LRSDC

Pilot-operated Sequence Valve
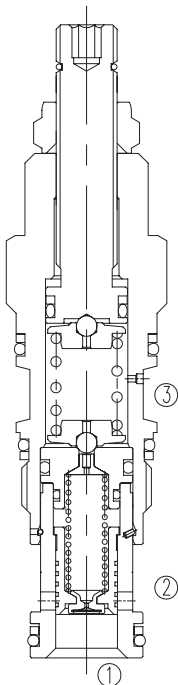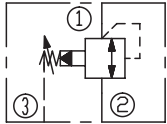
DESCRIPTION

A cartridge-style pilot operated, spool-type sequence valve with internal pilot and spring chamber drain

OPERATION

The valves will supply a secondary circuit with flow once the pressure at the inlet (port ①) has exceeded the valve setting. The pressure setting of a sequence valve controls the pressure at inlet (port ①) relative to the pressure at the drain (port ③). These valves are insensitive to back pressure at port ② , up to the valve setting. They may be used to regulate pressure in place of 2-port relief valves if there is pressure in the return line.
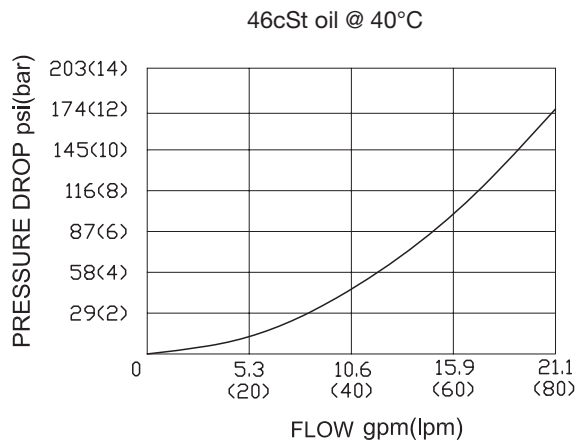
SYMBOL

SPECIFICATIONS

Operating Pressure	350bar
Capacity	See PRESSURE DROP VS.FLOW graph
Internal Leakage	30 cc/min Max. at 70bar.
Standard Spring Ranges	A 7-210 bar; Preset:70bar
	W 10.5-315 bar; Preset:70bar
	B 3.5-105 bar; Preset:70bar
	C 10.5-420 bar; Preset:70bar
	D 1.7- 55 bar; Preset:28bar
	E 1.7- 28 bar; Preset:14bar
	N 4- 55 bar; Preset:28bar
	Q 4- 28 bar; Preset:14bar
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-11A, See page M-6
Housing Material	Steel & Ductile iron rated to 350bar

PRESSURE DROP VS.FLOW

46cSt oil @ 40°C

TO ORDER

LRS * C – * * * – * *

1 2 3 4 5 6

1 Function
LRS=Pilot Operated, Spool-type Sequence Valve

2 Capacity
D=60L/min

3 Control
L= Standard Screw Adjustment

4 Spring Ranges
A=100-3000psi(7-210bar) Preset:1000psi(70bar)
W=150-4500psi(10.5-315bar) Preset:1000psi(70bar)
B=50-1500psi(3.5-105bar) Preset:1000psi(70bar)
C=150-6000psi(10.5-420bar) Preset:1000psi(70bar)
D=25-800psi(1.7-55bar) Preset:400psi(28bar)
E=25-400psi(1.7-28bar) Preset:200psi(14bar)
N=60-800psi(4-55bar) Preset:400psi(28bar)
Q=60-400psi(4-28bar) Preset:200psi(14bar)
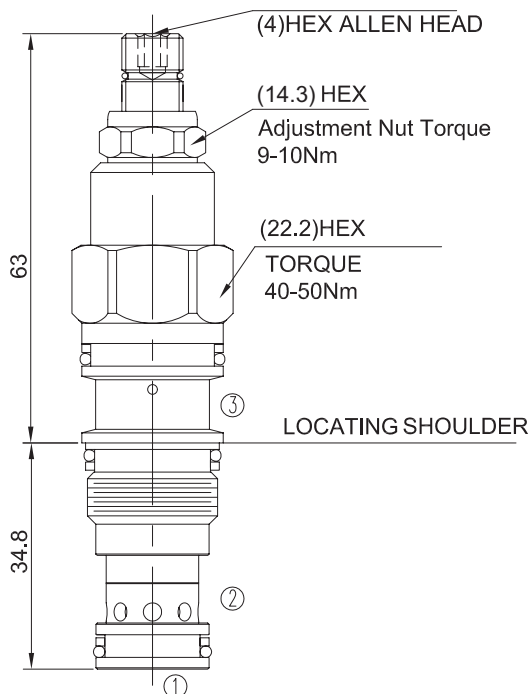Factory Pressure setting established at 15L/min;

5 Seal Kits
N= Buna N
V= Viton

6 Port Size
Omit=None
6T=SAE6
8T=SAE8
3G=G 3/8
4G=G 1/2

※See page K-17－K-22 for detail of housing
※Other port sizes are available

E

INSTALLATION DIMENSIONS

Unit=Millimeters

(4)HEX ALLEN HEAD

(14.3) HEX
Adjustment Nut Torque
9-10Nm

(22.2)HEX
TORQUE
40-50Nm

③

LOCATING SHOULDER

63

34.8

②

①