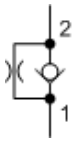
MODEL
CNHC

Free flow nose to side check valve with bypass orifice
SERIES 3 / CAPACITY: 240 L/min. / CAVITY: T-16A

sunhydraulics.com/model/CNHC



Free-flow, nose-to-side check valves with a bypass orifice allow free flow from port 1 to port 2. A customer specified orifice is included to restrict flow from port 2 to port 1. See technical data below for orifice range.

CONFIGURATION

X	Control	Not Adjustable
B	Setting Range	15 psi (1 bar) Cracking Pressure, .016 - .252 in. (0,4 - 6,4 mm)
N	Seal Material	Buna-N
(none)	Material/Coating	

TECHNICAL DATA

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

Cavity	T-16A
Series	3
Capacity	240 L/min.
Maximum Operating Pressure	350 bar
Orifice Range	0,4 - 6,4 mm
Valve Hex Size	31,8 mm
Valve Installation Torque	203 - 217 Nm
Seal kit - Cartridge	Buna: 990016007
Seal kit - Cartridge	EPDM: 990016014
Seal kit - Cartridge	Polyurethane: 990016002
Seal kit - Cartridge	Viton: 990016006
Model Weight	0.43 kg.

CONFIGURATION OPTIONS

Model Code Example: CNHCArray

CONTROL (X)

- **X** Not Adjustable

SETTING RANGE (B)

- **B** 15 psi (1 bar) Cracking Pressure, .016 - .252 in. (0,4 - 6,4 mm)
- **A** 4 psi (0,3 bar) Cracking Pressure, .016 - .252 in. (0,4 - 6,4 mm)
- **C** 30 psi (2 bar) Cracking Pressure, .016 - .252 in. (0,4 - 6,4 mm)
- **D** 50 psi (3,5 bar) Cracking Pressure, .016 - .252 in. (0,4 - 6,4 mm)
- **E** 75 psi (5 bar) Cracking Pressure, .016 - .252 in. (0,4 - 6,4 mm)
- **F** 100 psi (7 bar) Cracking Pressure, .016 - .252 in. (0,4 - 6,4 mm)

SEAL MATERIAL (N)

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

MATERIAL/COATING

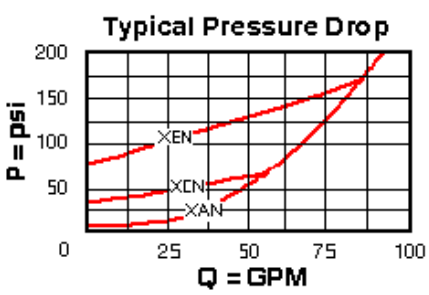
- Standard Material/Coating
- **/AP** Stainless Steel, Passivated
- **/LH** Mild Steel, Zinc-Nickel

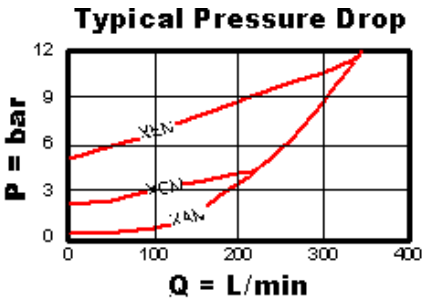
TECHNICAL FEATURES

- 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.
- Will accept 5000 psi (350 bar) at ports 1 and 2.
- Valves with the opposite flow path (free flow from 2 to 1) are considered flow controls and may be found listed as fixed orifice, non-pressure compensated flow control valve with reverse flow check.
- 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.
- The customer specified orifice diameter is stamped on one of the cartridge's hex faces.
- 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.
- 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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Note: Performance data shown reflects a blocked orifice.

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