

# LDRJ

Direct-acting Relief Valve

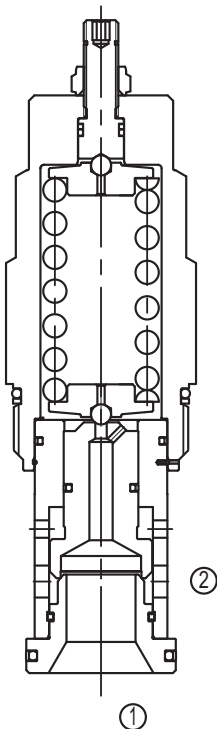
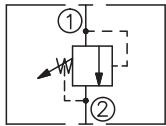
## DESCRIPTION

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.

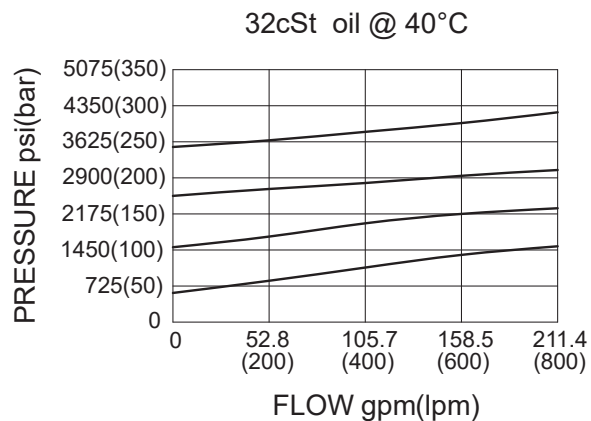
## SYMBOL



## SPECIFICATIONS

Operating Pressure	350bar
Capacity	See PRESSURE DROP VS.FLOW graph.
Maximum valve leakage at reseal	10drops/min
Reseat Pressure	>80% of setting pressure
Standard Spring Ranges	A 35-210bar; Preset 70bar B 20-105bar; Preset 70bar C 70-420bar; Preset 70bar D 14-55bar; Preset 28bar E 7-28bar; Preset 14bar W 55-315bar; Preset 70bar S 3.5-14bar; 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-18A, See page M-8
Housing Material	Steel & Ductile iron rated to 350bar

## PRESSURE DROP VS.FLOW



## TO ORDER

**LDR J - \* \* \* - \* \***  

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**1 Function**  
LDR=Direct-acting Relief Valve

**2 Capacity**  
J=760L/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-33 for detail of housing  
 ※ Other port sizes are available

E

## INSTALLATION DIMENSIONS

Unit=Millimeters

