

LPBDB

Pilot-operated Pressure Reducing Valve

DESCRIPTION

A cartridge-style pilot-operated pressure reducing valve

OPERATION

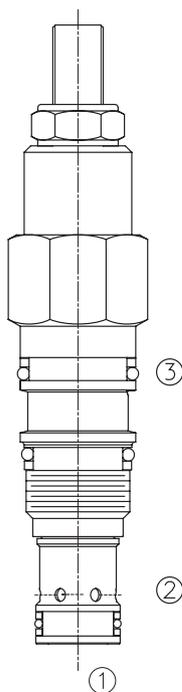
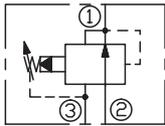
Pilot-operated, pressure reducing valves reduce a high primary pressure at the inlet (port ②) to a constant reduced pressure at port ①, allowing circuits with multiple pressure requirements to be operated using a single pump.

Recommended maximum inlet pressure is determined by the adjustment range. Ranges D, E, N, and Q are tested with a 2000 psi (140 bar) maximum differential between inlet and reduced pressure.

Ranges A and B and are tested with a 3000 psi (210 bar) maximum differential between inlet and reduced pressure.

Ranges C and W are tested with 5000 psi (350 bar) of inlet pressure.

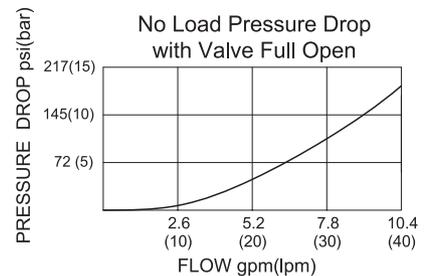
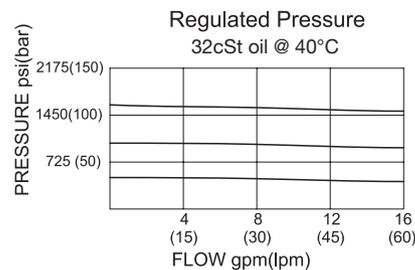
SYMBOL



SPECIFICATIONS

Max. Operating Pressure	350bar
Capacity	See PRESSURE DROP VS. FLOW graph.
Standard Spring Ranges	A: 7-210 bar, preset:14bar B: 3.5-105 bar, preset:14bar N: 4- 55 bar, preset:14bar Q: 4- 28 bar, preset:14bar W:10.5-315 bar, preset:14bar
Additional Options	C:10.5-420 bar, preset:14bar D: 1.7- 55 bar, preset:14bar E: 1.7- 28 bar, preset:14bar G: 4-210 bar, preset:14bar K: 5-105 bar, preset:14bar P: 2.8- 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



TO ORDER

LPB D B - * * * - * *

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|--|---|---|
| <p>1 Function
 LPB=Cartridge-style
 Pilot-operated
 Spool-type Pressure
 Reducing Valve</p> | <p>2 Capacity
 D=40L/min</p> | <p>3 Control
 L= Standard Screw Adjustment</p> |
|--|---|---|

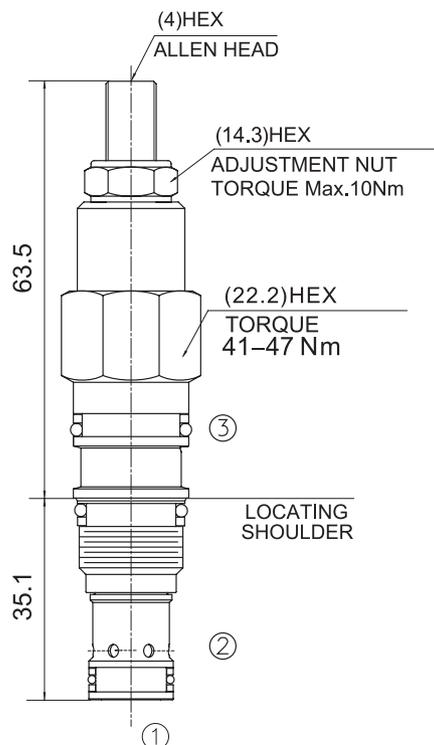
- 4 Spring Ranges**
 A=100-3000psi(7-210bar)
 Preset:200psi(14bar)
 B=50-1500psi(3.5-105bar)
 Preset:200psi(14bar)
 N=60-800psi(4-55bar)
 Preset:200psi(14bar)
 Q=60-400psi(4-28bar)
 Preset:200psi(14bar)
 W=150-4500psi(10.5-315bar)
 Preset:200bar(14bar)

- 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

INSTALLATION DIMENSIONS

Unit=Millimeters



Additional Options:

- C=150-6000psi(10.5-420bar)
 Preset:200psi(14bar)
- D=25-800psi(1.7-55bar)
 Preset:200psi(14bar)
- E=25-400psi(1.7-28bar)
 Preset:200psi(14bar)
- G=60-3000psi(4-210bar)
 Preset:200psi(14bar)
- K=75-1500psi(5-105bar)
 Preset:200psi(14bar)
- P=40-400psi(2.8-28bar)
 Preset:200bar(14bar)