**KEY EXPLANATION:**

1. Teflon Seal
2. Filter, 10 Micron, Sintered Bronze
3. 7 & 20 Spanner Holes and Vent Holes
4. Spring, Snap Retainer (SSR)
5. Piston Guide Ring, UHMW
6. O-Ring Seal, Piston
7. 1/8 NPT Pilot Port
8. Teflon Seal
27. Spring (Used on valves = "A" Dia. 1-7/8 & 2-1/4")

**SPECIFICATIONS:**

Air Pilot Operated Hydraulic Spool Valve.
Three Way, Directional Control or Selector Valve.

Maximum System Pressure:
Ports 1, 2, and 3 rated to 3,000 PSI.

Maximum Pilot Pressure (X port) 150 PSI.

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

Valve should screw in freely to the Mount Seal.
Use lubricant on external oil seals and mounting threads.

**PILOT RATIO NOTES:**

1. Determine the MAXIMUM possible system pressure.
2. Determine the MINIMUM possible pilot pressure.
3. Divide SYSTEM by PILOT = PILOT TO SYSTEM RATIO
4. Round up to standard available ratio.

**PILOT TO SYSTEM RATIO**

<table>
<thead>
<tr>
<th>PILOT TO SYSTEM RATIO</th>
<th>&quot;A&quot; DIAMETER</th>
</tr>
</thead>
<tbody>
<tr>
<td>108:1</td>
<td>1-1/2 (38.1)</td>
</tr>
<tr>
<td>131:1</td>
<td>1-5/8 (41.28)</td>
</tr>
<tr>
<td>183:1</td>
<td>1-7/8 (47.63)</td>
</tr>
<tr>
<td>277:1</td>
<td>2-1/4 (57.15)</td>
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</tbody>
</table>

**TOOLING**

* 1/8 (3.175) Pin Spanner Tool
Order No. 471, Ref. Key No. 20

* 3/16 (4.763) Face Spanner Tool
Order No. 462, Ref. Key No. 13

**CARTRIDGE VALVE NO.**

<table>
<thead>
<tr>
<th>CARTRIDGE VALVE NO.</th>
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<tbody>
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<td>54H2371086</td>
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<tr>
<td>543371316</td>
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<td>546371836</td>
<td>54H6371836</td>
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<tr>
<td>547372776</td>
<td>54H7372776</td>
</tr>
</tbody>
</table>

**FUNCTIONAL SYMBOL**

**PRESSURE DROP CHART**

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