS Style UL & FM Certified: Cl. II, Div. 2, Group F&G Rating Reduction: Div. 2 to Nonhazardous</p> <p>WPS Style UL & FM Certified: Cl. II, Div. 2, Group F&G Rating Reduction: Div. 2 to Nonhazardous</p>

1000 SERIES

Type Y & Z



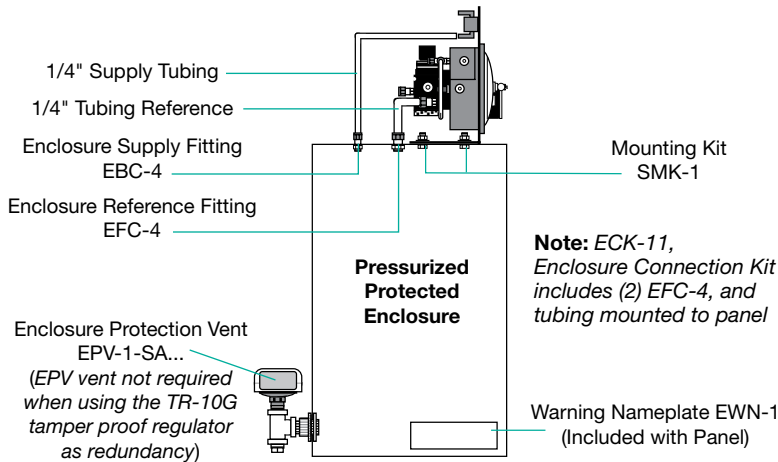
Material Specifications

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 Nameplates:	Silk screened Lexan® & SS
Fastener Hardware:	Alum. & Stainless Steel
Mounting Plate:	316 14 Ga #3 Brush SS
EXP Pressure Switch Body:	Anodized Cast Alum.
Enclosure Warning Nameplate:	Silk screened SS

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CONNECTION POINTS SHOWN ABOVE IN BOLD TEXT ON SYSTEM DIAGRAM

System Accessories Diagram



Model Number Designations

11 - LPS - CI - YZ - LH - ##

Series Model Number 11

System Style LPS - less pressure switch
WPS - with pressure switch

Area Classification CI - Class I Area
CII - Class II Area

System Type YZ - Div. 1 to Div. 2, Div. 2 to Nonhazardous

Mounting Configuration LH - left hand (left side of enclosure)
RH - right hand (right side of enclosure)
TM - top mount (top of enclosure)
BM - bottom mount (bottom of enclosure)
WM - wall mount (wall surface)
FM - frame mount (external frame or rack)
PM - panel mount (enclosure surface cutout)
(Not available in WPS Style)

- See Accessories Page 130 for additional factory installed accessories

Model 11 System Accessories (See accessories page for complete details)

FACTORY INSTALLED FITTINGS & FILTER	ECK-11 Enclosure Connection Kit	EPSP-1 or -2 Explosion Proof Switch Kit	GPSK-1 or -2 General-purpose Switch Kit	OPTIONAL HEX KEY REGULATOR HANDLE	TR-10G Tamper Proof Regulator
CONNECTION FITTINGS	EFC-4 1/4" Flush Connector	RAH Div. 1 Remote Alarm Horn	RAB-1 Div. 1 Remote Alarm Beacon	WARNING NAMEPLATES	EWN-1 Class I Enclosure Warning
	EBC-4 1/4" Bulkhead Connector	RAB-2 Div. 2 Remote Alarm Beacon	LCK L Fitting Conduit Kit	EWN-2 Class II Enclosure Warning	ETW Enclosure Temperature Warning
	EPC-10 1/2" Pipe Connector	TCK T Fitting Conduit Kit	OPTIONAL ENCLOSURE PROTECTION VENTS	INSTALLATION & OPERATION MANUAL	129-0207 Inst. & Operation Manual
ADDITIONAL ITEMS	ILF-4 1/4" Filter	EPV-1-SA-00 Straight w/Spark Arrestor	EPV-1-SA-90 Rt Angle w/Spark Arrestor		
	SMK-1, -4 or -6 System Mounting Kit				

ONE (1) ENCLOSURE WARNING NAMEPLATE & ONE (1) INSTALLATION & OPERATION MANUAL ARE PROVIDED WITH EACH SYSTEM

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