HIGH PRESSURE UALUES



Note: This valve also available as an operator. Refer to following page.

Series 20 >> Model H22

High Pressure — 2-Way Normally Closed Valve

When the valve coil is energized, the plunger is drawn towards the sleeve end stop. The plunger is allowed to accelerate freely for a short distance before it makes contact with the shoulder of the sealing pin. Upon contact it imparts considerable force on the pin causing it to lift the seat. A return spring provides the return force, directly on the pin, to seal the orifice when the coil is de-energized. The valve must be mounted 30 degrees of vertical and is for use on air and other non-corrosive gases, water and oil.

- Kel-F pin sealing element.
- Orifice guides the sealing pin for perfect alignment.
- Simple construction...only three moving parts.

OPERATING CONDITIONS

Media: Air and other non-corrosive gases, 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 - 7.7 Watts DC - 9.5 Watts

Coil Construction: Molded (Std.), Non-molded Class A and Potted Class F, (Class H optional)

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 (Std.) or Brass (Opt.) **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: Grommet and 1/2" NPT conduit - many options available.*

Mounting: Must be mounted within 30° of vertical. **Listings:** Most valves are UL and CSA listed.*

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

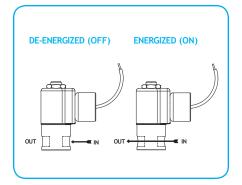
Valve Weight: Grommet Valve: 1.13 lbs, Conduit Valve: 1.19 lbs

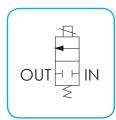
Repair Packs: See table on proceeding page.

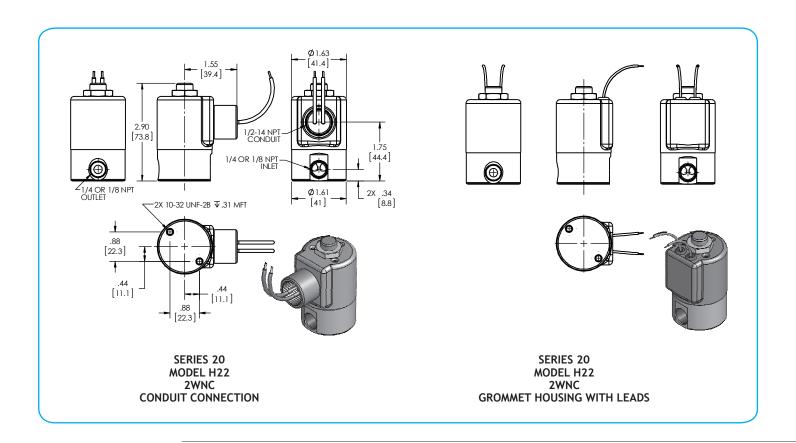
Options: Alternate Port Locations, Alternate Elastomers, Alternate Sealing Pin Materials, Spade Terminal Coil,

and European Style DIN Coil*

* Consult representative or factory for options and specifications.







VALVE SPECIFICATIONS

GAS PRESSURE		VALVE NUMBER					
RATINGS		ORIFICE SIZE	CV FACTOR	GROMMET HOUSING		CONDUIT HOUSING	
AC	DC	N.C.	N.C.	1/8 NPT PORTS	1/4 NPT PORTS	1/8 NPT PORTS	1/4 NPT PORTS
5000*	5000*	.025	.010	H22M7DGM	H22M9DGM	H22M7DCM	H22M9DCM
3000*	3000*	1/32	.022	H22G7DGM	H22G9DGM	H22G7DCM	H22G9DCM
2500*	1500*	3/64	.041	H22H7DGMG	H22H9DGMG	H22H7DCMG	H22H9DCMG
1750*	500	1/16	.065	H22J7DGMG	H22J9DGMG	H22J7DCMG	H22J9DCMG
650*	100	3/32	.100	H22K7DGMG	H22K9DGMG	H22K7DCMG	H22K9DCMG
LIQUID PRESSURE			VALVE NUMBER				
RATINGS		ORIFICE SIZE	CV FACTOR	GROMMET HOUSING		CONDUIT HOUSING	
AC	DC	N.C.	N.C.	1/8 NPT PORTS	1/4 NPT PORTS	1/8 NPT PORTS	1/4 NPT PORTS
5000*	5000*	.025	.010	H22M7DGM	H22M9DGM	H22M7DCM	H22M9DCM
3000*	3000*	1/32	.022	H22G7DGM	H22G9DGM	H22G7DCM	H22G9DCM
1500*	1500*	3/64	.041	H22H7DGML	H22H9DGML	H22H7DCML	H22H9DCML
1500* 1000*	1500* 500	3/64 1/16	.041 .065	H22H7DGML H22J7DGML	H22H9DGML H22J9DGML	H22H7DCML H22J7DCML	H22H9DCML H22J9DCML

^{*} FKM seals not recommended for pressure above 500 psi.

ORDERING INFORMATION:

WHEN ORDERING VALVES OR REPAIR PACKS ADD VOLTAGE AND FREQUENCY TO COMPLETE VALVE NUMBER. EXAMPLES: VALVE (H22J7DGMG 120/60) REPAIR PACK (KH22JD AC)

WHEN ORDERING OPERATORS ADD THE LETTER "O" TO THE FRONT OF THE VALVE NUMBER, REPLACE BODY PORT NUMBER WITH THE LETTER "D": EXAMPLE: OPERATOR (OH22J7DGMG 120/60)