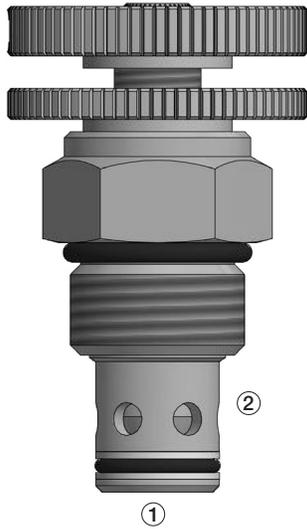
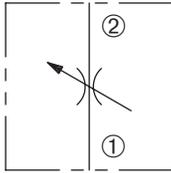


# DNV-100

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.

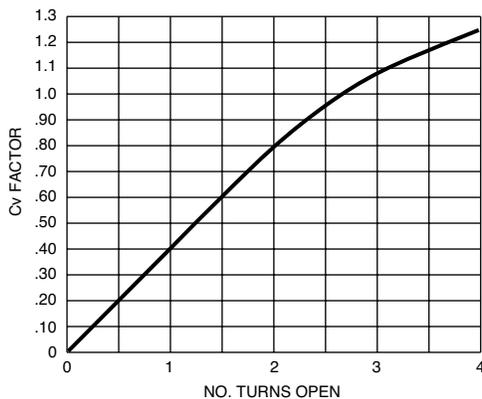
### FEATURES and BENEFITS

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

### SPECIFICATIONS

**Operating Pressure:** 3000 psi (207 bar)  
**Flow:** 12 gpm (45.4 lpm) 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.

