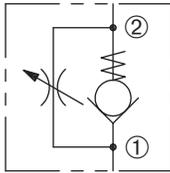


DFC-100

Adjustable, Flow Control Valve

SERIES 10

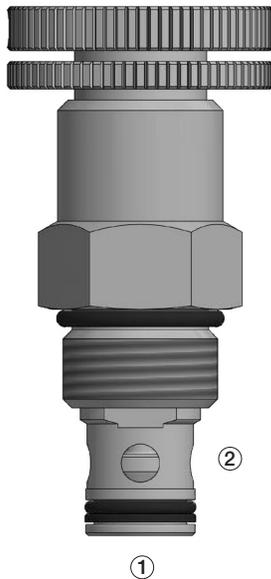


DESCRIPTION

A cartridge valve designed to provide variable flow restriction in one direction with free flow in the opposite direction.

OPERATION

The DFC-100 varies flow restriction by adjusting needle in or out. Flow is metered from ② to ①. Free reverse flow is from ① to ②.



FEATURES and BENEFITS

- Hardened poppet and seat for long life.
- Aluminum knob and disc nut.
- Full range of adjustments.
- Adjustment may be locked in place.
- Industry common cavity.

SPECIFICATIONS

Operating Pressure: 3000 psi (207 bar)

Flow: 20 gpm (75.7 lpm) max. recommended input.

Temperature: -30° F to +250° F (-35°C to +120° C)

Recommended Filtration: ISO 20/18/14

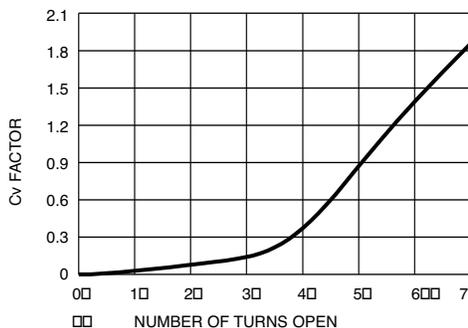
Fluids: Mineral-based fluids.

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).

CV FACTOR VS. TURNS

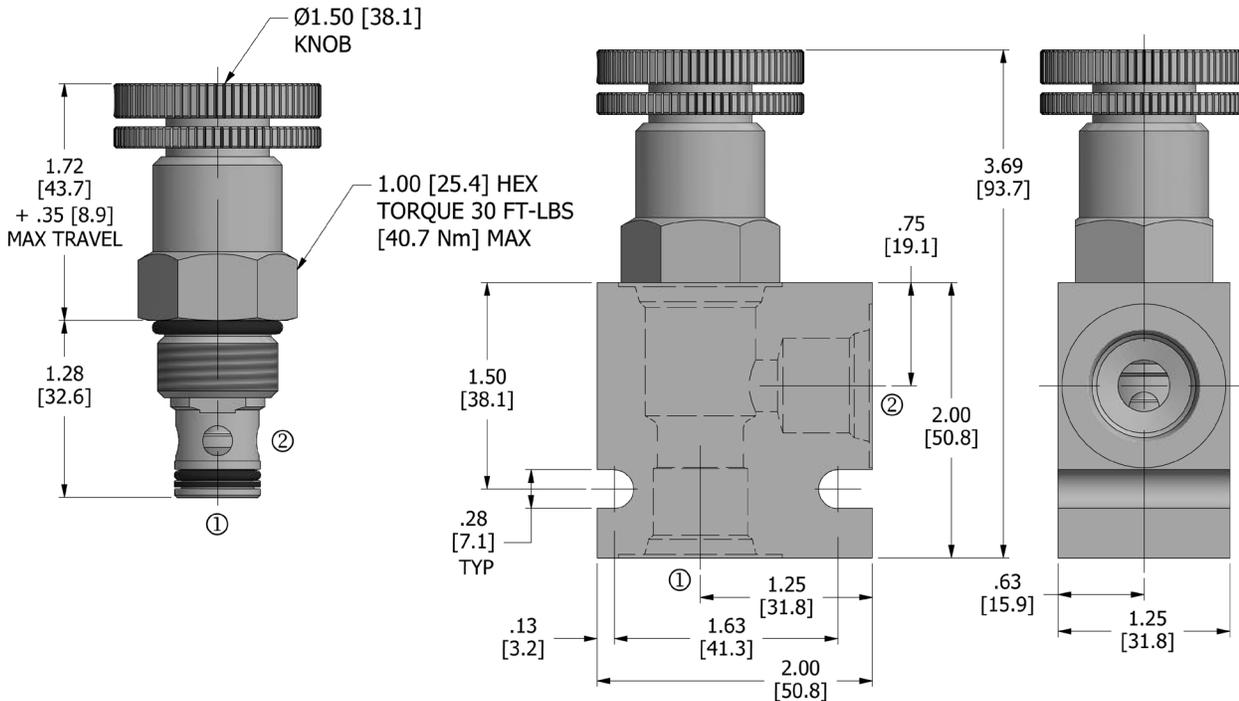


$$\text{FLOW IN GPM} = C_v \sqrt{\frac{P_1 - P_2}{G_f}}$$

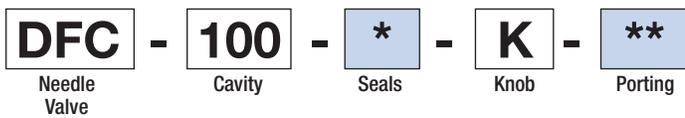
C_v = Flow Coefficient
 P_1 = Inlet Pressure (psi)
 P_2 = Outlet Pressure (psi)

G_f = specific gravity of medium at operating temperature in °F.

DIMENSIONS Inches [Millimeters]



HOW TO ORDER



Seals		Seal Kit
N	Buna N	DSK-100-2-N-A
V	Viton	DSK-100-2-V-A

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

[†] Other options available – consult factory

Valve and In-Line Body are supplied individually and need to be assembled. For a completed assembly consult the factory.

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