Vented pilot-to-open check valve - atmospherically referenced

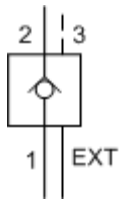
Capacity:
15 gpm (60 L/min.)

Functional Group:
Products : Cartridges : Pilot-to-Open Check : 3-Port, Vented : Atmospheric Vent, Sealed Pilot, Steel Seat,

Model:
CKCV-SBN

Product Description

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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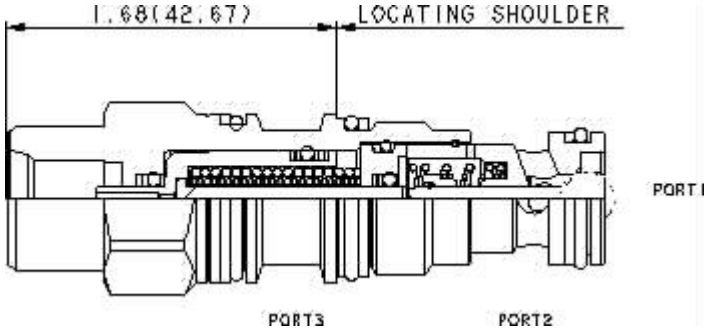


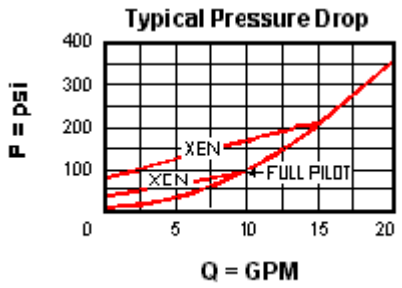
Technical Features

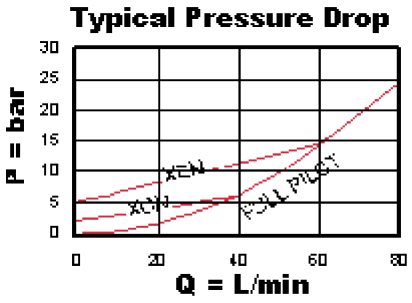
- Pilot pressure as low as 75 psi (5 bar) higher than the pressure at the vent can prevent the valve from closing.
- Atmospherically referenced pilot-to-open check valves are considered problem solvers for existing circuits using non-vented valves. However, the atmospherically referenced valve will eventually leak externally or allow moisture into the spring chamber. Four-port vented pilot-to-open check cartridges are recommended for new applications.
- Pilot-to-open check cartridges are locking valves, not motion control valves. For motion control applications, use counterbalance valves.
- Approximately 1 drop of fluid will pass from the pilot area to the vented spring chamber every 4000 cycles.
- Provides hose break protection, prevents loads from drifting and positively locks pressurized loads.
- 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.
- Sealed pilot for use in circuits where cross port leakage is undesirable.
- 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	0.31 lb.	0.14 kg.
Cavity	T-11A	
Capacity	15 gpm	60 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 1	
Valve Hex Size	7/8 in.	22,2 mm
Valve Installation Torque	30 - 35 lbf ft	45 - 50 Nm
Seal Kits	Buna: 990-311-007	
Seal Kits	Viton: 990-311-006	





CKCV-SBN

Control		Cracking Pressure		External Material/Seal Material	
S	External 4-SAE Vent Port	+0.00	B 15 psi (1 bar) +1.00	N Buna-N	+0.00

- Explanation of Sun cartridge control options - US units.
- Explanation of Sun cartridge control options - metric units.