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ACCESSORY TECHNICAL BULLETINS



Best Purging Systems
Enclosure Purging & Pressurization Solutions

The Founders of Purging & Pressurization Technology™

**Tubing & Pipe
Bulkhead Connections for ALL
Purging & Pressurization Systems**

BBCF

The Model BBCF Bulkhead Connection Kit provides standard nut and ferule tubing connections to a protected enclosure for a purging or pressurization system's supply and reference tubing. The Model BBCF consists of one 1/4" through wall stainless steel bulkhead fitting for atmospheric reference and one 1/4", 3/8" or 1/2" through wall stainless steel bulkhead fitting, depending on model selected, for the supply connection to the protected enclosure.

BFCF

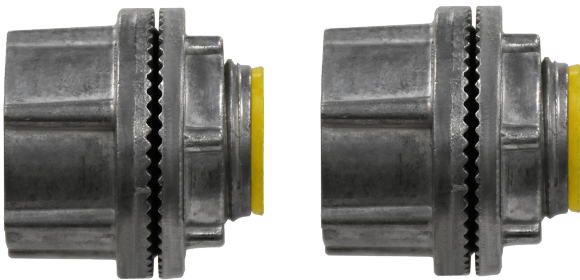
The Model BFCF Bulkhead Connection Kit provides standard nut and ferule tubing connections to a protected enclosure for a purging or pressurization system's supply and reference tubing. The Model BFCF consists of one 1/4" flush mount stainless steel bulkhead fitting for atmospheric reference and one 1/4", 3/8" or 1/2" through wall stainless steel bulkhead fitting, depending on model selected, for the supply connection to the protected enclosure.

FFCF

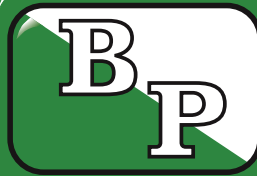
The Model FFCF Bulkhead Connection Kit provides standard nut and ferule tubing connections to a protected enclosure for a purging or pressurization system's supply and reference tubing. The Model FFCF consists of one 1/4" flush mount stainless steel bulkhead fitting for atmospheric reference and one 1/4", 3/8" or 1/2" flush mount stainless steel bulkhead fitting, depending on model selected, for the supply connection to the protected enclosure.

EPC

The Model EPC Enclosure Pipe Connection Kit provides an NPT connection to a protected enclosure for piping between multiple purged or pressurized enclosures. The Model EPC consists of two 3/4", 1 1/4" or 1 1/2" flush mount zinc die cast bulkhead fittings.



**Model EPC
Enclosure Pipe Connection Kit**

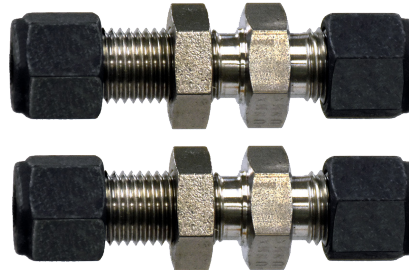


**Model BBCF, BFCF,
BFFK & EPC**

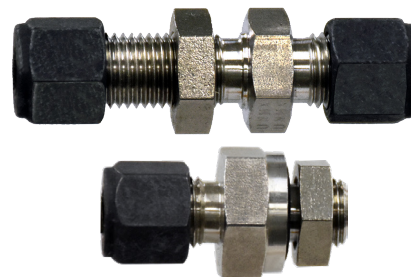
Tubing & Pipe Bulkhead Connection Kits

Technical Bulletin BCK TB-R0

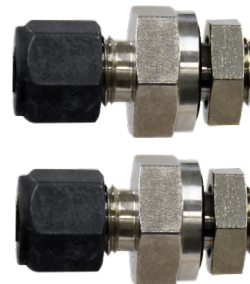
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**Model BBCF
Through Wall Supply & Reference
Bulkhead Connection Kit**



**Model BFCF
Through Wall Supply & Flush Reference
Bulkhead Connection Kit**



**Model FFCF
Flush Mount Supply & Reference
Bulkhead Connection Kit**



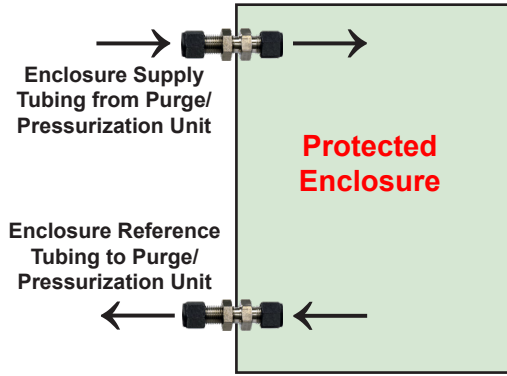
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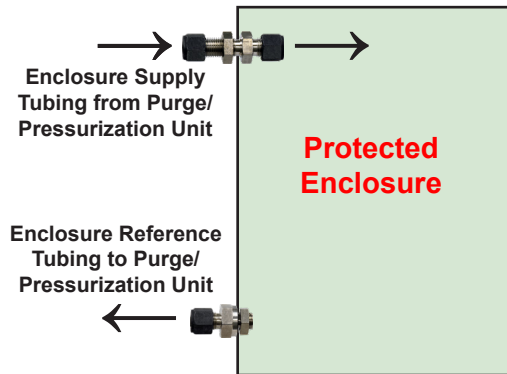
Typical Enclosure Connections

Model BBCF



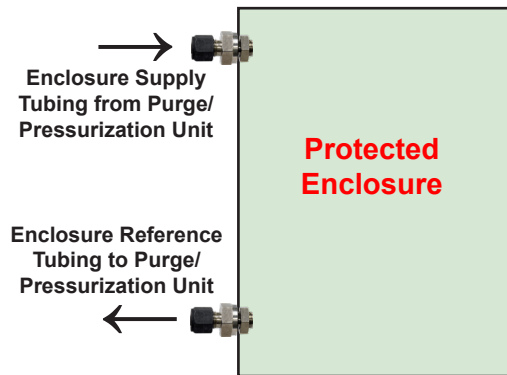
Allows continuation of Supply & Reference Tubing within Protected Enclosure to preferred locations of supply and reference

Model BFCF



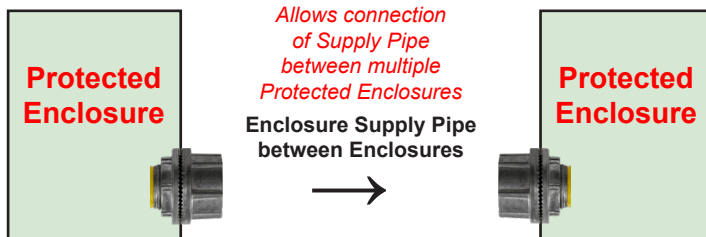
Allows continuation of Supply Tubing within Protected Enclosure to a preferred location for supply

Model FFCF



Terminates Supply & Reference Tubing at Protected Enclosure bulkhead

Model EPC



Allows connection of Supply Pipe between multiple Protected Enclosures

Model EPC is intended for use between any quantity of multiple enclosures with any connection fitting kit above that will provide supply tubing from a Purge or Pressurization Unit to the first enclosure in the series and the reference tubing from the last enclosure in the series

Model Number Matrix

Model # **BBCF - A2**

Connection Kit Model

BBCF- Through Wall Bulkhead Connection Kit

BFCF- Through Wall & Flush Bulkhead Connection Kit

FFCF- Flush Bulkhead Connection Kit

EPC- Enclosure Pipe Connection Kit

Compatible Systems

A2- All YZ101A & YZ102 Configurations

B3- All YZ101B & YZ103 Configurations

C4- All YZ101C & YZ104 Configurations

Connection Kits Fitting Sizes Chart

	A2	B3	C4
BBCF - One (1) each			
Supply	1/4"	3/8"	1/2"
Reference	1/4"	1/4"	1/4"
BFCF - One (1) each			
Supply	1/4"	3/8"	1/2"
Reference	1/4"	1/4"	1/4"
FFCF - One (1) each			
Supply	1/4"	3/8"	1/2"
Reference	1/4"	1/4"	1/4"
EPC - Two (2)			
Pipe Connection	3/4"	1-1/4"	1-1/2"

Material Specifications

Models: **BBCF, BFCF & FFCF**

Body & Ferrules: 316 Grade Stainless Steel

Nuts: Molybdenum disulfide coated 316 Stainless Steel

Model: **EPC**

Hub & Locknut: Zinc Die Cast

Insulating Throat: Thermoplastic

Sealing Ring: BUNA "N" Nitrile

Specifications subject to change without notice, warranty & liability statements available upon request.

**Pressure Loss Alarm Switch
Accessory for ALL Universal Mount
Purging & Pressurization Systems**

Description

Model EPSK Explosion Proof Enclosure Pressure Switch Kits are accessories that provide a pressure loss alarm contact. They are intended to mount in a vertical stand-alone position to complement all universal mount Type Y and Z purging and pressurization systems, and are offered in a full range of area classification ratings to satisfy any Hazardous Location.

Applications

When utilized in conjunction with one or more of our Model RAB Remote Alarm Beacon or Model RAH Remote Alarm Horn devices, or any pre-existing or common alarm device or system, these Enclosure Pressure Switch Kits can be utilized to activate the alarm devices or system to gain the attention of operators and maintenance personnel upon the loss of safe pressure in a protected enclosure.

Provisions

Model EPSK Enclosure Pressure Switch Kits include a rated pressure switch to meet your particular area classification, and a combination of one or two atmospheric reference vents, a male 1/4" tubing connector a flush or female pipe bulkhead connector and a set of 1/4" fasteners to attach the switch securely, whether mounted inside or exterior to a protected enclosure.

Installation

Model EPSK Enclosure Pressure Switch Kit must be installed in a vertical position on a secure surface. The high port of the switch must reference the protected enclosure atmosphere or the last enclosure of an array, while the low port must reference external atmosphere. All Switches feature a 1/2" FPT female pipe thread port for the connection of suitable conduit to an alarm device.

Calibration & Operation

Calibration of the .07" to .15" W.C. set point is accomplished by adjusting a set screw on the side of the Switches, and there is an inherent delay to switch action created by the restriction of air flow through the Switch's flame arresting pressure ports.

The CD Configuration Switch features a Form C contact that is activated mechanically by the switch diaphragm. Switch Configurations B24, B120 & B240 each require a power source to energize their Form C contacts. - see image on Page 2

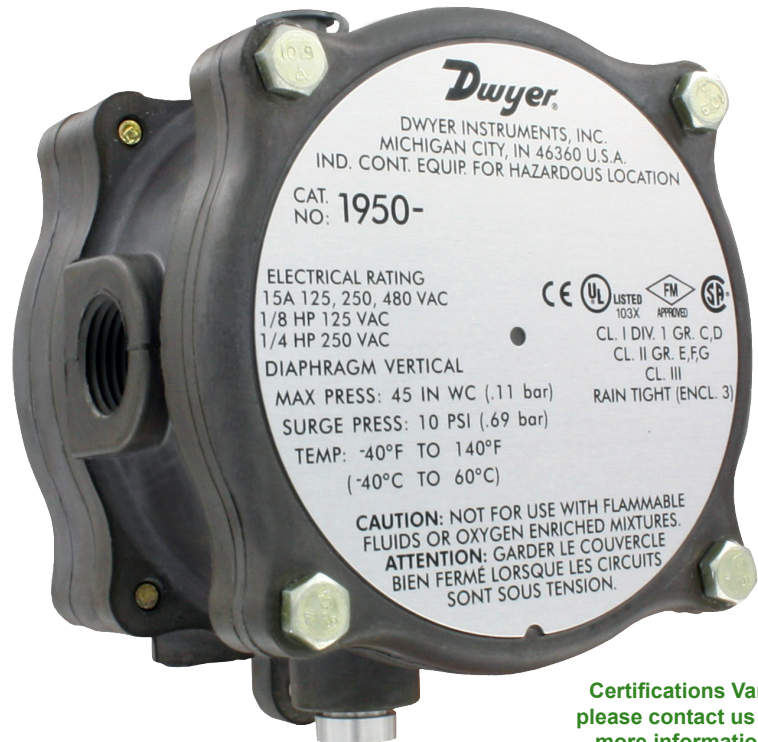


**Model EPSK
Configurations CD,
B24, B120 & B240**

**Explosion Proof
Enclosure Pressure Switch Kits**

Technical Bulletin EPSK TB-R0

© 07.10.2018



Certifications Vary
please contact us for
more information



**Exterior Switch
Location Hardware**

**Interior Switch
Location Hardware**

**Both hardware kits include all essential fittings
and fasteners to complete switch installation,
less electrical conduit fittings**



