



Free flow side to nose check valve

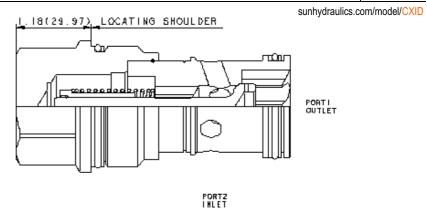
SERIES 4 / CAPACITY: 120 gpm / CAVITY: T-18A





#### **CONFIGURATION**

X	Control	Not Adjustable		
В	Cracking Pressure	15 psi (1 bar)		
N	Seal Material	Buna-N		
(none) Material/Coating		Standard Material/Coating		



Free-flow, side-to-nose check valves are on/off circuit components that allow free flow from the inlet (port 2) to the outlet (port 1) and block flow in the opposite direction.

#### **TECHNICAL DATA**

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

Cavity	T-18A
Series	4
Capacity	120 gpm
Maximum Operating Pressure	5000 psi
Maximum Valve Leakage at 110 SUS (24 cSt)	1 drops/min.
Valve Hex Size	1 5/8 in.
Valve Installation Torque	350 - 375 lbf ft
Seal kit - Cartridge	Buna: 990018007
Seal kit - Cartridge	EPDM: 990018014
Seal kit - Cartridge	Polyurethane: 990018002
Seal kit - Cartridge	Viton: 990018006
Model Weight	2.03 lb.

## **CONFIGURATION OPTIONS**

### Model Code Example: CXIDXBN

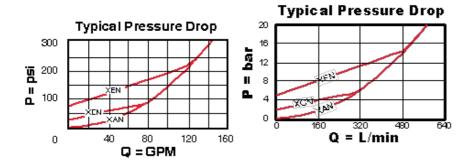
CONTROL	(X)	CRACKING PRESSURE	(B)	SEAL MATERIAL	(N)	MATERIAL/COATING	
X Not Adjustable		<b>B</b> 15 psi (1 bar)		N Buna-N		Standard Material/Coating	
		C 30 psi (2 bar)		<b>E</b> EPDM		/AP Stainless Steel, Passivated	
		<b>A</b> 4 psi (0,3 bar)		<b>V</b> Viton		/LH Mild Steel, Zinc-Nickel	
		<b>D</b> 50 psi (3,5 bar)					
		E 75 psi (5 bar)					
		<b>F</b> 100 psi (7 bar)					

# **TECHNICAL FEATURES**

- Two-port check valves share the same cavity for a given frame size, however, pay close attention as flow paths may be in opposite directions.
- These check valves are considered circuit savers for existing circuits where manifold drillings are incorrect. The capacity of side-to-nose (port 2 to port 1) 2-port check valves is approximately 30% less than preferred models with a nose-to-side (port 1 to port 2) flow path.
- Check valves offer extremely low leakage rates with a maximum leakage of less than 1 drop per minute (0,07 cc/min).
- Will accept 5000 psi (350 bar) at ports 1 and 2.
- 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.
- 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

© 2022 Sun Hydraulics 1 of 2



© 2022 Sun Hydraulics 2 of 2