LPD-10-4

Piloted 3-Way Spool Directional Valve

DESCRIPTION

A cartridge-style 3-way pilotoperated spool-type internal-vent directional valve

OPERATION

On no remote pilot signal at ${\bf 1}$,the valve allows flow from ${\bf 3}$ to ${\bf 4}$, while flow is blocked at ${\bf 2}$.

On remote pilot signal at 1, the valve shifts to open from 3 to 2, while blocking flow at 4.

Since ④ is common to the spring chamber, pressure on ④ will directly (1:1) affect the pilot pressure required, and must always be added to the bias spring value.

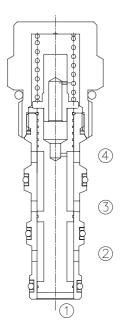
SYMBOL

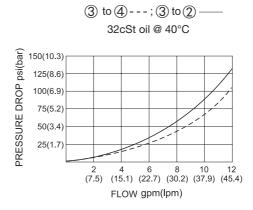


SPECIFICATIONS

Operating Pressure	250bar
Flow	See PRESSURE DROP VS.FLOW graph.
Internal Leakage	82 cc/min max. at 250 bar
Pilot Pressure Required	To Spool Crossover -4.1 bar (60psi) Spring:4.7 bar(68.2psi)
	-7.6 bar(110psi) Spring: 7.6 bar(110psi)
	To Full Spool Shift -4.1 bar (60psi) Spring: 5.2 bar (75psi)
	-7.6 bar(110psi) Spring: 8.6 bar(125psi)
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	10-4, See page M-2
Housing Material	
6061-T6 alumin	num alloy rated to 207bar. Steel & Ductile iron rated to 350bar

PRESSURE DROP VS.FLOW







TO ORDER

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1 Function

LPD=Piloted Three-way Spool Directional Valve

2 Size

10-4=10-4 Size

3 Bias spring

6=60psi(4.1bar)

11=110psi(7.6bar)

17=170psi(11.7bar)

20=203psi(14bar)

4 Port Size

Omit=None

6T=SAE6

8T=SAE8

2G=G 1/4

3G=G 3/8

See page K-6 for detail of housing

XOther port sizes are available

INSTALLATION DIMENSIONS

Unit=Millimeters

