

HAZARDOUS LOCATION HIGH PRESSURE VALVES



Series 20 >> Model EH22

Hazardous Location High Pressure – 2-Way Normally Closed

When the coil is energized, the plunger accelerates freely before it makes contact with the sealing pin shoulder. Upon contact, it imparts considerable kinetic energy to the pin causing it to lift off the orifice seat against the force of high pressure. For use on air and other non-corrosive gases, water and oil.

- Precision stainless steel, free floating plunger.
- Kel-F pin sealing element.
- Orifice guides the sealing pin for near perfect alignment.
- Simple construction...only two moving parts.

OPERATING CONDITIONS

Media: Air and other non-corrosive gasses, water and oil.

Filtration: Down to 60 microns or less is recommended.

Valve Temperature Range: Standard Valves - 0°F (-18°C) to 104°F (40°C) ambient; 0°F (-18°C) to 150°F (65°C) media. Optional Valves - can tolerate much higher or much lower ambient and media temperatures.*

Maximum Operating Pressure Differentials: See table on proceeding page.

Burst Pressure: 10,000 PSI

Leakage: Bubbletight (with polymer sealing pins)

ELECTRICAL CHARACTERISTICS

Coil Voltage: 6 to 825V AC 60 HZ. and 5 to 720V AC 50 HZ. – 1.8 to 265V DC

Nominal Power: AC – 7.3 Watts DC – 9.5 Watts

Coil Construction: Molded Class F with third wire ground (Std.), Class H or Potted (Opt.)

Typical Response Time on Air: 4 - 16 Milliseconds

Operating Speed: Up to 600 CPM with gas media

Duty Cycle: Continuous

MECHANICAL CHARACTERISTICS

Body: Stainless Steel

Internal Components: Stainless Steel

Elastomers: Nitrile (Buna) (Std.). Many other elastomers available.*

Sealing Pin: Kel-F (Std.), Delrin®, Teflon®, Nylon, PEEK, Radel®, Ultem®, 303 Stainless Steel (Opt.)

Orifice Diameter: See table on proceeding page.

Porting: 1/8" NPT and 1/4" NPT (other ports available).

Housing: Flame-Proof construction with 1/2" NPT conduit

Mounting: Must be mounted within 30° of vertical.

Listings: Valves are UL listed and certified for Hazard Locations – Class I, Div 1, Group C and D - Class II, Div 1, Group E, F, and G; Div 2, Groups C, D, E, F, and G.

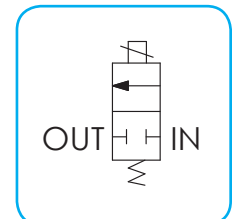
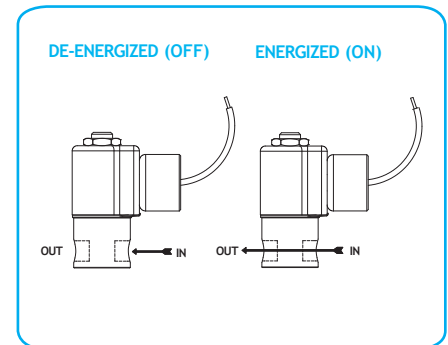
Life Expectancy: Millions of cycles, depending on application, lubrication, etc.

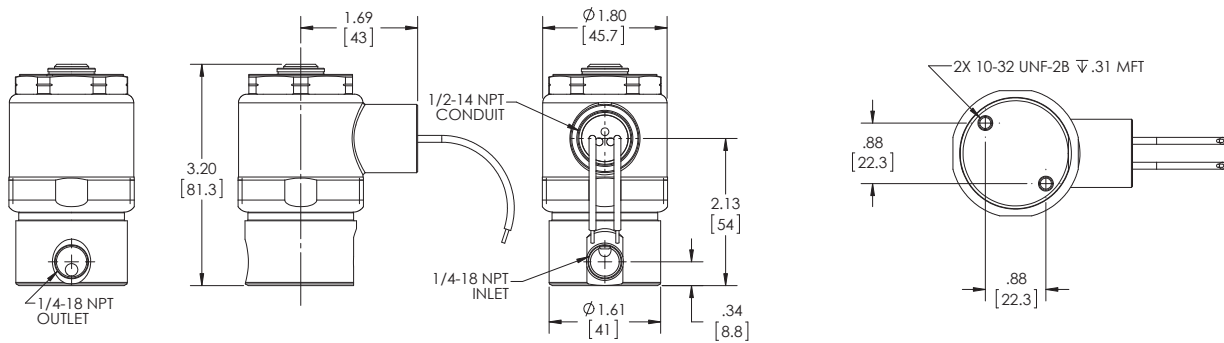
Valve Weight: 1.50 lbs

Repair Kits: See table on proceeding page.

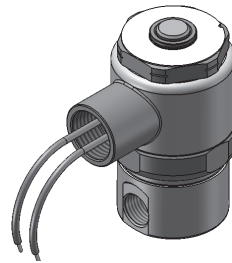
Options: Alternate Sealing Pin Materials and Alternate Elastomers*

* Consult representative or factory for options and specifications.





**SERIES 20 MODEL H22
2WNC
EXPLOSION PROOF/HIGH PRESSURE**



VALVE SPECIFICATIONS

GAS PRESSURE RATINGS		ORIFICE SIZE N.C.	CV FACTOR N.C.	VALVE NUMBER	
AC	DC			1/8 NPT PORTS	1/4 NPT PORTS
5000	5000	.025	.010	EH22M7DCCM	EH22M9DCCM
3000	3000	1/32	.022	EH22G7DCCM	EH22G9DCCM
2500	1500	3/64	.041	EH22H7DCCMG	EH22H9DCCMG
1750	500	1/16	.065	EH22J7DCCMG	EH22J9DCCMG
650	100	3/32	.100	EH22K7DCCMG	EH22K9DCCMG
LIQUID PRESSURE RATINGS		ORIFICE SIZE N.C.	CV FACTOR N.C.	VALVE NUMBER	
AC	DC			1/8 NPT PORTS	1/4 NPT PORTS
5000	5000	.025	.010	EH22M7DCCM	EH22M9DCCM
3000	3000	1/32	.022	EH22G7DCCM	EH22G9DCCM
1500	1500	3/64	.041	EH22H7DCCML	EH22H9DCCML
1000	500	1/16	.065	EH22J7DCCML	EH22J9DCCML
650	100	3/32	.100	EH22K7DCCML	EH22K9DCCML

WHEN ORDERING VALVES OR REPAIR KITS ADD VOLTAGE AND FREQUENCY TO COMPLETE VALVE NUMBER. EXAMPLES: VALVE (EH22J7DCCML-120/60) REPAIR KIT (2KEH22J-AC)