



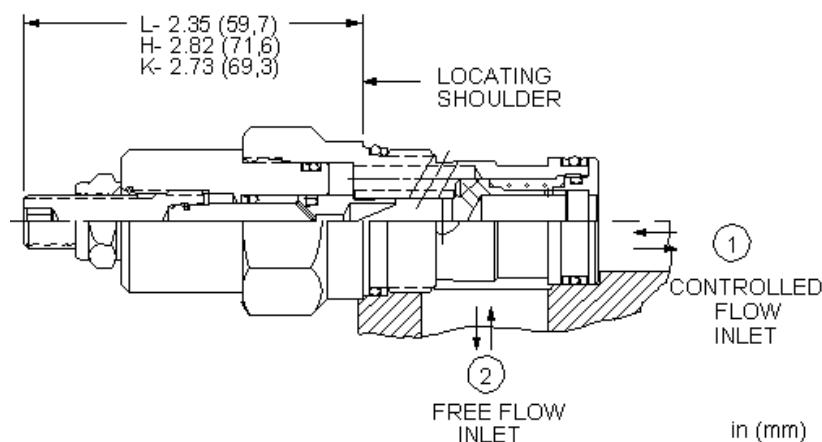
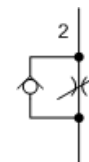
Fully adjustable needle valve with reverse flow check

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

Model:
NCEB

Product Description

Needle valves with reverse-flow check are fully adjustable orifices used to regulate flow. They are infinitely adjustable from fully closed up to the maximum orifice diameter. An integral high-capacity check valve provides unrestricted flow from port 2 to port 1. They are not pressure-compensated.



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.
- Incorporates the Sun floating style construction to minimize the possibility of internal parts binding due to excessive installation torque and/or cavity/cartridge machining variations.

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
Maximum Valve Leakage at 110 SUS (24 cSt)	5 drops/min.	0,3 cc/min.
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

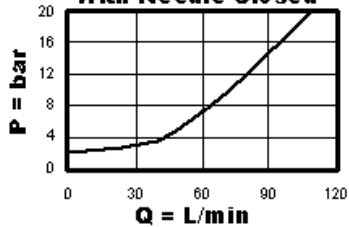
Viton: 990-203-006

Model Weight

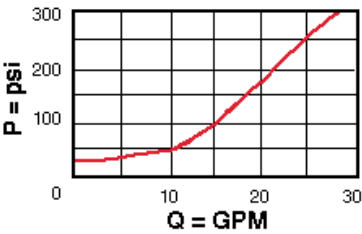
0.58 lb.

0.26 kg.

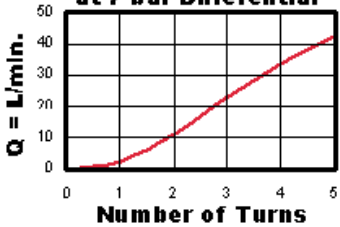
**Reverse Flow Pressure Drop
with Needle Closed**



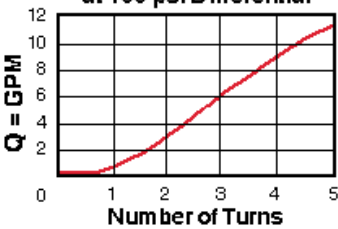
**Reverse Flow Pressure Drop
with Needle Closed**



**Adjustment Sensitivity
at 7 bar Differential**



**Adjustment Sensitivity
at 100 psi Differential**



NCEB-LCN

Control

Preferred Options

L Standard Screw Adjustment
Standard Options

H Calibrated Handknob with
Detent Lock
K Handknob

Additional Options

Control

O Handknob with Panel Mount

Reverse Flow Check

Preferred Options

C 30 psi (2 bar)
Standard Options

A 4 psi (0,3 bar)
E 75 psi (5 bar)

Reverse Flow Check

B 15 psi (1 bar)
D 50 psi (3,5 bar)

Seal Material

Preferred Options

N Buna-N
Standard Options

V Viton

Seal Material