

LFR-10-3C

Adjustable Pressure-compensated
Flow Control Valve

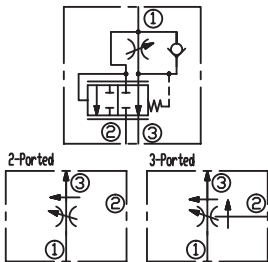
DESCRIPTION

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. Reverse flow (③ to ①) bypasses the control orifice. Bypass port ② may be fully pressurized. The regulated flow increases from closed to fully open, with counter-clockwise rotation of the knob.

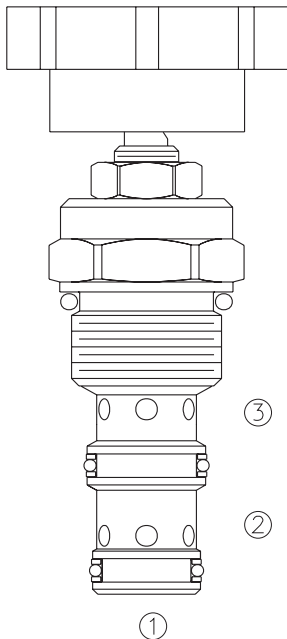
SYMBOL



SPECIFICATIONS

Operating Pressure	240 bar
Flow	See PRESSURE DROP VS.FLOW graph.
Flow Setting	3-ported regulated flow: 0-13 lpm 2-ported regulated flow: 0-12 lpm
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

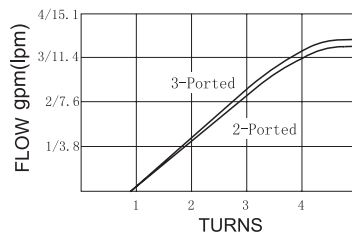
PRESSURE DROP VS.FLOW



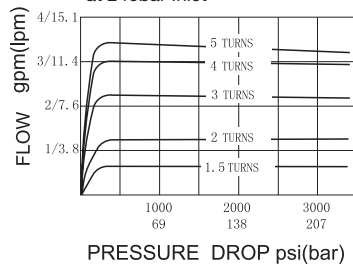
If flow to port ③ is shut off,
flow to port ② will be shut off

Regulated Flow vs. Turns [32cSt oil @ 40°C]

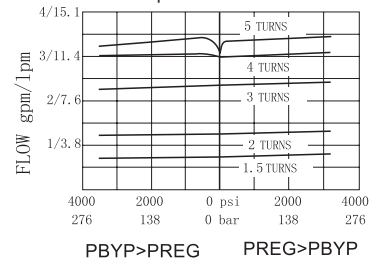
103bar at Port③
2-Ported: at 123bar inlet pressure
3-Ported: at 19lpm inlet flow



2-Ported
Regulated Flow vs. Pressure Drop
at 240bar Inlet



3-Ported
Regulated Flow vs. Load
at 18.9 lpm Inlet



TO ORDER

LFR - 10 - 3C - * - * *

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1 Function
LFR=Adjustable Pressure-compensated Flow Control Valve

2 Size
10=10 Size

3 Optional Flow Setting
3C=Adjustable Orifice

4 Adjustment
K=Plastic Knob
Omit=3/16" Hex Allen Head

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

F

INSTALLATION DIMENSIONS

Unit=Millimeters

