

LCKCB

Pilot-to-open Check Valve

DESCRIPTION

A cartridge-style Pilot to open, poppet-type check valve

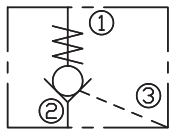
OPERATION

The valve has a non-sealed pilot. It allows free flow from port ② to port ① and blocks flow from port ① to port ② or holding a load. Flow will be allowed from port ① to port ② when pressure is applied to pilot ③.

This pilot operated check valve has a 3:1 pilot ratio, meaning that at least one-third of the load pressure held at ① is required at pilot ③ to open the valve.

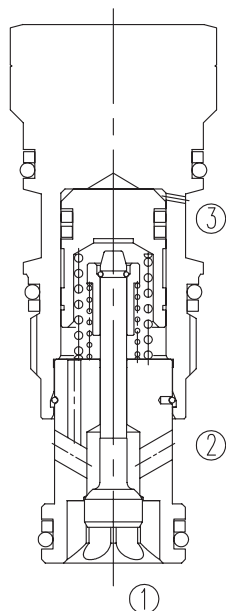
Pressure at port ② directly opposes pilot pressure.

SYMBOL

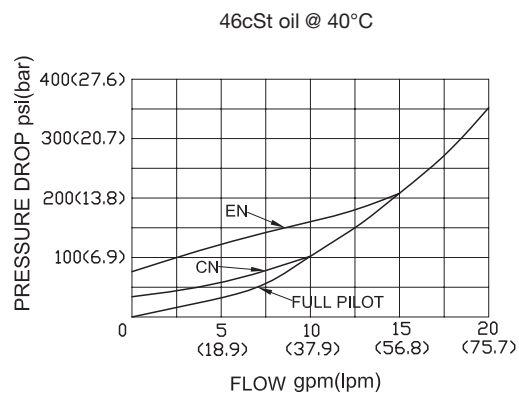


SPECIFICATIONS

Operating Pressure	350bar
Flow	See PRESSURE DROP VS.FLOW graph.
Internal Leakage	1 drops/min max. at 350bar
Cracking Pressure	C=2.0bar A=0.3bar B=1.0bar D=3.5bar E=5.0bar F=7.0bar
Pilot Ratio	3:1
Temperature	-40°F to +250°F(-40°C to +120°C)
Filtration	See page N-1
Fluids	Mineral-based fluids with viscosities of 7.4 to 420 cSt.
Cavity	SUN T-11A, See page M-6
Housing Material	Steel & Ductile iron rated to 350bar



PRESSURE DROP VS.FLOW



TO ORDER

LCK C B - X * * - * *

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1 Function
LCK=Pilot to Open Check Valve

2 Flow
C=60L/min

3 Type
B=Standard Pilot

4 Control
X=Standard Pilot

5 Cracking Pressure
 C=2bar(30psi)
 A=0.3bar(4psi)
 B=1bar(15psi)
 D=3.5bar(50psi)
 E=5bar(75psi)
 F=7bar(100psi)

6 Seal Kits
 N=Buna N
 V=Viton

7 Port Size
 Omit=None
 6T=SAE6
 8T=SAE8
 3G=G 3/8
 4G=G 1/2

※ See page K-17 – K22 for detail of housing

※ Other port sizes are available

D

INSTALLATION DIMENSIONS

Unit=Millimeters

