

DESCRIPTION

A 2-Way, normally closed, manually operated, push knob to open, latching in the open position, spring-return, screw-in, directional hydraulic cartridge valve, poppet design.

FEATURES

Actuator mechanism may be rotated 360° for ease of access to Latch Release Pin. Ability to rotate is for access only. Valve does NOT latch by rotating! Actuator area is isolated from system ports through a 10 Micron sintered filter.

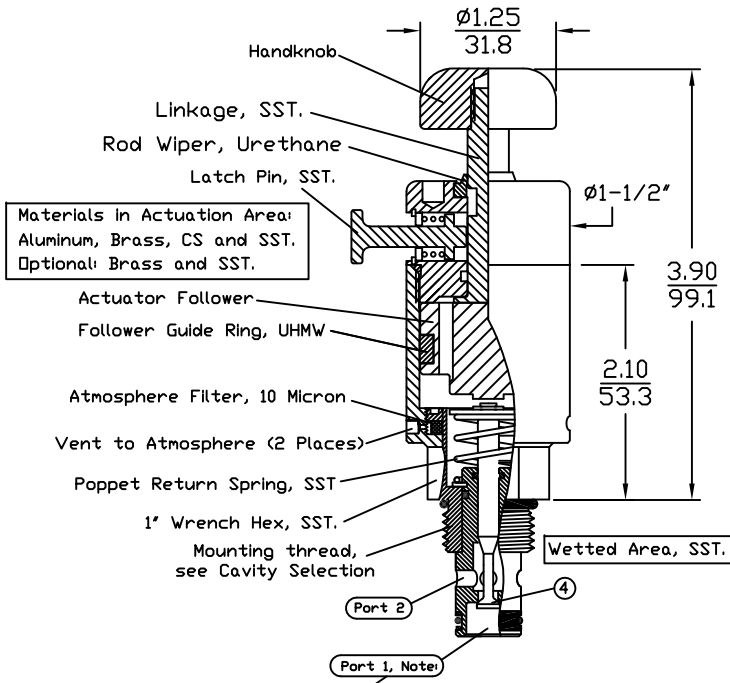
OPERATION

Once the valve is fully actuated, it is held in the actuated position until released by pulling the Latch Release Pin. Upon pulling the latch release pin, the valve spring returns the poppet to the closed position as illustrated by the functional symbol. It is ideal to connect the No. 1 Port of the valve to the lowest pressure port, typically the Tank port. See "SHIFT FORCE NOTES" and Caution Note regarding PSI limitation when Latching feature is engaged.

SHIFT FORCE NOTES:

10 to 15 Pounds of Force is required to shift the valve poppet with zero pressure on ports 1 and 2. Any pressure on Port No. 1 will increase the Force Requirement by .030 X PSI. Any pressure on Port No. 2 will increase the Force Requirement by .003 X PSI.

CARTRIDGE VALVE



Materials in Actuation Area:
Aluminum, Brass, CS and SST.
Optional: Brass and SST.

Caution Note:
Note: When Latching feature is engaged, pressure at Port 1 must not exceed 65 PSI.

**INCH
METRIC**

RATINGS:

Working Pressure:
Port 1, Latched 65 PSI
Cavity C-8502, 5,000 PSI,
Cavity C-8542, 5,000 PSI Port 1
Cavity C-8542, 3,000 PSI Port 2
Fluid temperature:
-45°F, (42.7°C) to 200°F, (93.3°C)

Cavity & Housing

For 82H#227M##1 Valve:
Cavity Drawing:
1200630 Spec. Sheet
Line Mount Housings:
1200672 Spec. sheet
Panel Mount Housings:
1202981 and 1203290
Spec. Sheets

Cavity & Housing

For 84H#227M##1 Valve:
Cavity Drawing:
1200621 Spec. Sheet
Line Mount Housings:
1200674 and 1201455
Spec. Sheets
Panel Mount Housings:
1202982 and 1203290
Spec. Sheets

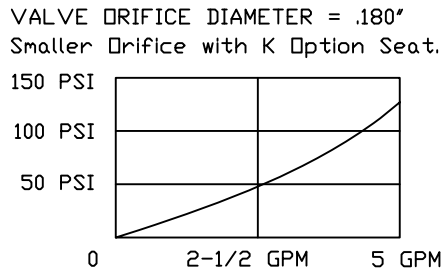
Valve Number: **8#H#227MOL#1**

2 = 3/4-16 Thread Cavity C-8502 (8-2)
4 = 7/8-14 Thread Cavity C-8542 (10-2)

Operators:
K = Knob, Aluminum
R = Knob, Red Ano.
S = Knob, Stainless

Blank = Standard Hard Seat
K = Kel-F Soft Seat with Hard Seat backup. Ref. Key 4
Reduces Flow $C_v = 0.3$ Prox.

PRESSURE DROP CHART $C_v = 0.4$ Hard Seat Only.



2PB SERIES

Functional Symbol

2PB N/C
2 Way Poppet Valve, Normally Closed
Manually Operated, Latching Valves