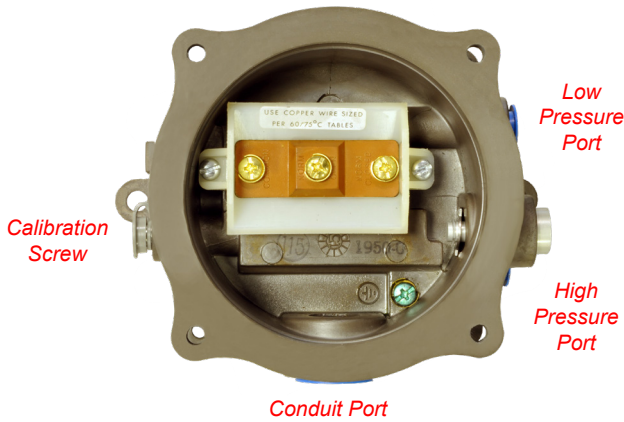
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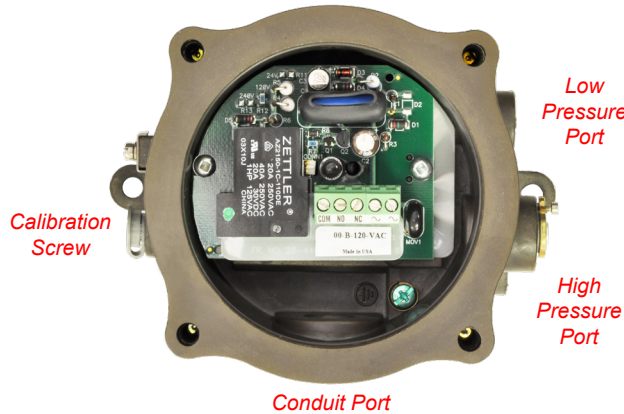
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Electrical Wiring & Connections

Configuration CD

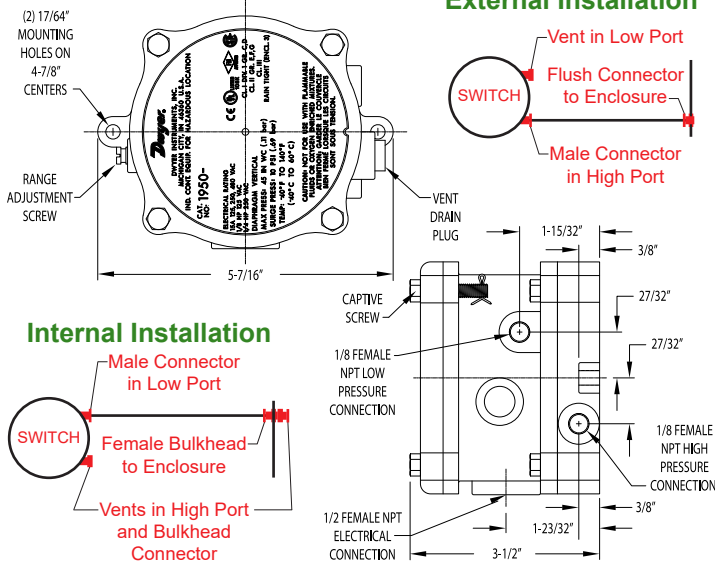


Configurations B24, B120 & B240



Dimensions & Installation Options

External Installation



IMPORTANT WIRING & INSTALLATION NOTES

Configuration CD features a Form C Dry Contact that is operated mechanically. Configurations B24, B120 & B240 require power to operate. Atmospheric Reference Vent must not be subjected to rain, hose-down or excessive dust. If mounted externally, it may be essential to orient switch vent drain plug downward, to prevent internal condensation accumulation.

Specifications subject to change without notice, warranty & liability statements available upon request.

Model Number Matrix

Model # **EPSK - CD - E**

Model Prefix _____

EPSK - Enclosure Pressure Switch Kit

Configurations _____

- CD** - Model 1950-00-2F Pressure Switch
 Rating: Class I, Division 1, Groups C & D
 Class II, Groups E, F & G
 Switch: Form C Dry Contact
- B24** - Model 1950G-00-B-24-NA Pressure Switch
 Rating: Class I, Division 1, Groups A, B, C & D
 Switch: 24 VDC Powered Form C Dry Contact
- B120** - Model 1950G-00-B-120-NA Pressure Switch
 Rating: Class I, Division 1, Groups A, B, C & D
 Switch: 120 VAC Powered Form C Dry Contact
- B240** - Model 1950G-00-B-240-NA Pressure Switch
 Rating: Class I, Division 1, Groups A, B, C & D
 Switch: 240 VAC Powered Form C Dry Contact

Switch Location _____

E - Exterior Surface I - Interior Surface

Compatibility Chart

Switch Configurations:	CD	B24	B120	B240
Model 101A Type Y or Z Class I, Div. 1 or 2 Groups C & D Class II, Groups E, F & G	X			
Models 101B & 101C Type Y or Z Class II, Groups E, F & G	X			
Models 101A, 102, 103 & 104 Type Y or Z Class I, Div. 1 or 2 Groups A, B, C & D		X	X	X

Material Specifications

Pressure Switch

Body & Cover: Cast Aluminum
 Electrical Housing Rating: NEMA 3, 7 & 9, (IP 54)
 Cover Bolts & Vent Drain Plug: Zinc Plated Steel
 Diaphragm & Cover O-Ring: BUNA "N" Nitrile
 Contacts: 10G Mica Silver
 Calibration Range: 0.07" to 0.15" W.C.

Accessory Kit

Fitting Bodies & Ferrules: 316 Grade Stainless Steel
 Fitting Nuts: Molybdenum disulfide coated 316 Stainless Steel
 Atmospheric Reference Vent: 316 Grade Stainless Steel
 Mounting Hardware: 316 Grade Stainless Steel

PIAD Description

Model PIAD Purgeable Instrument Access Doors are custom built doors with mounting frames manufactured to meet or exceed NEMA 12 (IP 52) or NEMA 4 or 4X (IP 56) ratings.

They are intended for any application, and come in an array of sizes and features, manufactured to your exact specifications. Our PIADs are designed to cover electrical devices which penetrate the surface of an enclosure and are unsuitable for exposure to the surrounding corrosive, hazardous or classified atmosphere.

Designed for rugged duty, all Best Purging Systems PIADs feature 14 gauge carbon steel or 304 or 316 grade stainless steel mounting frames and doors, removable stainless steel hinges, 1/4" Laminated Safety Glass, Lexan™ Margard™ MR-10 or Wire Reinforced Safety Glass windows with a proprietary shock-resistant mounting system, and replaceable, life-time warranty door gasket, with an NFPA496 purged enclosure warning nameplate, mounting sealant and mounting hardware.

Standard finishes include vertical or horizontal brush finishes for the stainless steel mounting frame and door materials or a black or custom color powder coat finish on any material. Door fastening options include hand, key or tool actuated vice action compression latches in black polyester powder coated die cast zinc or electro-polished 316 grade stainless steel materials.

PIAD NEMA Ratings

Purgeable Instrument Access Doors from Best Purging Systems Corporation are manufactured to meet or exceed NEMA 12, 4 or 4X and corresponding IP Ratings, as noted below. These ratings satisfy increasingly harsh indoor or outdoor applications, along with exposures to rain, wash-down and corrosive chemicals.

NEMA Rating	Material Options & Resistance Parameters	IP Rating
-------------	--	-----------

12	14 Gauge Carbon Steel	52
PIAD constructed for indoor use to provide a degree of protection to personnel against incidental contact with the enclosed equipment and to provide a degree of protection against the ingress of dust, dirt, and dripping non-corrosive liquids, oil and lubricants.		

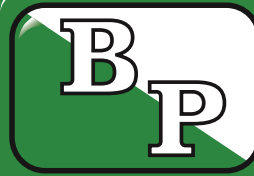
12	14 Gauge 304 or 316 Grade Stainless Steel	52
PIAD constructed for indoor use to provide a degree of protection to personnel against incidental contact with the enclosed equipment; to provide a degree of protection against the ingress of dust, dirt, and dripping non-corrosive liquids, oil and lubricants, and to resist damage caused by exposure to atmospheres containing corrosive gases, dusts or vapors. *		

4	14 Gauge Carbon Steel	56
PIAD constructed for indoor or outdoor use to provide a degree of protection to personnel against incidental contact with the enclosed equipment; to provide a degree of protection against falling dirt, rain, sleet, snow, windblown dust, splashing water, and hose-directed water; and that will be undamaged by the external formation of ice on the PIAD.		

4X	14 Gauge 304 or 316 Grade Stainless Steel	56
PIAD constructed for indoor or outdoor use to provide a degree of protection to personnel against incidental contact with the enclosed equipment; to provide a degree of protection against falling dirt, rain, sleet, snow, windblown dust, splashing water, hose-directed water and corrosion; and that will be undamaged by the external formation of ice on the PIAD.		

*** IMPORTANT NOTE**

The stainless steel material option for corrosive atmosphere resistance is an enhancement by Best Purging Systems Corporation to the published National Electrical Manufacturers Association definition for a NEMA 12 rating.



Model PIAD Purgeable Instrument Access Doors

*For Panel or Surface Mounted Devices in Purged,
Pressurized, Outdoor or Corrosive Area Enclosures*

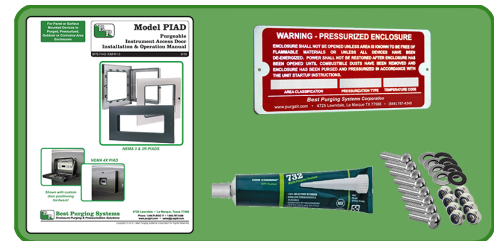
Technical Bulletin PIAD TB-R2

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**NEMA 12
Rating**

**Furnished complete with
Installation Manual, NFPA
Purged Enclosure Warning
Nameplate, Sealant &
Mounting Hardware!**



**Shown with custom
door positioning
hardware!**

**NEMA 4 & 4X
Ratings**



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PIAD Construction Features

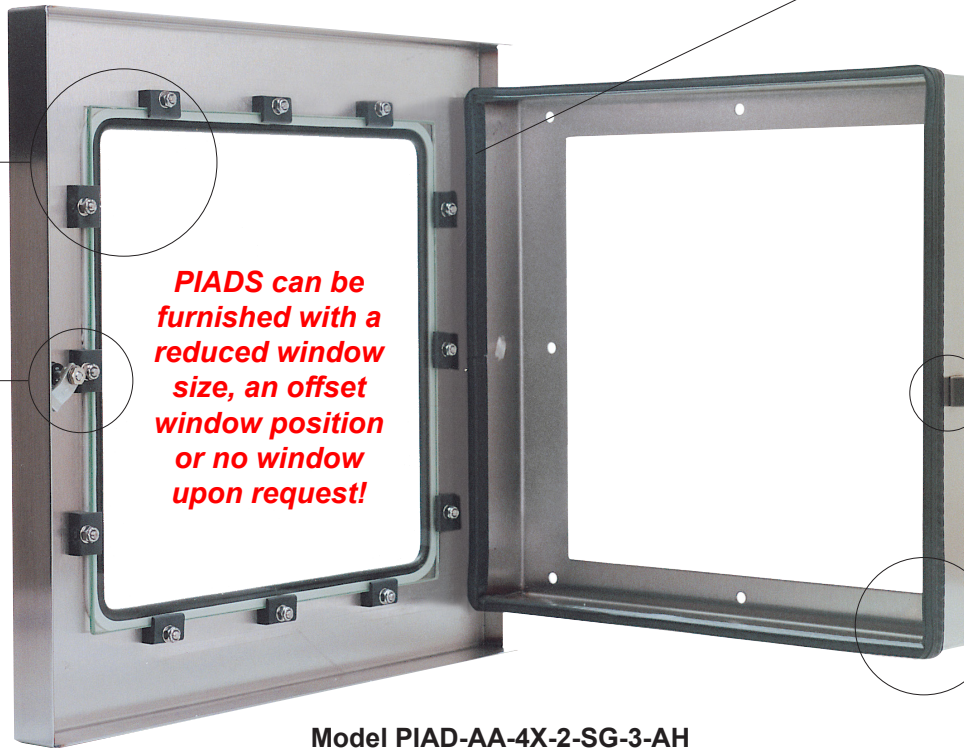


Best Purging Systems' unique method of securing the PIAD window utilizes Trim-Lok™ neoprene rubber molding and closed cell neoprene gasket placed between the laminated or wire reinforced safety glass or Lexan™ Margard™ MR-10 window and the PIAD door frame. The window is held in place with custom molded Santoprene™ rubber clips and stainless steel hardware.

