CARTRIDGE VALVE

DESCRIPTION
A 2-Way, normally open, manually operated, push knob to close, spring-return, screw-in, directional hydraulic cartridge valve, poppet design.

FEATURES
Actuator area is isolated from system ports through a 10 Micron sintered filter.
(P) Seat Saver: Pre-Loads Poppet and protect the seat from OverTravel.

OPERATION
Be sure to review the SHIFT FORCE NOTES. The operator force required to hold the valve closed can be high, depending on the pressures at Port No. 1 and Port No. 2. For ease of operation, use the No. 1 Port for the lower pressure in your system.

SHIFT FORCE NOTES:
Due to the Poppet Return Spring, 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 .003 X PSI. Any pressure on Port No. 2 will increase the Force Requirement by .003 X PSI.

RATINGS:
Working Pressure:
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)

Valve Number: 8#527MP#0

PRESSURE DROP CHART
Valve Orifice Diameter .18", CV = 0.5

2PB SERIES
Functional Symbol
2 Way Poppet Valve, Manually Operated