



PURGE AND PRESSURIZATION SYSTEMS

THE LEADERS IN PURGING TECHNOLOGY®



The Leaders in Purging Technology

Pepperl+Fuchs offers a full range of purge and pressurization equipment to meet the needs of your application. Each purge system is built in an ISO 9001 registered manufacturing facility. As the manufacturer of purge systems and customized cabinets, Pepperl+Fuchs' Systems and Solutions group can also design custom enclosure solutions. When purchasing a purge system from Pepperl+Fuchs you get more than a system. You also get our expertise and service. Our purge experts are available to assist with your application whenever and wherever you need it. From order to delivery, we are the quickest, most reliable source for all your purge and pressurization needs!

To learn more, visit www.pepperl-fuchs.com.



Install AC drives in the hazardous area with Bebco EPS 6000 purge and pressurization enclosure. High ambient temperature can use a vortex cooling system for temperature control.



Weigh-scale display and controls in the hazardous area with Bebco EPS 3000 Type Y purge systems



Control and monitor your process within the hazardous area. A Class I, Div.1 monitor or panel PC is simple to achieve with a Bebco EPS 6000 component kit.



Fixed analyzers, displays, and components in the hazardous areas are safe and easily accessible using a Bebco EPS 1000 series purge system. Low or high ambient temperatures? Purge systems easily handle cooling and heating systems to provide ideal operating conditions inside the protected enclosure.

Global Purge Solutions

Pepperl+Fuchs BebcO EPS products offer a safe and economical approach to installing electrical equipment in hazardous locations. Purge and pressurizations systems will purge and pressurize the protected enclosure and then maintain pressure within the enclosure. This reduces the classification within the protected enclosure from a hazardous area to a safe area. By creating a safe area inside an enclosure, general-purpose equipment can be used in hazardous (classified) areas.

- General-purpose equipment can be installed in the protected enclosure and used safely in the hazardous area.
- Flammable gas collected inside the enclosure is removed and the ingress of gases or ignitable dust within the pressurized enclosure is prevented.

BENEFITS

- Purge and pressurization uses a standard Type 4/12 enclosure.
- Saves money, weight and space over explosion proof protection methods.
- Europe, Asia, or North America – we have a universal purge solution for all your applications!

PURGE SELECTION GUIDE

ZONE APPLICATIONS						
CERT *	ZONE	TYPE	GROUP	EQUIPMENT	90 ft³ (2.54 m³)	250 ft³ (7.08 m³)
1,3	2	Ex pz	IIC	General-purpose	3003 series	3004 series
1,3	2	Ex pz	IIB+H2	General-purpose	3003 series	3004 series
2,3	1&21	Ex px	IIC	General-purpose	6000 series (Zone 21 pending)	6000 series
2	2&22	Ex pz	IIC	General-purpose	5000Q series	5000Q series

HAZARDOUS GAS	
PANEL	VENT
3003	EPV-3-SA-XX
3004	EPV-4-SA-XX
6000	EPV-6000-XX-XX
5000	EPV-5000Q

CLASS I APPLICATIONS						
CERT *	DIV.	TYPE	GROUP	EQUIPMENT	90 ft³ (2.54 m³)	250 ft³ (7.08 m³)
1,3	2	Z	A-D	General-purpose	3003 series	3004 series
3	2	Z	C & D	General-purpose	3003 series	3004 series
2,3	1	X	A-D	General-purpose	6000 series	6000 series
1,3	1	Y	A-D	Div. 2	3003 series	3004 series
3	1	Y	C & D	Div. 2	3003 series	3004 series

HAZARDOUS DUST	
PANEL	VENT
1001A	EPV-1-SA-XX
1001B	EPV-3-SA-XX
1001C	EPV-4-SA-XX
6000	EPV-6000-XX-XX

CLASS II APPLICATIONS							
CERT *	TYPE	DIV.	GROUP	EQUIPMENT	10 ft³ (0.3 m³)	50 ft³ (1.4 m³)	250 ft³ (7.08 m³)
3	Z	2	E-G	General-purpose	1001A series	1001B series	1001C series
2,3	X	1	E-G	General-purpose	6000 series	6000 series	6000 series
3	Y	1	E-G	Div. 2	1001A series	1001B series	1001C series