This unique method of attachment secures the window in a suspended fashion, allowing damaged windows to be easily removed and replaced, without the need for special tools or sealant application!

All Best Purging Systems PIADs incorporate removable stainless steel hinges to provide exceptional corrosion resistance, prevent door sagging and ensure proper door to frame alignment with each operation.

These high-quality leaf-style hinges are 316 stainless steel and screw fastened to the door and frame. This allows the door to be removed easily during installation and also during window replacement if necessary. The hinges feature a highly polished surface finish and non-removable pin, that requires no lubrication during many years of trouble-free service!



PIADS can be furnished with a reduced window size, an offset window position or no window upon request!



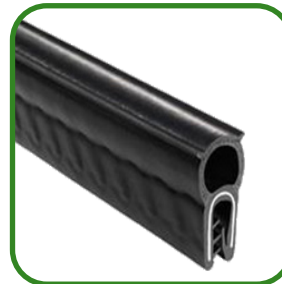
Latch Clips are formed from 12 gauge material and securely welded to the PIAD frame to ensure uniform compression on all sides.

Model PIAD-AA-4X-2-SG-3-AH
INTERIOR VIEW



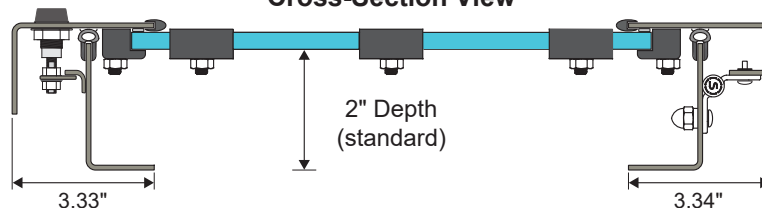
Powder Coated Die Cast Zinc or Stainless Steel vice action compression latches secures the PIAD door firmly to the mounting frame in the closed position. Latches are available with hand, key or tool actuated operators, to provides quick and easy access to protected equipment.

Our Replaceable Door Gasket comes with a life-time warranty and will be shipped to you free of charge!



Utilizing Trim-Seal™ replaceable, life-time warranted door gasket provides a continuous positive seal between the PIAD door and mounting frame, which meets or exceeds NEMA 12, 4 and 4X standards, depending on the NEMA rating of the PIAD.

Cross-Section View



Selecting your PIAD Model Number

Please see Page 4 for all available options

- Step 1 - Determine the Overall Dimensions of your Protected Devices**
Measure the overall height and width of all protected devices, being sure to include all mounting bezels or trim.
- Step 2 - Determine your PIAD Window Dimensions & Hinge Location**
Add 1" to overall Height & Depth of your Device(s), to provide adequate mounting frame clearance, and then determine which side of the PIAD you prefer to hinge.
- Step 3 - Determine your PIAD Size Range**
We use two letters to specify the Hinged Side and Adjacent Sides Size Ranges.
- Step 4 - Determine your PIAD NEMA Rating**
We offer NEMA 12, 4 or 4X Ratings to meet your installation site conditions.
- Step 5 - Determine your PIAD Depth**
Measure the distance your device(s) will project or protrude from the surface of your enclosure to determine how much internal clearance is required.
- Step 6 - Select a preferred material for your PIAD Frame and Door**
304 or 316 Stainless Steel may be selected for any application, but Carbon Steel is not suitable for NEMA 4X ratings.
- Step 7 - Select a preferred window material for your PIAD**
Safety Glass or Lexan are suitable for any application, but we advise against selecting wire reinforced glass, unless required by the authority having jurisdiction.
- Step 8 - Select a preferred finish for your PIAD Frame and Door**
Black or Custom Color Powder Coatings are available for any Material, but brush finishes are only offered for Stainless Steel Materials.
- Step 9 - Select a preferred Door Latch Style and Operator for your PIAD**
Powder Coated Die Cast Zinc Latches are suitable for NEMA 12, 4 and 4X Ratings, and Stainless Steel Latches are available for highly corrosive areas.

PIAD Latch Operator Options

The vice action compression latches utilized on Best Purging Systems model PIAD provide a positive seal for the door gasket to meet NEMA 12, 4 or 4X standards. The compression latches are available in three different styles, as described below:



Hand Operated Latch - A black polyester powder coated die cast zinc or electro-polished 316 stainless steel knob allows easy operation of the compression latch with a thumb and forefinger. This latch is recommended when general or unregulated access to the PIAD is required and the enclosed equipment is not protected by Type X pressurization.

IMPORTANT NOTE: If utilized on Type X pressurized enclosures, an electrical interlock rated for the area is required to deenergize power to all non rated equipment to comply with section 5.5.2 of the NFPA 496-2017 edition.



Key Operated Latch - This latch requires a special key to operate. One key is supplied with each PIAD and additional keys are available upon request. This latch is recommended when authorized or regulated access to the PIAD is required and/or when the enclosed equipment is protected by pressurization.

IMPORTANT NOTE: When utilized with a Type X pressurized enclosure, the key operated latch complies with section 5.5.2 of the NFPA 496-2017 edition, eliminating the need for electrical interlock switches.



Tool Operated Latch - This latch requires a customer supplied 5/32" hex head tool to operate. This latch is recommended when authorized or regulated access to the PIAD is required and/or when the enclosed equipment is protected by purging or pressurization.

IMPORTANT NOTE: When utilized with a Type X pressurized enclosure, the tool operated latch complies with section 5.5.2 of the NFPA 496-2017 edition, eliminating the need for electrical interlock switches.

Window Size Calculation is Easy!



First, add 1" to the Height & Width of Your Device(s) and then determine where you want the hinge to be.

BE SURE TO MEASURE BEZEL CAREFULLY!

CALCULATION EXAMPLE:

Bezel Height: 11" + 1" = 12"

Bezel Width: 19" + 1" = 20"

Preferred Hinge Position: Left Side

PIAD Window Size = AB

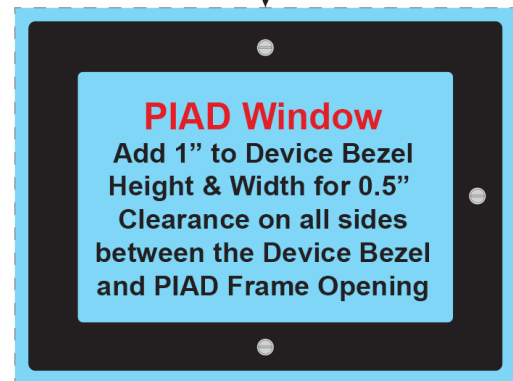
4-12" Hinge Side & 12-24" Adjacent Sides

PIAD Mounting Clearances

As illustrated above, it's critical to add 1" to the bezel or trim height and width dimensions of your protected device(s) to ensure your PIAD will fit easily around them and establish a window size. As illustrated below, it's also essential to add 10" to your bezel or trim dimensions to ensure you'll have adequate clearance around the perimeter of your PIAD. This will ensure it does not interfere with mounting other devices adjacent to your PIAD.

Free Space for PIAD Mounting

Add 10" to Device Bezel Height & Width for 1" Clearance on all sides of PIAD Door



Ventilation Requirements

When your PIAD is utilized on purged or pressurized enclosures, it is critical to satisfy NFPA Section 5.2.6 requirements regarding protection of compartments adjacent to the protected enclosure.

We provide complementary technical assistance in this situation by helping you determine if the device(s) your PIAD is protecting will adequately ventilate the sealed area created by the PIAD. If your devices do not provide adequate ventilation, we can recommend methods to 1) properly ventilate the sealed area within the PIAD (which NFPA 496 defines as an adjacent compartment); or 2) purge and/or pressurize the area created by the PIAD, either separately or in series with your protected enclosure, depending on the surrounding Area's Classification.

Please contact our Sales Associates and Technical Consultants for more information, guidance and recommendations.

Custom Door Positioning Hardware

Available in Standard or Stainless Steel Materials!



As shown on Page 1, Best Purging Systems offers door positioning hardware in various styles and materials. In most circumstances, gas cylinders are ideal, but Best Purging Systems also offers more economical and passive devices, such as articulating stays or telescoping supports as shown to the left, that prevent hinges from being over-extended. This hardware is ideal for top or bottom hinged doors, for doors located offshore, or for doors in an area where strong prevailing winds require a door retainer to position your door securely in the open position.

Please contact a Sales Associate for more details regarding this option!

Material Specifications

Mounting Frame, Door & Removable Hinges

Door & Mounting Frame:	.....14 Gauge Carbon Steel, 14 Gauge 304 Grade Stainless Steel or 14 Gauge 316 Grade Stainless Steel
Window:	..... 1/4" Laminated Safety Glass, 1/4" Lexan™ Margard™ MR-10 or 1/4" Wire Reinforced Safety Glass
Removable Hinges:	..... High Gloss Finish 316 Stainless Steel
Flat Head Door Screws:	.....8/32 316 Stainless Steel Hex Drive
Door Screw Retainers:	.....Zinc-Plated Steel Heavy-Duty Rivet Nuts w/ Open End, 8-32 Interior Thread
Flat Head Mounting Frame Screws:	.....8/32 316 Stainless Steel Phillips Drive
Mounting Frame Washers:	..... 0.052" Thick Rubber (blue)
Mounting Frame Cap Nuts:	.....8/32 316 Stainless Steel

Vice-Action Compression Latches

Latch Housing:	.....Black Polyester Powder Coated Die Cast Zinc or Electro-Polished 316L Grade Stainless Steel
Latch Cam:	..... Dacrotized® Case Hardened 1075 Steel
Latch Sleeve:	..... Dacrotized® Case Hardened 1065 Steel
Latch Shaft:	.....Dacrotized® Zinc Alloy Plated 12L14 Steel or 316 Grade Stainless Steel
Latch Mounting Nut:	.....Dacrotized® Zinc Alloy Plated 12L14 Steel or 304 Grade Stainless Steel
Latch & Pawl Jam Nuts & Lock Washers	.....Zinc Plated 1010 Steel or Passivated 302 Grade Stainless Steel
Latch & Pawl:	.....Zinc Plated 1010 Steel or Passivated 304 Grade Stainless Steel
Latch Pin:	..... Zinc Plated Chromate Steel w/ Sealer
Latch Spring & Retainer:	..... Passivated 302 Stainless Steel
Latch O-Ring:	.....Buna-N Rubber, Black
Hand Operated Latch Knob:	.....Black Polyester Powder Coated Die Cast Zinc or Electro-Polished 316L Grade Stainless Steel
Tool Operated Latch Cap:	.....Black Polyester Powder Coated Die Cast Zinc or Electro-Polished 316L Grade Stainless Steel
Key Operated Latch Cap:	.....Black Polyester Powder Coated Die Cast Zinc or Passivated 303 Grade Stainless Steel
Key Operated Latch Key:	..... Nickel Plated Steel

Suspended Window Mounting System

Window Gasket:	..... Closed Cell Neoprene
Window Trim Molding:	..... Trim-Lok™ Extrusion Molded Neoprene
Window Retainer Clips:	..... Injection Molded 60 Durometer Santoprene™
Retainer Fastening Hardware:	..... 316 Stainless Steel Locking Nut and Washer

Replaceable Door Gasket

Base Material:	..... Dense EPDM Rubber, 70 Shore A Durometer
Embedded Retainers:	..... Flexible Aluminum Wire or Stamped Steel
Bulb Material:	..... Custom Formulated EPDM Sponge Rubber

Mounting Sealant & Hardware Kit (shipped loose)

Mounting Sealant:	.....Dow Corning 732 Silicone Sealant (3 oz. tube) Hardening Time: 20 Minutes /Full Cure Time: 24 Hours Tensile Strength: 325 psi /Temperature Range: -75° to 350° F
Sealing Screws:	..... 316 Stainless Steel 1/4-20 x 3/4" Phillips Head w/ Neoprene O-Ring
Sealing Washers:	..... 18-8 Stainless Steel w/ Neoprene Washer
Locking Nuts:	.....316 Stainless Steel 1/4-20 Hex Nut w/ Nylon Insert

Lexan and Margard are Trademarks of the Sabic Corporation; Trim-Lok is a trademark of Trim-Lok, Incorporated; Santoprene is a trademark of the ExxonMobil Corporation; Dacrotized is a Registered Trademark of Metal Coatings International, Incorporated

**Please contact us for assistance,
or select and purchase this product online!**

All specifications subject to change without notice. Warranty & Liability policies available upon request.

