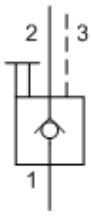
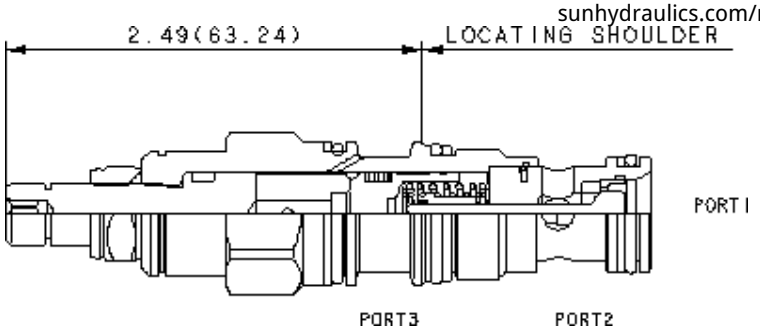
MODEL
CKCA

Pilot-to-open check valve with standard pilot and Delrin seat
SERIES 1 / CAPACITY: 60 L/min. / CAVITY: T-11A

sunhydraulics.com/model/CKCA





CONFIGURATION

L	Control	Manual Load Release
C	Cracking Pressure	30 psi (2 bar)
N	Seal Material	Buna-N

This valve is a pilot to open check valve. It has a non-sealed pilot, a Delrin seat, and is non-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, allowing flow from port 1 to port 2. Pilot pressure needed at port 3 to open the valve is directly proportional to the load pressure at port 1. Pressure at port 2 directly opposes pilot pressure.

TECHNICAL DATA

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

Cavity	T-11A
Series	1
Capacity	60 L/min.
Maximum Operating Pressure	175 bar
Pilot Ratio	3:1
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: 990011007
Seal kit - Cartridge	Polyurethane: 990011002
Seal kit - Cartridge	Viton: 990011006
Model Weight	0.17 kg.

CONFIGURATION OPTIONS

Model Code Example: CKCAArray

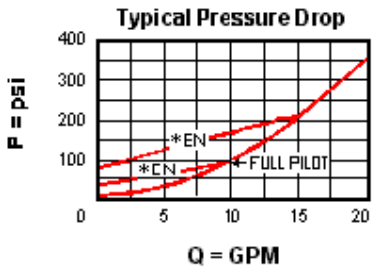
CONTROL (L)	CRACKING PRESSURE (C)	SEAL MATERIAL (N)
L Manual Load Release	**C** 30 psi (2 bar)	**N** Buna-N
X Standard Pilot	**A** 4 psi (0,3 bar)	**V** Viton
	B 15 psi (1 bar)	
	D 50 psi (3,5 bar)	
	E 75 psi (5 bar)	
	F 100 psi (7 bar)	

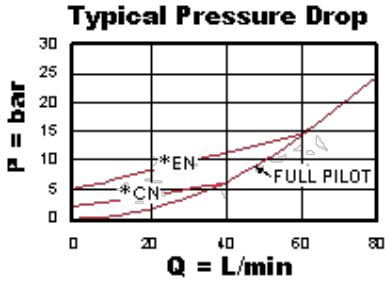
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TECHNICAL FEATURES

- 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.
- Optional external porting out of the hex end of the cartridge is available for external piloting. In this configuration, port 3 is blocked. See Control options E, and P.
- Pilot-to-open check cartridges are locking valves, not motion control valves. For motion control applications, use counterbalance valves.
- The Delrin seat is suitable for dirty, medium pressure systems that are not subjected to high flows or temperatures.
- 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.
- For models with manual load release control option, turn load release clockwise to release load.
- This 3 port pilot-to-open check valve and 3 port counterbalance valves 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.
- 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





RELATED MODELS

- CKCAS Vented pilot-to-open check valve with SAE-4 external pilot port, standard pilot, and Delrin seat
- CKCAV Vented pilot-to-open check valve with 1/4 NPTF external pilot port, standard pilot, and Delrin seat

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