* 1 - ZONE: ATEX 2 - ZONE: ATEX & IECEx 3 - Class / Div: UL, cULus, CSA

6000 Series: Type X/Ex px Purge

Pepperl+Fuchs' 6000 series is the most advanced system on the market! It has a 316L stainless steel, Type 4X, IP 66 housing that contains the controller, pneumatics, electrical I/O, and programming interface. The programming screen allows easy setup and operation and lets the user program the system according to the requirements of the application. The screen also displays information such as flow, pressure, and system status. The pressure and flow feedback is provided to the control unit by the vent. Certified for use in North America, Europe, and Asia, this is your single solution for all your purge and pressurization applications.

- IECEx, ATEX, North America, IEC 61508
- Enclosure volume up to 250 ft³ (7.08 m³)
- Completely automatic
- Single unit certified for gas and dust atmospheres
- Vent can be mounted in any orientation
- Component kit available for easy integration of an existing enclosure



5000Q Series: Type Ex pz Purge

The 5000Q series is the latest Pepper+Fuchs (Bebco EPS) product line. This series allows general-purpose equipment to be mounted in standard enclosures and operate safely in a Zone 2, Zone 22 hazardous area. The 5000Q is field configurable, making it easy for users to select the program for their application using the menus on the display screen. It also provides LED feedback for system status.

- IECEx, ATEX 2 for gas or dust hazardous atmosphere
- Three temperature inputs for PT100
- LCD display and five individual programs for most applications
- Automatic leakage compensation
- Rapid exchange
- Simple compact design
- Pressure sensor allows automatic purging and pressurization



3000 Series: Type Y, Z, and Ex pz

The 3000 series purge system is available for Type Z and Y and Ex [pz] applications as one model number. This globally certified purge system meets Class/Division and ATEX standards. The 3000 series is simple but has a very effective, well-proven design. Component kits are available for integration into the custom enclosure.

- UL, cUL, ATEX and FM classified
- Conforms to NFPA 496 and new ATEX directives
- For Type Y or Type Z and Ex [pz]
- Enclosure volumes to 250 ft³ (7.08 m³)
- Component kits offer space and cost savings



1000 Series: Type Y and Z Purge

The 1000 series Type Y and Z purge system has been providing reliable protection to the industry for over 20 years. The purge system is rated for Class I & II, Division 2 to general-purpose area applications or Class I & II, Division 1 to Division 2 applications.

- UL, cUL, and FM classified
- Conforms to NFPA 496 and ISA 12.4 standards
- Enclosure volumes to 450 ft³ (12.7 m³)

Enviro-Line Purge

A complete solution to pressurization applications in nonhazardous areas that contain dusty, dirty, and corrosive atmospheres.

- Complete package for any size enclosure
- Simply attach the mounting plate to best fit your application, align the pressure gauge, and the Enviro-Line is ready to go!
- One size, one part number for most applications
- All necessary parts included—easy to specify and easy to install



PROCESS AUTOMATION – PROTECTING YOUR PROCESS



For over a half century, Pepperl+Fuchs has provided new concepts for the world of process automation. Our company sets standards in quality and innovative technology. We develop, produce, and distribute electronic interface modules, Human-Machine Interfaces and hazardous location protection equipment on a global scale, meeting the most demanding needs of industry. Resulting from our world-wide presence and our high flexibility in production and customer service, we are able to offer complete individual solutions – wherever and whenever you need us. We are the recognized experts in our technologies – Pepperl+Fuchs has earned a strong reputation by supplying the world's largest process industry companies with the broadest line of proven components for a diverse range of applications.

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