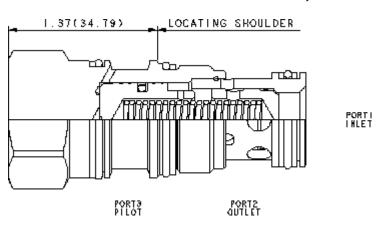


Pilot-to-close check valve CAPACITY: 40 gpm / CAVITY: T-2A



sunhydraulics.com/model/COFA





This valve is a spring biased closed, pilot-to-close check cartridge that has a 1.8:1 pilot ratio. The valve allows flow from port 1 to port 2 and blocks reverse flow. Pressure at the pilot port opposes pressure at port 1 at a ratio of 1.8:1. This valve is most often used in regeneration circuits.

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

Cavity	T-2A
Series	2
Capacity	40 gpm
Maximum Operating Pressure	5000 psi
Pilot Ratio	1.8:1
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	0.50 lb.
Seal kit - Cartridge	Buna: 990-202-007
Seal kit - Cartridge	EPDM: 990-202-014
Seal kit - Cartridge	Polyurethane: 990-002-002
Seal kit - Cartridge	Viton: 990-202-006

#### **OPTION SELECTION EXAMPLE: COFAXCN**

CONTROL	(X)	CRACKING PRESSURE	(C)	) SEAL MATERIAL (N)		MATERIAL/COATING	
X Standard Pilot		<b>C</b> 30 psi (2 bar)		N Buna-N			Standard Material/Coating
		A 4 psi (0,3 bar)		E EPDM		/AP	Stainless Steel, Passivated
		<b>B</b> 15 psi (1 bar)		V Viton		/LH	Mild Steel, Zinc-Nickel
		<b>D</b> 50 psi (3,5 bar)					
		<b>F</b> 100 psi (7 bar)					
		J 135 psi (9,5 bar)					

## **TECHNICAL FEATURES**

- Nominal pilot ratio is 1.8:1. This means that a pressure of 1000 psi (70 bar) at the pilot port will close a valve against a pressure of 1800 psi (125 bar) at port 1. Any decay or loss of pilot pressure could allow the valve to open, even if it is a momentary decay or loss.
- Pressure at the port 2 area directly opposes pilot pressure.
- Reverse flow through the valve from port 2 to port 1 is not possible under any condition.
- With equal pressures at all ports the valve is closed.
- In the begining the CO\*A's did not have a positive seal on the pilot pistons and the CO\*B's did. Now the CO\*A's are positively sealed and the 2 valves are mechanically identical. CO\*A's are more readily available and cost less.
- Cartridges configured with EPDM seals are for use in systems with phosphate ester fluids. Exposure to petroleum based fluids, greases and lubricants will damage the seals.
- Corrosion resistant cartridge valves are intended for use in corrosive environments and are identified by the model code suffix /AP or /LH (see CONFIGURATION section). For further details, please see the Materials of Construction page under TECHNICAL RESOURCES.
- 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.

#### Typical Pressure Drop Typical Pressure Drop 200 15 12 раг = psi 150 9 100 II XEN 6 ۵. ۵. 50 XĖN з ТΝ I XAŃ XAN ο 0 0 40 80 120 160 10 20 30 40 Q = GPM $\mathbf{Q} = \mathbf{L}/\min$

## PERFORMANCE CURVES