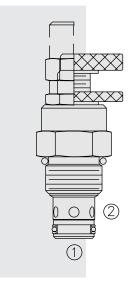
# NV10-20 Needle Valve



## SYMBOLS

#### **USASI/ISO:**



## DESCRIPTION

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

### OPERATION

The **NV10-20** increases its orifice value 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.
- · Industry common cavity.
- Aluminum knob option.
- Positive shut-off.
- Linear adjustment.

### RATINGS

Operating Pressure: 240 bar (3500 psi)

Flow: 45 lpm (12 gpm) nominal at 7 bar (100 psi) at full open 3.5 turns Internal Leakage: 0.25 cc/minute (5 drop/minute) max. at shut-off

Adjustment Torque Required: 0.56 Nm (5 inch-pounds) at 7 bar (100 psi); 5.41Nm (48 inch-pounds) at 207 bar (3000 psi)

Temperature: -40 to 120°C

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

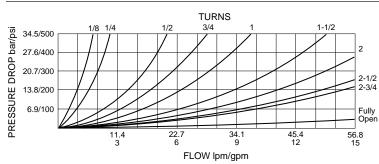
Installation: No restrictions; See page 9.020.1

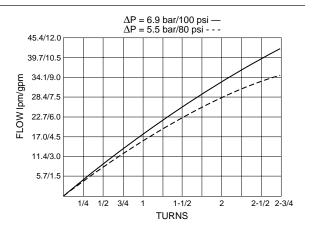
Cavity: VC10-2; See page 9.110.1

Cavity Tool: CT10-2XX; See page 8.600.1

Seal Kit: SK10-2X-M; See page 8.650.1

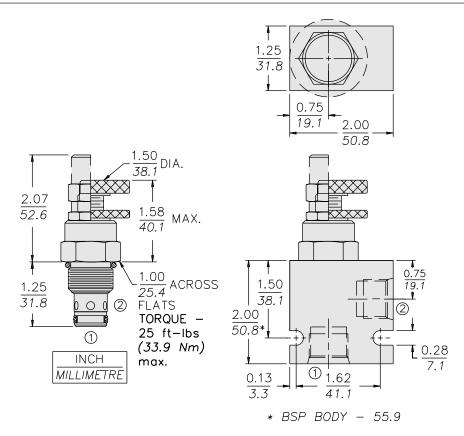
## PERFORMANCE (Cartridge Only)

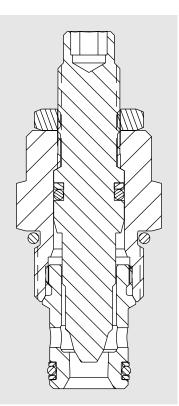




## NV10-20

#### DIMENSIONS





#### MATERIALS

Cartridge: Weight: 0.15 kg. (0.33 lbs.) Steel with hardened work surfaces. Zinc-plated exposed surfaces. Buna N O-rings and polyester elastomer back-ups standard. Anodized aluminum knobs.

Standard Ported Body: Weight: 0.16 kg. (0.35 lbs.) Anodized highstrength 6061 T6 aluminum alloy, rated to 207 bar (3000 psi). Ductile iron bodies available; dimensions may differ. See page 8.010.1

#### **TO ORDER**

