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, 3,500 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.
Overtaking 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 )
Seat ( Key 4 ) is heat treated Stainless Steel.
K Option: Kel-F Soft Seat with hard seat backup.
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 .03
and add the result to the 10 or 15 Pounds.

Example: 3,000 PSI System
3000 X .03 = 90#
90 + 15 = 105#
Total Operator Force = 105#

Pressure Drop Chart
CV = 0.4
2PB SERIES
Functional Symbol

2PB N/C
2 Way Poppet Valve,
Manually Operated

Valve Number: 8#H#227M##1

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

Blank = Standard Hard Seat
K = Kel-F Soft Seat with
Hard Seat backup. Ref, Key 4
Reduces Flow C
\[ \frac{\text{Blank}}{\text{K}} = 0.3 \text{ Prox.} \]

Operators:
D = Direct Plunger
N = No Knob, Threaded
K = Knob, Aluminum
R = Knob, Red Ano.
S = Knob, Stainless
O = No Overtravel Protection
P = Overtravel Protection

Pressure Drop Chart
CV = 0.4

2PB SERIES
Functional Symbol

2PB N/C
2 Way Poppet Valve,
Manually Operated

Valve Number: 8#H#227M##1

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

Blank = Standard Hard Seat
K = Kel-F Soft Seat with
Hard Seat backup. Ref, Key 4
Reduces Flow C
\[ \frac{\text{Blank}}{\text{K}} = 0.3 \text{ Prox.} \]

Operators:
D = Direct Plunger
N = No Knob, Threaded
K = Knob, Aluminum
R = Knob, Red Ano.
S = Knob, Stainless
O = No Overtravel Protection
P = Overtravel Protection

Pressure Drop Chart
CV = 0.4

2PB SERIES
Functional Symbol

2PB N/C
2 Way Poppet Valve,
Manually Operated

Valve Number: 8#H#227M##1

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

Blank = Standard Hard Seat
K = Kel-F Soft Seat with
Hard Seat backup. Ref, Key 4
Reduces Flow C
\[ \frac{\text{Blank}}{\text{K}} = 0.3 \text{ Prox.} \]

Operators:
D = Direct Plunger
N = No Knob, Threaded
K = Knob, Aluminum
R = Knob, Red Ano.
S = Knob, Stainless
O = No Overtravel Protection
P = Overtravel Protection

Pressure Drop Chart
CV = 0.4

2PB SERIES
Functional Symbol

2PB N/C
2 Way Poppet Valve,
Manually Operated

Valve Number: 8#H#227M##1

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

Blank = Standard Hard Seat
K = Kel-F Soft Seat with
Hard Seat backup. Ref, Key 4
Reduces Flow C
\[ \frac{\text{Blank}}{\text{K}} = 0.3 \text{ Prox.} \]

Operators:
D = Direct Plunger
N = No Knob, Threaded
K = Knob, Aluminum
R = Knob, Red Ano.
S = Knob, Stainless
O = No Overtravel Protection
P = Overtravel Protection

Pressure Drop Chart
CV = 0.4

2PB SERIES
Functional Symbol

2PB N/C
2 Way Poppet Valve,
Manually Operated