

CARTRIDGE VALVE

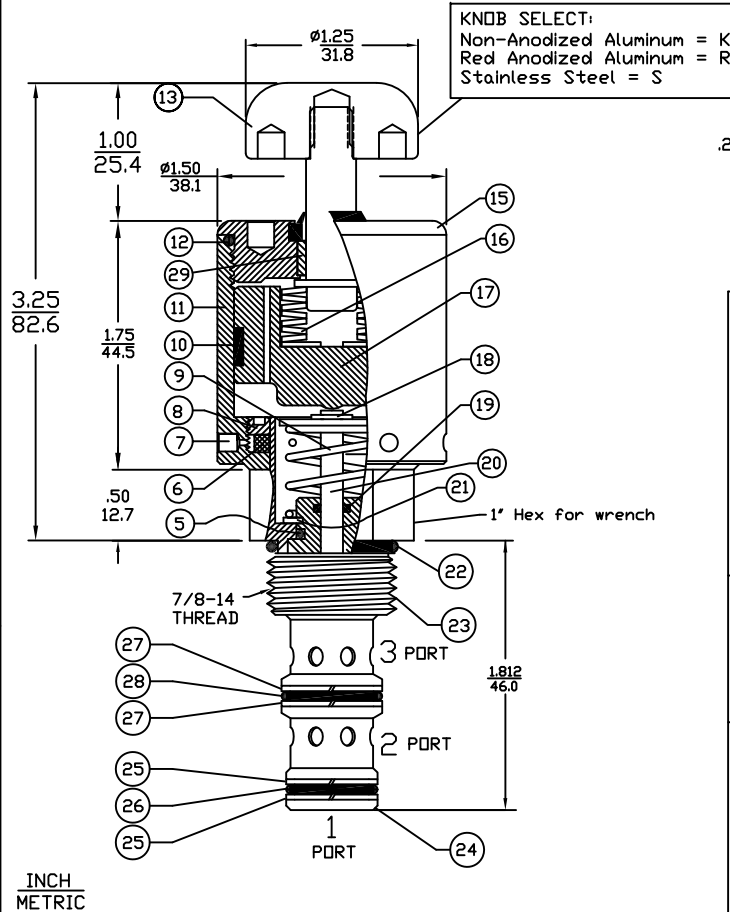
KEY EXPLANATION:

1. Bottom System Port (1)
2. Second from bottom System Port (2)
3. Third from bottom System Port (3)
5. Cartridge Seat Seal (Teflon)
6. Filter, 10 Micron Sintered Bronze (optional SST.)
7. Vents to atmosphere (2 Places 180° apart)
8. Filter Retainer, Aluminum (optional SST.)
9. Spool return Spring, Stainless Steel.
10. Piston Wear Ring, UHMW (optional Teflon)
11. Actuator Guide Cylinder, Aluminum (optional SST.)
12. Bonnet O-Ring, Buna-N (also see options)
13. Operator Knob (See part No. designations)
15. Upper Actuator Bonnet, Aluminum (optional SST.)
16. Overtravel Protection Option (Prox. 1/8")
17. Operator Follower Assembly, Aluminum (Optional SST.)
18. Spring Retainer Assembly
19. O-Ring Seal, Teflon
20. Spool Connector Linkage (17-4PH900 SST.)
21. Retaining Ring, Carbon Steel (optional SST.)
22. O-Ring Seal, Buna-N (also see options)
23. Cartridge Mounting Threads (7/8-14)
24. Spool Cage (Heat Treated Stainless)
25. Back Up Rings, Teflon (two used)
26. O-Ring Seal, Buna-N (Also see Options)
27. Back Up Rings, Teflon (two used)
28. O-Ring Seal, Buna-N (Also see Options)
29. Bronze Bushing

SHIFT FORCE NOTES:

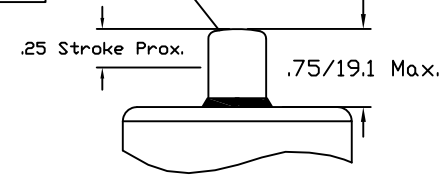
10 to 15 Pounds of Force is required to shift the valve spool with zero pressure on port no. 1.

Any pressure on Port No. 1 will increase Force Requirement by .012 X Port No. 1 PSI.



KNOB SELECT:
 Non-Anodized Aluminum = K
 Red Anodized Aluminum = R
 Stainless Steel = S

DIRECT PLUNGER = D
 Direct Plunger Operator
 .75/19.1 Radlused End
 Material 17-4 PH900, SST.



Cavity & Housing

Cavity C-8543 (10-3)
 See Spec. Sheet 1200634
 Line Mount Housings:
 See Spec. Sheets
 1200673 and 1201903
 Panel Mount Housings:
 See Spec. Sheets
 1202983 and 1203290

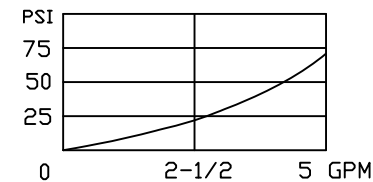
OPTIONS

Available with or without Overtravel Protection.
 Optional seals include Viton, Teflon and others.
 Key 7 vents to atmosphere (2 Places).
 T Option provides 10-32 Threaded ports at these locations.

OPERATION

Manually Operated Hydraulic Spool Valve.
 Three Way, Directional Control or Selector Valve.
 Maximum System Pressure: Ports
 1, 2, and 3 > 3,000 PSIG. See "SHIFT FORCE NOTES"
 Spool Stroke is 1/4" .
 Stroke and Over Travel dimensions are approximate.
 Fluid temperatures -40°F (-40°C) to 200°F (93.3°C)
 Install Cartridge valve using 1" wrench
 Valve should screw in freely to the Mount Seal.
 Final tightening 20 to 30 foot pounds torque.
 Use lubricant on external oil seals and mounting threads.

PRESSURE DROP CHART



3PS SERIES

3 Way Spool Valve, Manually Operated.
 Directional Control or Selector Valve.

CARTRIDGE VALVE ORDERING INFORMATION:

Order P/N 54H237M###

No Overtravel Protection = 0 } SPOOL DESIGNATION:
 With Overtravel Protection = P } KNOB DESIGNATION:

