

# LLOHD-8DN

Logic Element

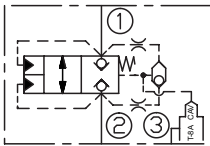
## DESCRIPTION

A cartridge-style vent-to-open, spring biased closed, unbalanced poppet logic element with pilot source from port ① or ② and integral T-8A control cavity

## OPERATION

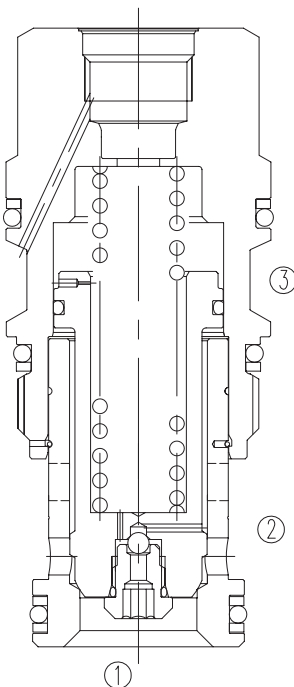
This valve is an unbalanced, vent-to-open, 2-way logic switching element with an integral pilot control cavity. It is spring biased closed and uses port ① or ② as a pilot source. With a pilot 2-way valve in the closed position installed in the T-8A cavity, the logic element will remain in the closed position. With the pilot valve open, the logic element will open providing there is a sufficient combination of pressures 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 ② 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

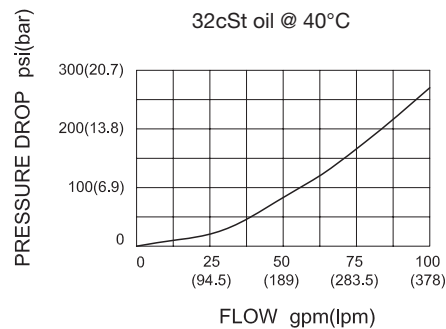


## SPECIFICATIONS

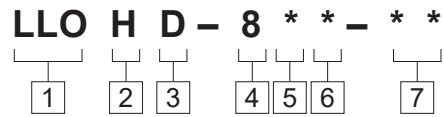
Max. Operating Pressure	350bar
Capacity	See PRESSURE DROP VS.FLOW graph.
Temperature	-40°F to +250°F(-40°C to +120°C)
Filtration	See page N-1
Fluids	Mineral-based fluids with viscosities of 7.4 to 420 cSt.
Cavity	SUN T-17A, See page M-7
Housing Material	Steel & Ductile iron rated to 350bar



## PRESSURE DROP VS.FLOW



**TO ORDER**



**1 Function**  
LLO=Unbalanced Poppet Logic Element

**4 Control**  
8=Integral T-8A Control Cavity

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

**2 Capacity**  
H=380L/min

**5 Cracking Pressure**  
D=50psi(3.5bar)

**3 Pilot Source**  
D=From Port ① or ②

**6 Seal**  
N=Buna N  
V=Viton

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

**INSTALLATION DIMENSIONS**

Unit=Millimeters

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