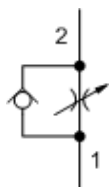
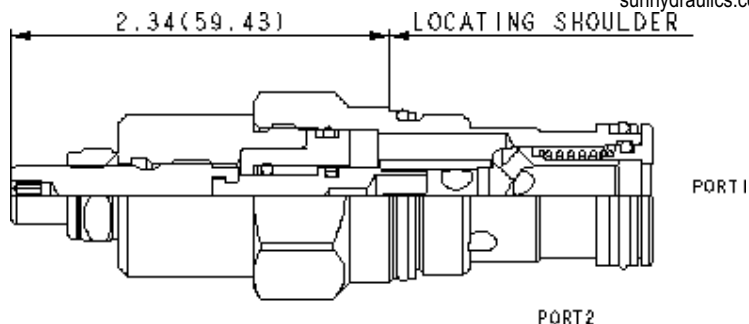




## CONFIGURATION

|                                |                    |                           |
|--------------------------------|--------------------|---------------------------|
| <b>L</b>                       | Control            | Standard Screw Adjustment |
| <b>C</b>                       | Reverse Flow Check | 30 psi (2 bar)            |
| <b>N</b>                       | Seal Material      | Buna-N                    |
| <b>(none)</b> 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-5A             |
| Series                                                        | 2                |
| Capacity                                                      | 3 gpm (.13 inch) |
| Maximum Operating Pressure                                    | 5000 psi         |
| Maximum Valve Leakage at 110 SUS (24 cSt)                     | 5 drops/min.     |
| Adjustment - No. of CCW Turns from Fully Closed to Fully Open | 5                |
| Valve Hex Size                                                | 1 1/8 in.        |
| Valve Installation Torque                                     | 45 - 50 lbf ft   |
| Adjustment Screw Internal Hex Size                            | 5/32 in.         |
| Locknut Hex Size                                              | 9/16 in.         |
| Locknut Torque                                                | 80 - 90 lbf in.  |
| Seal kit - Cartridge                                          | Buna: 990203007  |
| Seal kit - Cartridge                                          | Viton: 990203006 |
| Model Weight                                                  | 0.60 lb.         |

## 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: NCECLCN**

| CONTROL                                       | (L) REVERSE FLOW CHECK   | (C) SEAL MATERIAL | (N) MATERIAL/COATING        |
|-----------------------------------------------|--------------------------|-------------------|-----------------------------|
| <b>L</b> Standard Screw Adjustment            | <b>C</b> 30 psi (2 bar)  | <b>N</b> Buna-N   | Standard Material/Coating   |
| <b>H</b> Calibrated Handknob with Detent Lock | <b>A</b> 4 psi (0,3 bar) | <b>V</b> Viton    | /LH Mild Steel, Zinc-Nickel |
| <b>K</b> Handknob                             | <b>E</b> 75 psi (5 bar)  |                   |                             |
| <b>Y</b> 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.
- 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.

PERFORMANCE CURVES

