IN CLOSED POSITION, VALVE DOES NOT FREE FLOW FROM 2 TO 1.

KEY EXPLANATION:
1. Port No. 1, System Inlet
2. Port No. 2, System Outlet
3. Poppet, Hard Stainless Steel
5. O-Ring Seal, Buna N (Also See Options)
6. Filter, 10 Micron, Sintered Bronze
7. Vent (2 Pl), Optional T Port Locations
8. Filter Retainer
9. Poppet and Actuator Return Spring, Stainless
10. Piston Guide Ring, UHMW material
11. Piston O-Ring Seal, Buna N (Also See Options)
12. Bonnet O-Ring Seal, Buna N (Also See Options)
13. 3/16" (4.763) Spanner Holes (2 Pl.)
14. 1/8 NPT Pilot Port X (Also See Options)
15. Bonnet, Aluminum material
16. Actuator Body, Aluminum
17. Actuator Piston, Aluminum
18. Poppet Return Spring Retainer Assembly
19. Poppet Seal, TFE
20. 1/8" (3.175) Spanner Holes (4 or 6 Pl.)
21. Cartridge Seat Retaining Ring
22. Mount O-Ring Seal, Buna N (Also See Options)
23. Cartridge Mounting Threads, Stainless Steel
24. Cartridge Seat, Hard Stainless
25. Backup Ring, Teflon
26. O-Ring Seal, Buna N (Also See Options)
27. Spring, Stainless Steel

FOLLOW THESE STEPS:
1. Determine the MAXIMUM possible system pressure.
   Multiply X 1.1 = SYSTEM
2. Determine MINIMUM possible pilot pressure.
   Multiply X 0.9 = PILOT
3. Divide SYSTEM by PILOT = PILOT TO SYSTEM RATIO
4. Round up to standard available ratio.

PILOT TO SYSTEM RATIOS:

<table>
<thead>
<tr>
<th>&quot;A&quot; Diameter</th>
<th>Inch</th>
<th>Metric</th>
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</thead>
<tbody>
<tr>
<td>19:1</td>
<td>1-1/2</td>
<td>38.10</td>
</tr>
<tr>
<td>24:1</td>
<td>1-5/8</td>
<td>41.28</td>
</tr>
<tr>
<td>33:1</td>
<td>1-7/8</td>
<td>47.63</td>
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<tr>
<td>50:1</td>
<td>2-1/4</td>
<td>57.15</td>
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CARTRIDGE VALVE NO.

<table>
<thead>
<tr>
<th>Flow</th>
<th>Valve Orifice Diameter = .25&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>150 PSI</td>
<td>84H2090191</td>
</tr>
<tr>
<td>100 PSI</td>
<td>84H3090241</td>
</tr>
<tr>
<td>50 PSI</td>
<td>84H6090331</td>
</tr>
<tr>
<td>0 GPM</td>
<td>84H7090501</td>
</tr>
</tbody>
</table>

FLOW AND PRESSURE DROP CHART:

CV = 0.9

Cavity & Housing

Cavity C-8542 (10-2):
See Spec. Sheet 1200621

Line Mount Housings:
See Spec. Sheets
1200674 and 1201455

Panel Mount Housings:
See Spec. Sheets
1202982 and 1202990

SPECIFICATIONS:
Pilot operated two way cartridge valve. Normally closed. Pilot to open passage between ports one and two. Valve will not hold pressure from 2 to 1. Use No. 1 port as pressure inlet port.

Maximum pressure 5,000 PSI Port 1, 3,000 PSI Port 2

Pilot Pressure Range, 50 PSI Min. to 150 PSI Max.

Fluid temperature -45°F, (42.7°C) to 200°F, (93.3°C)

Inlet Cartridge valve using 1/4" wrench

This Valve is not a POC.