



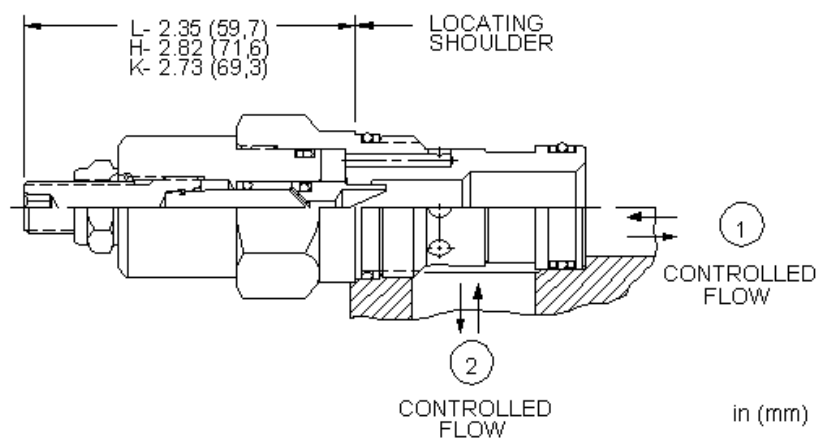
Fully adjustable needle valve

Capacity:
.25 in. (6,4 mm)

Model:
NFDC

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.

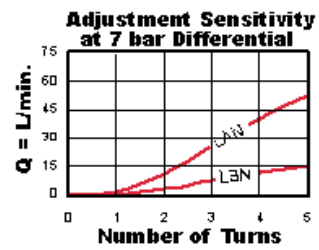
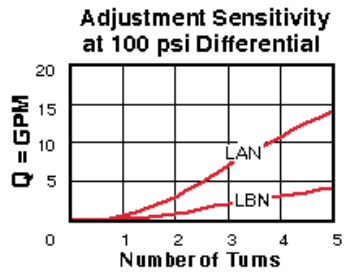


Technical Features

- 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	.25 in.	6,4 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	0.59 lb.	0.27 kg.



NFDC-LAN

Control	Maximum Orifice Diameter	Seal Material
Preferred Options	Preferred Options	Preferred Options
L Standard Screw Adjustment Standard Options	A .25 in. (6,4 mm) Standard Options	N Buna-N Standard Options
H Calibrated Handknob with Detent Lock	B .12 in. (3,0 mm)	V Viton
K Handknob		

Additional Options

Control	Maximum Orifice Diameter	Seal Material
O Handknob with Panel Mount		