LCKBD

Pilot-to-open Check Valve

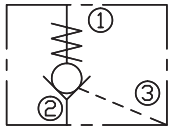
DESCRIPTION

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

OPERATION

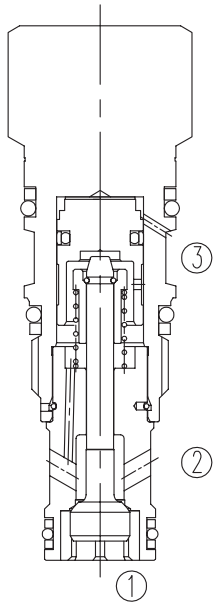
The valve has a sealed pilot. It allows free flow from port ② to port ① and blocks flow from port ① to port ② or holding a load. Flow will be allowed from port ① to port ② when pressure is applied to pilot ③ .
This pilot operated check valve has a 3:1 pilot ratio, meaning that at least one-third of the load pressure held at ① is required at pilot ③ to open the valve.
Pressure at port ② directly opposes pilot pressure .

SYMBOL

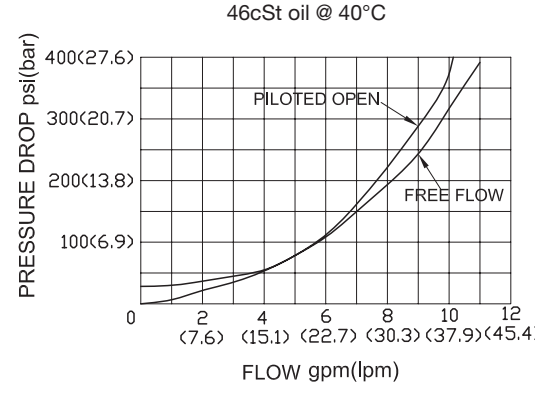


SPECIFICATIONS

Operating Pressure	350bar
Flow	See PRESSURE DROP VS.FLOW graph.
Internal Leakage	1 drops/min max. at 350bar.
Cracking Pressure	C=2.0bar E=5.0bar
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-163A,See page M-5
Housing Material	Steel & Ductile iron rated to 350bar



PRESSURE DROP VS.FLOW



TO ORDER

LCK B D – X * * – * *

1 2 3 4 5 6 7

1 Function
LCK=Pilot to Open Check Valve

2 Flow
B=30L/min

3 Type
D=Sealed Pilot

4 Control
X=Standard Pilot

5 Cracking Pressure
C=2bar(30psi)
E=5bar(75psi)

6 Seal Kits
N=Buna N
V= Viton

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

※See page K-16 for detail of housing
※Other port sizes are available

D

INSTALLATION DIMENSIONS

Unit=Millimeters