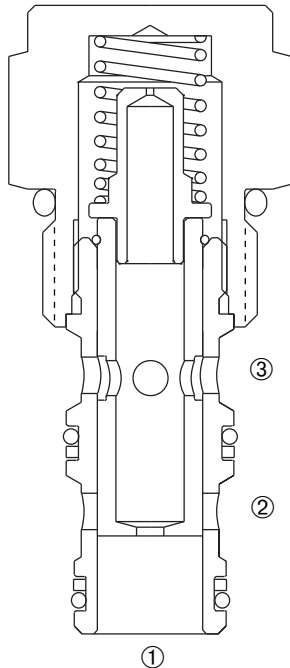
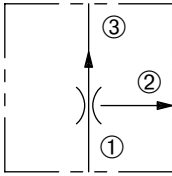


# DFR-100-3

Fixed, Bypass-Type, Pressure-Compensated  
Flow Regulator Valve

## SERIES 10



### DESCRIPTION

A fixed bypass-type cartridge valve designed to regulate priority flow while bypassing excess flow regardless of load pressure.

### OPERATION

The DFR-100-3 maintains a constant flow within specified accuracies from ① to ③ regardless of downstream load pressure at ③ or bypass leg ②. When flow produces a minimum predetermined pressure differential across the compensator spool control orifice, the spool shifts against the spring force to throttle the flow and maintain the priority flow setting. Reserve flow is not regulated.

### FEATURES and BENEFITS

- Pressure-compensated.
- Quiet response.
- Bypass port ② may be fully pressurized.
- Industry common cavity.
- Compact size.

### SPECIFICATIONS

**Operating Pressure:** 3000 PSI (207 Bar). A minimum pressure differential of 100 PSID is required to operate valve.

**Flow:** Ranges from 1 to 6 gpm (3.8 to 22.7 L/min.)  
10 gpm (37.9 L/min.) max. input.  
(See ordering table)

**Flow Tolerances:** Flows up to and including  
1.5 gpm (5.7 L/min.)  $\pm 15\%$   
Flows over 1.5 gpm (5.7 L/min.)  $\pm 10\%$

**Temperature:**  $-30^{\circ}\text{F}$  to  $+250^{\circ}\text{F}$  ( $-35^{\circ}\text{C}$  to  $+120^{\circ}\text{C}$ )

**Recommended Filtration:** ISO 17/15/13

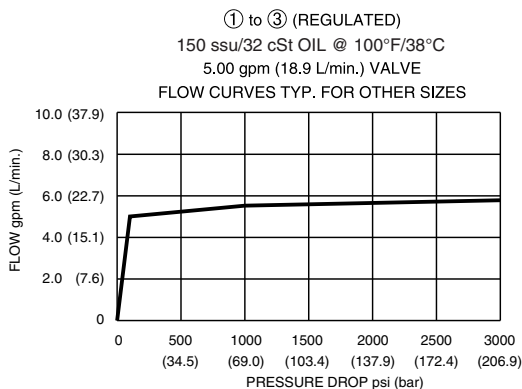
**Fluids:** Mineral-based fluids.

For other fluid compatibility consult factory.

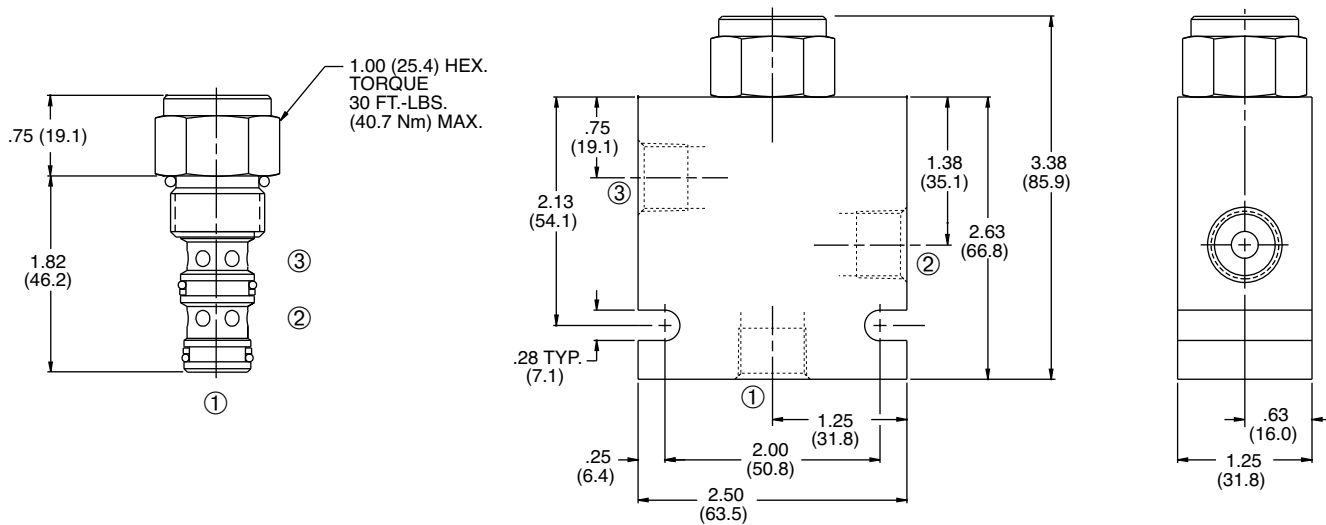
**Cavity/Cavity Tool:** 100-3, see page 11.10.3

