



CONFIGURATION

L	Control	Standard Screw Adjustment
I	Maximum Orifice Diameter	.85 in. (21,6 mm)
N	Seal Material	Buna-N
(none)	Material/Coating	Standard Material/Coating

Needle valves are fully adjustable orifices used to regulate flow. They are infinitely adjustable from fully closed up to the maximum orifice diameter. They are not pressure-compensated. They may be used as flow controls or as shutoff valves.

TECHNICAL DATA

Maximum Operating Pressure	5000 psi
Adjustment - Number of Counterclockwise Turns - Fully Closed to Fully Open	5
Locknut Hex Size	9/16 in.
Locknut Torque	80 - 90 lbf in.
Seal kit - Cartridge	Buna: 990-018-007
Seal kit - Cartridge	Polyurethane: 990-018-002
Seal kit - Cartridge	Viton: 990-018-006

CONFIGURATION OPTIONS

Model Code Example: NFFDLIN

CONTROL	(L) MAXIMUM ORIFICE DIAMETER	(I) SEAL MATERIAL	(N) MATERIAL/COATING
L Standard Screw Adjustment H Calibrated Handknob with Detent Lock K Handknob R Capped Screw Adjustment Y Tri-Grip Handknob	I .85 in. (21,6 mm)	N Buna-N E EPDM V Viton	Standard Material/Coating /AP Stainless Steel, Passivated

TECHNICAL FEATURES

- All 2-port flow control cartridges are physically and functionally interchangeable (i.e. same flow path, same cavity for a given frame size). However, cartridge extension dimensions from the mounting surface may vary.
- Because needle valves are non-compensating devices, the fixed orifice size will regulate flow through the valve in proportion to the square root of the pressure differential across ports 1 and 2.
- A balanced adjustment mechanism allows for easy adjustment even at high pressures.
- The sharp-edged orifice design minimizes flow variations due to viscosity changes.
- The flow path through this valve is bi-directional. The preferred path is port 1 to 2, to allow interchangeability with other flow controls.
- There is no leakage when the adjustment mechanism is turned to the shut-off position.
- Cartridges with EPDM seals are for use in systems with phosphate ester fluids. Exposure to petroleum based fluids, greases and lubricants will damage the seals.