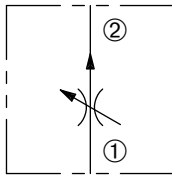


# DFRA-100-2

Adjustable, Pressure-Compensated  
Flow Regulator Valve

## SERIES 10

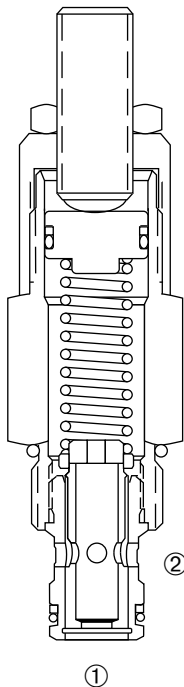


### DESCRIPTION

An adjustable cartridge valve designed to regulate flow regardless of load pressure. This valve is a restrictive-type flow regulator designed for a wide variety of flow applications.

### OPERATION

The DFRA-100-2 maintains a constant flow within specified accuracies from ① to ② regardless of downstream load pressure. 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 flow setting. The cartridge's flow may be adjusted - 50% of maximum setting. Reverse flow is not regulated.



### FEATURES and BENEFITS

- Pressure-compensated.
- Quiet response.
- Hidden adjustment (tamper resistant) option.
- Aluminum knob and disc nut option.
- Adjustable flow - 50% of maximum setting.
- Adjustment may be locked in place.
- Industry common cavity.
- Compact size.

### SPECIFICATIONS

**Operating Pressure:** 3000 PSI (207 Bar).

**Flow:** Ranges from 1 to 10 gpm (3.8 to 37.9 L/min.)

(See ordering table)

Flow may be adjusted -50% of maximum setting.

**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° F to +250° F (-35°C to +120° C)

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

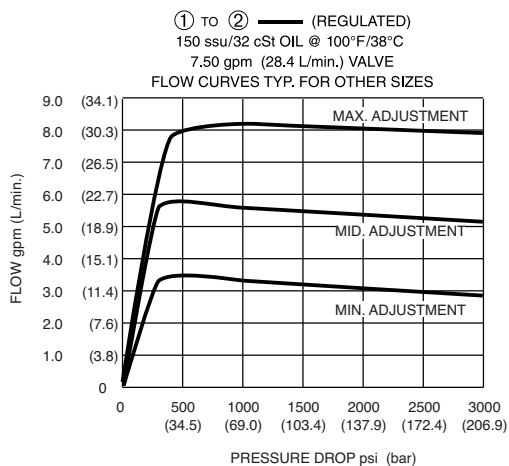
**Fluids:** Mineral-based fluids.

For other fluid compatibility consult factory.

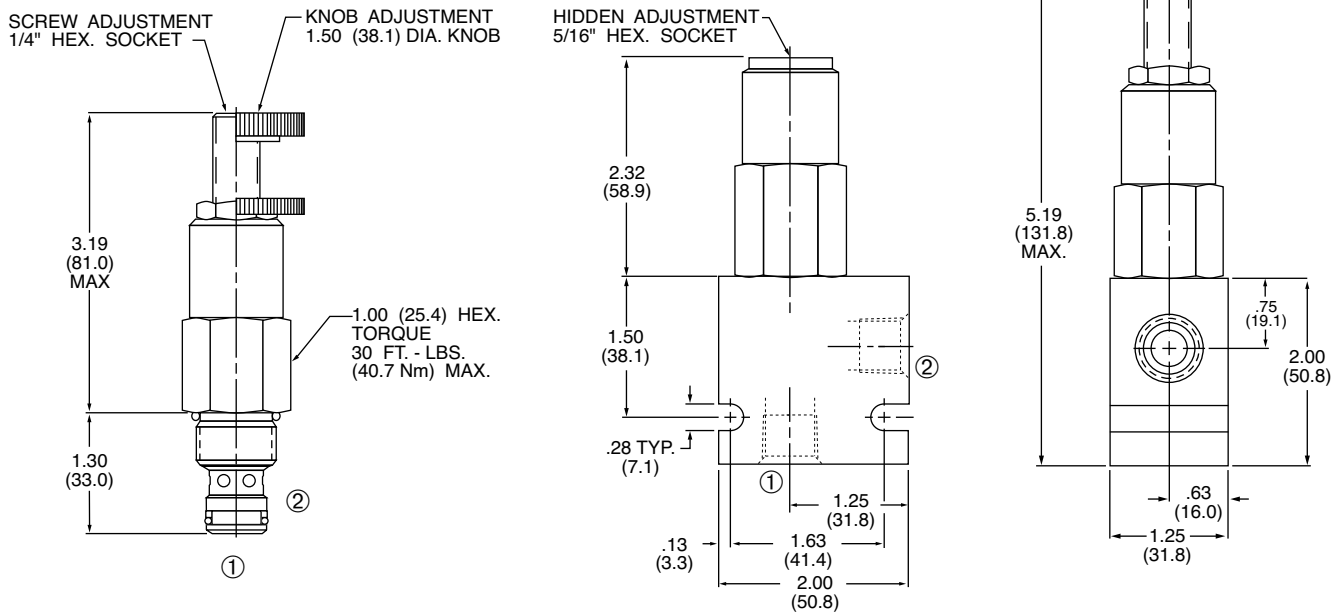
**Cavity/Cavity Tool:** 100-2, see page 11.10.2

**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

**DFRA - 100 - 2 - \* - \* - \*\*\*\* - \*\***

FLOW REGULATOR VALVE  
(ADJUSTABLE)

CAVITY/SEAL

FLOW PATH

SEALS  
N = Buna N  
V = Viton

ADJUSTMENT STYLE  
H = Hidden  
K = Knob  
S = Screw

PORTING

2N = 1/4 PTF  
3N = 3/8 PTF  
6T = SAE 6  
8T = SAE 8

Omit for Cartridge Only.  
(Other porting options available –  
consult factory.)

MAXIMUM FLOW SETTING

100 = 1.00 GPM (3.79 L/min.)  
150 = 1.50 GPM (5.68 L/min.)  
200 = 2.00 GPM (7.57 L/min.)  
300 = 3.00 GPM (11.36 L/min.)  
500 = 5.00 GPM (18.93 L/min.)  
750 = 7.50 GPM (28.39 L/min.)  
1000 = 10.00 GPM (37.85 L/min.)

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