



## 6500 Series proportional valve

### 6500-MAN-PV-01

- Intrinsically Safe, 4 ... 20 mA proportional valve
- Pneumatic connections 10 mm compression ferrule tube fittings
- ATEX certification
- Maximum flow of around 8 scfm
- Closed loop flow rate control for precise dilution applications

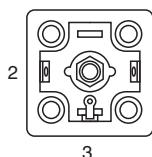
Type Ex px purge and pressurization system



#### Function

The 6500-MAN-PV-01 proportional valve consists of a Bellofram Type 2000 I/P, 10 mm ferrule fittings for tubing, and 10 mm tube bulkhead fitting with tubing included for connection to the enclosure. The 6500-MAN-PV-01 is designed to be used with the 6500 control unit system in 'PROPORTIONAL' mode for dilution applications. This system offers an ideal solution for precisely controlling the flow of protective air to maintain the dilution area within the enclosure when a containment system leaks under normal and/or abnormal conditions.

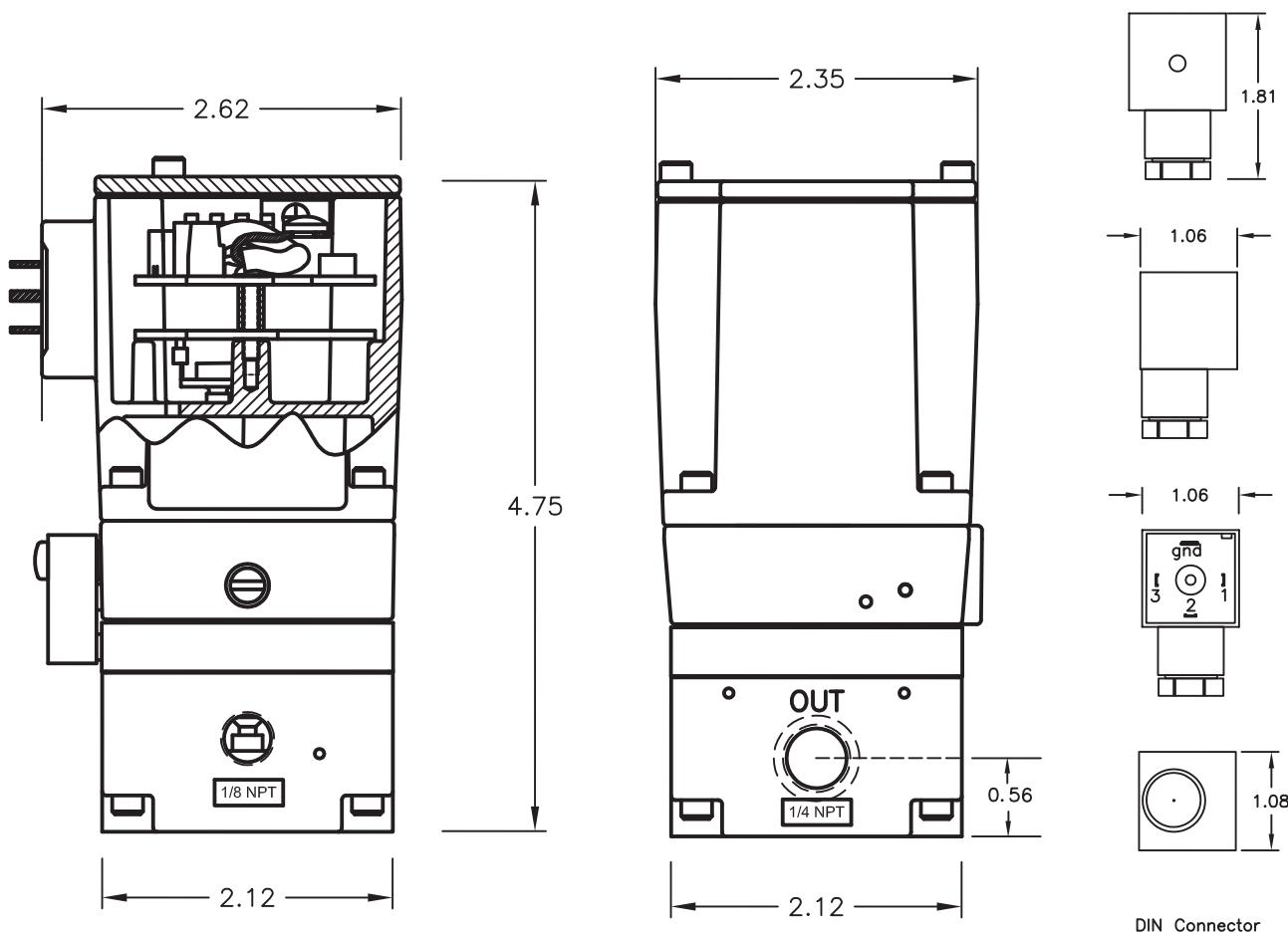
#### Connection



2	+
3	-

3

## Dimensions



DIN Connector

## Technical Data

## General specifications

Operating mode	automatic purging + pressurization
Series	6500
System	Ex pxb Purge , Ex pyb Purge

## Electrical specifications

Supply	I.S. 4 to 20 mA loop powered Entity Parameters: $U_i = 30 \text{ V}$ $I_i = 200 \text{ mA}$ $C = \mu\text{S}$ $L = 0 \mu\text{H}$ $P_1 = 1 \text{ w total}$
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## Pneumatic parameters

Protective gas supply	instrument grade air or inert gas
Pressure requirement	1.0 bar (15 psi) to 8.3 bar (120 psi)
Safe pressure	Gas: 0.35" wc (8.88 mm wc) (0.88 mbar/ 88 pa) Dust: 0.35" wc (8.88 mm wc) (0.88 mbar/ 88 pa) Gas+Dust: 0.35" wc (8.88 mm wc) (0.88 mbar/ 88 pa)
Valve flows	<b>6500-MAN-PV:</b> Proportional valve Purging/pressurization/dilution: 17 l/min to 226 l/min (0.6 to 8 scfm)
Connections	Inlet and outlet of valves <b>6500-MAN-PV-01:</b> 3/8"NPT, double ferrule 10mm compression fittings (included)

## Ambient conditions

Ambient temperature	-20 ... 60 °C (-4 ... 140 °F)
Storage temperature	-20 ... 60 °C (-4 ... 140 °F)

## Mechanical specifications

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

## Technical Data

Connection type	10 mm stainless steel ferrule tube fittings
Cable gland	I.S. connection: Hirschmann DIN 43650-A connector
Degree of protection	IP65 (DIN connector)
Material	painted aluminum body
Mass	700 g (1.5 lbs)
Dimensions	134 x 57 x 80 mm (5.3" x 2.3" x 3.2")
<b>Data for application in connection with hazardous areas</b>	
EU-type examination certificate	ATEX II 1 G EEx ia IIC T4 Tamb= -20 to 60 °C
Directive conformity	CE