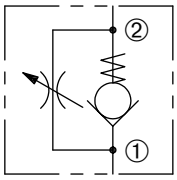
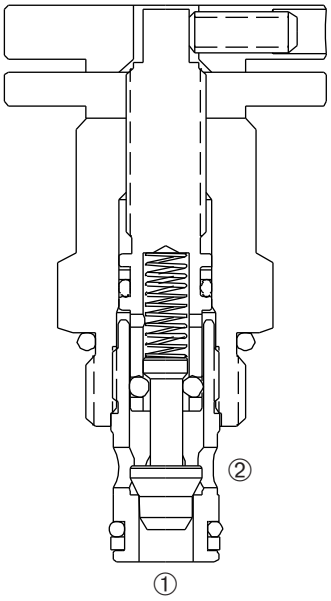
DFC-080

Adjustable,
Flow Control Valve

Deltrol FLUID PRODUCTS

SERIES 8





DESCRIPTION

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

OPERATION

The DFC-080 varies flow restriction by adjusting needle in or out. Flow is metered from ② to ①. Free reverse flow is from ① to ②.

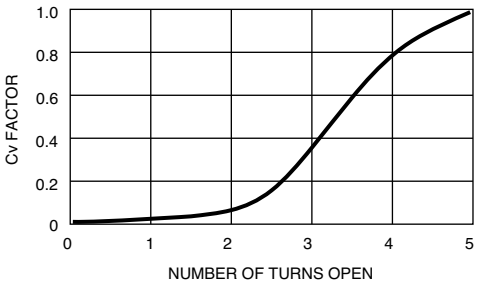
FEATURES and BENEFITS

- 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.
- Compact size.

SPECIFICATIONS

Operating Pressure: 3000 PSI (207 Bar)
Flow: 10 gpm (37.9 L/min.) 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: 080-2, see page 11.08.2
In-Line Body Material: Anodized 6061T6 aluminum alloy rated at 3000 PSI (207 Bar).

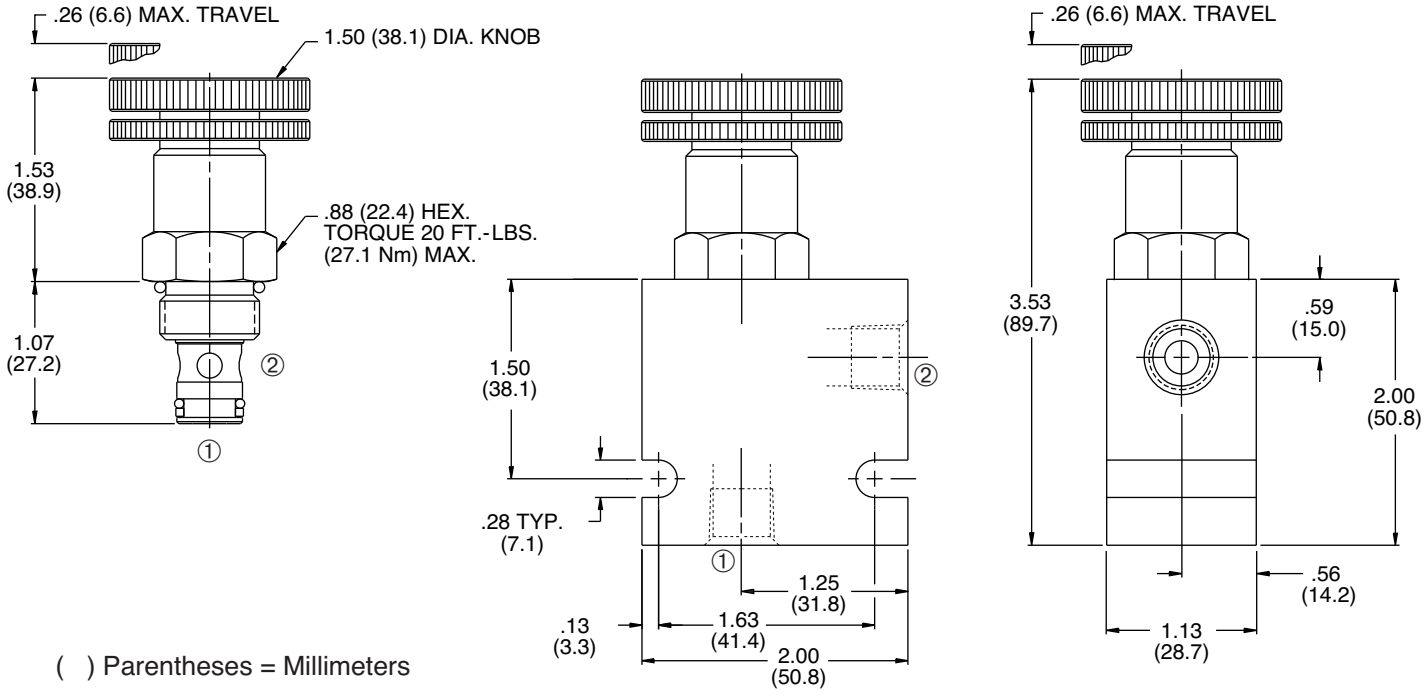
CV FACTOR VS. TURNS OPEN



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

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.

INSTALLATION DIMENSIONS



( ) Parentheses = Millimeters

HOW TO ORDER

DFC - 080 - * - K - **

NEEDLE VALVE

CAVITY/SEAL

SEALS
N = Buna N
V = Viton

K = Knob

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.)