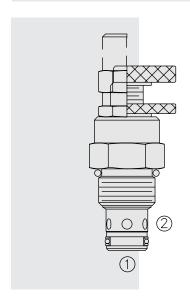
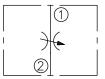
# **NV10-20** Needle Valve



## **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

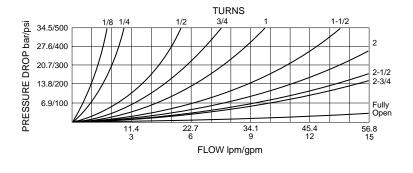
**Fluids:** Mineral-based or synthetics with lubricating properties at viscosities of 7.4 to 420 cSt (50 to 2000 sus); See Temperature and Oil Viscosity, page 9.060.1

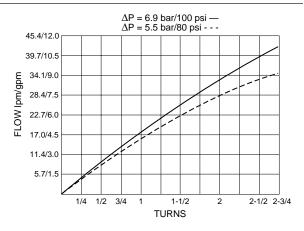
Installation: No restrictions; See page 9.020.1

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)

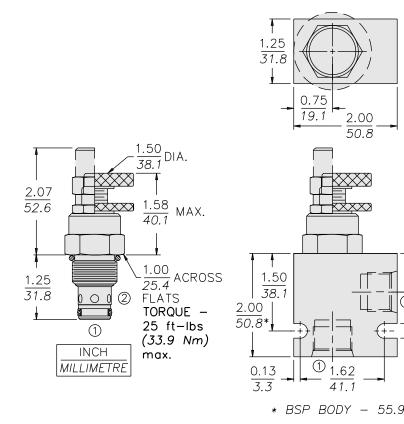


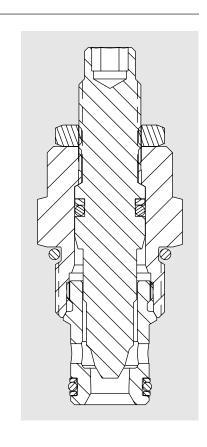




# **NV10-20**

#### **DIMENSIONS**



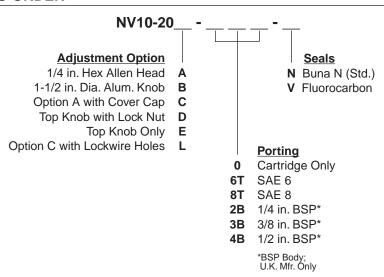


#### **MATERIALS**

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



0.28

7.1