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.

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.

PILOT RATIO NOTES

Applies to Port 1 Only. Ports 2, 3 & 4 are balanced

TO CALCULATE THE CORRECT PILOT RATIO VALVE TO ORDER FOLLOW THESE STEPS: 1. Determine the MAXIMUM possible system pressure. Multiply X 1.1 = SYSTEM 2. Determine MINIMUM possible pilot pressure. Multiply X .9 = PILOT 3. Divide SYSTEM by PILOT = PILOT TO SYSTEM RATIO 4. Round up to standard available ratio.

" A "

1-1/2 (38.1)

1-5/8 (41.28)

1-7/8 (47.63)

2-1/4 (57.15)

1-1/2 (38.1)

1-5/8 (41.28)

1-7/8 (47.63)

2-1/4 (57.15)

DIAMETER

S E	7 4 3 2	20 7/8-14 THREAD 2.437 61,90 0 0 1
	CARTRIDGE VALVE NO.	FUNCTIONAL SYMBOL
	442371080 443371310 446371830 447372770	
	442371083 443371313 446371833 447372773	USE THIS SPOOL FOR LOWEST LEAK RATE.

CARTRIDGE VALVE

(x)

1-3/4

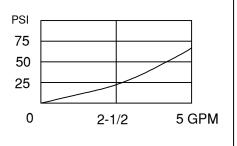
44,45

Cavity & Housing Cavity & Tooling C-8544 (10-4): See Spec. Sheet 1200671 Line Mount Housings: See Spec. Sheet 1200675 & 1202930 Panel Mount Housings & Spacers: See Spec. Sheets 1202984 and 1202990 Cavity & Housing information found at www.doering.com Products Housings Doering Co. also manufactures multi function and multi station housings and manifolds. TOOLING 1/8 (3.175) Pin Spanner Tool 3/16 (4.763) Face Spanner Tool

PRESSURE DROP CHART

Order No. 471

Order No. 482



4PS SERIES

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

012

PILOT TO

108:1

131:1

183:1

277:1

108:1

131:1

183:1

277:1

SYSTEM

RATIO