

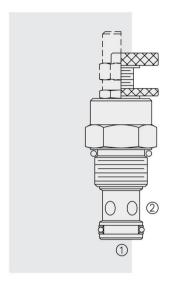




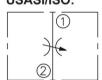
FLOW CONTROLS

Blue rectangles are links to other catalog pages.

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 counter-clockwise 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)

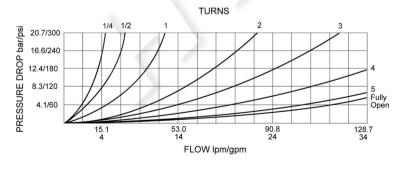
Temperature: -40 to 120°C Filtration: See page 9.010.1

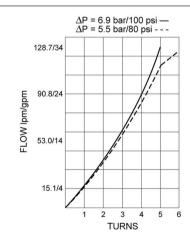
Fluids: Mineral-based or synthetics with lubricating properties at viscosities of 7.4 to 420 cSt (50 to 2000 sus); See Temperature and Oil Viscosity, page 9.060.1

Installation: No restrictions; See page 9.020.1

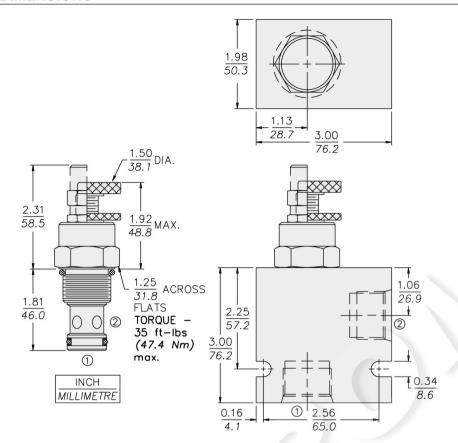
Cavity: VC12-2; See page 9.112.1 Cavity Tool: CT12-2XX; See page 8.600.1 Seal Kit: SK12-2X-M; See page 8.650.1

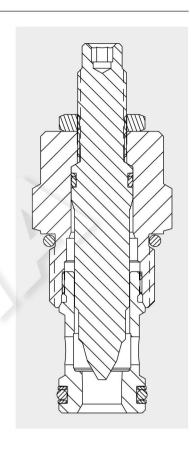
PERFORMANCE (Cartridge Only)





DIMENSIONS





MATERIALS

Cartridge: Weight: 0.32 kg. (0.70 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

