LLOHD-XDN

Logic Element

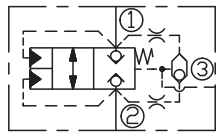
DESCRIPTION

A cartridge-style, vent-to-open, spring biased closed, unbalanced poppet logic element with pilot source from port ① or port ②

OPERATION

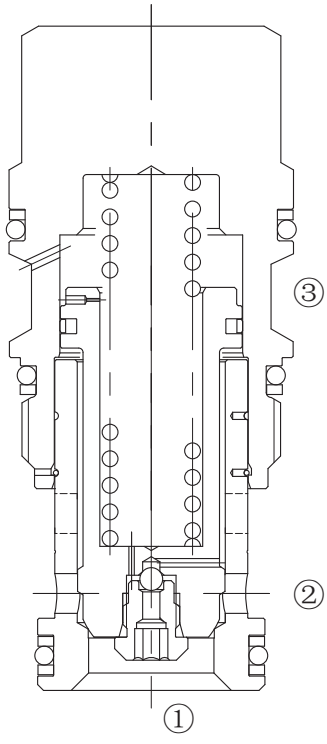
These unbalanced, vent-to-open logic valves are 2-way switching elements that are spring-biased closed and incorporate an integral shuttle so that the higher of pressures at either port ① or port ② can be used as a pilot source. With port ③ blocked, the valve is held in the closed position by the spring force. With port ③ vented, the valve will open provided there is sufficient pressure to overcome the spring force. The force generated at port ③ , plus the spring force, must be greater than the sum of the forces acting at port ① and port ③ for the valve to remain closed. NOTE: The pilot area (port ③) is 1.8 times the area at port ① and 2.25 times the area at port ② .

SYMBOL

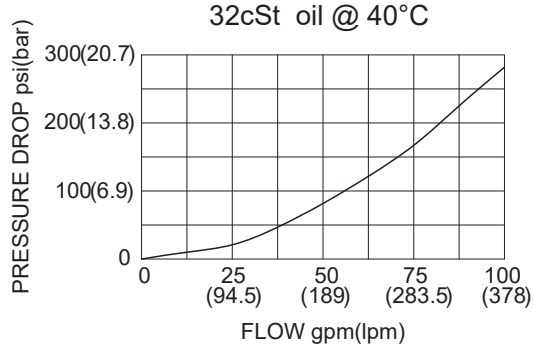


SPECIFICATIONS

Max.Operating Pressure	350bar
Flow	See PRESSURE DROP VS.FLOW graph.
Internal Leakage	10 drops/min max.
Temperature	-40ºF to +250ºF(-40ºC to +120ºC)
Filtration	See Page N-1
Fluids	Mineral-based fluids with viscosities of 7.4 to 420 cSt.
Cavity	SUN T-17A,See page M-7
Housing Material	Steel & Ductile iron rated to 350bar



PRESSURE DROP VS.FLOW



TO ORDER

LLO H D - X * * - * *

1 2 3 4 5 6 7

1 Function
LLO=Unbalanced Poppet Logic Element

2 Capacity
H=380L/min

3 Pilot Source
D=From Port ① or ②

4 Control
X=Not-adjustable

5 Cracking Pressure
D=50psi(3.5bar)

6 Seal
N=Buna N
V=Viton

7 **Port Size**
Omit= None
12T=SAE 12
16T=SAE 16
6G=G 3/4
8G=G 1

※See page K-25—K-26 for detail of housing
※Other port sizes are available

INSTALLATION DIMENSIONS

H

Unit=Millimeters