

MODEL CODA Pilot-to-close check valve

SERIES 1 / CAPACITY: 20 gpm / CAVITY: T-11A

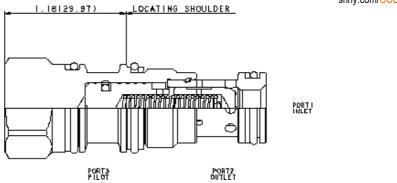


snhy.com/COD



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	20 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	7/8 in.	
Valve Installation Torque	30 - 35 lbf ft	
Seal kit - Cartridge	Buna: 990011007	
Seal kit - Cartridge	EPDM: 990011014	
Seal kit - Cartridge	Polyurethane: 990011002	
Seal kit - Cartridge	Viton: 990011006	
Model Weight	0.28 lb.	

CONFIGURATION OPTIONS

Model Code Example: CODAXCN

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

E 75 psi (5 bar)

F 100 psi (7 bar)

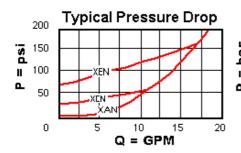
G 150 psi (10,5 bar)

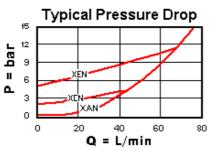
TECHNICAL FEATURES

- 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.
- 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
- 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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