Model Number Designations

PIAD-AA-12-2-CG-1-AH

Product Series	PIAD-AA-12-2-CG-1-AH		
Window Size Range *1 (Hinge Side / Adjacent Sides)	AA - 4-12" / 4-12" AB - 4-12" / 12-24" AC - 4-12" / 24-36" BA - 12-24" / 4-12" BB - 12-24" / 12-24" BC - 12-24" / 24-36" CA - 24-36" / 4-12" CB - 24-36" / 12-24" CC - 24-36" / 24-36"		
NEMA Rating	12 - NEMA 12 04 - NEMA 4 4X - NEMA 4X *2		
PIAD Depth	2 - 2" Depth (Standard) *3 3 - 3" Depth 4 - 4" Depth		
1st Digit: Body Material	C - Carbon Steel *4 S - 304 Stainless Steel X - 316 Stainless Steel U - Custom Material *6		
2nd Digit: Window Material	G - 1/4" Safety Glass L - 1/4" Lexan™ X - No Window W - 1/4" Wire Reinforced Safety Glass *5 U - Custom Material *6		
Body Finish	1 - Black Powder Coat (Standard) 2 - Custom Color Powder Coat 3 - Grain Parallel to Hinge (Stainless Steel only) 4 - Grain Perpendicular to Hinge (Stainless Steel only) U - Custom Finish *6		
1st Digit: Latch Style	A - Black Polyester Powder Coated Die Cast Zinc *7 X - Electro-Polished 316 Stainless Steel		
2nd Digit: Latch Operator	H - Hand Operated K - Key Operated *8 T - Tool Operated *9		

IMPORTANT MODEL NUMBER SELECTION NOTES:

- Selection of PIAD Size Range is based on two letters. The first letter determines the span of the hinged side of your PIAD. The second letter determines the span of the adjacent sides. Please note this selection has no bearing on your actual hinge location.
- Corresponding with selection of NEMA 4X, we recommend selection of Electro-Polished 316 Grade Stainless Steel Latch Material in Segment 7 for highly corrosive atmospheres.
- Selection of PIAD Depth determines the internal clearance from the rear side of the window to the panel surface. 2" Depth is standard, and 3" and 4" Depths are available at a slightly higher cost.
- Carbon Steel Material may not be selected in combination with a NEMA 4X Rating in Segment 3.
- Wire Reinforced Safety Glass should only be selected when impact hazards are imminent, due to viewing obstructions created by wire.
- Please provide custom mounting frame and door material, window material and mounting frame and door finish specifications in writing at time of order.
- Die Cast Zinc Compression Latch Material is suitable for NEMA 12, 4 and 4X Ratings, but Stainless Steel Latch Material is recommended for highly corrosive atmospheres.
- Key Operated Compression Latch Operators require a special key to operate. One (1) key is supplied with each unit, but extra keys are available on request.
- Tool Operated Compression Latch Operator requires a 5/32" hex (allen) head tool to operate (not supplied)

ADDITIONAL INFORMATION REQUIREMENTS:

To request a quote or place an order, we will require four additional bits of information, as follows, that may be supplied as notes accompanying any RFQ or PO.

- The actual Window Height you require in inches. Please note we accept increments as small as 0.125" (1/8"), but the size must be within a range of 4 to 36 inches maximum, unless you require a custom size PIAD.
- The actual Window Width you require in inches. Like the height dimension, please note we accept increments as small as 0.125" (1/8"), but the size must be within a range of 4 to 36 inches maximum, unless you require a custom size PIAD.
- The hinge location, specified as either the left or right side or the top or bottom.
- As an option, if you selected a 304 or 316 Stainless Steel Material with a grain direction that will be parallel or perpendicular to the hinge, please specify the direction of the grain (as either horizontal or vertical) that you require to match the direction of your enclosure grain, if applicable.
- We also encourage you to send us any drawings or documents that may assist us to ensure your PIAD will fit properly and meet your needs.

Please note that items 3 & 4 above are requested to ensure we build your PIAD in exact accordance with your requirements and to verify the PIAD Size Range and PIAD Finish you selected above. You may rest assured we'll send you a drawing for approval before we get started or contact you if we suspect any potential issues.

Panel Mounting Gaskets and Essential Fittings to adapt all Universal Mount Model YZ Units

Kit Applications

Model PMGK Panel Mount Gasket Kits permit installation of Universal Mount Model YZ Units through a cutout in any surface or door of a protected enclosure. Installed in this manner, the unit becomes an integral part of the protected enclosure, rather than being mounted externally at a perpendicular angle.

Utilize these kits to boost aesthetic and ergonomic values of protected enclosures, minimize the overall foot-print of protected enclosures in confined spaces and minimize exposed mechanical surface areas of protected enclosures in clean rooms.

Kit Features

Model PMGK kits feature a unit mounting plate gasket and an enclosure pressure gauge gasket to provide a positive seal. They also include two bulkhead unions, an atmospheric pressure reference vent fitting and essential bulkhead labels.

Utilization Requirements

To utilize a Model PMGK on a universal mount pressurization or purging unit, an installer must perform a simple modification to reverse the locations of a tubing connector fitting and a vent fitting on the back of the enclosure pressure gauge.

The sealing gaskets must then be applied to the unit mounting plate and enclosure pressure gauge to form a seal resistant to rain and light wash down.

The protective gas supply and atmospheric reference bulkhead unions must then be installed through an external surface of the protected enclosure, which must then be connected to the unit with tubing to provide a suitable source of protective gas and a reference to atmospheric pressure. As an extra benefit, labels are supplied for both bulkhead unions to identify their purpose.

For more information, please see complete Conversion and Installation Details on Page 2.

Material Specifications

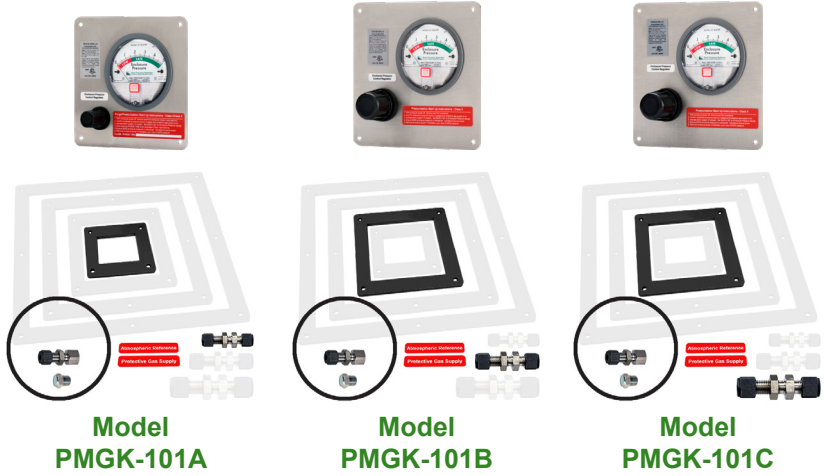
- Unit Gasket: 1/8" Closed Cell Neoprene
- Gauge Gasket: Butyl Rubber
- Union Bodies & Ferrules: 316 Stainless Steel
- Union Fitting Nuts: Molybdenum disulfide coated 316 Stainless Steel
- Atmospheric Vent: 316 Stainless Steel Body
304 Stainless Steel Element

Model PMGK

Panel Mount Gasket Kits

Universal Mount Model YZ Unit Conversion Kits

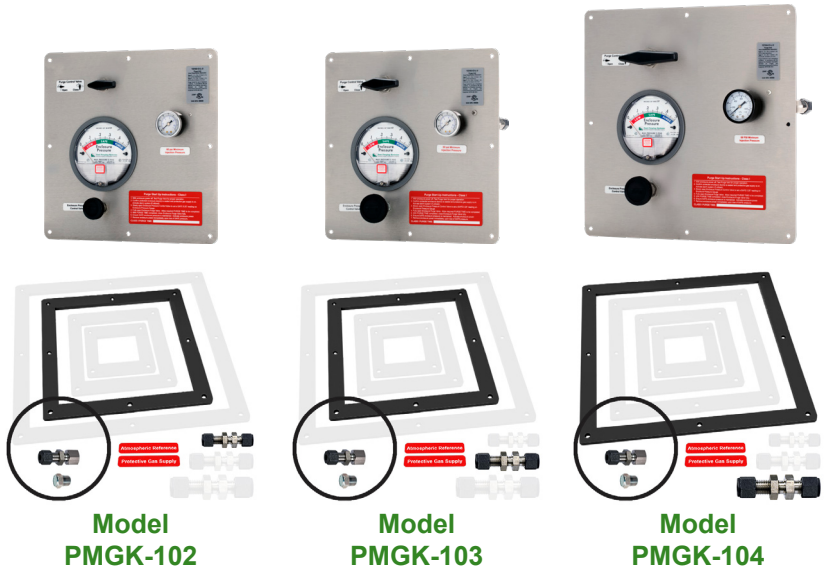
Technical Bulletin PMGK TB-R0 08.10.2018



Each Model PMGK Kit Includes Essential Bulkhead Labels!

Atmospheric Reference

Protective Gas Supply



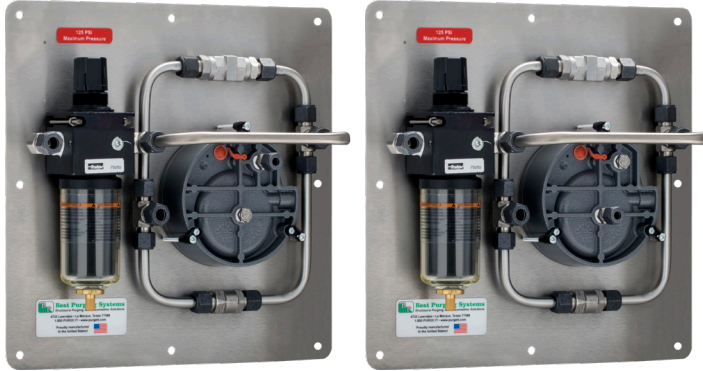
Six Unique PMGK Panel Mount Gasket Kits provide a total solution!

Each Model PMGK kit includes all necessary components to easily adapt a matching universal mount unit for sealed panel mounting through a protected enclosure surface cutout.

Conversion & Installation Details

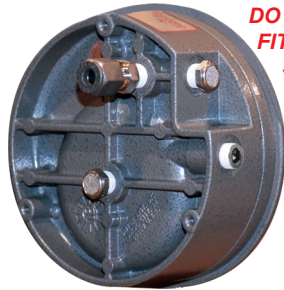
Step 1:

Carefully remove the enclosure pressure gauge from the unit and reverse or swap the positions of the tubing connector and vent fitting on the back of the enclosure gauge. Place the sealing gasket on the enclosure pressure gauge and carefully reinstall it, taking care to not over-torque the screws.

