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, 3,000 PSI Port 2
See "SHIFT FORCE NOTES" regarding operating force
required to open valve.
Full Flow is achieved at .08" Stroke.
Full Travel is at .18" Stroke.
Do not travel to or past full stroke with positive
force.
Use Pin Spanner tool 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
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.
Direct Plunger is Heat Treated 17-4 PH SST.

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.

PRESSURE DROP CHART

Valve Number: 8###227M0#1
D = Direct Plunger
K = Knob, Aluminum
S = Knob, Stainless
Key No. 4
Blank = Hard Seat
K = Soft Seat

Cavity C-8502 (8-2):
Cavity C-8542 (10-2):

Cavity Area

1/2" Max.
1" Max.
1-3/4"
Ø1-1/2"

Port 2
Port 1

2PB SERIES
Functional Symbol
2PB N/C
2 Way Poppet Valve, Manually Operated

For 82###227M0#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 84###227M0#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

VOLUME FLOW RATE

150 PSI
100 PSI
50 PSI
0 2-1/2 GPM 5 GPM

2PB SERIES