

## Pilot-to-close check valve

Capacity:  
**240 gpm (900 L/min.)**

Functional Group:

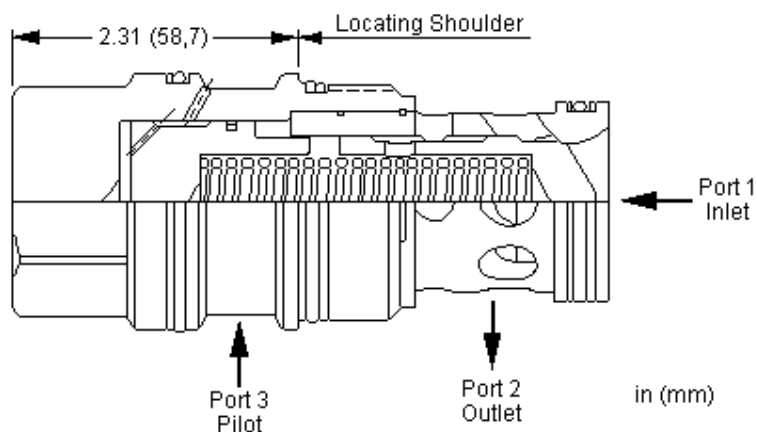
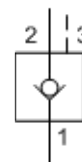
**Products : Cartridges : Circuit Saver : 3-Port : Pilot-to-Close Check Valve**

Model:

**COKA**

### 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.



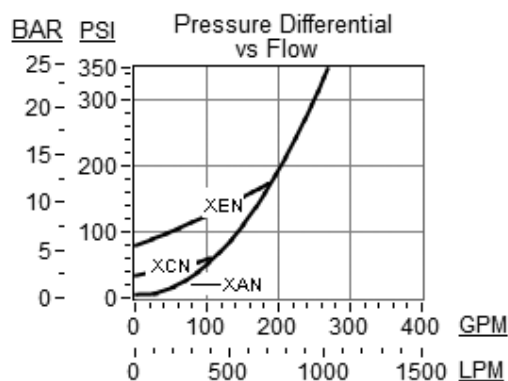
### Technical Features

- These valves will work in Sun's standard T-19A cavity at lower capacity. To realize the full stated capacity, the T-19AU cavity should be used.
- 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.
- 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.
- 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.

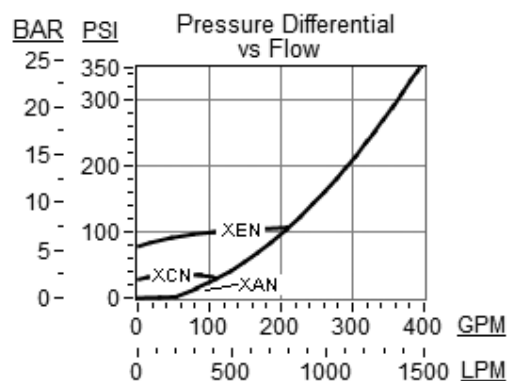
**Technical Data**

|                                           | U.S. Units         | Metric Units |
|-------------------------------------------|--------------------|--------------|
| Cavity                                    | T-19AU             |              |
| Capacity                                  | 240 gpm            | 900 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 4           |              |
| Valve Hex Size                            | 1 5/8 in.          | 41,3 mm      |
| Valve Installation Torque                 | 350 - 375 lbf ft   | 475 - 500 Nm |
| Seal Kits - Cartridge                     | Buna: 990-019-007  |              |
| Seal Kits - Cartridge                     | Viton: 990-019-006 |              |
| Model Weight                              | 2.53 lb.           | 1.15 kg.     |

Model COKA installed in T-19A Cavity



Model COKA installed in T-19AU Cavity

**COKA-XAN****Control****Standard Options****X** Not Adjustable**Cracking Pressure****Preferred Options****A** 4 psi (0,3 bar)**Standard Options****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****Standard Options****N** Buna-N**V** Viton**Additional Options****Control****Cracking Pressure****Z** 1 psi (0,07 bar)