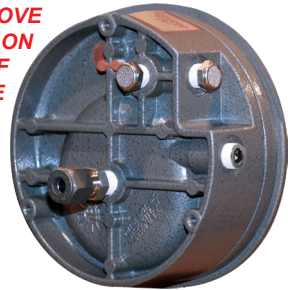


BEFORE

AFTER

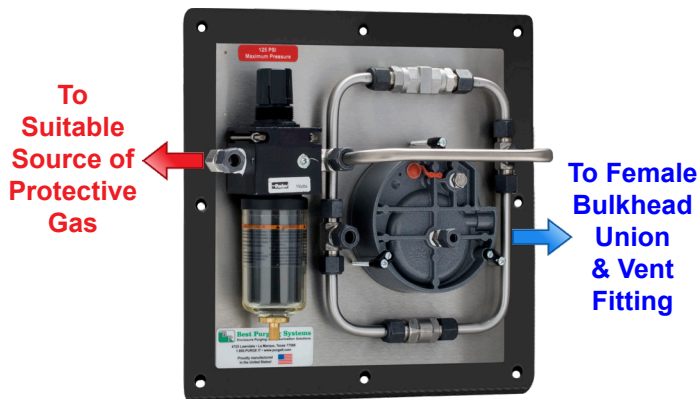


**DO NOT MOVE
FITTINGS ON
SIDE OF
GAUGE**



Step 2:

Apply the unit mounting plate gasket to the rear surface of the unit.



Step 3:

Install the unit in the protected enclosure's cutout and install the bulkhead unions through the protected enclosure's external surface. Using rigid or flexible tubing, connect the unit regulator air supply fitting to a suitable protective gas source and connect the low port of the enclosure pressure gauge to the atmospheric pressure reference vent. Supplied labels may then be applied to properly identify the bulkheads.

This kit may be factory installed - please contact a sales associate for more information!

Specifications subject to change without notice, warranty & liability statements available upon request.

Model Number Matrix

Typical Model Number: **PMGK - 101A**

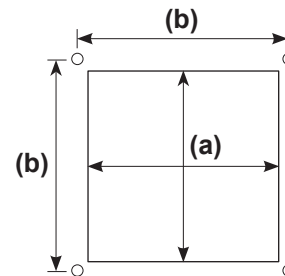
Model Series Number _____

Kit Size _____

- 101A** - Compatible with Model YZ101A
- 101B** - Compatible with Model YZ101B
- 101C** - Compatible with Model YZ101C
- 102** - Compatible with Model YZ102
- 103** - Compatible with Model YZ103
- 104** - Compatible with Model YZ104

Unit, Cutout & Bolt Hole Dimensions

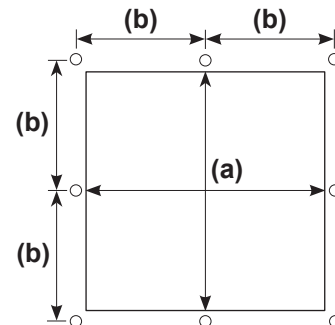
Models YZ101A, YZ101B & YZ101C



**Four (4)
0.25" Ø
Bolt Holes**

Model	Unit Plate	Cutout (a)	Hole Centers (b)
YZ101A	8" x 8"	6" x 6"	7"
YZ101B	9" x 9"	7" x 7"	8"
YZ101C	9" x 9"	7" x 7"	8"

Models YZ102, YZ103 & YZ104



**Eight (8)
0.25" Ø
Bolt Holes**

Model	Unit Plate	Cutout (a)	Hole Centers (b)
YZ102	12" x 12"	10" x 10"	5.5"
YZ103	12" x 12"	10" x 10"	5.5"
YZ104	14.5" x 14.5"	12.5" x 12.5"	6.75"

IMPORTANT NOTES

1. A properly sized and installed Model RR Redundant Regulator or Model PV Purge Vent is strongly recommended when this kit is utilized to install Model YZ101A, YZ101B or YZ101C Units.
2. Tubing from the Enclosure Supply Fitting of Model YZ102, YZ103 & YZ104 Units should be internally routed to attain the maximum degree of cross ventilation from the Enclosure Purge Vent in complete accordance with NFPA 496 requirements.

REQUIRED COMPONENT
Models YZ102, YZ103 & YZ104

OPTIONAL COMPONENT
Models YZ101A, YZ101B & YZ101C

Product Description

The Model PV Purge Vent is a gravity operated enclosure pressure relieving device designed to relieve excess pressure inside a protected enclosure, while preventing any sparks or burning material from escaping into a classified location.

Model PV Purge Vents are designed for use exclusively with Best Purging Systems purge and pressurization products. Model PV is constructed of an aluminum cap, base and pipe fitting and features a stainless steel filter element and fasteners, to ensure maximum resistance against corrosive environments.

Model PV Purge Vents will begin to open when enclosure pressure exceeds approximately 0.8" w.c. and will fully open when enclosure pressure exceeds approximately 1.5".

All Model PV Purge Vents **MUST** be installed in a true vertical position for proper operation and are available in "T" (top mount) and "S" (side mount) configurations. The vents feature a conduit hub with sealing gasket to connect easily to a protected enclosure, or may be mounted remotely. - please contact factory for more details



PV - 4 - T



PV - 3 - T



PV - 2 - T

Top Mount Style Purge Vents



PV - 4 - S



PV - 3 - S



PV - 2 - S

Side Mount Style Purge Vents

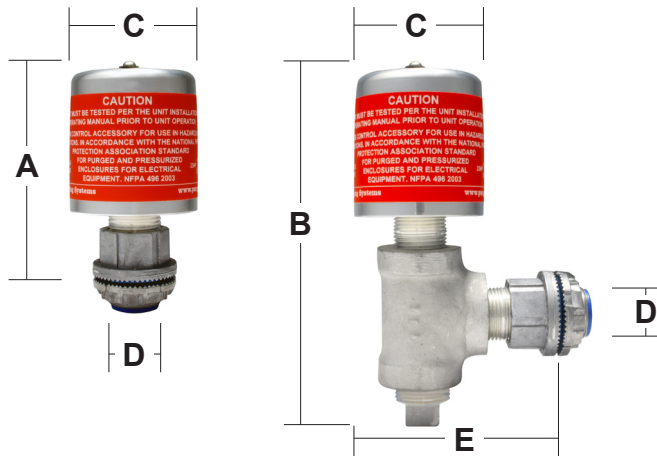


Best Purging Systems
Enclosure Purging & Pressurization Solutions

4725 Lawndale • La Marque, Texas 77568

Phone: 1.844.PURGE IT • 1.844.787.4348
www.purgeit.com • sales@purgeit.com

Purge Vent Dimensions



Vent Model	PV-2	PV-3	PV-4
Hub Size	3/4"	1 1/4"	1 1/2"
A - Top Mnt. Hgt.	4.5"	4.5"	6.0"
B - Side Mnt. Hgt.	6.5"	8"	10"
C - Cap Diameter	2.5"	3.5"	5.5"
D - Hub Knockout	1.125"	1.75"	2"
E - Overall Width	5.25"	5.5"	7.75"

Hub Size Indicates trade size. All dimensions in inches. All vents require 4" to 6" underside clearance for testing.

Technical Specifications

	PV-2	PV-3	PV-4
Top Mount Shipping Weight:	1 lb.	1.5 lbs.	2.5 lbs.
Side Mount Shipping Weight:	1 lb.	2.5 lbs.	4 lbs.
Mounting Hub Diameter:	3/4"	1 1/4"	1 1/2"
Purge Flow Rate:	4 scfm	12 scfm	30 scfm
Purge Enclosure Pressure:	*2.8" w.c.	3.2" w.c.	4.8" w.c.
Operating Temperature Range:	-20°F to 120°F		

* Enclosure Integrity determines actual Pressure

** 1/2" supply @ 100 psi, totally sealed test enclosure

Material Specifications

Vent Cap:	Machined 3003 Aluminum
Vent Base:	Machined 3003 Aluminum
Vent Cover:	Seamless Drawn Aluminum
Mounting Hub:	Copper-Free Aluminum
Spark Arresting Element:	80 micron 316 SS
Fastening Hardware:	316 Stainless Steel
Pipe Fittings:	Aluminum
Relief Ball:	Polypropylene
Vent Nameplate:	Lexan®

Lexan® is a registered trademark of the General Electric Company

Model Number Matrix

Typical Model Number:

PV - 3 - T - *

Series Model Number

Purge Vent Size

2 - 3/4"

3 - 1-1/4"

4 - 1-1/2"

Mounting Style

T - Top Mount (top of enclosure)

S - Side Mount (side of enclosure)

Optional Special Use Characters

This designator is utilized to denote specific customer requested modifications and special assemblies to include but not limited to extended or metric mounting hubs, special coatings, materials and lift off pressures.

Compatibility Chart

Purge Vent Models

PV-2-T & PV-2-S

PV-3-T & PV-3-S

PV-4-T & PV-4-S

Purge & Pressurization Units

YZ101A & YZ102

YZ101B & YZ103

YZ101C & YZ104

Specifications subject to change without notice. Warranty & liability statements available upon request.

Purging & Pressurization Unit Accessories

Typical Applications

Model RAH, RAB & ERAB Alarm Beacons and Horns are intended to provide local alarms for unit faults, high temperatures, loss of pressurization or ventilation and other situations that require immediate attention from local operators and maintenance staff members. They work in conjunction with any Unit featuring a pressure loss alarm switch, and may also serve as common alarms for other equipment.

RAH-1 Horn Description

Model RAH-1 horns provide an electrically generated audible alarm. Corrosion resistance is achieved with a copper-free cast aluminum housing, and this horn features a vibrating stainless steel diaphragm. The horn is rated for Class I or II, Division 1 or 2 hazardous locations, can be pendant or wall mounted and features a 3/4" female conduit port. The horn has a 100 dBA output at a distance of 10' with a 5 minute duty cycle, and the 120 VAC and 240 VAC versions feature an internally mounted volume control for field adjustment.

RAH-2 Horn Description

Model RAH-2 horns produce sound by the electro-mechanical vibration of a stainless steel diaphragm. The housing is water and dust-tight, making it suitable for indoor or outdoor use. The horn can be pendant or wall mounted and features a die-cast zinc housing with a corrosion-resistant polyurethane finish. This horn is rated for Class I & II, Division 2 hazardous locations, produces 100 dBA at a distance of 10', produces sustained or coded tones, and includes a fused terminal block connection.

RAB-1 Beacon Description

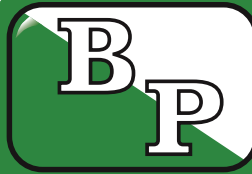
Model RAB-1 beacons provide visual alarms at 80 high-intensity flashes per minute. The beacon is formed from cast aluminum with an epoxy finish, is corrosion resistant and features a strobe tube bulb rated for 10,000 hours. The beacon is rated for Class I or II, Division 1 hazardous locations, offered in pendant, wall or ceiling mounting styles with 3/4" female conduit ports and an optional dome guard.

RAB-2 Beacon Description

Model RAB-2 has an LED lamp rated for 50,000 hours with 60 high intensity flashes per minute or a steady burn. This beacon is rated for Class I or II, Division 2 hazardous locations, has a 2,000,000 peak candlepower rating. It features a red fresnel lens and dome guard and is available in pendant or ceiling mounting styles.

ERAB-2 Beacon Description

Model ERAB-2 is an economical alternative, has a strobe tube rated for 10,000 hours with 80 high intensity flashes per minute or a steady burn. This beacon is rated for Class I or II, Division 2 hazardous locations, features a red lens and globe guard and is available in a pendant mounting style.



Model RAB & RAH Remote Alarm Devices

Class I, Division 1 & 2 Alarm System Beacons & Horns

Technical Bulletin RAD TB-R0

© 06.08.2018



Model RAH-1-P-C
ALARM HORN



Model RAB-1-C-C
ALARM BEACON

See
mounting
and dome
guard options
on Page 2



Model RAH-2-S-C
ALARM HORN



Model RAB-2-P-C
ALARM BEACON



LISTED



CERTIFIED



US LISTED

Certifications vary
Please see Page 2

Contact our factory for optional
Model RAB-1 & RAB-2 dome guards and
alternate Model RAB and ERAB dome colors!



