

SPECIFICATIONS:

Pilot Operated poppet valve with Manual Override.
Two way, normally closed, actuate to open.
Maximum pressure 5,000 PSI, Ports 1 and 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 1" wrench to install valve.
Torque to 20 to 30 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.

SHIFT FORCE NOTES:

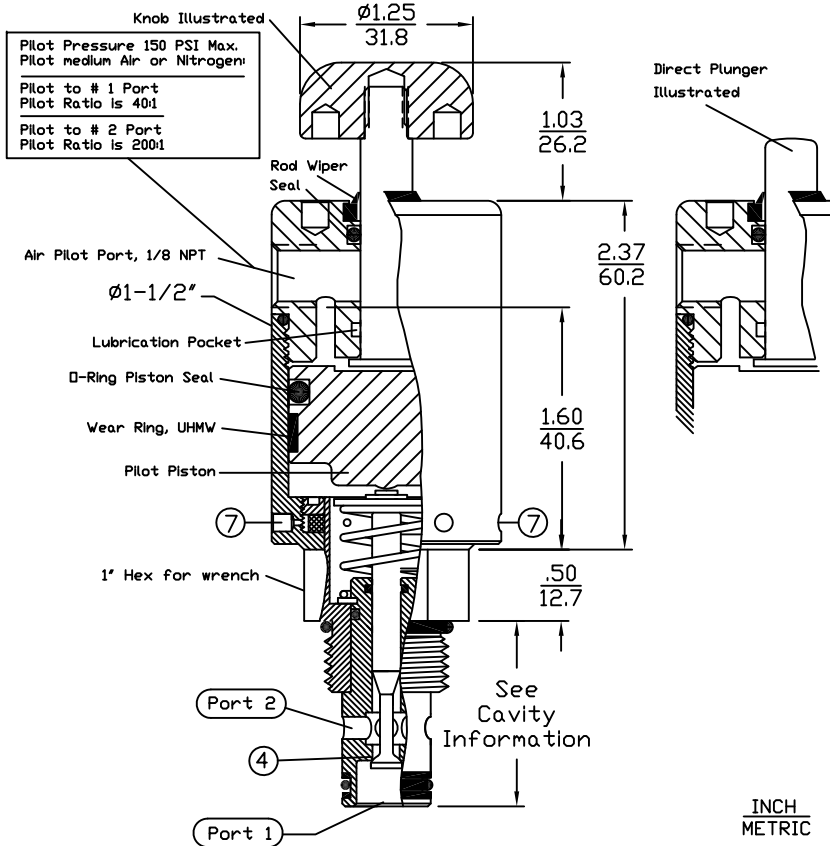
10 to 15 Pounds of Force is required to shift the valve poppet with zero pressure on ports 1 and 2.

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 82H#227040M□#1 Valve:

Cavity Drawing:
1200630 Spec. Sheet

Line Mount Housings:
1200672 Spec. sheet

Panel Mount Housings:
1202981 and 1203290
Spec. Sheets

For 84H#227040M□#1 Valve:

Cavity Drawing:
1200621 Spec. Sheet

Line Mount Housings:
1200674 and 1201455
Spec. Sheets

Panel Mount Housings:
1202982 and 1203290
Spec. Sheets

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DOERING

SPEC. SHEET NO. 1203216 REV. 001

Valve Number: 8#H#227040M□#1

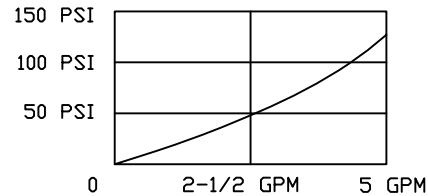
2 = 3/4-16 Thread
Cavity C-8502
(8-2)
4 = 7/8-14 Thread
Cavity C-8542
(10-2)

HANDKNOB DESIGNATION:
D = No Knob Direct Plunger
K = Non-Anodized Aluminum
N = No Knob Threaded Stem
R = Red Anodized Aluminum
S = Stainless Steel

Blank = Standard Hard Seat
K = Kel-F Soft Seat with
Hard Seat backup. Ref. Key 4
Reduces Flow $C_v = 0.3$ Prox.

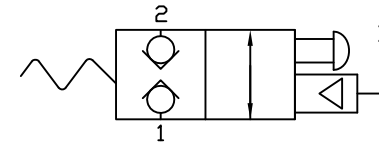
PRESSURE DROP CHART $C_v = 0.4$

VALVE ORIFICE DIAMETER = .160"



2PB SERIES

Functional Symbol



2PB N/C
2 Way Poppet Valve, Pilot / Manual