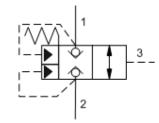


MODEL

Pilot-to-open, spring biased closed, unbalanced poppet logic element SERIES 4 / CAPACITY: 120 gpm / CAVITY: T-19A

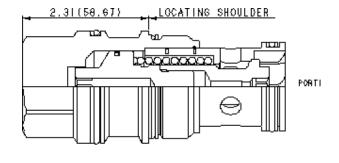


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CONFIGURATION

Х	Control	Not Adjustable		
D	Minimum Pilot Pressure	50 psi (3,5 bar)		
۷	Seal Material	Viton		
(nor	ne) Material/Coating	Standard Material/Coating	а	



These unbalanced poppet, logic valves are 2-way switching elements that are spring-biased closed. Pressure at either work port 1 or 2 will further bias the valve to the closed position while pressure at port 3 will tend to open it. The force generated at port 3 must be greater than the sum of the forces acting at port 1 and port 2 plus the spring force for the valve to open. NOTE: The pilot area (port 3) is 1.8 times the area at port 1 and 2.25 times the area at port 2.

PORTS

PORT3

TECHNICAL DATA

Maximum Operating Pressure	5000 psi			
Maximum Valve Leakage at 110 SUS (24 cSt)	10 drops/min.@1000 psi			
Pilot Volume Displacement	.30 in ³			
Pilot Passage into Valve	.09 in.			
Area Ratio, A3 to A1	1.8:1			
Area Ratio, A3 to A2	2.25:1			
Seal kit - Cartridge	Buna: 990-019-007			
Seal kit - Cartridge	Polyurethane: 990-019-002			
Seal kit - Cartridge Viton: 990-019-006				

CONFIGURATION OPTIONS

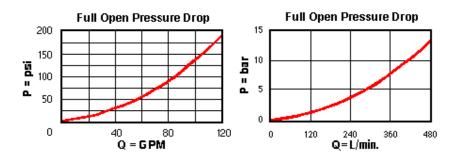
Model Code Example: LKJCXDV

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

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



RELATED MODELS

• LKJCZ Pilot-to-open, spring biased closed, unbalanced poppet logic element with position switch