

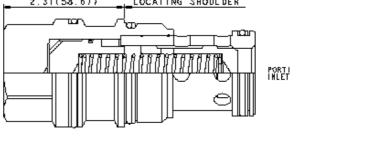
MODEL COJA Pilot-to-close check valve

SERIES 4 / CAPACITY: 610 L/min. / CAVITY: T-19A





# Sunhydraulics.com/model/COJ/



PORT2 OUTLET

### **CONFIGURATION**

X	Control	Standard Pilot		
Α	Cracking Pressure	4 psi (0,3 bar)		
N	Seal Material	Buna-N		
(none) Material/Coating		Standard Material/Coating		
		-		

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.

PORTS PILOT

#### **TECHNICAL DATA**

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

Cavity	T-19A
Series	4
Capacity	610 L/min.
Pilot Ratio	1.8:1
Maximum Operating Pressure	350 bar
Maximum Valve Leakage at 110 SUS (24 cSt)	0,07 cc/min.
Valve Hex Size	41,3 mm
Valve Installation Torque	474 - 508 Nm
Seal kit - Cartridge	Buna: 990019007
Seal kit - Cartridge	EPDM: 990019014
Seal kit - Cartridge	Polyurethane: 990019002
Seal kit - Cartridge	Viton: 990019006
Model Weight	1.16 kg.

## **CONFIGURATION OPTIONS**

#### Model Code Example: COJAXAN

CONTROL	(X)	CRACKING PRESSURE	(A)	SEAL MATERIAL	(N)	MATERIAL/COATING	
X Standard Pilot		<b>A</b> 4 psi (0,3 bar)		N Buna-N		Standard Material/Coating	
		<b>B</b> 15 psi (1 bar)		<b>E</b> EPDM		/AP Stainless Steel, Passivated	
		C 30 psi (2 bar)		<b>V</b> Viton		/LH Mild Steel, Zinc-Nickel	
		<b>D</b> 50 psi (3,5 bar)					
		<b>E</b> 75 psi (5 bar)					
		<b>F</b> 100 psi (7 bar)					

## **TECHNICAL FEATURES**

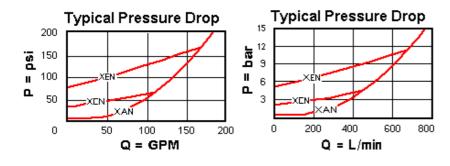
- Nominal pilot ratio is 1.8:1. This means that a pressure of 1000 psi (70 bar) at the pilot port will close a valve against a pressure of 1800 psi (125 bar) at port 1. Any
  decay or loss of pilot pressure could allow the valve to open, even if it is a momentary decay or loss.
- Pressure at the port 2 area directly opposes pilot pressure.
- Reverse flow through the valve from port 2 to port 1 is not possible under any condition.

**G** 150 psi (10,5 bar)

- 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.

#### **PERFORMANCE CURVES**

© 2019 Sun Hydraulics



© 2019 Sun Hydraulics 2 of 2