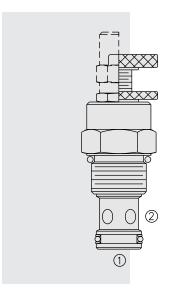
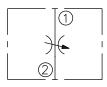
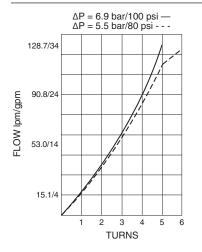
# NV12-20 Needle Valve



## ISO SYMBOL



## PERFORMANCE (Cartridge Only)



## DESCRIPTION

A screw-in, cartridge-style, variable orifice, hydraulic flow restrictor valve.

## OPERATION

The **NV12-20** increases the size of its orifice from fully closed to fully open with counterclockwise adjustment rotation.

## FEATURES

- Adjustments cannot be backed out of the valve.
- Desired settings may be locked down.
- Hardened parts for long life.
- Cost-effective cavity.
- Variety of adjustment options available.
- Positive shut-off.
- Linear adjustment.

## RATINGS

Operating Pressure: 240 bar (3500 psi)

Proof Pressure: 345 bar (5000 psi)

Burst Pressure: 896 bar (13000 psi)

Flow: 113.6 lpm (30 gpm) nominal at 7 bar (100 psi) at full open 4.5 turns

Internal Leakage: 0.15 ml/minute (3 drops/minute) max. at shut-off

Adjustment Torque Required: 0.17 Nm (1.5 lb.-in.) at 7 bar (100 psi); 16.9 Nm (150 lb.-in.) at 207 bar (3000 psi)

Temperature: -40 to 100°C (-40 to 212°F) with Buna N seals;

- -26 to 204°C (-15 to 400°F) with Fluorocarbon seals;
- -54 to 107°C (-40 to 149°F) with Polyurethane seals;

-40 to 149°C (-40 to 300°F) with HNBR seals.

### Filtration: See page 9.010.1

Fluids: Mineral-based or synthetics with lubricating properties at viscosities of

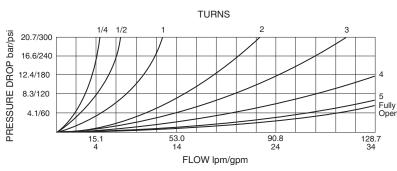
7.4 to 420 cSt (50 to 2000 sus); See Temperature and Oil Viscosity, page 9.060.1

Installation: No restrictions; See page 9.020.1

Cavity: VC12-2; See page 9.112.1

Cavity Tool: CT12-2XX; See page 8.600.1

Seal Kit: SK12-2X-M-115; See page 8.650.1

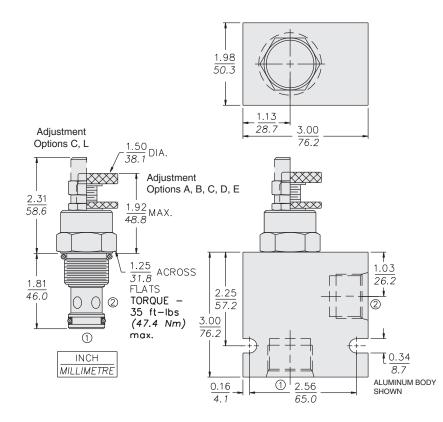


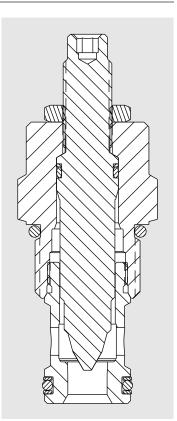
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### DIMENSIONS





#### MATERIALS

Cartridge: Weight (with Adjustment Option A: 0.32 kg (0.70 lb) Steel with hardened work surfaces. Zinc-plated exposed surfaces. Buna N O-rings and polyester elastomer back-ups standard. Anodized aluminum knobs.

(1.25 lb) Anodized high-strength aluminum alloy, rated to 207 bar (3000 psi). Ductile iron bodies available; dimensions may differ. See page 8.012.1

#### **TO ORDER**

