

SPECIFICATIONS:

Manually Operated poppet valve.
 Two way, normally closed, push operator to open.
 Maximum pressure 5,000 PSI, Cavity C-8502
 Cavity C-8542, 5,000 PSI Port 1, 3,000 PSI Port 2
 See 'SHIFT FORCE NOTES' regarding operating force
 required to open valve.
 Full Flow is achieved at .08" Stroke.
 Full Travel is at Prox. .16" Stroke.
 Do not travel to or past full stroke with positive
 force.
 Use Pin Spanner tool to install valve.
 Torque to 20 foot pounds.
 Use lubricant on external oil seals and mounting
 threads.
 Fluid temperature -45°F (-42.7°C) to 200°F (93.3°C)

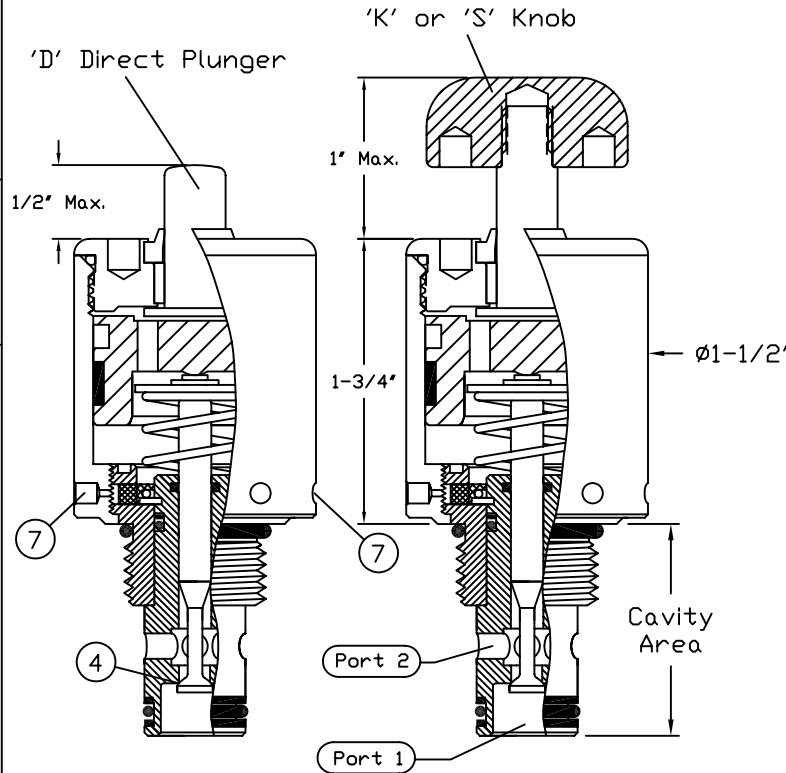
STANDARD OPTIONS

T Option 10-32 vent ports at Key 7 (2 Places)
 Seat (Key 4) is heat treated Stainless Steel.
 Seal Materials used are Buna-N and Teflon.
 Optional seal and construction materials available.
 Direct Plunger is Heat Treated 17-4 PH SST.

SHIFT FORCE NOTES:

10 to 15 Pounds of Force is
 required to shift the valve
 poppet with zero pressure on
 ports 1 and 2.
 Any pressure on port 1 will
 increase Force requirement
 by .030 X PSI at No. 1 Port.
 Any pressure on port 2 will
 increase Force requirement
 by .003 X PSI at No. 2 Port.
 For total force requirement,
 add all 3 results.
 Using port 2 as pressure
 inlet may reduce the force
 requirement to shift valve.

CARTRIDGE VALVE



Cavity & Housing

For 82#227M##1 Valve:
 Cavity Drawing:
 1200630 Spec. Sheet
 Line Mount Housings:
 1200672 Spec. sheet

Panel Mount Housings:
 1202981 and 1202990
 Spec. Sheets

For 84#227M##1 Valve:
 Cavity Drawing:
 1200621 Spec. Sheet

Line Mount Housings:
 1200674 and 1201455
 Spec. Sheets

Panel Mount Housings:
 1202982 and 1202990
 Spec. Sheets

6343 RIVER ROAD SE ■ CLEAR LAKE, MN 55319 USA
 Telephone: 320-743-2276 ■ Fax: 320-743-3723
 mailbox@doering.com ■ www.doering.com



DOERING

Valve Number: 8##227M0#1

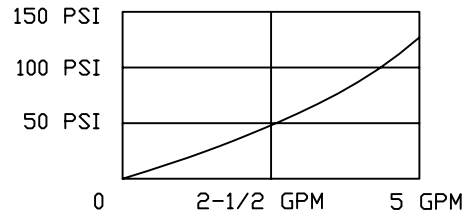
2 = 3/4-16 Thread
 Cavity C-8502
 (8-2)
 4 = 7/8-14 Thread
 Cavity C-8542
 (10-2)

Key No. 4
 Blank = Hard Seat
 K = Soft Seat

D = Direct Plunger
 K = Knob, Aluminum
 S = Knob, Stainless

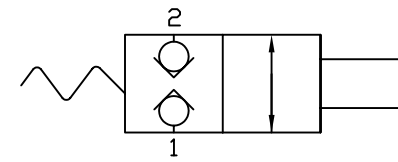
PRESSURE DROP CHART $C_v = 0.4$

VALVE DRIFICE DIAMETER = .180"



2PB SERIES

Functional Symbol



2PB N/C

2 Way Poppet Valve, Manually Operated