## DESCRIPTION

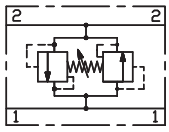
A manifold bi-directional relief valve

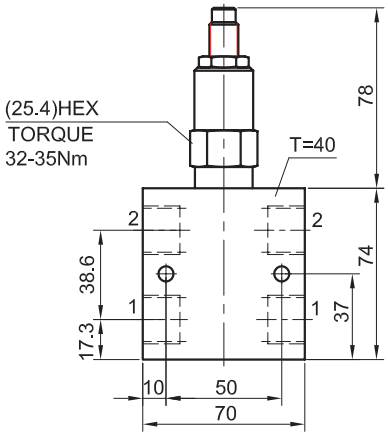
## OPERATION

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.

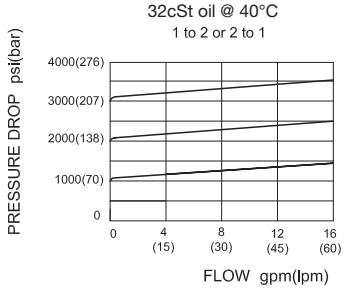
## SYMBOL




## SPECIFICATIONS

| | |
|---|---|
| Operating Pressure | 207bar |
| Standard Spring Ranges | pressure is set at port② , 14 to 168 bar; 100 to 210 bar; |
| 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 80% 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 |

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## TO ORDER

**LBRV2 – 10 – * * – / * * * – 4G4**

1 2 3 4 5 6

**1 Function**
LBRV2=Adjustable,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**
4G4=4 G 1/2

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