LPC-10

Pilot-to-open Check Valve

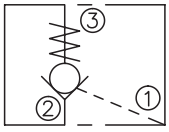
DESCRIPTION

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

OPERATION

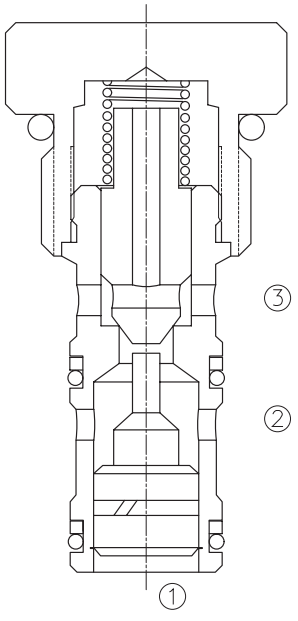
The valve allows flow from ② to ③ , while normally blocking flow from ③ to ② . Flow will be allowed from ③ to ② when sufficient pressure is applied at ①.
The cartridge has a 3.5:1 pilot ratio, meaning that at least 28 percent of the load pressure held at ③ is required at ① to open the valve.

SYMBOL

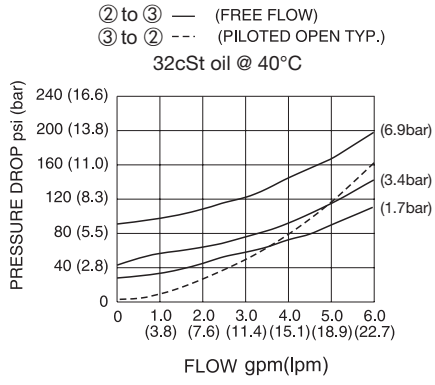


SPECIFICATIONS

Operating Pressure	250bar
Flow	See PRESSURE DROP VS.FLOW graph.
Internal Leakage	2 drops/min max. at 250bar
Cracking Pressure	1.7=1.7bar 3.4=3.4bar 6.2=6.2bar
Pilot Ratio	3.5:1
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	10-3,See page M-2
Housing Material	6061-T6 aluminum alloy rated to 207bar, Steel & Ductile iron rated to 350bar



PRESSURE DROP VS.FLOW



TO ORDER

LPC – 10 – * * – * * – * *

1 2 3 4 5

1 Function
LPC=Pilot to Open Check Valve

2 Size
10=10 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 pistion
6.2bar(90psi)minimun spring

4 Cracking Pressure
1.7=1.7bar
3.4=3.4bar
6.2=6.2bar

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

※See page K-5 for detail of housing
※Other port sizes are available

D

INSTALLATION DIMENSIONS

Unit=Millimeters