



BEBCO EPS®

SELECTING PURGE SYSTEMS

101

QUESTIONS TO ASK

Your automation, our passion.

 **PEPPERL+FUCHS**

WHAT YOU NEED TO KNOW:

What is the hazardous location rating of the area?

- General Purpose or Environmental Purge (Offer the Enviro-Line)
- Class I, II, Div. II /Zone 2(YZ System)
- Class I, II, Div. I/Zone 1(X System)

What type of hazardous area rating do the components carry (those which will mount in the purged enclosure)?

- For Class I,II, Div. II applications (General Purpose Equipment: Type Z Purge)
- For Class I,II, Div. I applications (Class 1, Div. 2 rated equipment: Type Y Purge)
- For Class I,II, Div. I applications (General Purpose Equipment: Type X Purge)

Once we have established the hazardous area rating and what type (X, Y or Z), we can determine what series should be used.

What is the overall size of enclosure or enclosures (total volume of purged utilizing one purge system)?

- Total volume of enclosure ft³, or multiple enclosures being purged ft³

Class I Type Y

Enclosures $\leq 90\text{ft}^3$ (3003)

Enclosures $\leq 250\text{ft}^3$ (3004)

Class I Type X

Enclosures $\leq 250\text{ft}^3$ (6000)

Class I Type Z

Enclosures $\leq 300\text{ft}^3$ (5500)

*If enclosure is larger than 300ft³ please contact tech support

*3000 series can also be specified

Class II Type X

Enclosures $\leq 250\text{ft}^3$ (6000)

Class II Type Y

Enclosures $\leq 10^3$ (1001A)

Enclosures $\leq 50^3$ (1001B)

Enclosures $\leq 250^3$ (1001C)

Zone 2 or 22

Enclosures $\leq 300\text{ft}^3$ (5500)

*If enclosure is larger than 300ft^3 please contact tech support

*3000 series can also be specified for Zone 2, 1001 can also be specified for Zone 22

Zone 1 or 21

Enclosures $\leq 250\text{ft}^3$ (6000)

*If we have narrowed down to a **Type X system, offer the 6000.** This system is more advanced than the 2000 and is cheaper in most cases.*

*If we've narrowed down to Type Y system or a Type Z system, there is one last component to select. For Type Z systems, **offer the 5500 series.** This is the series that we recommend and should always be the first suggestion. If the customer chooses to go with a 1000 or 3000 series, then we need to know which pressure switch option they prefer. The 5500 has a built in pressure switch.*

Pressure Switch— provides contacts in case of fault condition. Allows wiring of alarm, light, etc. when contact closes in fault condition.

- If customer does not desire a pressure switch

LPS (Less Pressure Switch)

- If the area is in Gas Groups C&D, or Dust Groups F&G

WPS Pressure Switch (Pneumatic)

- If the area is in Gas Groups A, B, C or D

WPSA Pressure Switch - Requires a power source

(Available in 120VAC, 240VAC or 24VDC)

Mounting Options

6000 Series

- Universal Mount (with SS Housing)
- Component Kit (allows system to be integrated into the enclosure itself)

5500 Series

- Internal Mount (SS Housing)
- External Mount (SS Housing)

3000 Series

- Vertical Mount Left/Right
- Horizontal Mount Top/Bottom
- Component Kit (allows system to be integrated into the enclosure itself)

1000 Series

- Left/Right Hand Mount
- Top/Bottom Mount
- Wall Mount
- Frame Mount
- Panel Mount*

* Please contact factory if panel mount with a pressure switch is desired

Vent (required with each unit)

- The vent that corresponds with each system can be found on the data sheet

When specifying the 5500 there is other information needed in order to generate a part number:

