70 _< 013

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.

Overstroking will damage the valve. Use 1" wrench to install valve. Torque to 20 foot pounds

Use lubricant on external oil seals and mounting

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 Stee

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.

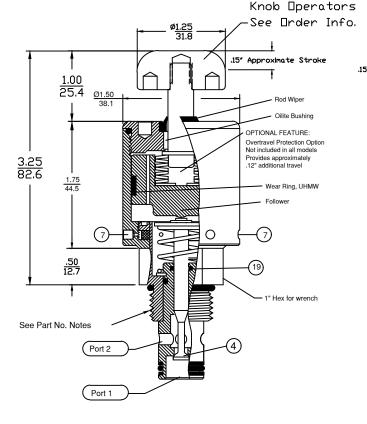
To determine the additional operating force imposed by the system pressure, multiply the system pressure X .03 and add the result to the 10 or 15 Pounds.

Example: 3,000 PSI System

 $3000 \times .03 = 90#$ 90 + 15 = 105#

Total Operator Force = 105#

CARTRIDGE VALVE



Direct Plunger Operator .75/19.1 Radiused End Material 17-4 PH900, SST. .15' Approximate Stroke .75/19.1 Max.

Cavity & Housing

For 82H#227M##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 84H#227M##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

 $C_{V} = 0.4$

1202982 and 1202990

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

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 $_{\rm V}$ =0.3 Prox. Operators: D = Direct Plunger

N = No Knob. Threaded

K = Knob, Aluminum

R = Knob, Red Ano.

S = Knob. Stainless

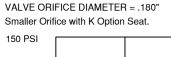
INCH

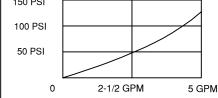
METRIC

O = No Overtravel Protection

P = Overtravel Protection

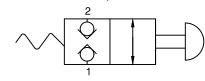
PRESSURE DROP CHART Hard Seat Only.





2PB SERIES

Functional Symbol



2PB N/C

2 Way Poppet Valve Manually Operated

