



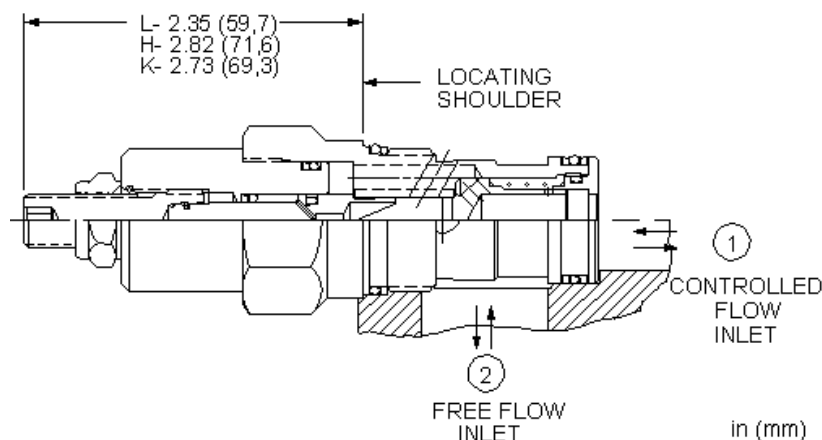
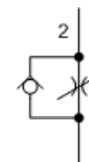
## Fully adjustable needle valve with reverse flow check

Capacity:  
.13 in. (3,3 mm)

Model:  
NCEC

### 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                                                                   | .13 in.           | 3,3 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 |              |

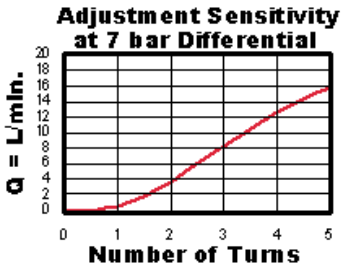
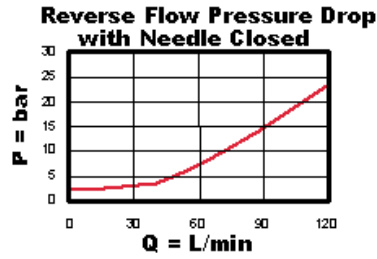
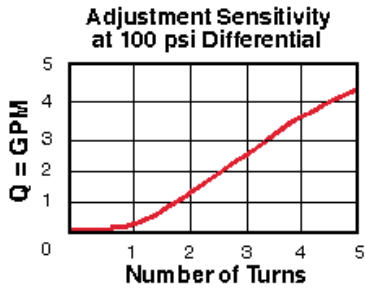
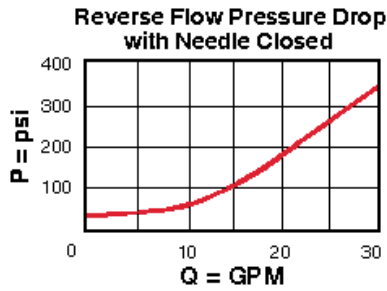
Seal Kits - Cartridge

Viton: 990-203-006

Model Weight

0.58 lb.

0.26 kg.



NCEC-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)

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

Seal Material

Preferred Options

N Buna-N  
Standard Options

V Viton

Seal Material