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.
1/8" Stroke is approximate.
Overtravel Protection is available.
Overstrokning will damage the valve.
Use 1" wrench to install valve.
Torque to 20 foot pounds.
Use lubricant on external oil seals and mounting screws.
Fluid temperature -40°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.

1/4" STROKE

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

3.25
82.6

See Part Number and Cavity Info.

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

FUNCTIONAL SYMBOL

WITH OPTIONAL ORIFICE, flow
from Port 2 to Port 1
may damage the valve.

PRESSURE DROP CHART

Flow without optional Orifice.

150 PSI
100 PSI
50 PSI
0

3/4 GPM
1-1/2 GPM

2PB SERIES

Valve Number: 8#H204M##1

Operators:

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

O = No Overtravel
P = Overtravel

Protection Protection

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

OVERTRAVEL PROTECTION:
Includes a 1/8" stroke
Not included in all models
Provides approximately
1/8" additional travel

OVERSTROKING:
Will damage the valve.

OPTIONAL FEATURE:
Overtravel Protection Option
Not included in all models
Provides approximately
1/8" additional travel

Material 17-4 PH900, SST.
SST.

INCH METRIC

Ø1.50
38.1
.50
12.7
.75
19.1

Material: 17-4 PH900, SST.