



Pilot-to-close check valve

Capacity:
80 gpm (320 L/min.)

Functional Group:

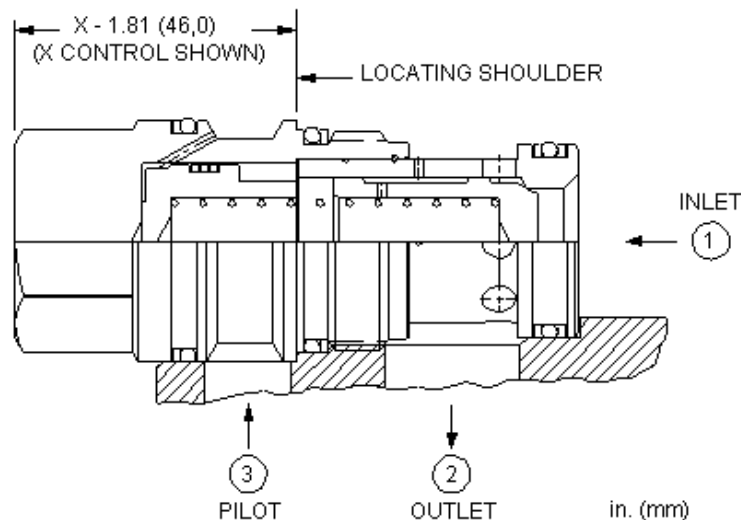
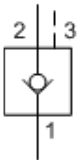
Products : Cartridges : Circuit Saver : 3-Port : Pilot-to-Close Check Valve

Model:

COHA

Product Description

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.

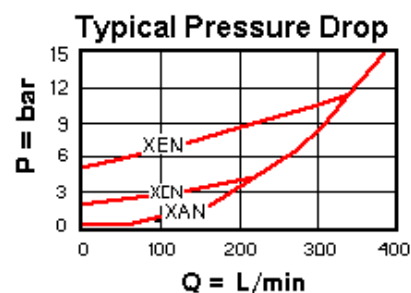
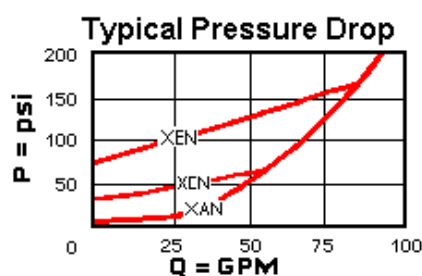


Technical Features

- 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.
- In the beginning 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 (see Option Selection below). External parts are made from stainless steel with titanium or brass components, where applicable. Internal parts are made from carbon steel leaded alloy, the same as standard valves. For further details, please see the Materials of Construction page.
- Reverse flow through the valve from port 2 to port 1 is not possible under any condition.
- 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.
- With equal pressures at all ports the valve is closed.

Technical Data

	U.S. Units	Metric Units
Cavity		T-17A
Capacity	80 gpm	320 L/min.
Pilot Ratio		1.8:1
Maximum Operating Pressure	5000 psi	350 bar
Maximum Valve Leakage at 110 SUS (24 cSt)	1 drops/min.	0,07 cc/min.
Series (from Cavity)		Series 3
Valve Hex Size	1 1/4 in.	31,8 mm
Valve Installation Torque	150 - 160 lbf ft	200 - 215 Nm
Seal Kits - Cartridge		Buna: 990-017-007
Seal Kits - Cartridge		Viton: 990-017-006
Model Weight	1.11 lb.	0.50 kg.

**COHA-XCN**

Control	Cracking Pressure	Seal Material	Material/Coating Modifier
Standard Options	Standard Options	Standard Options	Preferred Options
X Standard Pilot	A 4 psi (0,3 bar) B 15 psi (1 bar) C 30 psi (2 bar) D 50 psi (3,5 bar) E 75 psi (5 bar) F 100 psi (7 bar)	N Buna-N V Viton	No modifier (standard material with no special coating) Special Options /AP Stainless Steel, Passivated Control: X <i>Our corrosion resistant product line is growing! If you are interested in a corrosion resistant option for this model, please contact Sun.</i>

Additional Options

Control	Cracking Pressure	Seal Material
E External 4-SAE Port	Z 1 psi (0,07 bar)	

When the modifier is /AP, the control must be X