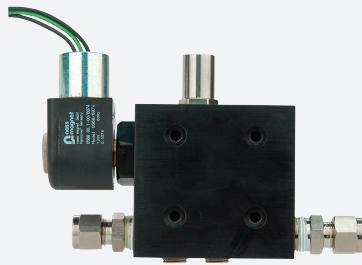


5500 Series manifold, FM and CSA certified

BEBCO EPS®



5500-MAN-CD01-*

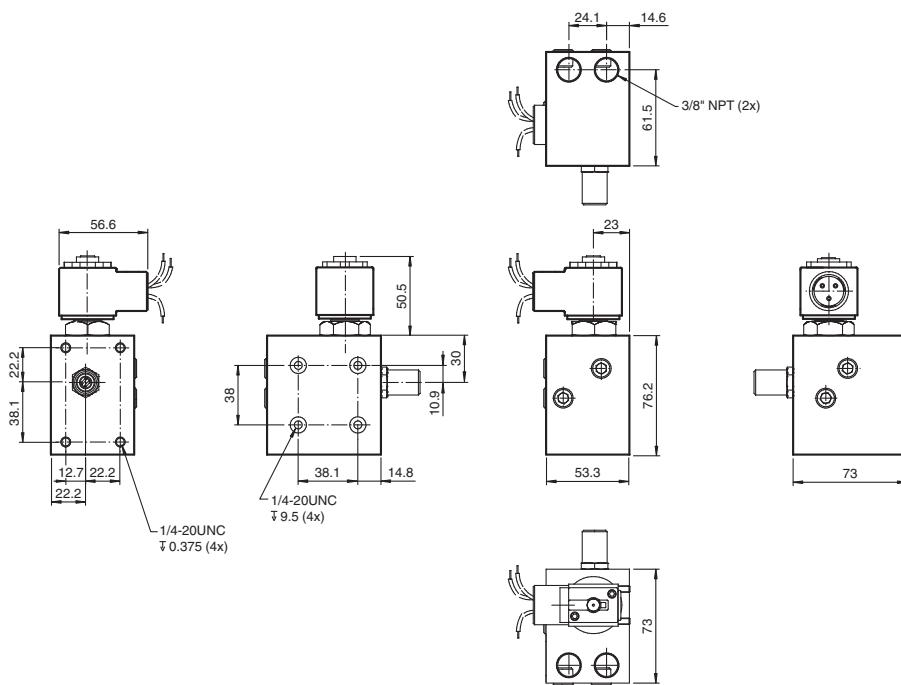
- Suitable for Class I,II/Div. 1 &2 for hazardous locations
- Certifications for FM and CSA
- Manifold combines the solenoid valve for purging and needle valve for pressurization in one housing
- Suitable for steel or plastic tubing
- Mounting hardware, pneumatic fittings and tubing included

Function

The 5500-MAN-CD01- * combines a solenoid valve for purging and a needle valve for pressurization in one manifold design. When the valve is energized, the solenoid valve opens and allows for a high flow 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 located 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.

The 5500 valve system works with the 5500 control unit and EPV-5500 vents. The 5500 Series system has FM and CSA certification for Class/Division installation, see model number key for proper manifold selection. For ATEX and IECEx applications look the model number key proper manifold selection.

Dimensions



Release date: 2025-06-18 Date of issue: 2025-06-18 Filename: t169984_eng.pdf

Technical Data

General specifications

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

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 PEPPERL+FUCHS

Technical Data

Operating mode	automatic purging
Series	5500
System	Type Z Purge ; Ex pzc Purge
Hazardous environment	gas or dust
Supply	
Rated power	24 VDC: 4.6 W 120 VAC: 6.8 VA, 60 Hz 230 VAC: 6.8 VA, 60 Hz 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	1.4 bar (20 psi) to 8.2 bar (120 psi)
Purge flow rate	solenoid valves : Cv (flow coefficient) = 1.4 needle valve : Cv (flow coefficient) = 0.25
Ambient conditions	
Ambient temperature	-20 ... 60 °C (-4 ... 140 °F)
Mechanical specifications	
Connection type	Pneumatic Input port: 3/8 inch Tube compression fitting Output port: 3/8" Tube compression fitting Electrical connection 1/2" NPTF thread connection w/ 24" (0.61m) flying leads
Degree of protection	type 7 & 9
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
International approvals	
FM approval	FM3006713 Explosion proof: Class I, Division 1, Group A-D, T4, Ta = 60C DIP: Class II, Division 1, Groups F+G, T4, Ta = 60C Nonincendive: Class I, Division 2, Groups A-D, T4, Ta = 60C Suitable for Class II, Division 2, Groups F+G, T4, Ta = 60C
CSA approval	CSA 202633 Class I, Division 1, Groups A-D: Class II, Groups E,F,G Class I, Division 2, Groups A-D

Type Code

5	5	0	0	-	M	A	N	-	E	X	0	1	-	2	4	V	D	C
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Voltage Requirement

24VDC

120VAC

230VAC

Type of Approval

EX01 ATEX and IECEx certification

CD01 FM and CSA certification

CDUL UL and CSA certification (different body design)

Valve Type

MAN Manifold (includes purging and pressurization valves)

Type of System

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