



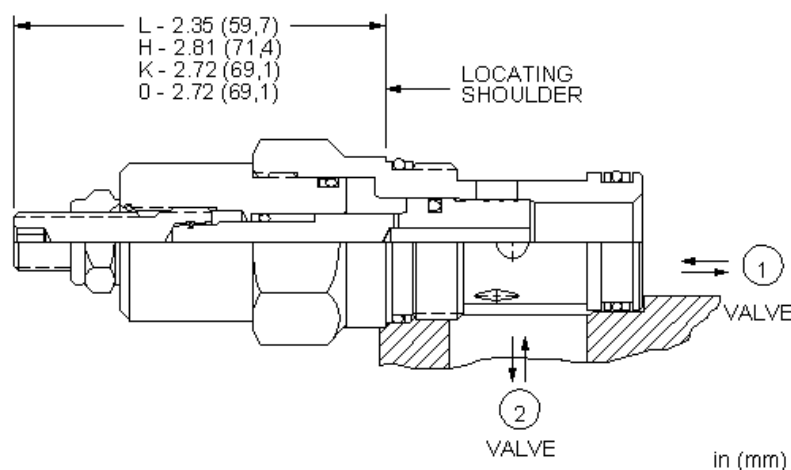
Fully adjustable needle valve

Capacity:
.5 in. (12,7 mm)

Model:
NFDD

Product Description

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 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.

Technical Data

	U.S. Units	Metric Units
Cavity		T-5A
Capacity	.5 in.	12,7 mm
Adjustment - Number of Counterclockwise Turns - Fully Closed to Fully Open		5
Maximum Operating Pressure	5000 psi	350 bar
Series (from Cavity)		Series 2
Valve Hex Size	1 1/8 in.	28,6 mm
Valve Installation Torque	45 - 50 lbf ft	60 - 70 Nm
Adjustment Screw Internal Hex Size	5/32 in.	4 mm
Adjustment Locknut/Cap Hex Size	9/16 in.	15 mm
Adjustment Nut Torque	80 - 90 lbf in.	9 - 10 Nm
Seal Kits - Cartridge		Buna: 990-203-007
Seal Kits - Cartridge		Viton: 990-203-006
Model Weight	0.61 lb.	0.28 kg.

NFDD-LGN

Control	Maximum Orifice Diameter	Seal Material		Material/Coating Modifier
Standard Options	Standard Options	Standard Options		Preferred Options
H Calibrated Handknob with Detent Lock	G .5 in. (12,7 mm)	N	Buna-N	No modifier (standard material with no special coating)
K Handknob		V	Viton	Special Options
L Standard Screw Adjustment				/ AP Stainless Steel, Passivated
				Control:L
				Our stainless product line is growing! If you are interested in a stainless option for this model which is not shown please contact Sun.
Additional Options				
Control	Maximum Orifice Diameter	Seal Material		
O Handknob with Panel Mount				