

Pilot-to-open check valve with standard pilot

Capacity: **30 gpm (120 L/min.)**

Functional Group:

Products: Cartridges: Pilot-to-Open Check: 3-Port, Non-Vented: Standard Pilot, Steel Seat

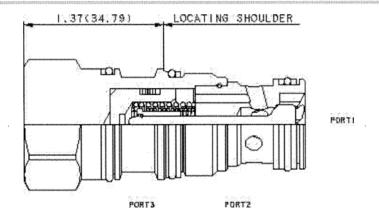
Model: CKEB-XCN

Product Description

This valve is a pilot to open check valve.I t has a non-sealed pilot, a steel seat, and is non-vented. It allows free flow from the valve (port 2) to the load (port 1) and blocks flow in the opposite direction. Pressure at the pilot (port 3) will open the valve from port 1 to port 2. Pilot pressure needed at port 3 to open the valve is directly proportional to the load pressure at port 1. Pressure at port 2 directly opposes pilot pressure.



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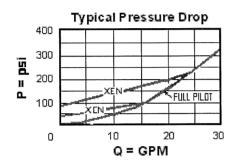
Technical Features

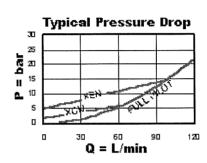
- Provides hose break protection, prevents loads from drifting and positively locks pressurized loads
- Extremely low leakage. The seat and poppet are heat treated for long life. Ift he load drifts due to the valve, the seat has probably been damaged by contamination and the valve should be replaced.
- Pilot-to-open check cartridges are locking valves, not motion control valves. For motion control applications, use counterbalance valves.
- For models with manual load release control option, turn load release clockwise to release load.
- 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.

- Standard unsealed pilot allows air trapped in the pilot line to be purged from the circuit.
- Optional external porting out oft he hex end oft he cartridge is available for external piloting. In this configuration, port 3 is blocked. See Control options E, and P.
- This 3 port pilot-to-open check valve and 3 port counterbalance valves are physically interchangeable (i.e.s ame cavities, same flow path for a given frame size). However, cartridge extension dimensions from the mounting surface may vary.
- Stainless steel cartridge options P or W are intended for use within corrosive environments with all external components manufactured in stainless steel or titanium. Internal working components remain the same as the standard valves.

LAST REV. DATE - 2007 10 14
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CHANGED BY - 3A8
CATALOG NUMBER - 4B SITE
(if not printed on the catalog page)
PART NUMBER - 2023-952

	U.S. Units	Metric Units	
Model Weight	0.52 lb.	0.24 kg.	
Cavity	T-2A		
Capacity	30 gpm	120 L/min.	
Pilot Ratio	3:1		
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 2		
Valve Hex Size	1 1/8 in.	28,6 mm	
Valve Installation Torque	45 - 50 lbff t	60 - 70 Nm	
Seal Kits	Buna: 990-202-007		
Seal Kits	Viton: 990-202-006		





CKEB-XCN

Control		Cracking Pressure		External Material/Seal Material
Preferred Options				
X Standard Pilot Standard Options	С	30 psi (2 bar)	N	Buna-N
L Manual Load Release	A B D E	4 psi (0,3 bar) 15 psi (1 bar) 50 psi (3,5 bar) 75 psi (5 bar) 100 psi (7 bar)	P V W	Stainless/Buna-N Viton Stainless/Viton

If the material/seal is P, the control must be X If the material/seal is W, the control must be X

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(if not printed on the catalog page)
PART NUMBER - 8023-952

- 000 **REVISION LEVEL** BAS CHANGED BY CATALOG NUMBER - Wib Site (if not printed on the catalog page) T-2A CAVITY DETAILS (ALL DIMENSIONS ARE IN INCHES) Δ1.000-14UNS-2B THREAD .9536/.9609 PITCH DIA. .031 DRILL-REAMER RELATIONSHIP FORM DRILL TD - 2A FORM REAMER *SEPARATE DRILL TR - 2 A FOR SOCKET 1.125 HEX **CLEAR ANCE** -1 .500Ø-1.375 MIN.HEX **-**30°** 45° EXTENSION L.S. -1.125* REF 1.312 Ø ---.719 MINIMUM REDRAM TO BE CONSISTENT

10.002 CONCENTRICITY WAS

117.44 WAS 117.25 (METRIC DWG ONLY)

K REDRAMN IN NEW FORMAT.

REVISION .688 R -** 031 L.S.DEPTH .375 .078 Ø POR 3 1.080 -.219 LOCATING 0.000 0.000<u>L.S</u> .156-.625 .625<u>MIN</u> FUL THREAD A 45° 20111299 **→**45° POR T <u>.933</u> Ø JUL9 -.719 .937 DRN DAS .031 R .875 Ø 637 DIMENSION TOL.

DIMENSION TOL.

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L 1.047 1.38[±].0025 .877 CARTRIDGE NOSE SUPPOR T POR T SCALE F 2:1 DRAWN HHP DATE 5-4-76 -1.75 MIN.DEPTH OF.688Ø (WORKING PARTS CLEARANCE) DIMENSIONS, 1.781 .012 × 45° MAX SER JDA
DATE
5-28-76 -.688 Ø **--**SHI DATE RELEASE \triangleright N TOOLING, HEAT MATERIAL TREAT & FINISH TY G, PORTING THREAD AND $| \bullet |$. 002 Α ALL DIAMETERS SOCKET WRENCH CLEARANCE DIAMETER.
RECOMMENDED MAXIMUM L.S. DEPTH
WITHOUT SOCKET CLEARANCE: 1.12
MINIMUM CENTERLINE-TO-EDGE
DISTANCE: .750
MINIMUM CENTERLINE-TO-CENTERLINE
DISTANCE: 1.375
NBOM CALLOUT: SUN STD T-2A CAVITY
NBOM CODE: T2A REVISION SHEE SHEE SANSOTA FLORIDA 355-2833
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