Model ERAB-2-P-C
ECONOMY ALARM BEACON



Best Purging Systems
Enclosure Purging & Pressurization Solutions

4725 Lawndale • La Marque, Texas 77568

Phone: 409.316.4920 • Fax: 409.935.5819
www.purgeit.com • 1.844 PURGE IT

Specifications at a Glance

RAH-1

Class I, Division 1 Rating
Cast Aluminum Housing
Die Cast Zinc Grill
1/4" Mounting Holes
3/4" Conduit Entry
8' Pigtail Wiring
UL & cUL Listed & CSA Certified
Class I, Division 1, Groups C & D
Class II, Division 1, Groups E, F & G



RAH-2

Class I, Division 2 Rating
Die Cast Type 4X Zinc Housing with Polyurethane Finish
1/4" Mounting Holes
(2) 3/4" Conduit Entry
(1) 1/2" Conduit Entry
Terminal Block Wiring
UL & cUL Listed & CSA Certified
Class I, Division 2, Groups A, B, C & D
Class II, Division 2, Groups F & G



RAB-1

Class I, Division 1 Rating
Cast Aluminum Type 4X IP66
Housing with Epoxy Finish
3/4" Conduit Entry
Fresnel Glass Lens
Optional Dome Guard
Screw Terminal Wiring
UL & cUL Listed & CSA Certified
Class I, Division 1 & 2, Groups C & D
Class II, Division 1, Groups E, F & G
Class I, Division 2, Groups A & B



Optional
Model RAD-1-DG
Dome Guard
(order separately)



Pendant
Mount



Wall
Mount



Ceiling
Mount

RAB-2

Class I, Division 2 Rating
Cast Aluminum Type 4X IP66
Housing with Epoxy Finish
3/4" Conduit Entry
Fresnel Glass Lens
Dome Guard
24' Pigtail Wiring
UL & cUL Listed, CSA Certified
Class I, Division 2, Groups A, B, C & D
Class II, Division 1, Groups E, F & G



Pendant
Mount



Ceiling
Mount

*Users may assume this device is suitable for
Class II, Division 2, Groups F & G
Please contact us for more information*

ERAB-2

Class I, Division 2 Rating
Aluminum Type 4X IP66 (dome up)
Housing w/ Polyurethane Finish
3/4" Conduit Entry
Polycarbonate Dome & Fresnel Lens
24' Pigtail Wiring
UL & cUL Listed, CSA Certified
Class I, Division 2, Groups A, B, C & D
Class II, Division 2, Groups F & G



Model Number Designations

Typical Model Number:

RAH - 1 - P - B

Series Model Numbers

RAH - Remote Alarm Horn

RAB - Remote Alarm Beacon

ERAB - Economy Remote Alarm Beacon

Division Ratings

1 - Division 1

2 - Division 2

COMPATIBILITY CHARTS

Mounting Styles	RAH-1	RAH-2	RAB-1	RAB-2	ERAB-2
C - Ceiling			X	X	
P - Pendant	X	*	X	X	X
W - Wall	*	X	X		

Operating Voltages

A - 12-24 VDC					X
B - 24 VDC	X		X	X	X
C - 120 VAC	X	X	X	X	X
D - 240 VAC	X	X	X		X
E - 120-240 VAC				X	
F - 277 VAC				X	

IMPORTANT ORDERING INFORMATION:

Use compatibility charts to determine available product options.

Red X designates 3-4 week availability. All other items are 1-5 days.

Consult Factory for optional dome guards and custom lens colors.

* Suitable for Wall or Pendant Mount, but sold as listed above.

Device Specifications

MODEL RAH-1

Weight & Dimensions: 10.3 Lbs. / 7.625" H x 6.875" D
Mounting Hole Centers: 6.5" on 45° angle
Operating Temperature Range: -13° F - 104° F
Maximum Sound Level & Limitation: 100 dBA at 10 feet w/ 5 Minute Duty Cycle
Internal Volume Control: Featured on 120 and 240 VAC Models
Operating Voltages: 24 VDC @ 1.2 Amps
120 VAC 50/60 Hz @ 0.20 Amps
240 VAC 50/60 Hz @ 0.10 Amps

MODEL RAH-2

Weight & Dimensions: 3.0 Lbs. / 4.53" H x 6.02" W x 3.66" D
Operating Temperature Range: -65° F - 150° F
Maximum Sound Level & Options: 100 dBA at 10 feet w/ Sustained or Coded Tones
Operating Voltages: 120 VAC 50/60 Hz @ 0.18 Amps
240 VAC 50/60 Hz @ 0.09 Amps

MODEL RAB-1

Pendant Mount Weight & Dimensions: 15.9 Lbs / 14.54" H x 8.80" Diam.
Wall Mount Weight & Dimensions: 19.8 Lbs. / 15.48" H x 8.80" Diam. x 14.81" W
Ceiling Mount Weight & Dimensions: 18.4 Lbs. / 14.26" H x 8.80" Diam.
Operating Temperature Range: -67° F - 150° F
Operating Voltages: 24 VDC @ 1.9 Amps (3.0 Amps In-rush)
120 VAC 50/60 Hz @ 1.14 Amps
240 VAC 50/60 Hz @ 1.14 Amps
Flashes/Minute / Strobe Tube Life: 80 / 10,000 Hours

MODEL RAB-2

Weight & Dimensions: 5 Lbs. / 9.25" H x 5.5" Diam.
Operating Temp. Range: -31° F - 104° F
Operating Voltages: 24 VDC @ 0.4 Amps (1.75 Amps In-rush)
120-240 VAC @ 0.21-0.13 Amps (2.00 Amps In-rush)
277 VAC @ 0.13 Amps (9.75 Amps In-rush)
Flashes/Minute / LED Lamp Life: 60 or Steady-Burn / 50,000 Hours

MODEL ERAB-2

Weight & Dimensions: 2 Lbs. / 7.5" H x 5.5" Diameter
Operating Temp. Range: -40° F - 104° F
Operating Voltages: 12-24 VDC @ 1.70-0.70 Amps
24 VDC @ 0.70 Amps (2.0 Amps In-rush)
120 VAC @ 0.21 Amps
240 VAC @ 0.13 Amps
Flashes/Minute / Strobe Tube Life: 80 / 10,000 Hours

**Manufacturer Installation Instructions are included
with all models and are available upon request!**

IMPORTANT NOTES: All specifications subject to change without notice. Warranty & Liability policies available upon request.

Redundant Overpressure Protection Regulators for Model 101A, 101B & 101C Units

Application

Model RR Redundant Regulators are intended to satisfy NFPA 496 requirements for preventing the possibility of enclosure over-pressurization due to excessive protective gas supply pressure.

Each regulator features a removable adjustment knob to render it tamper-proof at the user's discretion. The regulators feature a 0-30 psi gauge, and when installed upstream of a Model 101A, 101B or 101C Enclosure Pressurization Unit, and properly calibrated as recommended on page 2, will serve as an up-stream protective gas supply safety device.

Model RR Redundant Regulators are identical to the Enclosure Pressure Control Regulators of the Units they protect, so the adjustment knobs of both regulators are interchangeable if needed.

Optional Installation Kits

Model RR Redundant Regulators are suitable for in-line mounting and may be adequately supported by threaded pipe headers.

However, we offer optional industrial grade mounting hardware and tube fittings to facilitate the proper installation of these regulators.

The kits include a 14 gauge 316 stainless steel regulator bracket, a regulator mounting ring, neoprene o-ring sealing screws, neoprene gasket backed 18-8 stainless steel sealing washers, 316 stainless steel nylon locking nuts and two 316 stainless steel 90 degree elbow tube fittings.

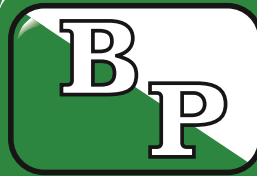
Alternative Solution

In certain circumstances, such as an analyzer or process measurement meter application, a protected enclosure may contain other potential sources of high pressure gases, in either combustible, flammable or inert compositions.

We therefore offer Model PV Purge Vents as a viable alternative for protection against excessive protective gas supply pressure and over-pressurization due to other sources of internal overpressure. Consider this alternative if warranted by your application, and contact a Sales Associate for more information.



Model PV Vents can act to relieve excessive protective gas supply AND internal sources of overpressure!



Model RR-4, RR-6, & RR-8

Overpressure Protection Redundant Regulators

Technical Bulletin RR TB-R0

© 07.20.2018



All Models are offered with optional Mounting Hardware & Tube Fitting Kits!



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Installation & Calibration

Installation Procedure

1. Install the Enclosure Pressurization Unit on the enclosure to be protected and connect the supply and reference tubing as recommended in the Installation, Operation and Maintenance Manual provided with the Unit.
2. Install the Redundant Regulator in close proximity to the unit, using suitable support and fittings of your choice or the optional fittings and mounting brackets, ensuring that the Unit's Enclosure Pressure Gauge will be easily visible while adjusting the Redundant Regulator.
3. Connect the supply inlet port of the Redundant Regulator to a suitable source of protective gas not exceeding a maximum pressure of 125 PSI.
4. Connect the supply outlet port of the Redundant Regulator to the supply inlet connection of the Unit's Enclosure Pressure Control Regulator.

Calibration Procedure

READ ALL INSTRUCTIONS AND IMPORTANT CALIBRATION PROCEDURE NOTES TO THE RIGHT BEFORE PROCEEDING

Model RR-4 Redundant Regulators Knobs are engaged by pulling them outward and locked by pushing them inward.

Model RR-6 & RR-8 Redundant Regulators Knobs are engaged by pushing them inward and locked by pulling them outward.

1. Close the protected enclosure, ensuring all doors, covers are fully shut and all electrical conduit seals are poured.
2. Adjust the Redundant Regulator and Unit's Enclosure Pressure Control Regulator to the lowest possible pressure settings, by engaging the knobs and turning them gently counter-clockwise to the full limit of travel.
3. Supply a suitable source of protective gas to the Redundant Regulator slowly, ensuring that no pressure is read on the Redundant Regulator's gauge.
4. Adjust the Unit's Enclosure Pressure Control Regulator to it's highest possible pressure setting, by turning the adjustment knob gently clockwise to the full limit of travel.
5. Slowly adjust the Redundant Regulator to set a pressure of 0.5" on the protected enclosure, using the Enclosure Pressure Gauge as a reference to achieve just at or under the full range of scale pressure.
6. Lock the Redundant Regulator Knob or pull firmly to remove the knob and render the regulator tamper-proof.
7. Slowly adjust the Unit's Enclosure Pressure Control Regulator by turning it counter-clockwise to set a pressure of 0.25" on the protected enclosure, using the Enclosure Pressure Gauge as a reference to achieve just at or under the mid range of scale pressure.
8. Lock the Unit's Enclosure Pressure Control Regulator Knob or pull firmly to remove the knob and render the regulator tamper-proof.
9. Fully instruct all protected enclosure operators and maintenance personnel of the Redundant Regulator's function, calibration procedure and purpose.

Model Number Matrix

Typical Model Number:

RR - 4 - E

Model Series Number

Regulator Size

4 - Compatible with Model YZ101A

6 - Compatible with Model YZ101B

8 - Compatible with Model YZ101C

Mounting Hardware & Tube Fittings Kit

E - Regulator Bracket, Mounting Ring, Screws & Fittings

X - Excluded

Material Specifications

Redundant Regulators & Gauges

Model RR-4 Regulator Body:	Anodized Aluminum
Model RR-6 & RR-8 Bodies:	Enamel Coated Aluminum
Regulator Heads & Knobs:	Acetal Polymer Plastic
Regulator Seals:	Buna N Elastomer
Supply Pressure Gauges:	Painted Steel Case Plastic Lens w/ Chrome Ring Brass Bourdon Tube & Body

Optional Mounting Hardware & Tube Fittings Kits

Tube Fitting Bodies & Ferrules:	316 Stainless Steel
Tube Fitting Nuts:	Molybdenum disulfide coated 316 Stainless Steel
Bracket:	14 Gauge 316 Stainless Steel
Sealing Screws:	316 Stainless Steel w/ Neoprene O-Ring
Sealing Washers:	18-8 Stainless Steel w/ Neoprene Gasket
Locking Nuts:	316 Stainless Steel w/ Nylon Insert

IMPORTANT CALIBRATION PROCEDURE NOTES

By following the calibration procedure to the left, the redundant regulator will limit pressure on the protected enclosure to an amount no greater than full scale of the Unit's Enclosure Pressure Gauge.

