

# LPD2-10-30

Piloted 2-Way Spool  
Directional Valve

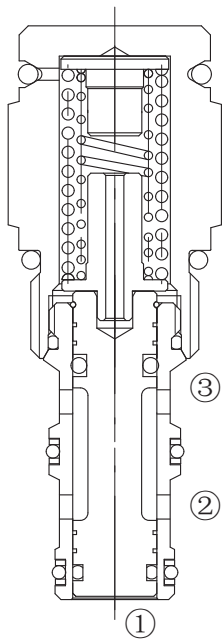
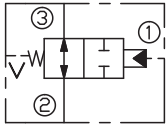
## DESCRIPTION

A cartridge-style, pilot-operated, spool-type, normally open, hydraulic directional valve

## OPERATION

In neutral position (unpiloted), the valve allows flow from port ③ to ② bidirectionally. The spring chamber is vented to atmosphere which is internally O-ring sealed from the cartridge flow paths. On remote pilot signal at port ①, the valve's spool shifts to block flow from port ③ to ② bidirectionally. Because of the vented spring chamber, the cartridge may be fully pressurized at any port without affecting required pilot pressure.

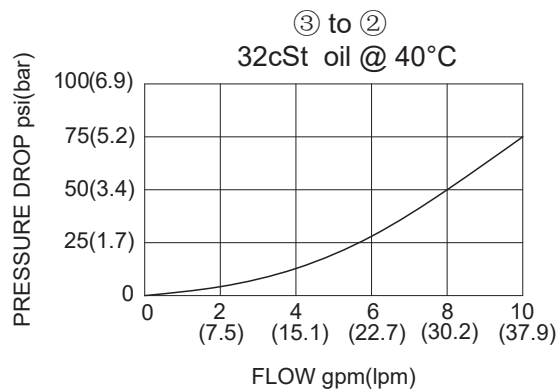
## SYMBOL



## SPECIFICATIONS

Max. 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=10Size

**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)minumun spring  
 V= V-Fluorocarbon  
 VS= Fluorocarbon with sealed piston  
 110psi(7.6bar)minumun 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

