

# LCKBB

Pilot-to-open Check Valve

## DESCRIPTION

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

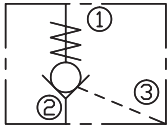
## OPERATION

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.

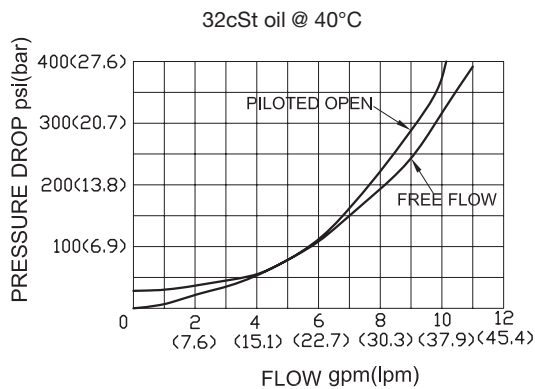
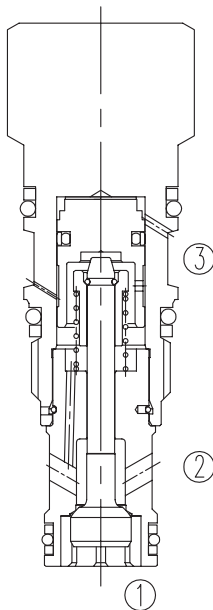
## SYMBOL



## SPECIFICATIONS

Operating Pressure	350bar
Flow	See PRESSURE DROP VS.FLOW graph.
Internal Leakage	1 drops/min max. at 350bar.
Cracking Pressure	C=2.0bar 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 B - X \* \* - \* \***  

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**1 Function**  
LCK=Pilot to Open Check Valve

**2 Flow**  
B=30L/min

**3 Type**  
B=Standard 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

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## INSTALLATION DIMENSIONS

Unit=Millimeters

