DESCRIPTION
A 2 or 3-Way, manual, push to shift, latching in the shifted position, spring-return, screw-in, directional hydraulic cartridge valve, spool 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 spool to the normal position as illustrated by the corresponding functional symbol selected. It is ideal to connect the No. 1 Port of the valve to the lowest pressure port, typically the Tank port. Any pressure on No. 1 Port will act upon the spool linkage and is additive to the spring force and effects the shift force required. See "SHIFT FORCE NOTES:".

SHIFT FORCE NOTES:
10 to 15 Pounds of Force is required to shift the valve spool with zero pressure on port no. 1. Any pressure on Port No. 1 will increase Force Requirement by .012 X PSI at Port No. 1.

DOERING CARTRIDGE VALVE ORDERING INFORMATION:
Order P/N 54H237MOL# # ######

DIRECT PLUNGER OR KB DESIGNATION:
Material: When Blank (includes Brass, Aluminum and Stainless Steel)
SS (includes Brass and Stainless Steel)
SS316 (includes Brass, 17-4 and 316 Stainless Steel)

SPool DESIGNATION:

Pressures to 3,000 PSIG, Ports 2 & 3 Only
Pressure to 150 PSIG, Port No. 1
Use No. 1 Port for Drain or Tank.
Caution, Port 1 Pressure effects Shift Force. See "SHIFT FORCE NOTES" for more detail.
Temperature: -40° to 120°C

3PS SERIES
2 and 3 Way Spool, Directional Control, Manually Operated, Latching Valves