



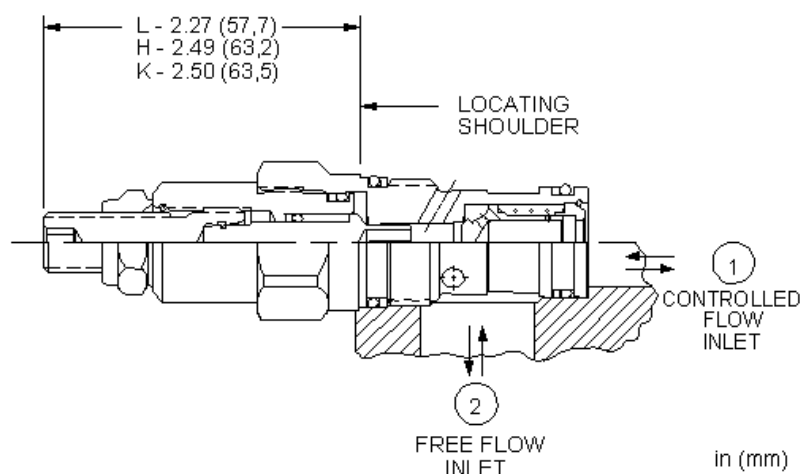
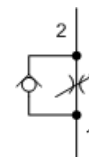
Fully adjustable needle valve with reverse flow check

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

Model:
NCCB

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.



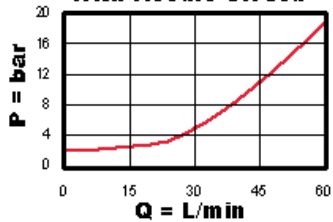
Technical Features

- 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.
- The sharp-edged orifice design minimizes flow variations due to viscosity changes.

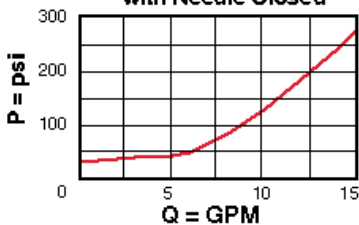
Technical Data

	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
Maximum Valve Leakage at 110 SUS (24 cSt)	5 drops/min.	0,3 cc/min.
Series (from Cavity)	Series 1	
Valve Hex Size	7/8 in.	22,2 mm
Valve Installation Torque	30 - 35 lbf ft	40 - 50 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: 990-010-007	
Seal Kits - Cartridge	Viton: 990-010-006	
Model Weight	0.32 lb.	0.15 kg.

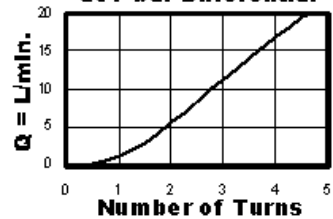
**Reverse Flow Pressure Drop
with Needle Closed**



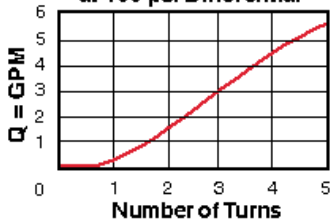
**Reverse Flow Pressure Drop
with Needle Closed**



**Adjustment Sensitivity
at 7 bar Differential**



**Adjustment Sensitivity
at 100 psi Differential**



NCCB-LCN

Control

- Preferred Options
- L Standard Screw Adjustment
- Standard Options
- H Calibrated Handknob with Detent Lock
- K Handknob

Reverse Flow Check

- Preferred Options
- C 30 psi (2 bar)
- Standard Options
- A 4 psi (0,3 bar)
- E 75 psi (5 bar)

Seal Material

- Preferred Options
- N Buna-N
- Standard Options
- V Viton

Material/Coating
Modifier

- Preferred Options
- No modifier (standard material with no special coating)
- Special Options
- / AP Stainless Steel, Passivated
- Control:L

Our stainless product line is growing! If you are interested in a stainless option for this model which is not shown please contact Sun.

Additional Options

Control

- O Handknob with Panel Mount

Reverse Flow Check

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

Seal Material