

Pilot-to-open check valve with standard pilot

Capacity:
30 gpm (120
L/min.)

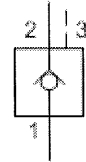
Functional Group:

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

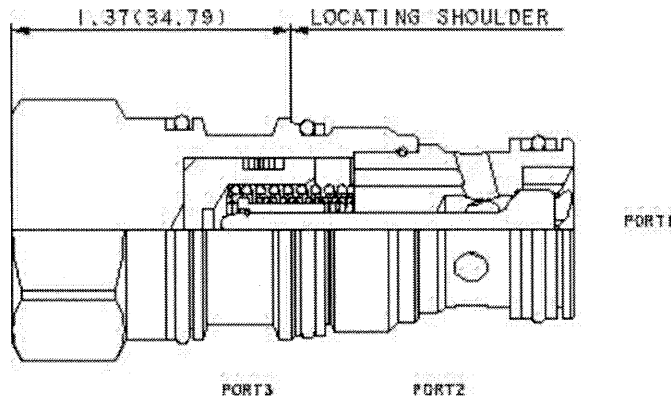
Model:
CKEB-XCN

Product Description

This valve is a pilot to open check valve. It 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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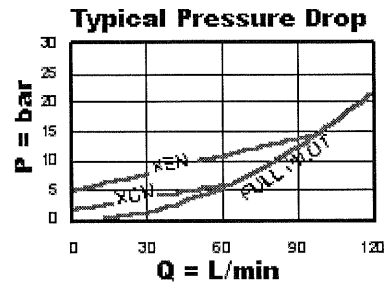
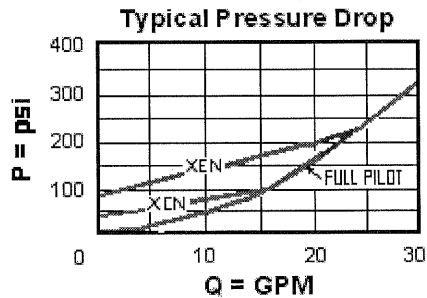
Technical Features

- 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. If the 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.
- Standard unsealed pilot allows air trapped in the pilot line to be purged from the circuit.
- Optional external porting off the hex end of the 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. same 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.
- 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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 PART NUMBER - 8023-952

Technical Data

	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	C 30 psi (2 bar)	N Buna-N
Standard Options		
L Manual Load Release	A 4 psi (0,3 bar)	P Stainless/Buna-N
	B 15 psi (1 bar)	V Viton
	D 50 psi (3,5 bar)	W Stainless/Viton
	E 75 psi (5 bar)	
	F 100 psi (7 bar)	

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

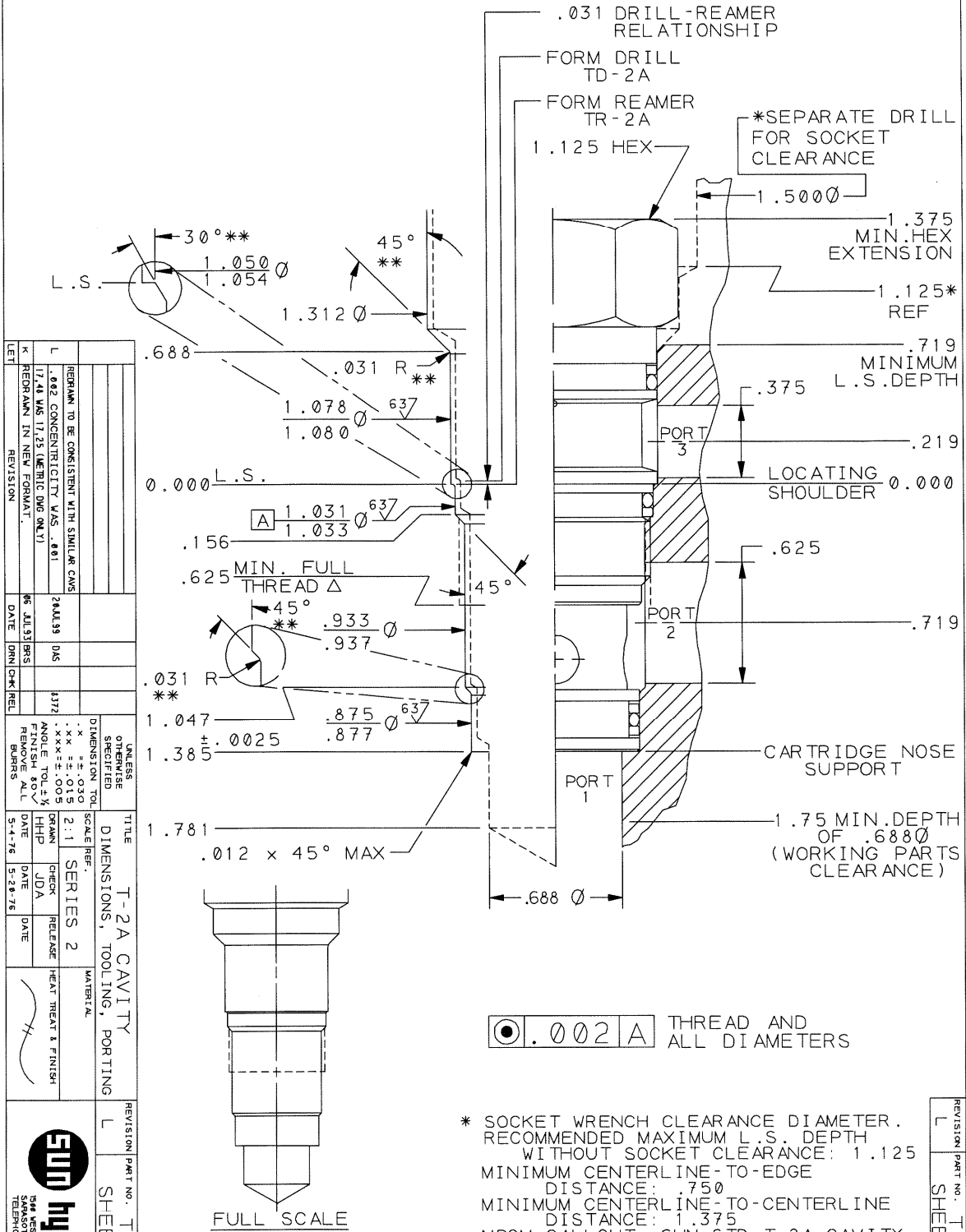
If the material/seal is W, the control must be X

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 REVISION LEVEL - 000
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T-2A CAVITY DETAILS
(ALL DIMENSIONS ARE IN INCHES)

Δ 1.000-14UNS-2B THREAD
.9536/.9609 PITCH DIA.



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* SOCKET WRENCH CLEARANCE DIAMETER.  
RECOMMENDED MAXIMUM L.S. DEPTH  
    WITHOUT SOCKET CLEARANCE: 1.125  
MINIMUM CENTERLINE-TO-EDGE  
    DISTANCE: .750  
MINIMUM CENTERLINE-TO-CENTERLINE  
    DISTANCE: 1.375  
NBOM CALLOUT: SUN STD T-2A CAVITY  
NBOM CODE:      T2A
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** ALL O-RING "LEAD IN'S" TO
BE SMOOTH AND FREE OF NICKS
AND SHARP EDGES.

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