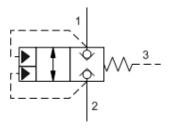


MODEL LODC Pilot-to-close, spring biased closed, unbalanced poppet logic element

SERIES 1 / CAPACITY: 25 gpm / CAVITY: T-11A

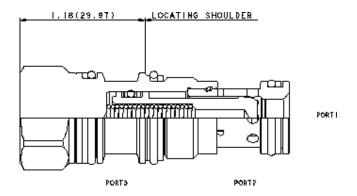






CONFIGURATION

Χ	Control	Not Adjustable
D	Cracking Pressure	50 psi (3,5 bar)
N	Seal Material	Buna-N
(none) Material/Coating		Standard Material/Coating



These unbalanced, pilot-to-close logic valves are 2-way switching elements that are spring biased closed. Pressure at either work port 1 or 2 will oppose the spring and tend to open the valve while pressure at port 3 will tend to close it. 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.

TECHNICAL DATA

Maximum Operating Pressure	5000 psi	
Maximum Valve Leakage at 110 SUS (24 cSt)	10 drops/min.	
Pilot Volume Displacement	.04 in ³	
Pilot Passage into Valve	.031 in.	
Area Ratio, A3 to A1	1.8:1	
Area Ratio, A3 to A2	2.25:1	
Seal kit - Cartridge	Buna: 990-011-007	
Seal kit - Cartridge	Polyurethane: 990-011-002	
Seal kit - Cartridge	Viton: 990-011-006	

CONFIGURATION OPTIONS

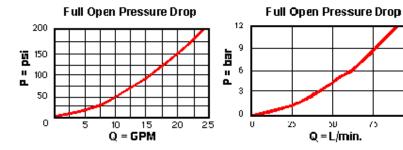
Model Code Example: LODCXDN

CONTROL (X	CRACKING PRESSURE (D)	SEAL MATERIAL (N)	MATERIAL/COATING
X Not Adjustable	D 50 psi (3,5 bar)	N Buna-N	Standard Material/Coating
		V Viton	IAP Stainless Steel, Passivated

TECHNICAL FEATURES

- These valves have positive seals between port 2 and the pilot area.
- Because these valves are unbalanced, operation is pressure dependent. Opening and closing of the poppet are functions of the force balances on three areas: Port 1 = 100%, Port 2 = 80%, and the Pilot Area = 180%.
- These valves are pressure responsive at all ports, therefore it is essential to consider all aspects of system operation through a complete cycle. Pressure changes at any one port may cause a valve to switch from a closed to an open position, or vice versa. All possible pressure changes in the complete circuit must be considered to assure a safe, functional system design.
- All ports will accept 5000 psi (350 bar).
- Corrosion resistant cartridge valves are intended for use in corrosive environments and are identified by the model code suffix /AP for external stainless steel
 components, or /LH for external zinc-nickel plated components. See the CONFIGURATION section for all options. For further details, please see the Materials of
 Construction page located under TECH RESOURCES.
- Incorporates the Sun floating style construction to minimize the possibility of internal parts binding due to excessive installation torque and/or cavity/cartridge
 machining variations.

PERFORMANCE CURVES



100