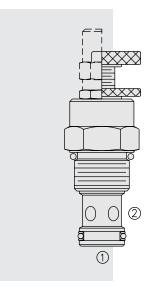
# NV12-20 Needle Valve



# SYMBOLS

#### USASI/ISO:



## DESCRIPTION

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

## OPERATION

The **NV12-20** 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.
- · Cost effective cavity.
- Aluminum knob option.
- Positive shut-off.
- · Linear adjustment.

## RATINGS

Operating Pressure: 240 bar (3500 psi)

**Flow:** 113.6 lpm (30 gpm) nominal at 7 bar (100 psi) at full open 4.5 turns **Internal Leakage:** 0.15 cc/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)

16.9 Mill (150 lb.-Ill.) at 207 bar (300

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

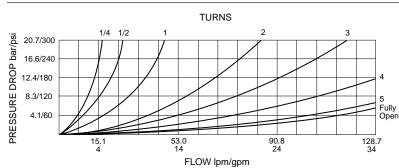
Installation: No restrictions; See page 9.020.1

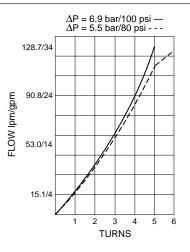
Cavity: VC12-2; See page 9.112.1

Cavity Tool: CT12-2XX; See page 8.600.1

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

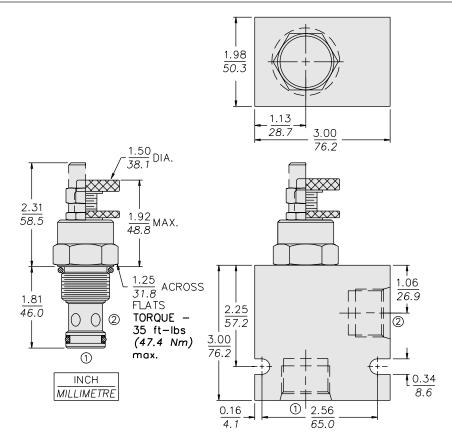
## PERFORMANCE (Cartridge Only)

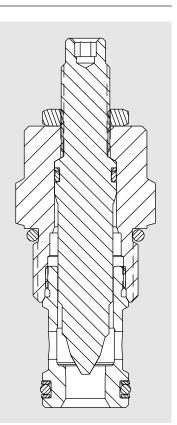




# NV12-20







#### MATERIALS

Cartridge: Weight: 0.HGkg. (0.Ï € 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: 0.57 kg. (1.25 lbs.) Anodized highstrength 6061 T6 aluminum alloy, rated to 207 bar (3000 psi). Ductile iron bodies available; dimensions may differ. See page 8.012.1

# **TO ORDER**

