

EP5 Fail Freeze



Description

EP5 Fail Freeze offers enhanced system safety gained from its fail freeze characteristic.

In the event that the 4-20 mA input signal is lost, EP5 Fail Freeze will fail in place.

The unit is loop powered and needs no additional power supply.

It features a rugged design, high gain, high capacity gold plated spool valve, external zero adjustment, gauge ports, replaceable filter, tapped exhaust port, all in an IP65/NEMA 4 enclosure.

Additional capabilities include the direct mounting of a sealed feedback unit, F5, with the ability to include switches, position transmitter or a potentiometer. The F5 mounts on top of the EP5 Fail Freeze requiring no additional brackets or linkage.

PMV also offers a wide range of mounting kits, cams and accessories, to easily customize the EP5 Fail Freeze to fit your application.



EP5 Fail Freeze

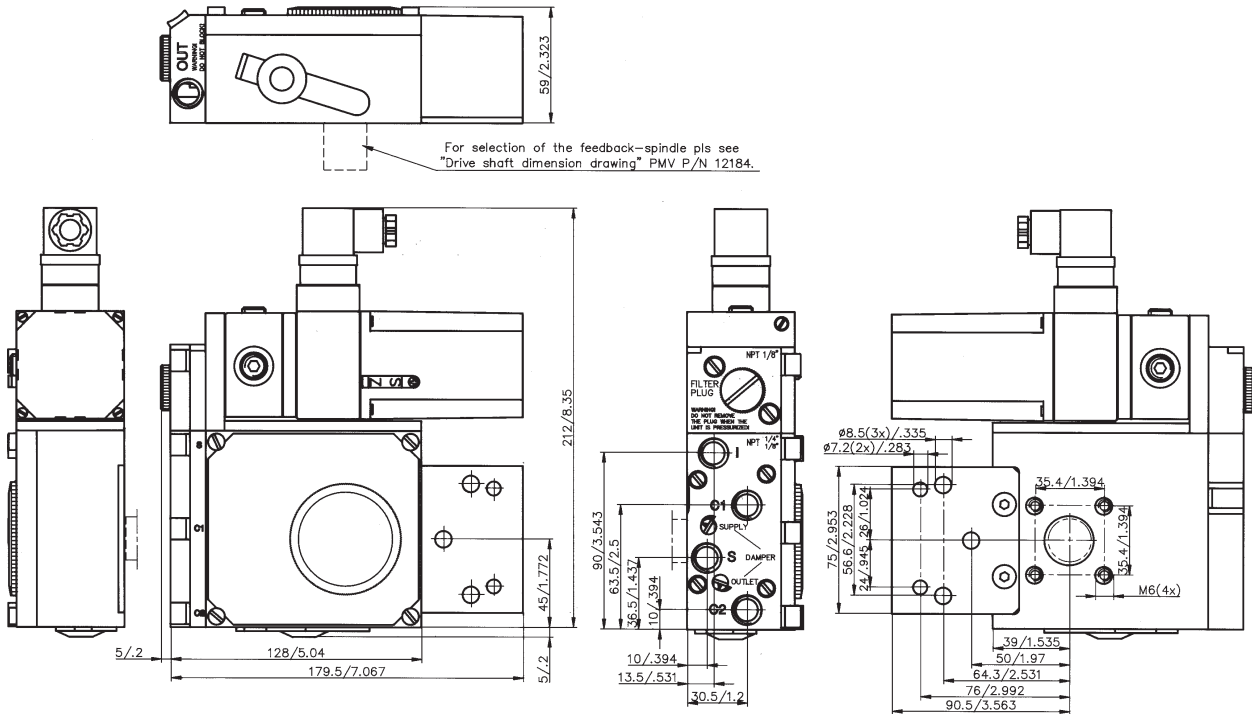
Options

- 1/2" NPT conduit connection
- H5, Dome style indicator
- F5 Feedback Unit

Technical Specifications:

Input signal	4-20 mA two wire	
Air supply	1,5 - 7 bar (20-100 Psi) Oil free, dry air filtered to 5 microns	
Air connections	1/4" NPT or G	
Gauge connections	1/8" NPT or G	
Electrical connections	DIN 43650, 30 mm square connector (standard) or 1/2" NPT	
Linearity	≤ 1,5%	
Repeatability	≤ 0,5%	
Hysteresis + deadband	≤ 1%	
Gain factor	Min. 66%/ % ISA S75.13-1989 Min. 1000 kPa/kPa at 20% load	
Air delivery capacity	200nl/ min (6,9 SCFM) at 0,2 MPa/29 Psi 370 nl/ min (12,8 SCFM) at 0,4 MPa/58 Psi 540 nl/ min (18,8 SCFM) at 0,6 MPa/87 Psi	Low Bleed 156 nl/ min (0,62 SCFM) 288 nl/ min (0,62 SCFM) 421 nl/ min (0,62 SCFM)
Air consumption	6,1 nl/ min (0,22 SCFM) at 0,2 MPa/29 Psi 13,6 nl/ min (0,48 SCFM) at 0,4 Mpa/58 Psi 22 nl/ min (0,78 SCFM) at 0,6 MPa/87 Psi	2,7 nl/ min (0,1 SCFM) 6,1 nl/ min (0,21 SCFM) 9.9 nl/ min (0,35 SCFM)
Supply pressure effect	0,1% /0,1 MPa (15 Psi)	
Voltage drop	5,5 - 6 Volts	
Position sensitivity	None	
Fail freeze level	Input signal < 2 mA (+0,5 mA)	
Fail freeze drift rate	+2% setpoint/hour at constant temp	
EMC	BSEN 50081-2:1994 & BSEN 50082-2:1995	
Temp range	-20° to 70C° (-4° to 158°F)	
Materials	Die cast aluminium, Zinc, Nylon, Stainless steel	
Surface treatment	Epoxy coating, black	
Ingress protection	IP65/NEMA 4	
Weight	2,4 kg (5,3 lbs)	

Dimensional Drawing, EP5 Fail Freeze



Ordering Information

1. Model	EP5FS	EP5 fail freeze
2. Spool valve	HP or LB	High Performance or Low bleed
3. Air connection	N or G	NPT 1/4" or G 1/4"
4. Surface treatment	U	Epoxy coating
5. Spindle	01	01 to 35 See dwg SPNDLSP5
6. Cam	K01	K01 to K17, K01 = linear 90 deg, standard
7. Front over	PV9DA	90 deg*, direct, arrow indicator
8. Input signal	4	4-20 mA input
9. Temperature	Z	Nitrile seals -20 °C

* For 30, 45 and 60 deg rotation, change PV9 to PV3, PV4 or PV6.

Example: EP5FSHPNU-23K01-PV9DA-4Z
 1 2 3 4 5 6 7 8 9



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