**In-Line Body Material:** Anodized 6061T6 aluminum alloy rated at 3000 PSI (207 Bar).

### PRESSURE DROP VS. FLOW

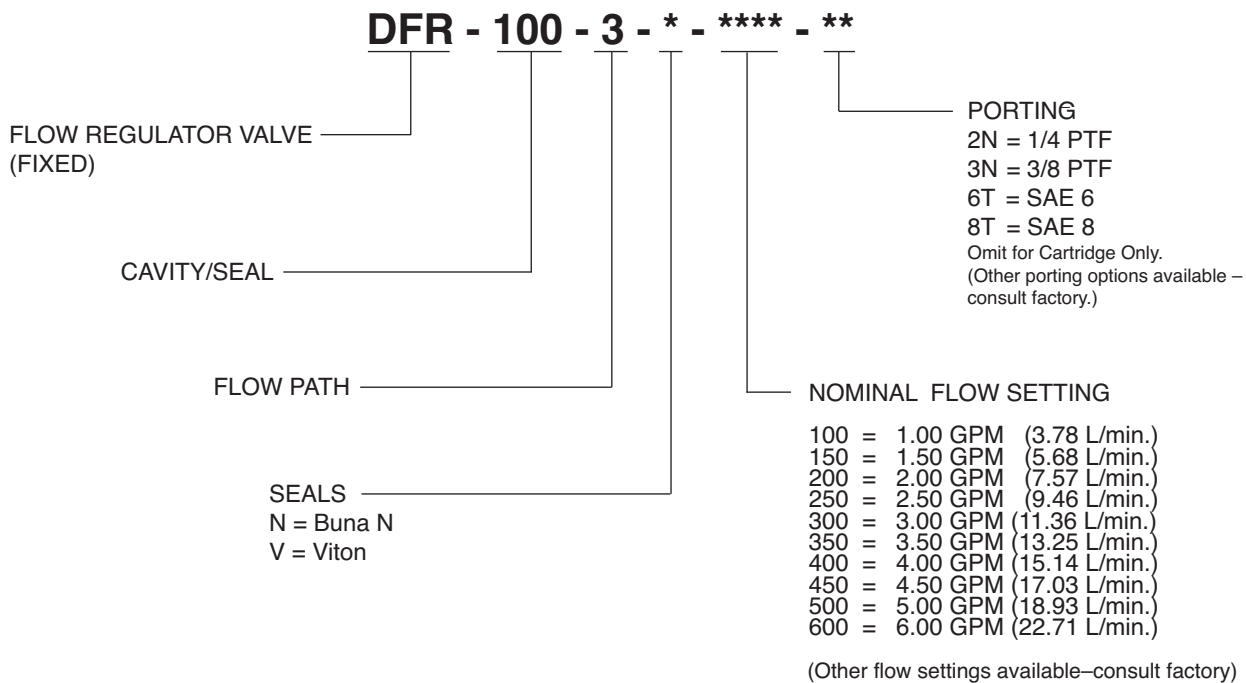


## INSTALLATION DIMENSIONS



( ) Parentheses = Millimeters

## HOW TO ORDER



SOLENOID  
CHECK  
MOTION CONTROL  
FLOW CONTROL  
RELIEF  
PRESSURE CONTROL  
SEQUENCE  
SHUTTLE  
DIRECTIONAL VALVES  
ACCESSORIES  
TECHNICAL DATA