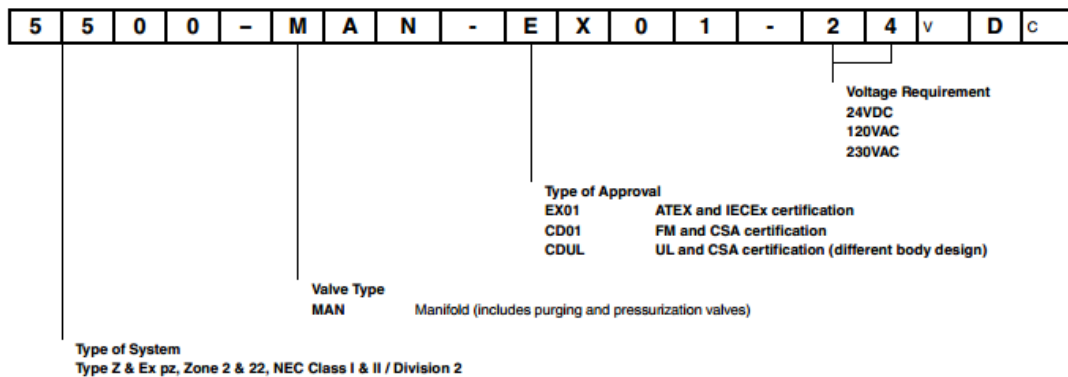
Optional Manifold: (only when specifying the 5500)

- 5500-MAN-CD01 (FM and CSA rated)
- 5500-MAN-CDUL (UL and CSA rated)
- 5500-MAN-EX01 (ATEX and IECEx rated)

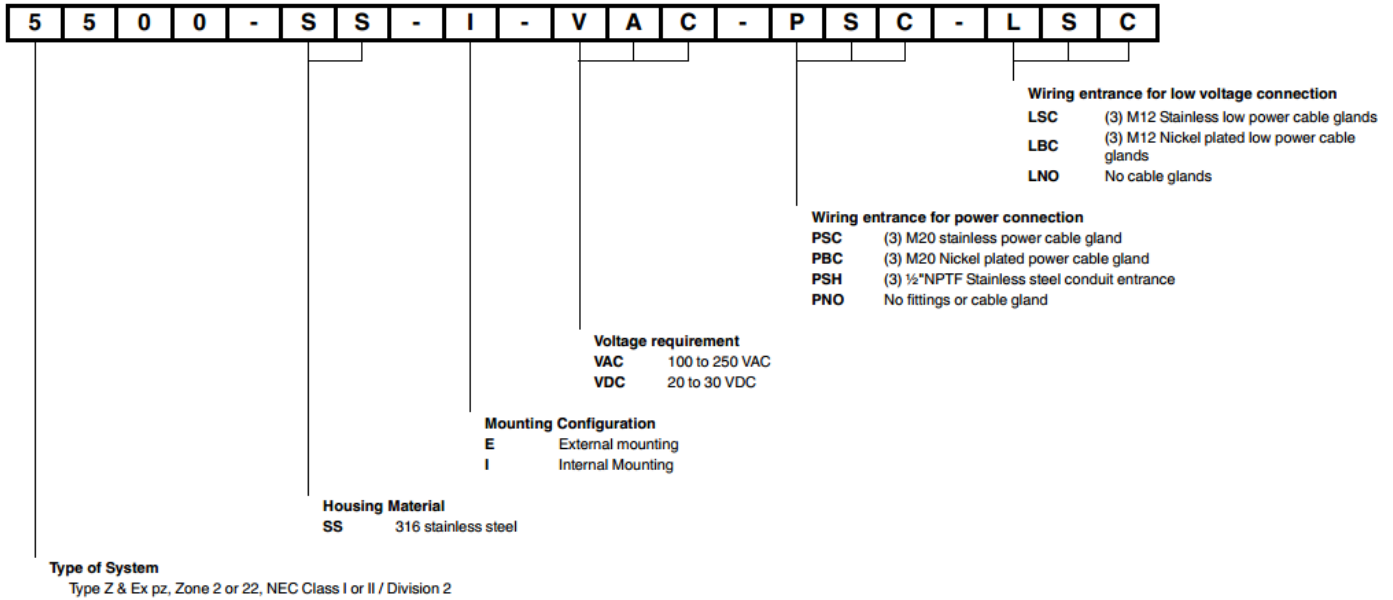
* For all Manifold models, the voltage must be specified 24VDC, 120VAC, 230VAC

Configurator for the Optional Manifold:

Type code/model number



You also need to specify the wiring entrances for the power connections and the low voltage connection. The options are listed below. Please note that if you choose “No cable glands” for one option, you must choose “No cable glands” for both options.



****For more information, you can also visit the Bebcu EPS product configurator at**

<http://www.quote pf.com/configurators/cnfg-main.jsp?cnfg=bebcueps> .