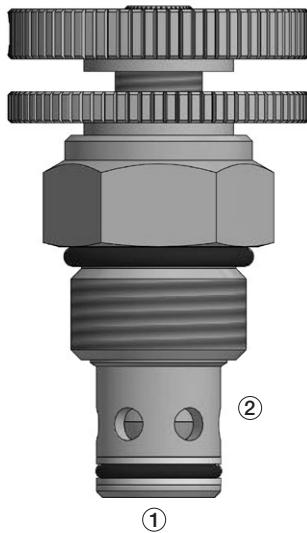
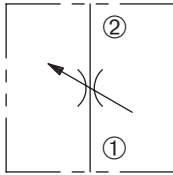


DNV-100

Adjustable,
Needle Valve

SERIES 10



DESCRIPTION

A cartridge valve designed to provide a variable flow restriction with positive shut-off.

OPERATION

The DNV-100 varies flow restriction by adjusting needle in or out and will shut off when fully closed. This valve will meter flow in either direction.

FEATURES and BENEFITS

- Hardened seat for long life.
- Low leakage at shut-off.
- Aluminum knob and disc nut.
- Full range of adjustments.
- Adjustment may be locked in place.
- Positive shut-off.
- Industry common cavity.

SPECIFICATIONS

Operating Pressure: 3000 PSI (207 Bar)

Flow: 12 gpm (45.4 L/min.) Max. recommended input.

Internal Leakage: 2 drops/min. max. at 3000 PSI (207 Bar) at shut-off.

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

Recommended Filtration: ISO 20/18/14

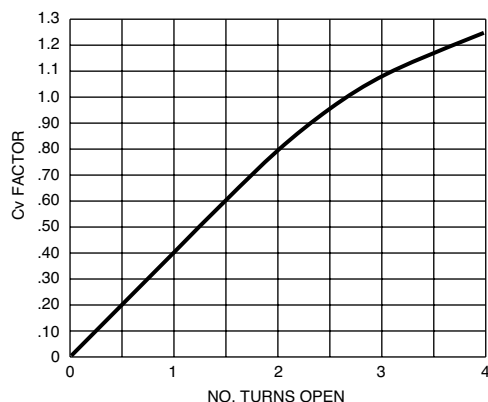
Fluids: Mineral-based fluids.

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).

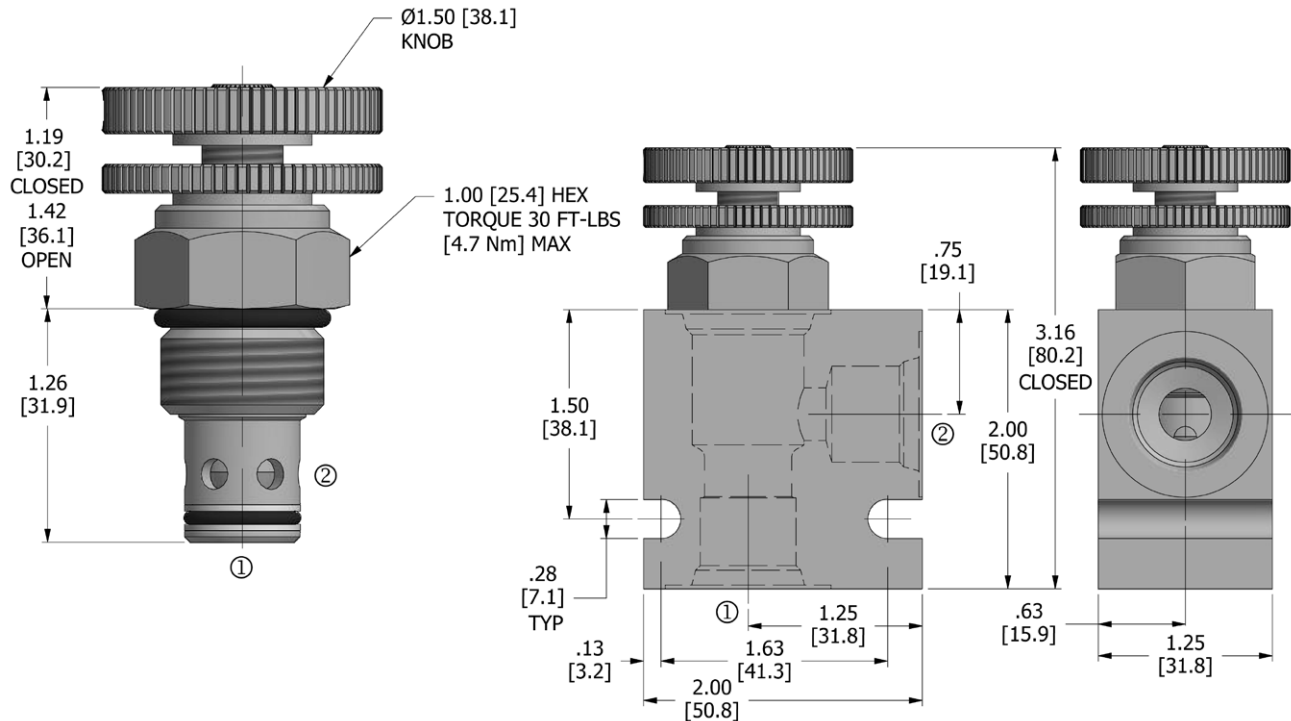
CV FACTOR VS. TURNS OPEN



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

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.

DIMENSIONS Inches [Millimeters]



HOW TO ORDER

DNV - **100** - ***** - **K** - ******

Needle Valve Cavity Seals Knob Porting

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

Porting [†]		In-Line Body w/o Cartridge
omit	Cartridge only	
2N	1/4 PTF	B-100-24-2N
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

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