

LDRV6-10

Direct-acting Differential Area Relief Valve

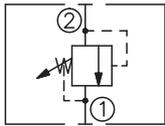
DESCRIPTION

A cartridge-style direct-acting differential area poppet-type relief valve

OPERATION

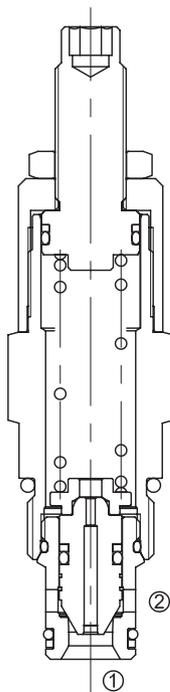
The valve blocks flow from ② to ① until sufficient pressure is present at ② to force the poppet from its seat.

SYMBOL

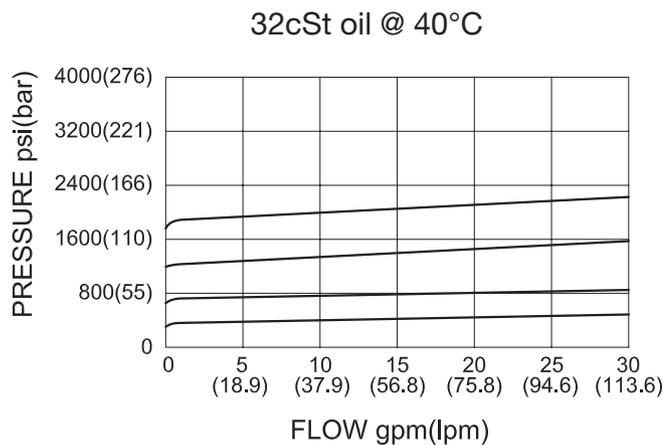


SPECIFICATIONS

Operating Pressure	240bar
Flow	See PRESSURE DROP VS. FLOW graph.
Internal Leakage	5 drops/min max. to 80% of nominal setting
Reseat Pressure	80% of cracking pressure (cracking pressure at 0.95 lpm /0.25 gpm)
Standard Spring Ranges	10.34 to 41.38 bar, preset: 21bar 10.34 to 89.66 bar, preset: 45bar 17.24 to 165.52 bar, preset: 83bar 17.24 to 241.38 bar, preset: 121bar
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

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1 Function

LDRV6 =Direct-acting Differential Area Poppet-type Relief Valve

2 Size

08=08 Size

3 Spring Ranges

6=150-600psi(10.34-41.38bar)

Preset:300psi(21bar)

13=150-1300psi(10.34-89.66bar)

Preset:650psi(45bar)

25=250-2400psi(17.24-165.52bar)

Preset:1200psi(83bar)

35=250-3500psi(17.24-241.38Bar)

Preset:1750psi(121bar)

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=SAE6

6T=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

