LDRB

Direct-acting Relief Valve

DESCRIPTION

A cartridge-style direct-acting relief valve

OPERATION

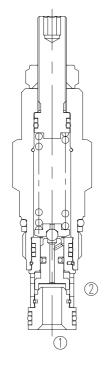
The valve is normally closed, pressure-limiting valves used to protect hydraulic components from pressure transients. When the pressure at the inlet (port 1) reaches the valve setting, the valve starts to open to tank (port 2), throttling flow to limit the pressure rise. These valves are smooth and quiet, essentially zero leak, dirt tolerant, immune to silting and are very fast.

SPECIFICATIONS

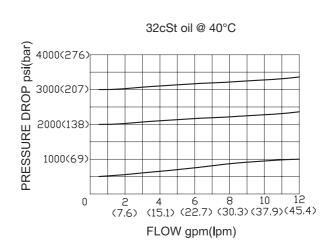
| Operating Pressure | 350bar |
|------------------------------|--|
| Capacity | See PRESSURE DROP VS.FLOW graph |
| Maximum valve leakage at res | eat 10 drops/min |
| Reseat Pressure | >80% of setting pressure |
| Standard Spring Ranges | A 35-210 bar; Preset:70bar |
| | B 20-105 bar; Preset:70bar |
| | C 70-420 bar; Preset:70bar |
| | D 14- 55 bar; Preset:28bar |
| | E 10- 28 bar; Preset:14bar |
| | W 55-315 bar; Preset:70bar |
| | S 3.5- 14 bar; Preset: 7bar |
| 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-162A, See page M-22 |
| Housing Material | Steel & Ductile iron rated to 350bar |

SYMBOL



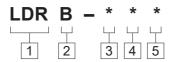


PRESSURE DROP VS.FLOW





TO ORDER



1 Function

LDR=Direct-acting Relief Valve

2 Capacity B=45L/min

3 Control

L=Standard Screw Adjustment

4 Spring Ranges

A=500-3000psi(35-210bar) Preset:1000psi(70bar) B=300-1500psi(20-105bar) Preset:1000psi(70bar) C=1000-6000psi(70-420bar) Preset:1000psi(70bar) D=200-800psi(14-55bar) Preset:400psi(28bar) Preset:200psi(14bar) E=150-400psi(10-28bar) W=800-4500psi(55-315bar) Preset:1000psi(70bar) **S**=50-200psi(3.5-14bar) Preset:100psi(7bar) Factory pressure setting established at 15L/min;

5 Seal Kits

N= Buna N V= Viton

6 Port Size

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

3G=G 3/8

XOther port sizes are available

INSTALLATION DIMENSIONS

Unit=Millimeters