If this setting seems excessive or if any surface or door of the protected enclosure bulges during the calibration procedure, adjust the calibration procedure accordingly to set a lower maximum pressure on the protected enclosure with the Redundant Regulator under Step 4.

Given the wide range of potential enclosure integrity levels, you should anticipate that the Redundant Regulator will operate at a pressure of somewhere between 2 and 10 PSI, depending on the size and integrity of the protected enclosure.

If the Redundant Regulator setting must exceed 10 PSI to achieve a reading of 0.5" on the Unit's Enclosure Pressure Gauge, all doors, covers and electrical conduit entries should be carefully examined for potential leakage.

If leakage of any significant degree is detected, remove the protective gas supply, repair or resolve the leakage issues and carefully repeat the calibration process.

Specifications subject to change without notice, warranty & liability statements available upon request.

Required Accessories for ALL Protected Enclosures

EPWN Nameplate

Model EPWN Enclosure Pressurization Warning Nameplates are intended for all protected enclosures. One (1) nameplate is furnished with all Pressurization and Purging Units, but additional nameplates must be ordered separately at time of order to label all doors of the protected enclosure, as required by NFPA 496.

These nameplates are an essential accessory and required by NFPA 496 to ensure operators and maintenance personnel are advised that they must not open the protected enclosure while internal devices that are not suitable for use in the Hazardous Area are energized. To meet protected enclosure labeling requirements for both Class I and Class II, the warning also prescribes that all combustible dust must be removed from the protected enclosure and it must be properly purged or pressurized after it is opened, before re-energizing any internal devices that are not suitable for use in the Hazardous Area.

ETWN Nameplate

Model ETWN Enclosure Temperature Warning Nameplates are intended for protected enclosures that feature internal devices with surface temperatures that exceed the T Code Rating of the surrounding Hazardous Area atmosphere. These items must be ordered separately at time of order and are required for all doors of the protected enclosure.

They are an essential accessory and required by NFPA 496 to ensure operators and maintenance personnel are advised that they must wait for the established time period before opening the protected enclosure to prevent ignition of the surrounding atmosphere. The cooling time in minutes must be determined by the user and inscribed on the nameplate at time of installation, or you may request the inscription at time of order if already established and known.


Specifications

Dimensions: 5" W x 2" H
Mounting Hole Diameter: 0.125"
Adhesive Backing: * 3M™ VHB™
Material: 0.10" Anodized Aluminum
Legends: Silk-Screened Enamel Paint

* Door surfaces must be cleaned for maximum adhesion.

All Specifications subject to change without notice.

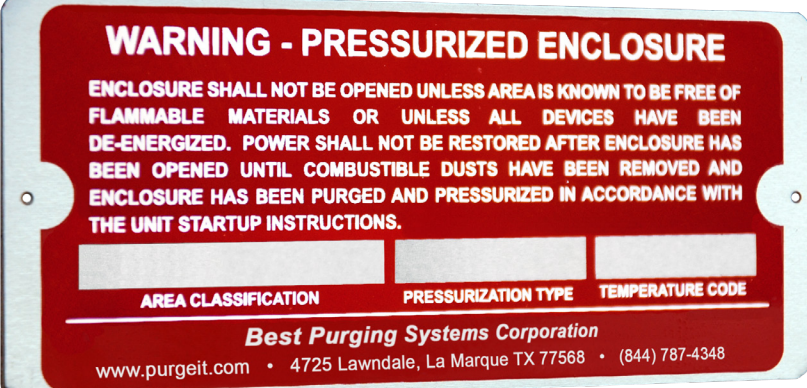
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Model EPWN & ETWN

Enclosure Pressure & Enclosure Temperature Warning Nameplates

Technical Bulletin EWN TB-R0 © 07.10.2018



WARNING - PRESSURIZED ENCLOSURE

ENCLOSURE SHALL NOT BE OPENED UNLESS AREA IS KNOWN TO BE FREE OF FLAMMABLE MATERIALS OR UNLESS ALL DEVICES HAVE BEEN DE-ENERGIZED. POWER SHALL NOT BE RESTORED AFTER ENCLOSURE HAS BEEN OPENED UNTIL COMBUSTIBLE DUSTS HAVE BEEN REMOVED AND ENCLOSURE HAS BEEN PURGED AND PRESSURIZED IN ACCORDANCE WITH THE UNIT STARTUP INSTRUCTIONS.

AREA CLASSIFICATION PRESSURIZATION TYPE TEMPERATURE CODE

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www.purgeit.com • 4725 Lawndale, La Marque TX 77568 • (844) 787-4348

Model
EPWN



WARNING NOTICE

THIS ENCLOSURE CONTAINS HOT COMPONENTS

ENCLOSURE SHALL NOT BE OPENED UNLESS THE AREA IS KNOWN TO BE NONHAZARDOUS OR UNLESS ENCLOSURE POWER HAS BEEN DEENERGIZED FOR THE TIME SPECIFIED BELOW.

MINIMUM COOLING TIME

Best Purging Systems Corporation
www.purgeit.com • 4725 Lawndale, La Marque TX 77568 • (844) 787-4348

Model
ETWN

Achieve total compliance to NFPA 496 by applying these labels to all doors of your protected enclosure!

Please contact a Sales Associate for more information and customization options.



Best Purging Systems
Enclosure Purging & Pressurization Solutions

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Product Description

Model YZ101A is a Type Y or Z pressurization unit designed to protect electrical equipment in Class II Hazardous Areas. When connected to a supply of protective gas, the Model YZ101A will supply, regulate and monitor the protective gas supply to a protected electrical enclosure. Type Z applications reduce the hazardous area rating inside the enclosure from Division 2 Zone 2 to Unclassified. This allows general purpose equipment to operate in Division 1 Zone 1 to Division 2 Zone 2. This allows Division 2 Zone 2 equipment to operate in Division 1 Zone 1 Hazardous Area.

Unit Operation

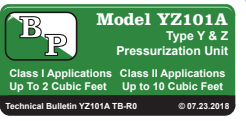
Prior to Start-Up: Ensure Protected Enclosure Power is OFF. Enclosure Pressure Control Regulator is closed. Protective Gas Supply is ON and alarm system is activated (if utilized). If utilized, test Purge Vent for proper operation. Close Air Inlet Valve. Remove all dust from protective enclosure. Close and seal Protected Enclosure. Open Enclosure Pressure Control Regulator until a "Safe" reading is shown on the Enclosure Pressure Gauge. Check Area Start-Up. Close and seal Protected Enclosure. Open Enclosure Pressure Control Regulator until a "Safe" reading is shown on the Enclosure Pressure Gauge. Use instructions for 5 minutes, minimum and then close Purge Control Valve. Confirm protected enclosure "Safe" pressure is stable. Energize protected enclosure equipment. Loss of "Safe" pressure requires immediate attention. De-energized power if "Safe" pressure cannot be restored within a reasonable amount of time.

Unit Specifications

Class II Maximum Enclosure Volume: 2,610 cubic feet
 Universal Unit Weight: 11.5 lbs
 Vertical Unit Weight: 8.0 & 8.0 lbs
 Operating Temp. Range: -20° F - 120° F
 Protective Gas Supply: Air or inert Gas
 Supply Pressure at P/V Valve: 80 - 125 psig maximum
 Unit Supply Connection: 1/4" tube fitting
 Enclosure Reference: 1/2" tube fitting
 Safe Enclosure Pressure: 0.25 w.c.
 Safe Pressure Flow Rate: 0.1 - 3.5 SCFH per cubic foot
 Switch Set Point on Decrease: 0.15 w.c. ± 0.02"
 Pressure Switch Contact Ratings: See EPSP Bulletin

Recommended Accessories

A Model P/V Spans Arming Valve is required for proper operation of the purging cycle and to prevent the enclosure from over-pressurizing. See EPSP Bulletin for more information on the Model P/V Spans Arming Valve. Best Purging Systems Corporation reserves the purchase of the Model P/V Spans Arming Valve with the unit for installation on the protected enclosure in the last section of an enclosure array.



Model YZ101A
 Type Y & Z
 Pressurization Unit
 Class II Applications
 Up To 2 Cubic Feet
 Up To 10 Cubic Feet
 Technical Bulletin YZ101A TB-R0 © 07.23.2018



Universal Mount Unit with Pressure Switch for any side or panel mounting



Vertical Mount Unit with Pressure Switch for left or right side mounting



Horizontal Mount Unit with Pressure Switch for top or bottom side mounting

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Product Description

Model YZ101B is a Type Y or Z pressurization unit designed to protect electrical equipment in Class II Hazardous Areas. When connected to a supply of protective gas, the Model YZ101B will supply, regulate and monitor the protective gas supply to a protected electrical enclosure. Type Z applications reduce the hazardous area rating inside the enclosure from Division 2 Zone 2 to Unclassified. This allows general purpose equipment to operate in Division 1 Zone 1 to Division 2 Zone 2. This allows Division 2 Zone 2 equipment to operate in Division 1 Zone 1 Hazardous Area.

Unit Operation

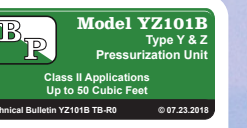
Prior to Start-Up: Ensure Protected Enclosure Power is OFF. Enclosure Pressure Control Regulator is closed. Protective Gas Supply is ON and alarm system is activated (if utilized). If utilized, test Purge Vent for proper operation. Start-Up. Remove all dust from protective enclosure. Close and seal Protected Enclosure. Open Enclosure Pressure Control Regulator until a "Safe" reading is shown on the Enclosure Pressure Gauge. Energize protected enclosure equipment. Loss of "Safe" pressure requires immediate attention. De-energized power should be de-energized if "Safe" pressure cannot be restored within a reasonable amount of time.

Unit Specifications

Class II Maximum Enclosure Volume: 10 cubic feet
 Universal Unit Weight: 5.5 lbs
 Vertical & Horizontal Unit Weights: 5.0 & 5.0 lbs
 Operating Temp. Range: -20° F - 120° F
 Protective Gas Supply: Air or inert Gas
 Supply Pressure at P/V Valve: 80 - 125 psig maximum
 Unit Supply Connection: 1/4" tube fitting
 Enclosure Reference: 1/2" tube fitting
 Safe Enclosure Pressure: 0.25 w.c.
 Safe Pressure Flow Rate: 0.1 - 3.5 SCFH per cubic foot
 Switch Set Point on Decrease: 0.15 w.c. ± 0.02"
 Pressure Switch Contact Ratings: See EPSP Bulletin

Recommended Accessories

A Model P/V Spans Arming Valve is required for proper operation of the purging cycle and to prevent the enclosure from over-pressurizing. See EPSP Bulletin for more information on the Model P/V Spans Arming Valve. Best Purging Systems Corporation reserves the purchase of the Model P/V Spans Arming Valve with the unit for installation on the protected enclosure in the last section of an enclosure array.



Model YZ101B
 Type Y & Z
 Pressurization Unit
 Class II Applications
 Up To 50 Cubic Feet
 Technical Bulletin YZ101B TB-R0 © 07.23.2018



Universal Mount Unit with Pressure Switch for any side or panel mounting



Vertical Mount Unit with Pressure Switch for left or right side mounting



Horizontal Mount Unit with Pressure Switch for top or bottom side mounting

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Product Description

Model YZ101C is a Type Y or Z pressurization unit designed to protect electrical equipment in Class II Hazardous Areas. When connected to a supply of protective gas, the Model YZ101C will supply, regulate and monitor the protective gas supply to a protected electrical enclosure. Type Z applications reduce the hazardous area rating inside the enclosure from Division 2 Zone 2 to Unclassified. This allows general purpose equipment to operate in Division 1 Zone 1 to Division 2 Zone 2. This allows Division 2 Zone 2 equipment to operate in Division 1 Zone 1 Hazardous Area.

