



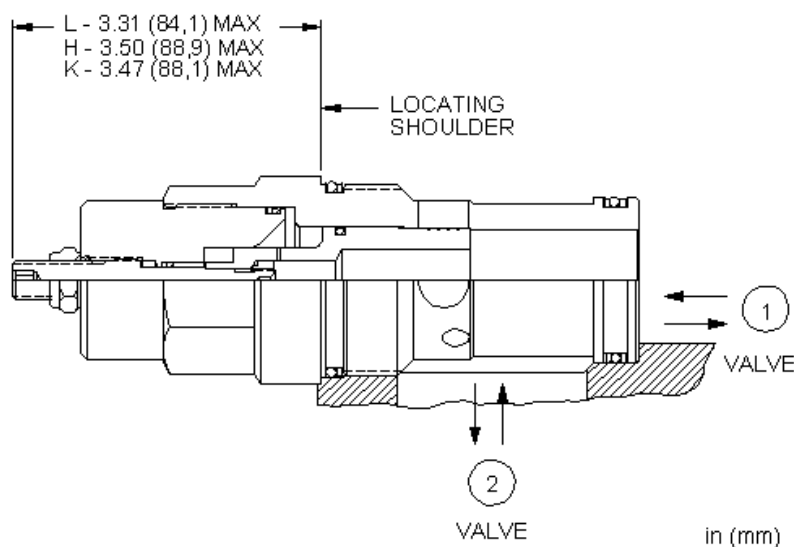
Fully adjustable needle valve

Capacity:
.85 in. (21,6 mm)

Model:
NFFD

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-18A	
Capacity	.85 in.	21,6 mm
Adjustment - Number of Counterclockwise Turns - Fully Closed to Fully Open	5	
Maximum Operating Pressure	5000 psi	350 bar
Series (from Cavity)	Series 4	
Valve Hex Size	1 5/8 in.	41,3 mm
Valve Installation Torque	350 - 375 lbf ft	475 - 500 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: 990-018-007	
Seal Kits - Cartridge	Viton: 990-018-006	
Model Weight	2.73 lb.	1.24 kg.

NFFD-LIN

Control	Maximum Orifice Diameter	Seal Material	
Standard Options	Standard Options	Standard Options	
H Calibrated Handknob with Detent Lock	I .85 in. (21,6 mm)	N	Buna-N
K Handknob		V	Viton
L Standard Screw Adjustment			