



This valve is a pilot to open check valve. It has a non-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 external 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 references the vent (port 3).

**TECHNICAL DATA** NOTE: DATA MAY VARY BY CONFIGURATION. SEE CONFIGURATION SECTION.

Cavity	T-2A
Series	2
Capacity	30 gpm
Maximum Operating Pressure	5000 psi
Pilot Ratio	3:1
Maximum Valve Leakage at 110 SUS (24 cSt)	1 drops/min.
Valve Hex Size	1 1/8 in.
Valve Installation Torque	45 - 50 lbf ft
Model Weight	0.49 lb.
Seal kit - Cartridge	Buna: 990-202-007
Seal kit - Cartridge	Polyurethane: 990-002-002
Seal kit - Cartridge	Viton: 990-202-006

OPTION SELECTION EXAMPLE: CKEHSCN

CONTROL	(S)	CRACKING PRESSURE	(C)	SEAL MATERIAL	(N)
S	External 4-SAE Pilot Port, Vent to Port 3	C	30 psi (2 bar)	N	Buna-N
V	External 1/4 NPTF Pilot Port, Vent to Port 3	D	50 psi (3,5 bar)	V	Viton
		F	100 psi (7 bar)		

TECHNICAL FEATURES

- There is a positive seal between ports 2 and 3.
- These valves should be considered service items only. New applications should use valves from the CV\*V family.
- This valve has a proportional pressure reducing characteristic that limits the pressure developed at port 1 to about 75% of the pressure at port 2.
- Pilot pressure as low as 15 psi (1 bar) higher than the pressure at the vent can prevent the valve from closing.
- Provides hose break protection, prevents loads from drifting and positively locks pressurized loads.
- Standard unsealed pilot allows air trapped in the pilot line to be purged from the circuit.
- Pilot-to-open check cartridges are locking valves, not motion control valves. For motion control applications, use counterbalance valves.
- Extremely low leakage. If the load drifts due to the valve, the seat has probably been damaged by contamination and the valve should be replaced.
- This 3 port pilot-to-open check valve is not physically interchangeable with other 3 port pilot-to-open check valves or counterbalance valves due to the different pilot/vent configuration.
- 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

