LPSRV2-16

Pilot-operated Relief Valve

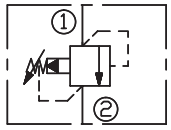
DESCRIPTION

A cartridge-style pilot-operated spool-type relief valve

OPERATION

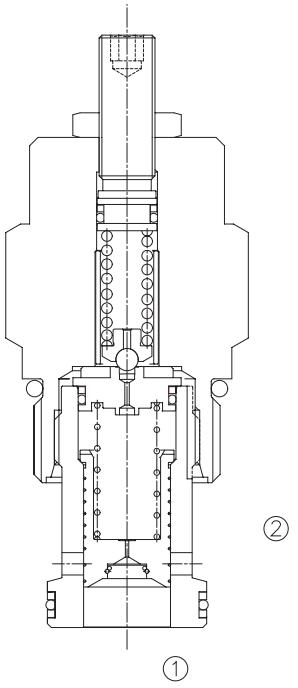
The valve prevents flow from ① to ② until pressure at ① exceeds the set Cracking Pressure and opens the pilot section. The pilot flow creates a pressure differential across the spool which causes the valve to open allowing flow from ① to ② protecting the circuit from over pressurization.

SYMBOL

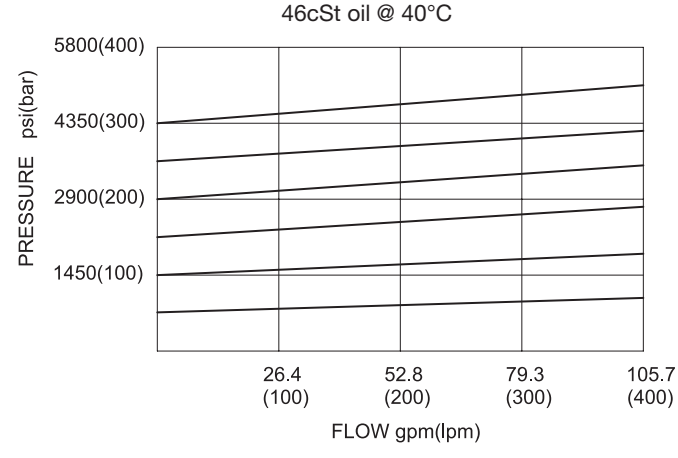


SPECIFICATIONS

Max.Operating Pressure	Port①: 420bar
Max.Pressure Admitted	Port②: 140bar
Flow	See PRESSURE DROP VS. FLOW graph.
Internal Leakage	82 cc/min max. to 80% of nominal setting
Reseat Pressure	85% of cracking pressure(cracking pressure at 0.95 lpm /0.25 gpm)
Standard Spring Ranges	10-210bar Preset:100bar; 10-420bar :200bar;
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	16-2, See page M-2
Housing Material	Steel & Ductile iron rated to 350bar



PRESSURE DROP VS.FLOW



TO ORDER

LPSRV2 – 16 – * * / ** – * ***

1 2 3 4 5

1 Function
LPSRV2=Pilot-operated Spool-type Relief Valve

2 Size
16=16 Size

3 Spring Ranges
30=145-3000psi(10-210bar)
Preset:1450psi(100bar)
60=145-6000psi(10-420bar)
Preset:2900psi(200bar)

4 Optional Pressure Setting
Omit=Standard Setting
Example:0250=250bar

5 Port Size
Omit=None
12T=SAE12
16T=SAE16
6G=G 3/4
8G=G 1

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

E

INSTALLATION DIMENSIONS

Unit=Millimeters