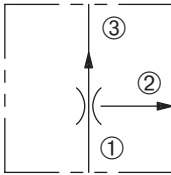


DFR-100-3

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.

SPECIFICATIONS

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

Flow: Ranges from 0.75 to 6 gpm (2.8 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° F to +250° F (-35°C to +120° C)

Recommended Filtration: ISO 17/15/13

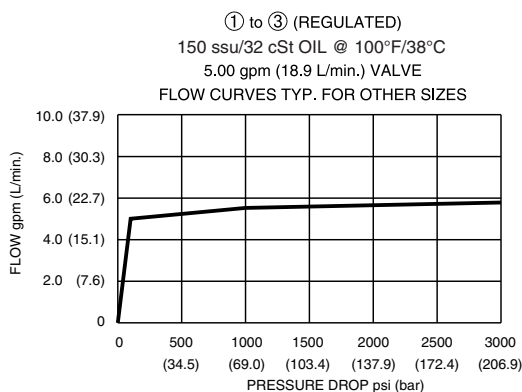
Fluids: Mineral-based fluids.

For other fluid compatibility consult factory.

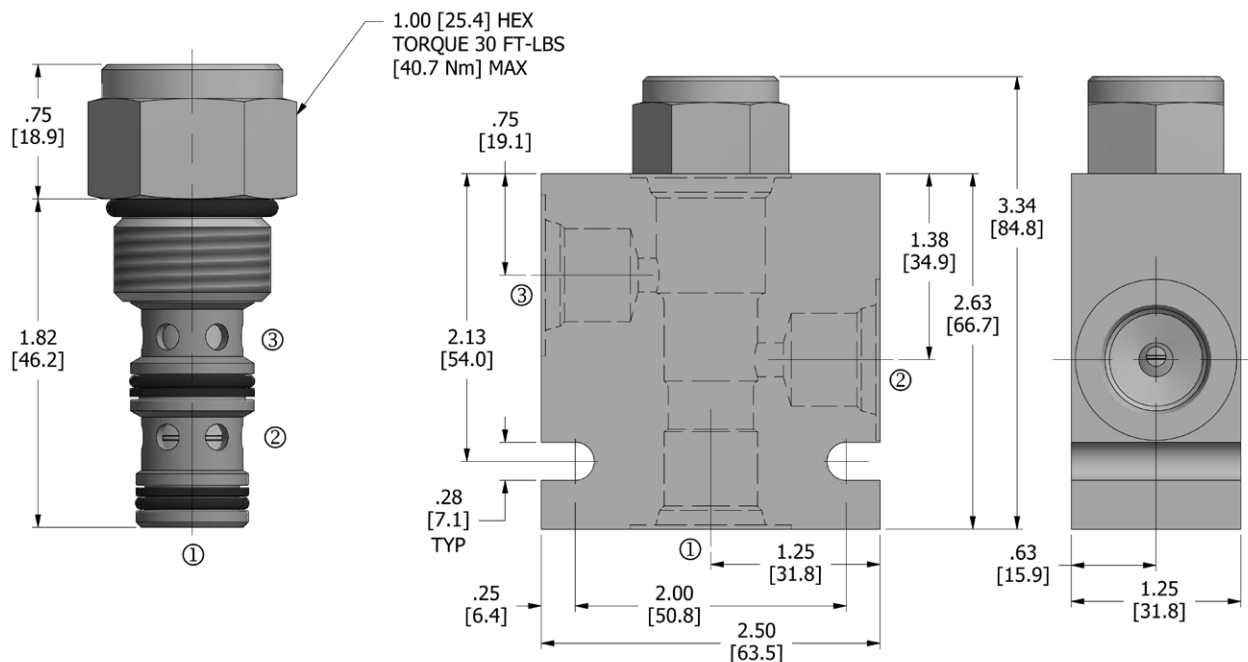
Cavity/Cavity Tool: 100-3, see page 11.10.3

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

PRESSURE DROP VS. FLOW



DIMENSIONS Inches [Millimeters]



HOW TO ORDER

DFR	-	100	-	3	-	*	-	***	-	**
Flow Regulator Valve (Fixed)		Cavity		Flow Path		Seals		Flow		Porting

Seals		Seal Kit
N	Buna N	DSK-100-3-N-C
V	Viton	

Flow - Nominal [†]	
075	0.75 gpm (2.84 lpm)
100	1.00 gpm (3.79 lpm)
150	1.50 gpm (5.68 lpm)
200	2.00 gpm (7.57 lpm)
250	2.50 gpm (9.46 lpm)
300	3.00 gpm (11.36 lpm)
350	3.50 gpm (13.25 lpm)
400	4.00 gpm (15.14 lpm)
450	4.50 gpm (17.03 lpm)
500	5.00 gpm (18.93 lpm)
600	6.00 gpm (22.71 lpm)

Porting [†]		In-Line Body w/o Cartridge
omit	Cartridge only	
2N	1/4 PTF	B-100-3-2N
3N	3/8 PTF	B-100-3-3N
6T	SAE 6	B-100-3-6T
8T	SAE 8	B-100-3-8T

[†] Other options available – consult factory

All variations may not be configurable. Minimum order quantities may be required on other models. Contact Deltrol Fluid Products for complete details.