

# MODEL COHA

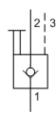
### Pilot-to-close check valve

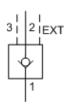
# SERIES 3 / CAPACITY: 80 gpm / CAVITY: T-17A

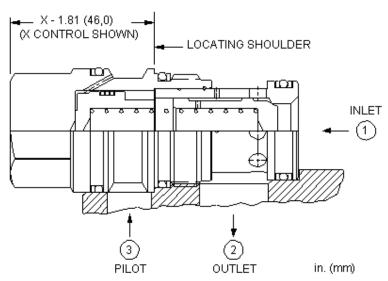


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This valve is a spring biased closed, pilot-to-close check cartridge that has a 1.8:1 pilot ratio. The valve allows flow from port 1 to port 2 and blocks reverse flow. Pressure at the pilot port opposes pressure at port 1 at a ratio of 1.8:1. This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

## **TECHNICAL DATA**

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

Cavity	T-17A
Series	3
Capacity	80 gpm
Pilot Ratio	1.8:1
Maximum Operating Pressure	5000 psi
Maximum Valve Leakage at 110 SUS (24 cSt)	1 drops/min.
Valve Hex Size	1 1/4 in.
Valve Installation Torque	150 - 160 lbf ft
Seal kit - Cartridge	Buna: 990017007
Seal kit - Cartridge	Polyurethane: 990017002
Seal kit - Cartridge	Viton: 990017006
Model Weight	1.11 lb.

#### **CONFIGURATION OPTIONS**

## **Model Code Example: COHAXCN**

CONTROL	(X) CRACKING PRESSURE	(C) SEAL MATERIAL	(N) MATERIAL/COATING
X Standard Pilot	<b>C</b> 30 psi (2 bar)	<b>N</b> Buna-N	Standard Material/Coating
	<b>A</b> 4 psi (0,3 bar)	<b>E</b> EPDM	IAP Stainless Steel, Passivated

V Viton

**B** 15 psi (1 bar) **D** 50 psi (3,5 bar) **F** 75 psi (5 bar)

F 75 psi (5 bar)F 100 psi (7 bar)

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

/AP Stainless Steel, Passivate /LH Mild Steel, Zinc-Nickel

#### **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.
- 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

