



Pilot-to-close check valve

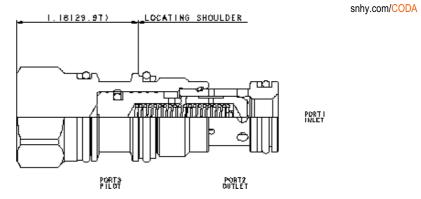
SERIES 1 / CAPACITY: 80 L/min. / CAVITY: T-11A





#### CONFIGURATION

X	Control	Standard Pilot		
С	Cracking Pressure	30 psi (2 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.

### **TECHNICAL DATA**

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

Cavity	T-11A			
Series	1			
Capacity	80 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	22,2 mm			
Valve Installation Torque	41 - 47 Nm			
Seal kit - Cartridge	Buna: 990011007			
Seal kit - Cartridge	EPDM: 990011014			
Seal kit - Cartridge	Polyurethane: 990011002			
Seal kit - Cartridge	Viton: 990011006			
Model Weight	0.13 kg.			

## **CONFIGURATION OPTIONS**

### Model Code Example: CODAXCN

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

## **TECHNICAL FEATURES**

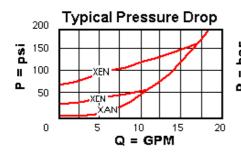
- . Minimum clearances between the spool and sleeve and a seal on the pilot piston diameter significantly reduce the potential for silting.
- Nominal pilot ratio is 1.8:1. This means that a pressure of 1000 psi (70 bar) at the pilot port will close a valve against a pressure of 1800 psi (125 bar) at 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.

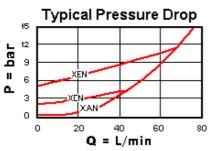
**G** 150 psi (10,5 bar)

- 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.

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# **PERFORMANCE CURVES**





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