

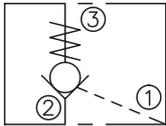
LPC-08

Pilot-to-open Check Valve

DESCRIPTION

A cartridge-style pilot-to-open ball-type check valve

SYMBOL



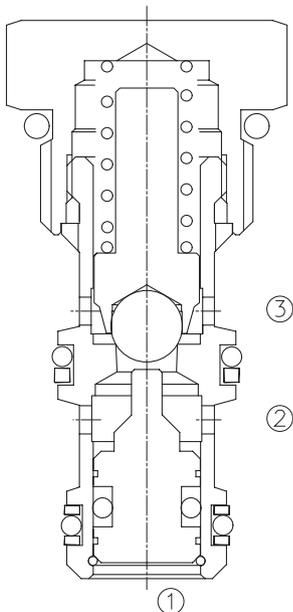
OPERATION

The valve allows flow from ② to ③, while normally blocking flow from ③ to ②. Flow will be allowed from ③ to ② when sufficient pressure is applied at ①.

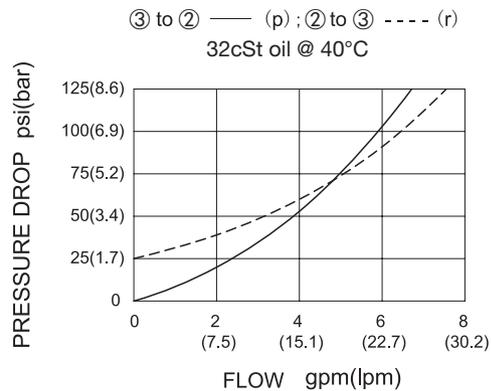
The cartridge has a 3:1 pilot ratio, meaning that at least one-third of the load pressure held at ③ is required at ① to open the valve.

SPECIFICATIONS

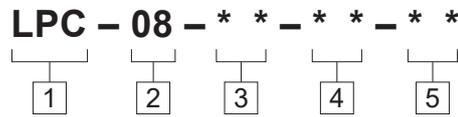
Operating Pressure	250bar
Flow	See PRESSURE DROP VS.FLOW graph.
Internal Leakage	③to②: 3 drops/min. (0.15 ml/min.) at 250bar ②to①with sealed piston: zero leakage
Cracking Pressure	1.7=1.7bar 2.1=2.1bar 5.2=5.2bar 6.2=6.2bar 8.2=8.2bar 18.3=18.3bar
Pilot Ratio	3:1
Temperature	-40°F to +250°F(-40°C to +120°C)
Filtration	See page N-1
Fluids	Mineral-based fluids with viscosities of 7.4 to 420 cSt.
Cavity	08-3,See page M-1
Housing Material	6061-T6 aluminum alloy rated to 207bar, Steel & Ductile iron rated to 350bar



PRESSURE DROP VS.FLOW



TO ORDER



- 1 Function**
LPC=Pilot to Open Check Valve

- 2 Size**
08=08 Size

- 3 Seal Kits**
N=Buna N(Std)
NS=Buna N with sealed piston
6.2bar(90psi)minimun spring
V=V-Fluorocarbon
VS= VS-Fluorocarbon with sealed piston
6.2bar(90psi)minimun spring

- 4 Cracking Pressure**
1.7=1.7bar
2.1=2.1bar
5.2=5.2bar
6.2=6.2bar
8.2=8.2bar
18.3=18.3bar

- 5 Port Size**
Omit=None
4T=SAE4
6T=SAE6
2G=G 1/4
3G=G 3/8

- ※ See page K-2 for detail of housing
- ※ Other port sizes are available

D

INSTALLATION DIMENSIONS

Unit=Millimeters

