**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. O-Ring Seal, Buna N (Also see Options)
11. Coil Spring, Stainless Steel
12. Piston
13. Cartridge Body, Upper Section
14. 1" Wrench Flats
15. Pilot Port, See Ordering Information for choices.
16. O-Ring Seal, Buna N (Also see Options)
17. Back Up Ring, Teflon
18. Cylinder Sleeve
19. O-Ring Seal, Buna N (Also see Options)
20. Back Up Ring, Teflon
21. Spring Retainer Assembly
22. Spool Connector Linkage (Stainless Steel)
23. O-Ring Seal, Teflon
24. O-Ring Seal, (Buna-N)
25. Retaining Ring
26. O-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. Back Up Rings, Teflon (two used)
31. Back Up Rings, Teflon (two used)
32. O-Ring Seal, Buna N (Also see Options)

**CARTRIDGE VALVE ORDERING INFORMATION:**

- Order P/N 44437#39#
- **SPOOL DESIGNATIONS:**
  - See Functional Symbol Key Below

**Pressures, Flows:**

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

**Specifications:**

- **Hydraulic or Gas Pilot Operated Spool Valve.**
- **Four Way, Directional Control or Selector Valve.**
- **Pilot (X) Hydraulic or Gas medium.**
- **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.**
- **SE Standard Hydraulic Oil.**
- **Ports A, B, P, and T rated to 3,000 PSI.**
- **Fluid temperatures -40°F (-40°C) to 200°F (93.3°C).**
- **Use lubricant on external oil seals and mounting threads.**
- **Final tightening 20 to 30 foot pounds torque.**
- **System Ports (A, B, P, and T) by vent to atmosphere (Key 7).**

**Features:**

- **Pilot (X) is isolated from system ports.**
- **Standard seals are Buna N with Teflon back up rings.**
- **Optional seals include EP, Viton, Teflon and others.**
- **Install Cartridge valve using 1" wrench.**
- **Use lubricant on external oil seals and mounting threads.**

**Options:**

- **All Stainless Steel option, add -SS to Part Number.**