# LPFR-10

Adjustable Pressure-compensated Flow Control Valve

## DESCRIPTION

A cartridge-style adjustable pressure-compensated flow control valve

### OPERATION

The valve maintains a constant flow rate from ③ regardless of load pressure changes in the system downstream of ③, or in the bypass leg at ②. The valve will pressurecompensate once a minimum pressure drop (determined by spring adjustment setting) is achieved from ① to ③. This value will range from approximately 4.8 to 13.8 bar (70 to 200 psi). Bypass port ② may be fully pressurized.

The cartridge may be adjusted to  $\pm 25\%$  of nominal setting. At nominal setting, pressure drop is approximately 9 bar (130 psi).

Flow out of priority port ③ may vary based on input flow amount, particularly with lower temperatures and increased fluid viscosities.

## SYMBOL

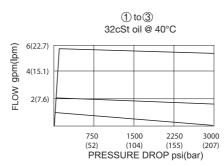


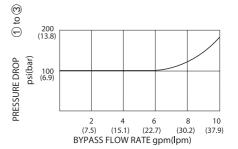
#### SPECIFICATIONS

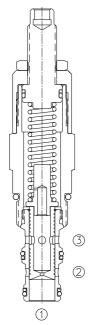
Operating Pressure	207bar	
Flow Setting	low range: 1.9 to 9.5 lpm (0.5 to 2.5 gpm)	
	Specify in 1.9 lpm (0.5 gpm) increments	
	high range: 11.4 to 22.7 lpm (3.0 to 6.0 gpm)	
	Specify in 3.8 lpm(1gpm) increments	
Temperature	-40°F to +250°F(-40°C to +120°C)	
Filtration	See page N-1	
Fluids	Mineral-based 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









If flow to port ③ is shut off, flow to port ② will be shut off



#### **TO ORDER**

LPFR - 10 - * / * * - * *			
1 Function 4   LPFR=Adjustable Pressure-compensated 4   Flow Control Valve 4   2 Size   10=10 Size	4 Optional Flow Setting   0.5=1.42 to 2.37lpm   1.0=2.84 to 4.73lpm   2.0=5.68 to 9.46lpm   2.5=7.08 to 11.81lpm   3.0=8.52 to 14.19lpm   4.0=11.35 to 18.93lpm   5.0=14.19 to 23.66lpm   6.0=17.03 to 28.93lpm	5 Port Size Omit=None 6T=SAE6 8T=SAE8 2G=G 1/4 3G=G 3/8	
3 Adjustment K= 1-1/2"Dia Knob Omit= 1/4" Hex Allen Head		<ul><li>See page K-5 for detail of housing</li><li>Other port sizes are available</li></ul>	

#### **INSTALLATION DIMENSIONS**

Unit=Millimeters

