

PETER PAUL

SERIES 20 MODEL H21 & EH21 2-WAY NORMALLY OPEN HIGH PRESSURE



Model H21 with standard body

2-Way Normally Open

Coil Voltage: DC Only

Maximum Operating Pressure Differential: 2000 PSI (Gas or Liquid)

Orifice Size: .6 mm

CV Factor: .010

Filtration: Down to 60 microns or less is recommended

Burst Pressure: 5000 PSI

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. Consult factory for specifications.



EH21

EXCLUSIVE FEATURES INCLUDE:

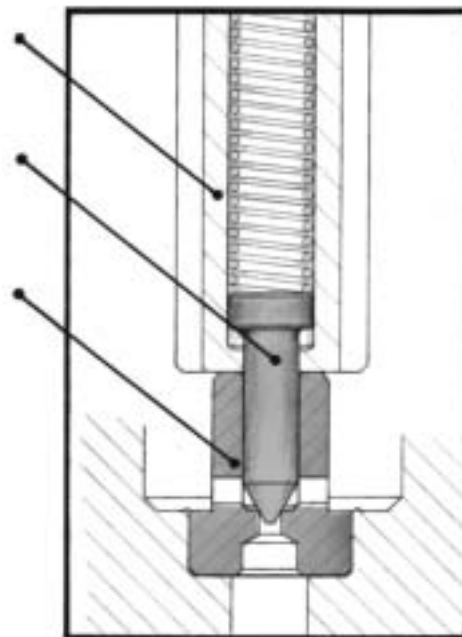
A precision stainless steel **PLUNGER** that supplies the necessary impact force to energize valve.

A Kel-F® **PIN**† which functions as a sealing element, that is carefully machined for maximum concentricity and fine finish.

The **ORIFICE GUIDE** is one piece, for near perfect alignment. This means bubble-tight sealing from low pressures right up to maximum pressure rating with the bonus of longer life. The one piece Orifice/Guide can be pressed into almost any standard cavity making it available as an operator for special customer installations.

† Other pin materials available. consult factory

PATENTED



OTHER FEATURES INCLUDE:

Simple construction...

Only 2 moving parts

Available in both standard and explosion proof construction

1/8 or 1/4 NPT ports

PRINCIPLES OF OPERATION

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 pin shoulder. Upon contact it imparts considerable force on the pin causing it to lift off the seat. A return spring provides the return force, directly on the pin, to seal the orifice when the coil is de-energized.

GAS PRESSURE RATINGS*	ORIFICE SIZE	CV FACTOR	VALVE NUMBER	LIQUID PRESSURE RATINGS*	ORIFICE SIZE	CV FACTOR	VALVE NUMBER
3000	1/32	.022	EH21G7DCCM	3000	1/32	.022	EH21G7DCCM
2500	3/64	.041	EH21H7DCCMG	1500	3/64	.041	EH21H7DCCML
1350	1/16	.061	EH21J7DCCMG	850	1/16	.061	EH21J7DCCML
450	3/32	.084	EH21K7DCCMG	300	3/32	.084	EH21K7DCCML

OPTIONS AVAILABLE: – 2 WAY NORMALLY OPEN HI-PRESSURE VALVE

COIL OPTIONS – see page 79

MOLDED COIL

POTTED COIL & HOUSING

POTTED COIL & HOUSING

HIGH TEMPERATURE MOLDED COIL

MISCELLANEOUS OPTIONS – see page 76

SILVER SHADING RING

ALUMINUM SHADING RING

Note: Availability of certain options or combination of options may vary with quantity of units ordered- Consult representative or factory.



SPECIFICATIONS

MODEL EH21

Two-way normally open valve for high pressure applications.

OPERATING CONDITIONS

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

Filtration: Down to 60 microns or less is recommended.

Burst Pressure: 5000 PSI

Maximum Operating Pressure Differential: to 3000 PSI

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. Consult factory for specifications.

Listings: Valves are U.L. Listed and CSA Certified for Hazardous Locations—Class I, Div 1, Groups C and D - Class II, Div 1, Groups E, F, and G; Div 2 Groups A,B,C,D,E,F, and G.

ELECTRICAL CHARACTERISTICS

Coil Voltage: 5 to 825 VAC, 50-60 Hz. 1.8 to 265 VDC

Nominal Power: 7.3 watts A.C. 9.5 watts D.C.

Coil Construction: Molded coil and third wire ground (standard)

MECHANICAL CHARACTERISTICS

Body: Stainless Steel

Orifice Diameter: 1/32" - 3/32"

Porting: 1/8" NPT

Housing: Explosion Proof—1/2" NPT conduit

Mounting: Valve must be mounted within 30° of vertical

