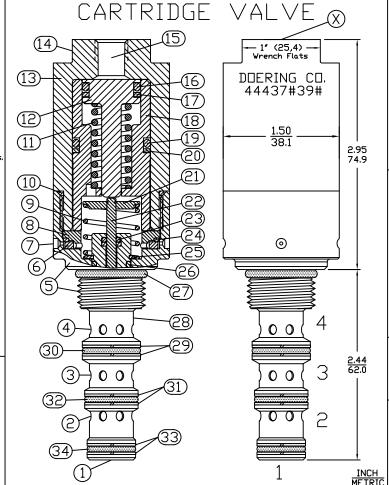
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# KEY EXPLANATION:

- 1. Bottom: System Port (T)
- 2. Second from bottom: System Port (A)
- 3. Third from bottom: System Port (P)
- 4. Fourth from bottom: System Port (B) 5. Cartridge Body, Lower Section, 7/8'-14 Thread 6. Filter, 10 Micron Sintered Bronze.
- 7. Vents to atmosphere ( 2 Places 180° apart )
- 8. Filter Retainer
- 9. Spool return Spring, Stainless Steel. 10. D-Ring Seal, Buna N ( Also see Options ) 11. Coll Spring, Stainless Steel
- 12. Piston
- 13. Cartridge Body, Upper Section 14. 1' Wrench Flats
- 15. Pilot Port. See Ordering Information for choices.
- 16. D-Ring Seal, Buna N ( Also see Options )
  17. Back Up Ring, Teflon
  18. Cylinder Sleeve
- 19. D-Ring Seal, Buna N ( Also see Options )
- 20. Back Up Ring, Teflon
- 21. Spring Retainer Assembly
- 22. Spool Connector Linkage ( Stainless Steel )
- 23. D-Ring Seal, Teflon
- 24. O-Ring Seal, ( Buna-N )
- 25. Retaining Ring
- 26. D-Ring Seal, Teflon
- 27. O-Ring Seal, Buna-N ( Also see Options )
- 28. Spool Cage ( Heat Treated Stainless )
- 29. Back Up Rings, Teflon ( two used )
- 30. D-Ring Seal, Buna-N ( Also see Options )
- 31. Back Up Rings, Teflon ( two used )
- 32. O-Ring Seal, Buna-N ( Also see Options )
- 33. Back Up Rings, Teflon ( two used )
- 34. O-Ring Seal, Buna-N ( Also see Options )

## 39:1 PILOT RATIO:

Pilot Ratio applies to the T Port only. The A, B, and P ports are balanced To determine the pilot pressure required, divide the maximum pressure at the T Port by the ratio of 39 and add the spring PSI of 100.
This represents the theoretical minimum pilot pressure in PSI required to shift the valve. Considering variations in springs and hysteresis it is advisable to add at least 50 PSI to the calculated minimum theoretical pilot pressure to assure full valve shift.



## Cavity & Housing

Cavity & Tooling C-8544 (10-4): See Spec. Sheet 1200671

Line Mount Housings:

See Spec. Sheet 1200675 & 1202930

Panel Mount Housings & Spacers See Spec. Sheets

1202984 and 1202990

Cavity & Housing information found at www.doering.com Products Housings

Doering Co. also manufactures multi function and multi station housings and manifolds.

## Specifications

Hydraulic or Gas Pilot Operated Spool Valve. Four Way, Directional Control or Selector Valve.

Pilot (X) Hydraulic or Gas mediums. Pilot Pressure Range, 100 PSI Min. to 5000 PSI Max. See 39:1 Pilot Ratio notes for more information.

System Ports ( A, B, P, and T ) require lubricated fluid. I.E.: Standard Hydraulic Dil. Ports A, B, P, and T rated to 3,000 PSI.

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

#### Features

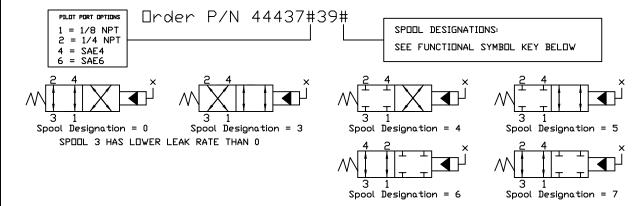
Pilot area (X) is isolated from system ports (A, B, P, and T) by vent to atmosphere (Key 7).

All ports may be pressurized allowing use as directional control or selector valve.

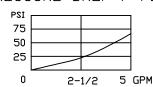
### Notions

All Stainless Steel option, add -SS to Part Number. Standard seals ore Buna-N with Teflon back up rings. Optional seals include EP, Viton, Teflon and others. Key 7, Vents to atmosphere ( 2 Places 180° apart ). T Option provides 10-32 Threaded ports at these locations. With T option, Key 6. Sintered Bronze filter, is omitted from the assembly.

#### CARTRIDGE VALVE ORDERING INFORMATION:



#### PRESSURE DROP / FLOW



## SERIES

4 Way Spool Valve, Pilot Operated. Directional Control or Selector Valve.