

MODEL CKCV

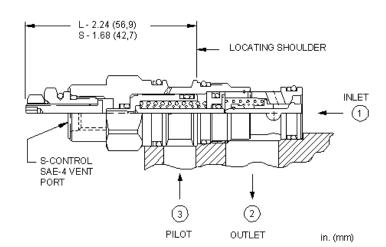
Vented pilot-to-open check valve - atmospherically referenced CAPACITY: 60 L/min. | CAVITY: T-11A



CONFIGURATION

X Control Standard Pilot, Atmospheric Vent
C Cracking Pressure 30 psi (2 bar)

N Seal Material Buna-N
(none) Material/Coating Standard Material/Coating



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.

TECHNICAL DATA

Cavity	T-11A	
Series	1	
Capacity	60 L/min.	
Pilot Ratio	3:1	
Maximum Operating Pressure	350 bar	
Maximum Valve Leakage at 110 SUS (24 cSt)	0,07 cc/min.	
Valve Hex Size	22,2 mm	
Valve Installation Torque	41 - 47 Nm	
Seal kit - Cartridge	Buna: 990-311-007	
Seal kit - Cartridge	Polyurethane: 990-011-002	
Seal kit - Cartridge	Viton: 990-311-006	
Model Weight	0.15 kg.	

SYMBOLS





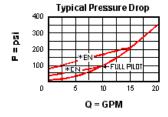


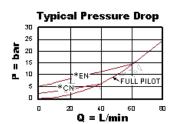
TECHNICAL FEATURES

• 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 (0,07 cc) 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.

PERFORMANCE CURVES





CONFIGURATION OPTIONS

	CONTROL		
Standard Options	S	External 4-SAE Vent Port	
	X	Standard Pilot, Atmospheric Vent	
	CRACKING PRESSURE		
Standard Options	Α	4 psi (0,3 bar)	
	В	15 psi (1 bar)	
	C	30 psi (2 bar)	
	D	50 psi (3,5 bar)	
	E	75 psi (5 bar)	
	F	100 psi (7 bar)	
	SEAL MATERIAL		
Standard Options	N	Buna-N	
	V	Viton	
	MATERIAL/COATING		
Standard Options		Standard Material/Coating	
	/LH	Mild Steel, Zinc-Nickel	

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