



## 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 |                    |                           |

## TECHNICAL DATA

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

|                                                               |                         |
|---------------------------------------------------------------|-------------------------|
| Cavity                                                        | T-13A                   |
| Series                                                        | 1                       |
| Capacity                                                      | 7 gpm (.19 inch)        |
| Maximum Operating Pressure                                    | 5000 psi                |
| Maximum Valve Leakage at 110 SUS (24 cSt)                     | 10 drops/min.           |
| Adjustment - No. of CCW Turns from Fully Closed to Fully Open | 5                       |
| Valve Hex Size                                                | 7/8 in.                 |
| Valve Installation Torque                                     | 30 - 35 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: 990010007         |
| Seal kit - Cartridge                                          | EPDM: 990010014         |
| Seal kit - Cartridge                                          | Polyurethane: 990010002 |
| Seal kit - Cartridge                                          | Viton: 990010006        |
| Model Weight                                                  | 0.32 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: NCCBLCN**

| 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>E</b> EPDM   |     | /AP Stainless Steel, Passivated |
| <b>K</b> Handknob                             |     | <b>E</b> 75 psi (5 bar)  |     | <b>V</b> Viton  |     | /LH Mild Steel, Zinc-Nickel     |
| <b>R</b> Capped Screw Adjustment              |     |                          |     |                 |     |                                 |
| <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.
- The sharp-edged orifice design minimizes flow variations due to viscosity changes.
- Cartridges configured with EPDM seals are for use in systems with phosphate ester fluids. Exposure to petroleum based fluids, greases and lubricants will damage the seals.

PERFORMANCE CURVES

