SPEC, SHEET NO. 1200798 RE

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013

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)

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.

OPTIONS

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

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

Standard seals ore 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.

TOOLING

- * Cavity Form Tool: FT-8543
- * 1/8 (3.175) Pin Spanner Tool
- Order No. 471, Ref. Key No. 20 3/16 (4.763) Face Spanner Tool
- Order No. 482, Ref. Key No. 13

PILOT RATIO NOTES:

- TO CALCULATE THE CORRECT PILOT RATIO VALVE TO ORDER FOLLOW THESE STEPS:
- Determine the MAXIMUM possible system pressure.
 Multiply X 1 1 = SYSTEM
- Determine MINIMUM possible pilot pressure.

 Multiply X .9 = PILOT
- 3. Divide SYSTEM by PILOT = PILOT TO SYSTEM RATIO

" A "

1-1/2 (38.1)

1-5/8 (41.28)

1-7/8 (47.63)

2-1/4 (57.15)

4. Round up to standard available ratio.

Pilot to System

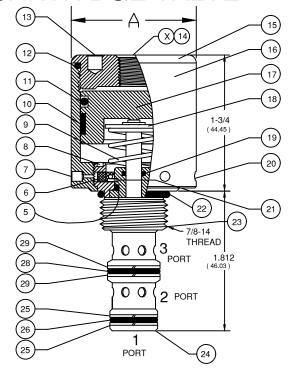
108:1

131:1

183:1

277:1

CARTRIDGE VALVE



Functional Symbol

Selector: 2=P, 1=C1, 3=C2

Cartridge Valve Requires Cavity C-8543

Cavity & Housing

Cavity & Tooling C-8543 (10-3): See Spec. Sheet 1200634

Line Mount Housings:

See Spec. Sheet 1200673 & 1201903

Panel Mount Housings & Spacers:

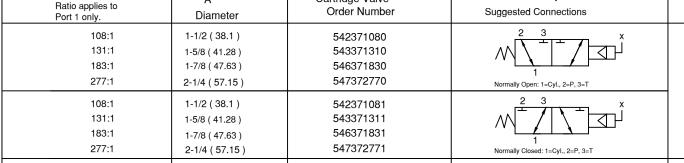
See Spec. Sheets

1202983 and 1202990

Cavity, Tooling & Housing Info found at www.doering.com Cavities, Housings & Manifolds.

Doering Company also manufactures multi function and multi station Housings & Manifolds.

Please call for assistance.



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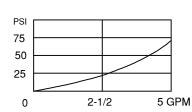
543371315

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Cartridge Valve

PRESSURE DROP CHART



3PS SERIES

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