

5500 series manifold, ATEX/IECEx certified, 24 V DC

# **C E**

### Function

The 5500-MAN-EX01-\* combines a solenoid valve for purging and a needle valve for pressurization in one manifold design. When the valve is energized, the solenoid valve is open and allows for a high flow rate of protective gas into the enclosure. When the valve is deenergized, the flow through the internal needle valve is adjustable by a flathead screw driver through the needle stem on the manifold. The solenoid valve is used for purging, leakage compensation, and temperature control by signals from user defined points on the 5500 control unit. Mounting hardware includes 3/8" tube compression fittings mounted on the manifold for input and output flow, 3/8" tube compression bulkhead

fitting for getting flow into the enclosure and certified sealing washers with bolts to mount the manifold to the enclosure. Also included is 1 meter of 3/8" poly tubing with 3/8" poly tube stiffener inserts which allows the connection of plastic tubing to compression fittings without collapsing the tubing.

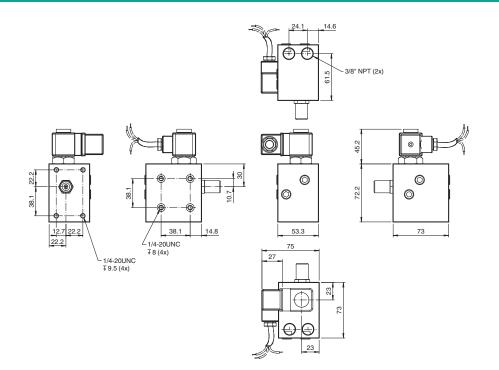
tubing. The 5500-MAN-EX-01-\* is certified for Zone applications. For NEC, Class/ Division applications see the model number key for proper manifold selection. The 5500 valve system works with the 5500 control unit and EPV-5500 vents.

The 5500 valve system has ATEX and IECEx certification for Zone 2&22 installation.

Refer to "General Notes Relating to Pepperl+Fuchs Product Information"



#### **Dimensions**



## **Technical Data**

General specifications	
Operating mode	automatic purging
Series	5500
Hazardous environment	gas or dust
Supply	
Rated power	24 V DC: 5.6 W Voltage tolerance: +/- 10 %
Electrical specifications	
Fuse rating	DC: 500 mA AC: 80 mA (fuse rating on 5500 control unit)
Pneumatic parameters	
Protective gas supply	instrument grade air or inert gas
Pressure requirement	1.7 bar (25 psi) to 8.0 bar (115 psi)
Purge flow rate	solenoid valves : Cv (flow coefficient) = 1.4 needle valve : Cv (flow coefficient) = 0.24
Ambient conditions	
Ambient temperature	-20 50 °C (-4 122 °F)
Mechanical specifications	
Connection type	Pneumatic Input port: 3/8 inch Tube compression fitting Output port: 3/8" Tube compression fitting
Degree of protection	type 7 & 9

Refer to "General Notes Relating to Pepperl+Fuchs Product Information"

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Technical Data									
Matarial									
Material	Housing: anodized aluminum 3/8" compression fittings: 316 stainless steel Pressure ports: 3/8" NPTF Bulkhead fitting: 316 stainless steel Mounting bolts: 1/4 - 20, 316 stainless steel Sealing washers: UL recognized type 4X								
Mass	1250 g (2.8 lb)								
Dimensions	see dimensions								
Data for application in connection with hazard	lous areas								
EU-type examination certificate									
Marking	<ul> <li>Is a second seco</li></ul>								
Certificate									
Temperature class	T3C								
International approvals									
IECEx approval	<ul> <li>Is a constraint of the second second</li></ul>								

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## **Type Code**

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													Voltage Requirement							
											24VDC									
											120VAC									
														230\	/AC					
	Type of Approval																			
				EX01 ATEX and IECEx certification																
									CD	)1	FM and CSA certification									
									CDUL UL and CS/					certification (different body design)						
					Va	lve Ty	be													
					MA	AN	Manif	old (inc	ludes	purgi	ng and	pressu	rizatio	n valve	es)					

#### Type of System

Type Z & Ex pz, Zone 2 & 22, NEC Class I & II / Division 2

Refer to "General Notes Relating to Pepperl+Fuchs Product Information"

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