

LPD2-10-35

Piloted 2-Way Spool
Directional Valve

DESCRIPTION

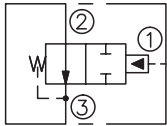
A cartridge-style 2-way pilot-operated spool-type directional valve

OPERATION

Unpiloted, the valve allows flow between ② and ③ . The spring bias chamber is internally vented to ③ . On remote pilot signal at ① , the valve shifts to close ② to ③ bidirectionally.

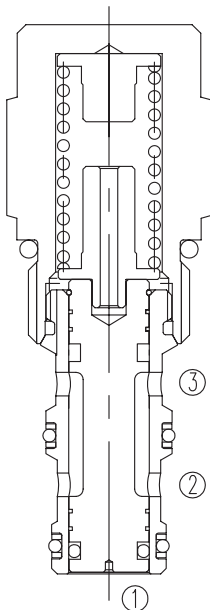
Note: Back pressure at ③ will increase the pilot pressure required at 1 to shift, at a ratio of 1:1. Consult factory for applications where bi-directional flow is required when the valve is in the normal or spring-offset position.

SYMBOL

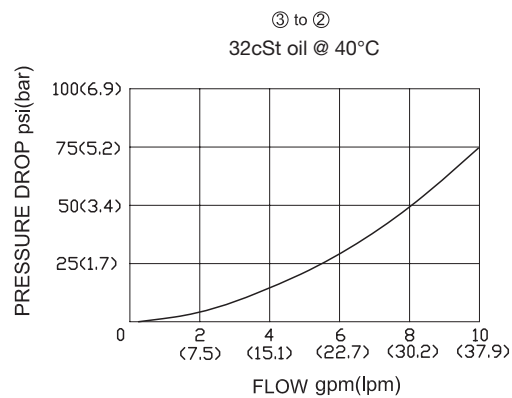


SPECIFICATIONS

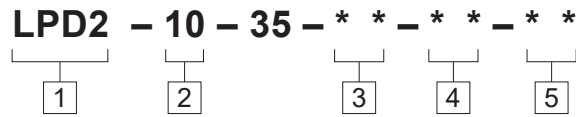
Operating Pressure	240bar
Flow	See PRESSURE DROP VS.FLOW graph.
Internal Leakage	82cc/min max. at 240bar
Pilot Pressure Required	To Full Spool Shift for 4.1bar spring 4.7bar for 7.6bar spring 8.6bar
Temperature	-40°F to +250°F(-40°C to +120°C)
Filtration	See page N-1
Fluids	Mineral-based fluids with viscosities of 7.4 to 420 cSt.
Cavity	10-3,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



1 Function
 LPD2=Piloted Two-way Spool
 Directional Valve

2 Size
 10=10 Size

3 Bias Spring
 4=40psi(2.8bar)
 6=60psi(4.1bar)
 11=110psi(7.6bar)
 17=170psi(11.7bar)

4 Seal Kits
 N=Buna N(Std)
 NS=Buna N with sealed piston
 110psi(7.6bar)minimum spring
 V=V-Fluorocarbon
 VS=VS-Fluorocarbon with sealed piston
 110psi(7.6bar)minimum spring

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

※ See page K-5 for detail of housing
 ※ Other port sizes are available

D

INSTALLATION DIMENSIONS

Unit=Millimeters

