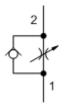


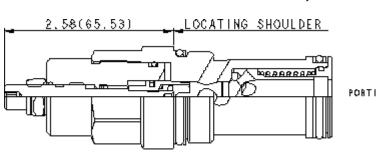
MODEL

Fully adjustable needle valve with reverse flow check CAPACITY: 15 gpm (.28 inch) / CAVITY: T-16A



sunhydraulics.com/model/NCFC





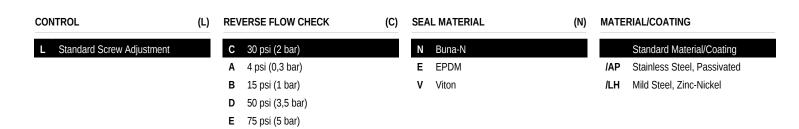
PORT2

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-16A                     |
|---|---------------------------|
| Series  | 3                         |
| Capacity  | 15 gpm (.28 inch)         |
| Maximum Operating Pressure                                    | 5000 psi                  |
| Adjustment - No. of CCW Turns from Fully Closed to Fully Open | 5                         |
| Maximum Valve Leakage at 110 SUS (24 cSt)                     | 5 drops/min.              |
| Valve Hex Size  | 1 1/4 in.                 |
| Valve Installation Torque                                     | 150 - 160 lbf ft          |
| Adjustment Screw Internal Hex Size                            | 5/32 in.                  |
| Locknut Hex Size  | 9/16 in.                  |
| Locknut Torque  | 80 - 90 lbf in.           |
| Model Weight  | 1.26 lb.                  |
| Seal kit - Cartridge  | Buna: 990-016-007         |
| Seal kit - Cartridge  | Polyurethane: 990-016-002 |
| Seal kit - Cartridge  | Viton: 990-016-006        |

## **OPTION SELECTION EXAMPLE: NCFCLCN**



## **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

