

Vented pilot-to-open check valve - atmospherically	
referenced	

Products : Cartridges : Pilot-to-Open Check : 3-Port, Vented : Atmospheric

Capacity: 30 gpm (120 L/min.)

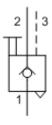
> Model: CKEV-LCN

Product Description

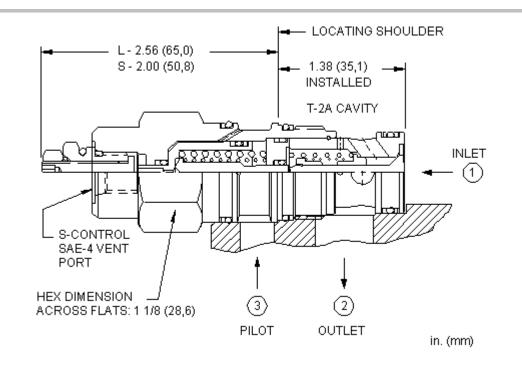
Vent, Sealed Pilot, Steel Seat,

Functional Group:

This valve is a pilot to open check valve. It has a sealed pilot, a steel seat, and is vented. It allows free flow from the valve (port 2) to the load (port 1) and blocks flow in the opposite direction. Pressure at the pilot (port 3) pilot port will open the valve from port 1 to port 2. Pilot pressure needed to open the valve is directly proportional to the load pressure at port 1. The valve is insensitive to pressure at port 2 because the spring chamber is referenced out the back of the hex body.



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Technical Features

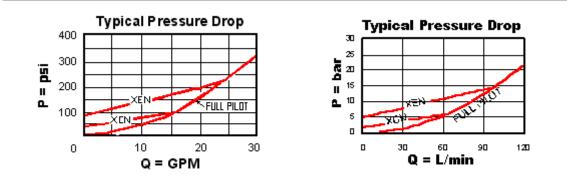
- There is a positve seal between ports 2 and 3.
- Atmospherically referenced pilot-to-open check valves are considered problem solvers for existing circuits using non-vented valves. However, the atmospherically referenced valve will eventually leak externally or allow moisture into the spring chamber. Four-port vented pilot-to-open check cartridges are recommended for new applications.
- Approximately 1 drop of fluid will pass from the pilot area to the vented spring chamber every 4000 cycles.

- Pilot pressure as low as 75 psi (5 bar) higher than the pressure at the vent can prevent the valve from closing.
- Pilot-to-open check cartridges are locking valves, not motion control valves. For motion control applications, use counterbalance valves.
- For models with manual load release control option, turn load release clockwise to release load.

- Provides hose break protection, prevents loads from drifting and positively locks pressurized loads.
- Sealed pilot for use in circuits where cross port leakage is undesirable.
- Extremely low leakage. The seat and poppet are heat treated for long life. If the load drifts due to the valve, the seat has probably been damaged by contamination and the valve should be replaced.
- 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.

Technical Data

	U.S. Units	Metric Units
Model Weight	0.66 lb.	0.30 kg.
Cavity	Т-2А	
Capacity	30 gpm	120 L/min.
Pilot Ratio	3: 1	
Maximum Operating Pressure	5000 psi	350 bar
Maximum Valve Leakage at 110 SUS (24 cSt)	1 drops/min.	0,07 cc/min.
Series (from Cavity)	Series 2	
Valve Hex Size	1 1/8 in.	28,6 mm
Valve Installation Torque	45 - 50 lbf ft	60 - 70 Nm
Seal Kits	Buna: 990-202-007	
Seal Kits	Viton: 990-202-006	



CKEV-LCN

Control Cracking Pressure External Material/Seal Material

L Manual Load Release, +10.00 C 30 psi (2 bar) +0.00

N Buna-N +0.00

Explanation of Sun cartridge control options - US units.

• Explanation of Sun cartridge control options - metric units.

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