Unit Operation

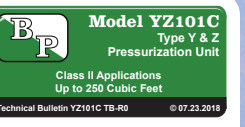
Prior to Start-Up: Ensure Protected Enclosure Power is OFF. Enclosure Pressure Control Regulator is closed. Protective Gas Supply is ON and alarm system is activated (if utilized). If utilized, test Purge Vent for proper operation. Start-Up. Remove all dust from protective enclosure. Close and seal Protected Enclosure. Open Enclosure Pressure Control Regulator until a "Safe" reading is shown on the Enclosure Pressure Gauge. Energize protected enclosure equipment. Loss of "Safe" pressure requires immediate attention. De-energized power should be de-energized if "Safe" pressure cannot be restored within a reasonable amount of time.

Unit Specifications

Class II Maximum Enclosure Volume: 250 cubic feet
 Universal Unit Weight: 10.5 lbs
 Vertical & Horizontal Unit Weights: 10.5 & 10.5 lbs
 Operating Temp. Range: -20° F - 120° F
 Protective Gas Supply: Air or inert Gas
 Supply Pressure at P/V Valve: 80 - 125 psig maximum
 Unit Supply Connection: 1/2" tube fitting
 Enclosure Reference: 1/2" tube fitting
 Safe Enclosure Pressure: 0.15 w.c.
 Safe Pressure Flow Rate: 0.1 - 3.5 SCFH per cubic foot
 Switch Set Point on Decrease: 0.15 w.c. ± 0.02"
 Pressure Switch Contact Ratings: See EPSP Bulletin

Recommended Accessories

A Model P/V Spans Arming Valve is required for proper operation of the purging cycle and to prevent the enclosure from over-pressurizing. See EPSP Bulletin for more information on the Model P/V Spans Arming Valve. Best Purging Systems Corporation reserves the purchase of the Model P/V Spans Arming Valve with the unit for installation on the protected enclosure in the last section of an enclosure array.



Model YZ101C
 Type Y & Z
 Pressurization Unit
 Class II Applications
 Up To 250 Cubic Feet
 Technical Bulletin YZ101C TB-R0 © 07.23.2018



Universal Mount Unit with Pressure Switch for any side or panel mounting



Vertical Mount Unit with Pressure Switch for left or right side mounting

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Product Description

Model YZ102 is a Type Y or Z pressurization unit designed to protect electrical equipment in Class II Hazardous Areas. When connected to a supply of protective gas and utilized in conjunction with a Model P/V Spans Arming Valve, the Model YZ102 will supply, regulate and monitor the protective gas supply to a protected electrical enclosure and accomplish purging of the protected enclosure in an expedient manner. Type Z applications reduce the hazardous area rating inside the enclosure from Division 2 Zone 2 to Unclassified. This allows general purpose equipment to operate in Division 1 Zone 1 to Division 2 Zone 2 area. Type Y applications reduce the hazardous area rating inside the enclosure from Division 1 Zone 1 to Division 2 Zone 2 area. This allows Division 2 Zone 2 equipment to operate in Division 1 Zone 1 Hazardous Area.

Unit Operation

Prior to Start-Up: Ensure Protected Enclosure Power is OFF. Protective Gas Supply is ON. Filter Regulator is set to 60 PSIG, and alarm system is activated (if utilized). Test Purge Vent for proper operation. Start-Up. Close and seal Protected Enclosure. Open Enclosure Pressure Control Valve until a "Safe" reading is shown on the Enclosure Pressure Gauge. Open Purge Control Valve and allow air to purge protected enclosure for 5 minutes, minimum and then close Purge Control Valve. Confirm protected enclosure "Safe" pressure is stable. Energize protected enclosure equipment. Loss of "Safe" pressure requires immediate attention. De-energized power if "Safe" pressure cannot be restored within a reasonable amount of time.

Product Specifications

Maximum Enclosure Volume: 15 cubic feet
 Universal Unit Weight: 11.5 lbs
 Vertical & Horizontal Unit Weights: 11.5 & 11.5 lbs
 Operating Temp. Range: -20° F - 120° F
 Protective Gas Supply: Air or inert Gas
 Unit Supply Connection: 1/4" tube fitting
 Enclosure Reference: 1/4" tube fitting
 Safe Enclosure Pressure: 0.25 w.c.
 Safe Pressure Flow Rate: 0.1 - 3.5 SCFH per cubic foot
 Purging Flow Rate: 4 SCFM / 240 SCFH @ 80 psig
 Volume Purge Time: 1 minute per 10 cubic foot
 Volume Purge Time: 1 minute per 10 cubic foot
 Switch Set Point on Decrease: 0.15 w.c. ± 0.02"
 Pressure Switch Contact Ratings: See EPSP Bulletin

Required Accessory

A Model P/V Spans Arming Valve is required for proper operation of the purging cycle and to prevent the enclosure from over-pressurizing. See EPSP Bulletin for more information on the Model P/V Spans Arming Valve. Best Purging Systems Corporation reserves the purchase of the Model P/V Spans Arming Valve with the unit for installation on the protected enclosure in the last section of an enclosure array.



Model YZ102
 Type Y & Z Purging
 & Pressurization Unit
 Class II Applications
 Up To 16 Cubic Feet
 Technical Bulletin YZ102 TB-R0 © 07.23.2018



Universal Mount Unit with Pressure Switch for any side or panel mounting



Vertical Mount Unit with Pressure Switch for left or right side mounting



Horizontal Mount Unit with Pressure Switch for top or bottom side mounting

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Product Description

Model YZ103 is a Type Y or Z pressurization unit designed to protect electrical equipment in Class II Hazardous Areas. When connected to a supply of protective gas and utilized in conjunction with a Model P/V Spans Arming Valve, the Model YZ103 will supply, regulate and monitor the protective gas supply to a protected electrical enclosure and accomplish purging of the protected enclosure in an expedient manner. Type Z applications reduce the hazardous area rating inside the enclosure from Division 2 Zone 2 to Unclassified. This allows general purpose equipment to operate in Division 1 Zone 1 to Division 2 Zone 2 area. Type Y applications reduce the hazardous area rating inside the enclosure from Division 1 Zone 1 to Division 2 Zone 2 area. This allows Division 2 Zone 2 equipment to operate in Division 1 Zone 1 Hazardous Area.

Unit Operation

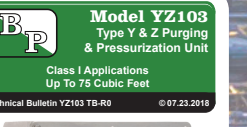
Prior to Start-Up: Ensure Protected Enclosure Power is OFF. Protective Gas Supply is ON. Filter Regulator is set to 60 PSIG, and alarm system is activated (if utilized). Test Purge Vent for proper operation. Start-Up. Close and seal Protected Enclosure. Open Enclosure Pressure Control Valve until a "Safe" reading is shown on the Enclosure Pressure Gauge. Open Purge Control Valve and allow air to purge protected enclosure for 5 minutes, minimum and then close Purge Control Valve. Confirm protected enclosure "Safe" pressure is stable. Energize protected enclosure equipment. Loss of "Safe" pressure requires immediate attention. De-energized power if "Safe" pressure cannot be restored within a reasonable amount of time.

Product Specifications

Maximum Enclosure Volume: 10 cubic feet
 Universal Unit Weight: 14.5 lbs
 Vertical & Horizontal Unit Weights: 14.5 & 14.5 lbs
 Operating Temp. Range: -20° F - 120° F
 Protective Gas Supply: Air or inert Gas
 Unit Supply Connection: 1/4" tube fitting
 Enclosure Reference: 1/4" tube fitting
 Safe Enclosure Pressure: 0.25 w.c.
 Safe Pressure Flow Rate: 0.1 - 3.5 SCFH per cubic foot
 Purging Flow Rate: 10 SCFM / 600 SCFH @ 80 psig
 Volume Purge Time: 1 minute per 2.0 cubic foot
 Volume Purge Time: 1 minute per 2.0 cubic foot
 Switch Set Point on Decrease: 0.15 w.c. ± 0.02"
 Pressure Switch Contact Ratings: See EPSP Bulletin

Required Accessory

A Model P/V Spans Arming Valve is required for proper operation of the purging cycle and to prevent the enclosure from over-pressurizing. See EPSP Bulletin for more information on the Model P/V Spans Arming Valve. Best Purging Systems Corporation reserves the purchase of the Model P/V Spans Arming Valve with the unit for installation on the protected enclosure in the last section of an enclosure array.



Model YZ103
 Type Y & Z Purging
 & Pressurization Unit
 Class II Applications
 Up To 75 Cubic Feet
 Technical Bulletin YZ103 TB-R0 © 07.23.2018



Universal Mount Unit with Pressure Switch for any side or panel mounting



Vertical Mount Unit with Pressure Switch for left or right side mounting



Horizontal Mount Unit with Pressure Switch for top or bottom side mounting

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Product Description

Model YZ104 is a Type Y or Z pressurization unit designed to protect electrical equipment in Class II Hazardous Areas. When connected to a supply of protective gas and utilized in conjunction with a Model P/V Spans Arming Valve, the Model YZ104 will supply, regulate and monitor the protective gas supply to a protected electrical enclosure and accomplish purging of the protected enclosure in an expedient manner. Type Z applications reduce the hazardous area rating inside the enclosure from Division 2 Zone 2 to Unclassified. This allows general purpose equipment to operate in Division 1 Zone 1 to Division 2 Zone 2 area. Type Y applications reduce the hazardous area rating inside the enclosure from Division 1 Zone 1 to Division 2 Zone 2 area. This allows Division 2 Zone 2 equipment to operate in Division 1 Zone 1 Hazardous Area.

Unit Operation

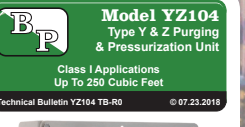
Prior to Start-Up: Ensure Protected Enclosure Power is OFF. Protective Gas Supply is ON. Filter Regulator is set to 60 PSIG, and alarm system is activated (if utilized). Test Purge Vent for proper operation. Start-Up. Close and seal Protected Enclosure. Open Enclosure Pressure Control Valve until a "Safe" reading is shown on the Enclosure Pressure Gauge. Open Purge Control Valve and allow air to purge protected enclosure for 5 minutes, minimum and then close Purge Control Valve. Confirm protected enclosure "Safe" pressure is stable. Energize protected enclosure equipment. Loss of "Safe" pressure requires immediate attention. De-energized power if "Safe" pressure cannot be restored within a reasonable amount of time.

Product Specifications

Maximum Enclosure Volume: 250 cubic feet
 Universal Unit Weight: 14.5 lbs
 Vertical & Horizontal Unit Weights: 11.5 & 11.5 lbs
 Operating Temp. Range: -20° F - 120° F
 Protective Gas Supply: Air or inert Gas
 Unit Supply Connection: 1/2" tube fitting
 Enclosure Reference: 1/2" tube fitting
 Safe Enclosure Pressure: 0.15 w.c.
 Safe Pressure Flow Rate: 0.1 - 3.5 SCFH per cubic foot
 Purging Flow Rate: 30 SCFM / 1800 SCFH @ 80 psig
 Volume Purge Time: 1 minute per 2.0 cubic foot
 Volume Purge Time: 1 minute per 2.0 cubic foot
 Switch Set Point on Decrease: 0.15 w.c. ± 0.02"
 Pressure Switch Contact Ratings: See EPSP Bulletin

Required Accessory

A Model P/V Spans Arming Valve is required for proper operation of the purging cycle and to prevent the enclosure from over-pressurizing. See EPSP Bulletin for more information on the Model P/V Spans Arming Valve. Best Purging Systems Corporation reserves the purchase of the Model P/V Spans Arming Valve with the unit for installation on the protected enclosure in the last section of an enclosure array.



Model YZ104
 Type Y & Z Purging
 & Pressurization Unit
 Class II Applications
 Up To 250 Cubic Feet
 Technical Bulletin YZ104 TB-R0 © 07.23.2018



Universal Mount Unit with Pressure Switch for any side or panel mounting



Vertical Mount Unit with Pressure Switch for left or right side mounting



Horizontal Mount Unit with Pressure Switch for top or bottom side mounting

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