## **LDRH**

Direct-acting Relief Valve

#### **DESCRIPTION**

# A cartridge-style direct-acting relief valve

#### **OPERATION**

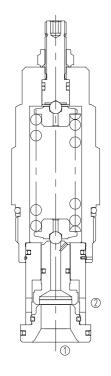
The valve is normally closed, pressure-limiting valves used to protect hydraulic components from pressure transients. When the pressure at the inlet (port 1) reaches the valve setting, the valve starts to open to tank (port 2), throttling flow to limit the pressure rise. These valves are smooth and quiet,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

## **SPECIFICATIONS**

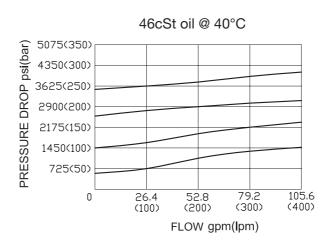
Operating Pressure	350bar
Capacity	See PRESSURE DROP VS.FLOW graph
Maximum valve leakage at rese	eat 10 drops/min
Reseat Pressure	>80% of setting pressure
Standard Spring Ranges	A 35-210 bar; Preset:70bar
	B 20-105 bar; Preset:70bar
	C 70-420 bar; Preset:70bar
	D 14- 55 bar; Preset:28bar
	E 7- 28 bar; 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-16A, See page M-8
Housing Material	Steel & Ductile iron rated to 350bar

## SYMBOL



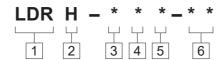


#### PRESSURE DROP VS.FLOW





### **TO ORDER**



1 Function

LDR=Direct-acting Relief Valve

2 Capacity

H=380L/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)
E=100-400psi(7-28bar) Preset:200psi(14bar)
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 12T=SAE12 16T=SAE16 6G=G 3/4 8G=G 1

See page K-14 for detail of housing

**X** Other port sizes are available

## **INSTALLATION DIMENSIONS**

Unit=Millimeters

