Specifications

Air Pilot Operated Hydraulic Spool Valve.

Four Way, Directional Control or Selector Valve.

Maximum System Pressure:
- Ports A, B, P, and T rated to 3,000 PSI.
- Maximum Pilot Pressure (X port) 150 PSI.

Fluid temperature -40°F (-40°C) to 200°F (93.3°C)

Install Cartridge Valve using No. 471 Spanner Tool. Valve should screw in freely to the Mount Seal. Final tightening to 15 foot pounds torque.

Use lubricant on external oil seals and mounting threads.

Pilot Port (Key X) is 1/8 NPT.

Optional Pilot Porting includes 1/4 NPT, SAE4, and SAE6.

Standard seals are Buna-N with Teflon back up rings.

Optional seals include Viton, Teflon and others.

Keys 7 & 20 are vents to atmosphere.

T Option provides 10-32 Threaded ports at these locations.

Options

Cavity Form Tool: FT-8544
- 1/8 (3.175) Pin Spanner Tool
  Order No. 471
- 3/16 (4.763) Face Spanner Tool
  Order No. 462

Tools

- 3/16 (4.763) Face Spanner Tool
  Order No. 462
- 1/8 (3.175) Pin Spanner Tool
  Order No. 471

PILOT RATIO NOTES:

TO CALCULATE THE CORRECT PILOT RATIO VALVE TO ORDER FOLLOW THESE STEPS:
1. Determine the MAXIMUM possible system pressure.
2. Determine MINIMUM possible pilot pressure.
3. Multiply X 0.9 = PILOT
4. Divide SYSTEM by PILOT = PILOT TO SYSTEM RATIO
5. Multiply X 1.1 = SYSTEM
6. Round up to nearest available ratio.

Cartridge Valve Requires Cavity C-8544

Pressure Drop Chart

PILOT TO SYSTEM RATIO

<table>
<thead>
<tr>
<th>PILOT TO SYSTEM RATIO</th>
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<tbody>
<tr>
<td>A</td>
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<tr>
<td>&quot;B&quot; MAXIMUM</td>
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<tr>
<td>&quot;C&quot; MAXIMUM APPLICABLE TO T OPTION ONLY</td>
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<tr>
<td>CARTRIDGE VALVE NO.</td>
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<tr>
<td>S8544</td>
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<td>S8544-2</td>
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<td>S8544-6</td>
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FUNCTIONAL SYMBOL

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