

Fully adjustable needle valve with reverse flow check

SERIES 1 / CAPACITY: 8 L/min. (2,3 mm) / CAVITY: T-13A

2.01(51.05)





#### sunhydraulics.com/model/NC LOCATING SHOULDER



#### CONFIGURATION

L	Control	Standard Screw Adjustment
Α	Reverse Flow Check	4 psi (0,3 bar)
N	Seal Material	Buna-N
(none) Material/Coating		Standard Material/Coating

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 DATA**

NOTE: DATA MAY VARY BY CONFIGURATION. SEE CONFIGURATION SECTION.

Cavity	T-13A
Series	1
Capacity	8 L/min. (2,3 mm)
Maximum Operating Pressure	350 bar
Maximum Valve Leakage at 110 SUS (24 cSt)	0,3 cc/min.
Adjustment - No. of CCW Turns from Fully Closed to Fully Open	5
Valve Hex Size	22,2 mm
Valve Installation Torque	41 - 47 Nm
Adjustment Screw Internal Hex Size	4 mm
Locknut Hex Size	15 mm
Locknut Torque	9 - 10 Nm
Seal kit - Cartridge	Buna: 990010007
Seal kit - Cartridge	Polyurethane: 990010002
Seal kit - Cartridge	Viton: 990010006
Model Weight	0.14 kg.

**NOTES** 

For Series 1 cartridges configured with an O control (panel mount handknob), a .75 in. (19 mm) diameter hole is required in the panel.

# **CONFIGURATION OPTIONS**

## Model Code Example: NCCCLAN

CONTROL (L) REVERSE FLOW CHECK (A) SEAL MATERIAL (N) MATERIAL/COATING

L Standard Screw Adjustment

A 4 psi (0,3 bar)

N Buna-N

H Calibrated Handknob with Detent Lock

Standard Material/Coating /AP Stainless Steel, Passivated

K Handknob

C 30 psi (2 bar) E 75 psi (5 bar) Viton

/LH Mild Steel, Zinc-Nickel

O Handknob with Panel Mount

R Capped Screw Adjustment

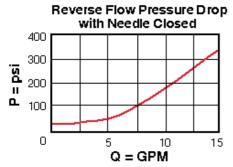
Y Tri-Grip Handknob

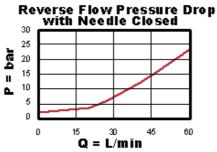
### **TECHNICAL FEATURES**

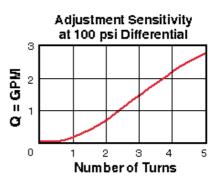
- All 2-port flow control cartridges are physically and functionally interchangeable (i.e. same flow path, same cavity for a given frame size). However, cartridge extension dimensions from the mounting surface may vary.
- Because needle valves are non-compensating devices, the fixed orifice size will 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.

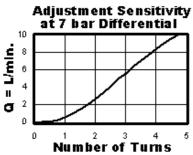
## PERFORMANCE CURVES

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