

Fully adjustable needle valve

Capacity:
.19 in. (4,8 mm)

Functional Group:
Products : Cartridges : Flow Control : 2 Port : Fully Adjustable Needle Valve

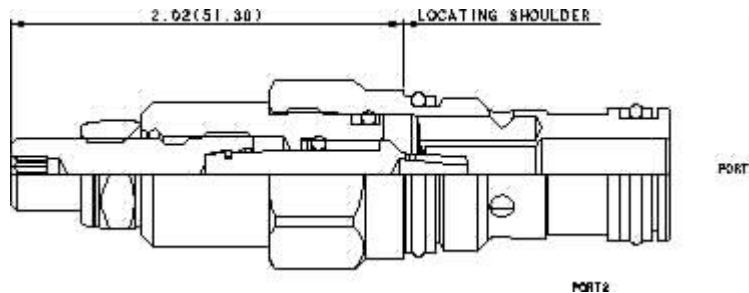
Model:
NFCC-LCV

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.



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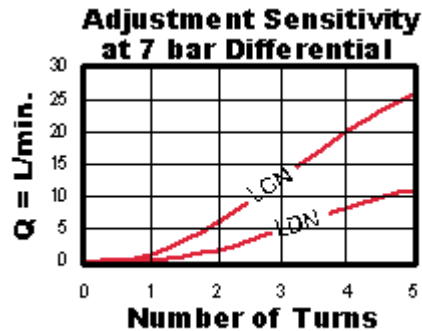
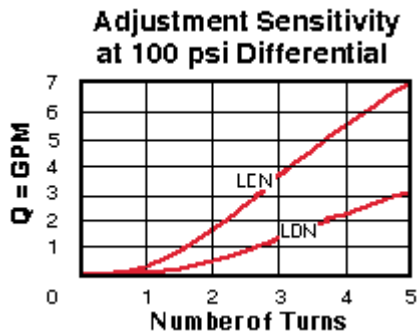
Technical Features

- 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-13A
Capacity	.19 in.	4,8 mm
Adjustment - Number of Counterclockwise Turns - Fully Closed to Fully Open		5
Maximum Operating Pressure	5000 psi	350 bar
Series (from Cavity)		Series 1
Valve Hex Size	7/8 in.	22,2 mm
Valve Installation Torque	30 - 35 lbf ft	45 - 50 Nm
Adjustment Screw Internal Hex Size	5/32 in.	4 mm

Adjustment Nut Hex Size	9/16 in.	15 mm
Adjustment Nut Torque	108 lbf in.	12 Nm
Model Weight	0.31 lb.	0.14 kg.
Seal Kits - Cartridge	Buna: 990-010-007	
Seal Kits - Cartridge	Viton: 990-010-006	



NFCC-LCV

Control	Maximum Orifice Diameter	External Material/Seal Material
L Standard Screw Adjustment	C .19 in. (4,8 mm) +0.00	V Viton +3.50
O Handknob with Panel Mount	+7.00 .06 in. (1,50 mm) +2.00	

Stainless material/seal options not available for this model

- Explanation of Sun cartridge control options - US units.
- Explanation of Sun cartridge control options - metric units.