

SPECIFICATIONS:

Manually Operated poppet valve.
Two way, normally closed, push operator to open.
Use Port No. 1 for Pressure Inlet.
Maximum pressure 5,000 PSI, Cavity C-8502
Cavity C-8542, 5,000 PSI Port 1, 3,500 PSI Port 2
See "SHIFT FORCE NOTES" regarding operating force
required to open and hold open the valve.
1/4" Stroke is approximate.
Overtravel Protection is available.
Overstroking will damage the valve.
Use 1" wrench 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

Hand Knob operator shown.
Hand Knob is available in Aluminum or Stainless Steel.
Direct Plunger available for mechanical operation.
T Option 10-32 vent ports at Key 7 (2 Places)
Poppet & Seat (Key 4) 17-4 PH900 SST.
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.

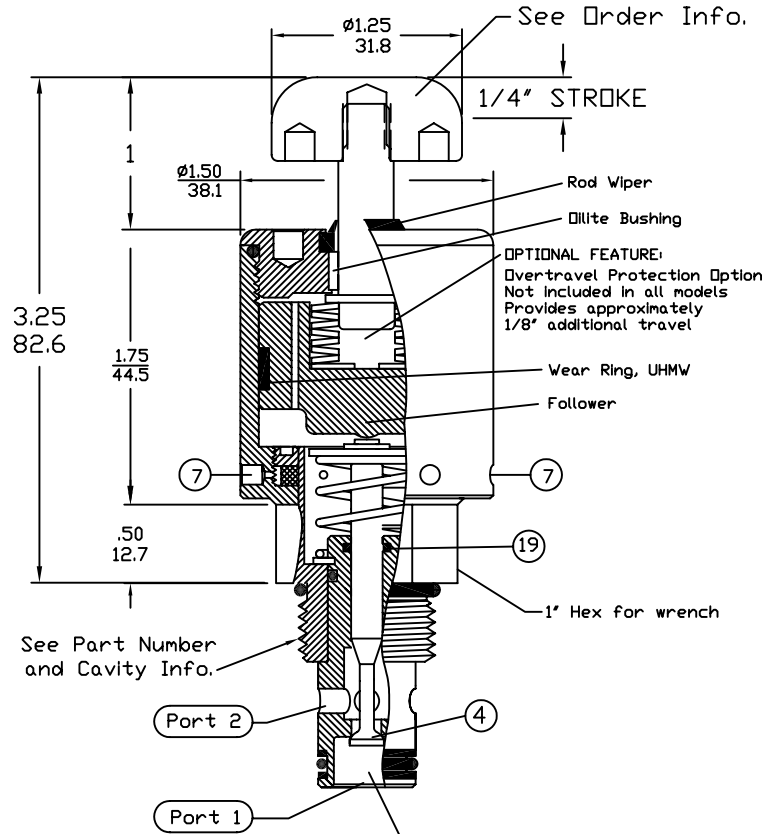
To determine the additional
operating force imposed by
the system pressure, multiply
the system pressure X .013
and add the result to the
10 or 15 Pounds.

Example: 3,000 PSI System
3000 X .013 = 39#
39 + 15 = 54#
Total Operator Force = 54#

CARTRIDGE VALVE

Knob Operators

See Order Info.

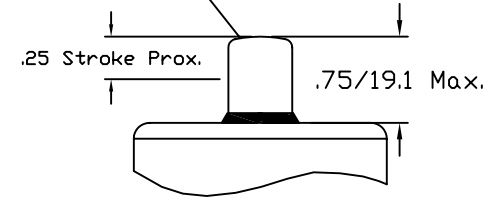


See Part Number
and Cavity Info.

Optional orifice fits into this space.
Call for order information.

INCH
METRIC

Direct Plunger Operator
.75/19.1 Radlused End
Material 17-4 PH900, SST.



Cavity & Housing

For 82H204M##1 Valve:
Cavity C-8502 (8-2)
See Spec. Sheet 1200630

Line Mount Housings:
See Spec. Sheets
1200672 and 1203123

Panel Mount Housings:
See Spec. Sheets
1202981 and 1202990

For 84H204M##1 Valve:
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

Valve
Number: 8#H204M##1

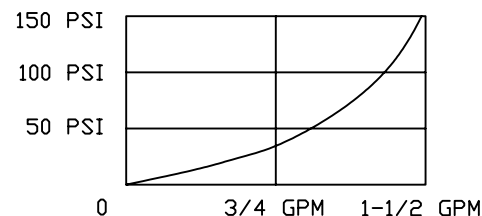
2 = 3/4-16 Thread
Cavity C-8502
(8-2)
4 = 7/8-14 Thread
Cavity C-8542
(10-2)

Operators:
D = Direct Plunger
K = Knob, Aluminum
R = Knob, Red Ano.
S = Knob, Stainless

□ = No Overtravel
Protection
P = Overtravel
Protection

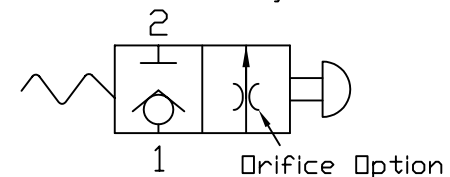
PRESSURE DROP CHART

Flow without optional Orifice. $C_v = 0.1$



2PB SERIES

Functional Symbol



With optional ORIFICE, flow
from Port 2 to Port 1
may damage the valve.

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DOERING