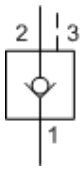
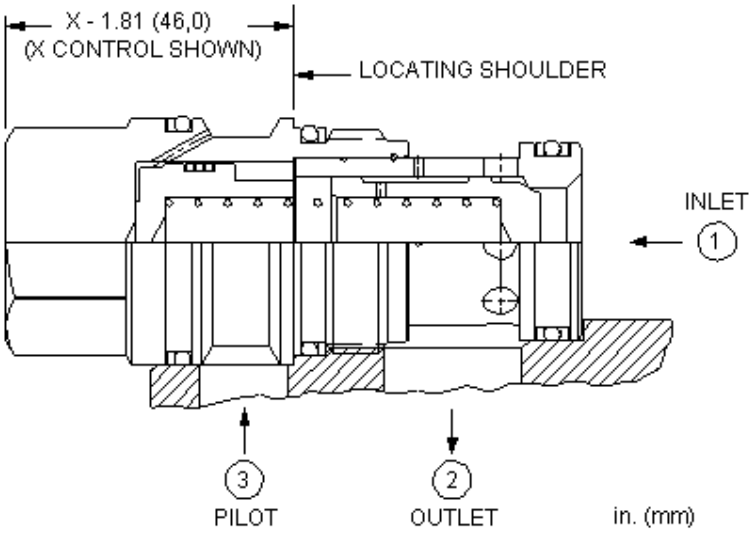
MODEL
COHA

Pilot-to-close check valve
SERIES 3 / CAPACITY: 320 L/min. / CAVITY: T-17A

sunhydraulics.com/model/COHA




## CONFIGURATION

| | | |
|---|---|---|
| **X** | Control | Standard Pilot |
| **G** | Cracking Pressure | 150 psi (10,5 bar) |
| **V** | Seal Material | Viton |
| **(none)** | 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.

## TECHNICAL DATA

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

| | |
|---|---|
| Cavity | T-17A |
| Series | 3 |
| Capacity | 320 L/min. |
| Maximum Operating Pressure | 350 bar |
| Pilot Ratio | 1.8:1 |
| Maximum Valve Leakage at 110 SUS (24 cSt) | 0,07 cc/min. |
| Valve Hex Size | 31,8 mm |
| Valve Installation Torque | 203 - 217 Nm |
| Seal kit - Cartridge | Buna: 990017007 |
| Seal kit - Cartridge | Polyurethane: 990017002 |
| Seal kit - Cartridge | Viton: 990017006 |
| Model Weight | 0.52 kg. |

## CONFIGURATION OPTIONS

Model Code Example: COHAArray

**CONTROL (X)**

- **X** Standard Pilot

**CRACKING PRESSURE (G)**

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

**SEAL MATERIAL (V)**

- **V** Viton
- **E** EPDM
- **N** Buna-N

**MATERIAL/COATING**

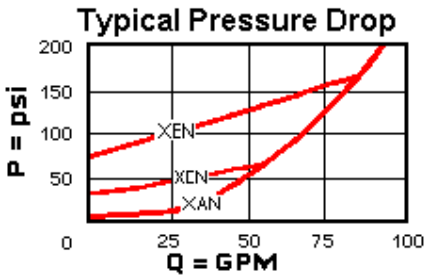
- Standard Material/Coating
- **/AP** Stainless Steel, Passivated
- **/LH** Mild Steel, Zinc-Nickel

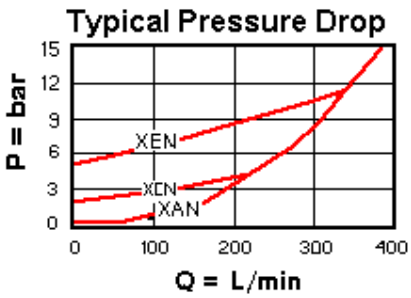
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## TECHNICAL FEATURES

- 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




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