

## Vented pilot-to-open check valve

Functional Group: Products : Cartridges : Pilot-to-Open Check : 4-port, vented : Vented

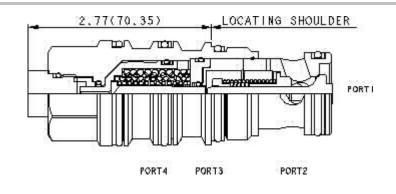
Product Description

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) 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 to the vent (port 4).



Capacity:

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Technical Features

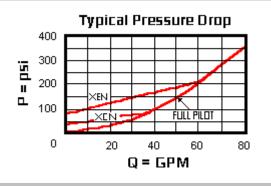
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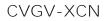
- Pilot pressure as low as 75 psi (5 bar) higher than the pressure at the vent can prevent the valve from closing.
- Pilot-to-open check cartridges are locking valves, not motion control valves. For motion control applications, use counterbalance valves.
- Approximately 1 drop of fluid will pass from the pilot area to the vented spring chamber every 4000 cycles.
- 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.
- Port 4 (vent) should never be blocked as seal weepage will eventually cause valve to malfunction.

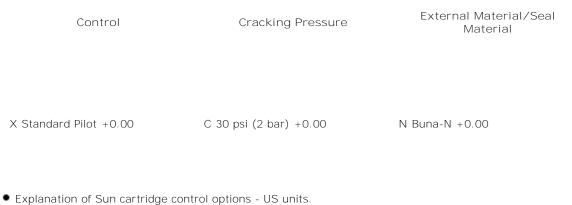
- Will accept pressure at port 4 (vent) but can not exceed 5000 psi (350 bar).
- Four-port pilot-to-open check cartridges and fourport counterbalance cartridges are physically interchangeable (i.e. same cavities, same flow path for a given frame size). However, cartridge extension dimensions from the mounting surface may vary.
- 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.
- 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	
Cavity	T-23A		
Capacity	60 gpm	240 L/min.	
Pilot Ratio	3:	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 3	
Valve Hex Size	1 1/4 in.	31,8 mm
Valve Installation Torque	150 - 160 lbf ft	200 - 215 Nm
Model Weight	1.20 lb	0,55 kg
Seal Kits	Buna: 990-023-007	
Seal Kits	Viton: 990-023-006	







Explanation of Sun cartridge control options - metric units.

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