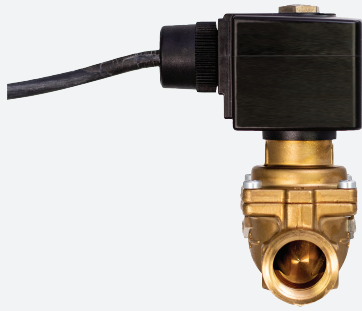




7500 Series manifold

7500-MAN-BK-**-*

- Optional digital valve
- Compensates for pressure fluctuations
- 230 VAC, 115 VAC, or 24 VDC
- Contacts are powered by the 7500 control unit

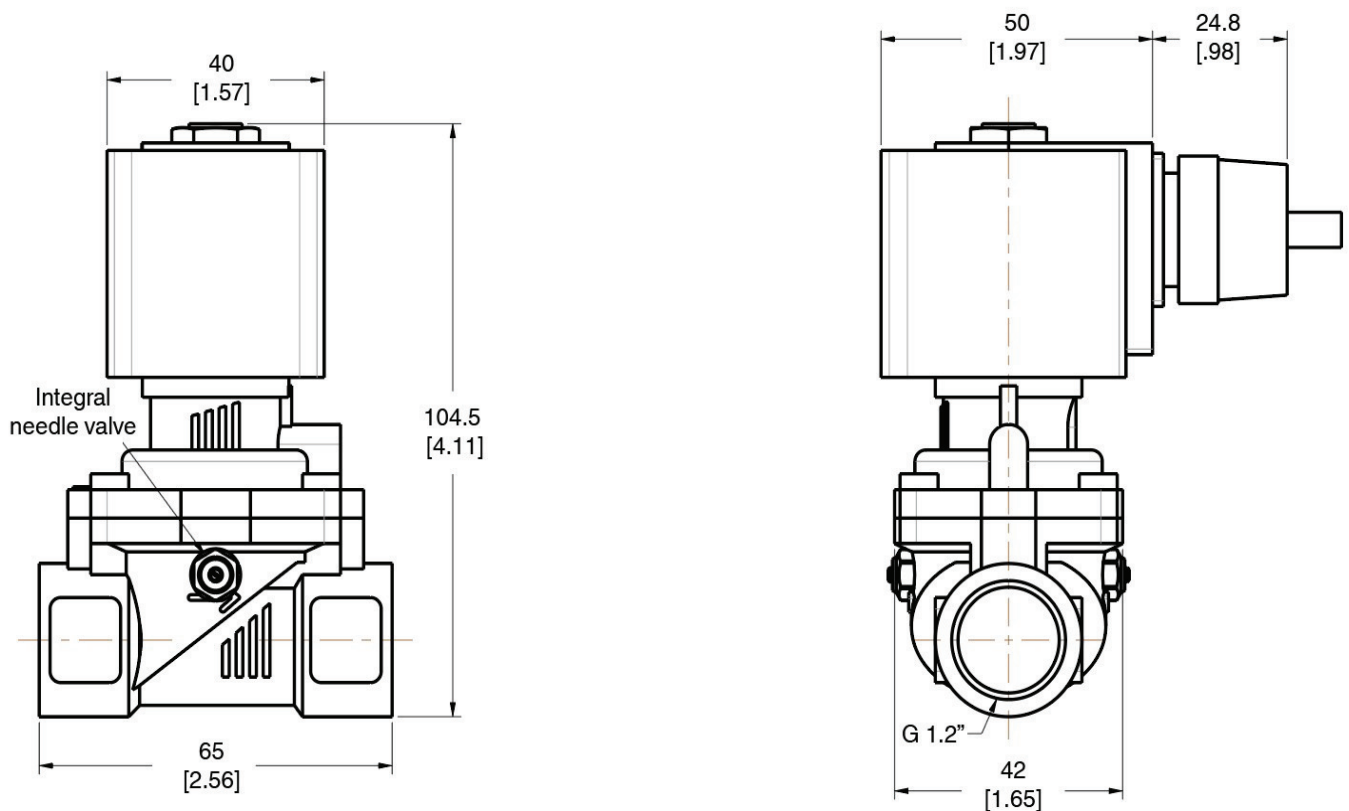


Function

The 7500 series Type Z/Ex pz purge and pressurization system allows general purpose equipment to be mounted in enclosures and operate safely in Division 2, Zone 2, or Zone 22 hazardous areas. The 7500 digital valve is used to pressurize the enclosure by adjusting an internal needle valve for pressure; purging of the enclosure is accomplished via a two-way valve. The 7500 control unit is set up to work with and power up the 7500 digital valve. The digital valve is Ex rated for hazardous areas.

The 7500-MAN-BK-**-* digital valve works with the 7500 control unit and is ATEX and CCC certified for use in Zone 2 or Zone 22 applications.

Dimensions



Technical Data

General specifications

Series	7500
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Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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PEPPERL+FUCHS

Technical Data

System		Type Z Purge ; Ex pzc Purge
Hazardous environment		gas or dust
Supply		
Rated voltage	U _r	230 VAC ±10% 115 VAC ± 10% 24 VDC ±10%
Power consumption		230 VAC @ 1.8 W 115 VAC @ 9 W 24 VDC @ 9 W
Pneumatic parameters		
Protective gas supply		instrument grade air or inert gas
Pressure requirement		T6 version: 0.2 bar (2.9 psi) to 4.0 bar (58 psi) T4 version: 0.2 bar (2.9 psi) to 16 bar (232 psi)
Purge flow rate		K _v value water 3.8 m³/h
Connections		G1/2 (13 mm)
Ambient conditions		
Ambient temperature		-40 ... 55 °C (-40 ... 131 °F)
Storage temperature		-40 ... 80 °C (-40 ... 176 °F)
Mechanical specifications		
Connection type		Inlet/outlet size: G 1/2 (13 mm) Jet size: 3.0 mm and 4.5 mm size (included)
Degree of protection		IP65
Material		Body: brass Valve (internal): brass Seal: NBR
Data for application in connection with hazardous areas		
EU-type examination certificate		
Marking		Ⓔ II 2 G Ex mb IIC T4/T6 Gb Ⓔ II 2 D Ex mb IIIC T130 °C / T80 °C Db Protection by encapsulation EPS 18 ATEX 1232 X
Certificate		CCC approvals
Marking		Ex mb IIC T4/T5/T6 Gb Ex mbD 21 T80°C/T95°C/T130°C
Directive conformity		
Directive 2014/34/EU		EN IEC 60079-0:2018, EN IEC 60079-7:2015/A1:2018, EN 60079-18:2015/A1:2017, EN 60079-31:2014
International approvals		
IECEx approval		IECEx EPS 18.0110X Ex mb IIC T4/T6 Gb Ex mb IIIC T130 °C/T80 °C Db

Type Code

Structure of the type code

7500	-	MAN	-	BK	-	(1)	-	(2)
7500		Device type						
7500		7500 Series Purge System						
MAN		Manifold						
MAN								
BK		Housing						
BK		Standard						
(1)		Voltage						
230VAC		230 V AC supply required						
115VAC		115 V AC supply required						
24VDC		24 V DC supply required						
(2)		Temperature rating						
T4		Available with 115 V AC and 24 V DC options						

Type Code	
(2)	Temperature rating
T6	Available with 230 VAC option

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