LBRV2-10

Bi-directional Relief Valve

DESCRIPTION

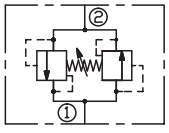
A cartridge-style direct-acting bi-directional relief valve

OPERATION

The valve is a direct-acting, dual cross-over relief valve in a single cartridge format. When pressure at either port exceeds the nominal setting value, flow will be transmitted to the opposite port. Back pressure at either port will affect the nominal setting of the opposite port on a 1 :1 basis.

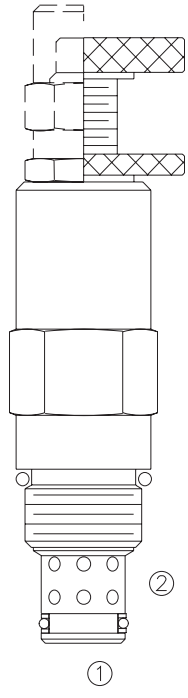
For correlation purposes, pre-set value will be measured at port ② .Pressure at port ① will not exceed ±150 psi from the port ② value.

SYMBOL

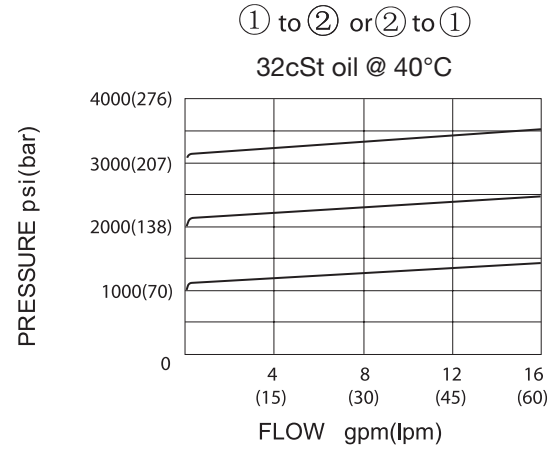


SPECIFICATIONS

Operating Pressure	240bar
Standard Spring Ranges	Pressure is set at port② , 20 to 168 bar; Preset: 69bar 100 to 210 bar; Preset: 138bar
Reseat Pressure	80% of cracking pressure (cracking pressure at 0.95 lpm /0.25 gpm)
Maximum Difference for Cracking Pressure in Both Directions	10.5 bar (150 psi)
Flow	See performance chart
Internal Leakage	when reseat to 85% of Cracking Pressure: 33 ml/min.
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	10-2, 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

LBRV2 – 10 – * * – * / * * * * – * *

1 2 3 4 5 6

1 Function
LBRV2=Bi-directional Relief Valve

2 Size
10=10 Size

3 Spring Ranges
24=300 to 2400psi(20 to 168bar)
Preset:1000psi(69bar)
30=1450 to 3000psi(100 to 210bar)
Preset:2000psi(138bar)

4 Adjustment
K= 1-1/2"Dia Knob
Omit=1/4"Hex Allen Head

5 Optional Pressure Setting
Omit=Standard Setting
Example:0150=150Bar

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

※See page K-4 for detail of housing
※Other port sizes are available

E

INSTALLATION DIMENSIONS

Unit=Millimeters