



## CONFIGURATION

|               |                  |                                                                   |
|---------------|------------------|-------------------------------------------------------------------|
| <b>L</b>      | Control          | Standard Screw Adjustment                                         |
| <b>C</b>      | Adjustment Range | 25 - 6000 psi (1,7 - 420 bar), 1000 psi (70 bar) Standard Setting |
| <b>N</b>      | Seal Material    | Buna-N                                                            |
| <b>(none)</b> | Material/Coating | Standard Material/Coating                                         |

Two-port, pilot-stage, direct-acting relief cartridges are fully adjustable, normally closed pressure regulating valves. When the pressure at port 1 (inlet) is sufficient to overcome the spring force (valve setting), a flow path is opened from port 1 to port 2 (tank).

## TECHNICAL DATA

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

|                                           |                         |
|-------------------------------------------|-------------------------|
| Cavity                                    | T-8A                    |
| Series                                    | P                       |
| Capacity                                  | 10 L/min.               |
| Factory Pressure Settings Established at  | 30 cc/min.              |
| Maximum Operating Pressure                | 350 bar                 |
| Maximum Valve Leakage at 110 SUS (24 cSt) | 1 cc/min.               |
| Response Time - Typical                   | 2 ms                    |
| Valve Hex Size                            | 22,2 mm                 |
| Valve Installation Torque                 | 27 - 33 Nm              |
| Adjustment Screw Internal Hex Size        | 4 mm                    |
| Locknut Hex Size                          | 15 mm                   |
| Locknut Torque                            | 9 - 10 Nm               |
| Seal kit - Cartridge                      | Buna: 990608007         |
| Seal kit - Cartridge                      | EPDM: 990608014         |
| Seal kit - Cartridge                      | Polyurethane: 990008002 |
| Seal kit - Cartridge                      | Viton: 990608006        |
| Model Weight                              | 0.13 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: RBAELCN

| CONTROL                                 | (L) ADJUSTMENT RANGE                                                       | (C) SEAL MATERIAL | (N) MATERIAL/COATING            |
|-----------------------------------------|----------------------------------------------------------------------------|-------------------|---------------------------------|
| <b>L</b> Standard Screw Adjustment      | <b>C</b> 25 - 6000 psi (1,7 - 420 bar), 1000 psi (70 bar) Standard Setting | <b>N</b> Buna-N   | Standard Material/Coating       |
| <b>C</b> Tamper Resistant - Factory Set | <b>A</b> 25 - 3000 psi (1,7 - 210 bar), 1000 psi (70 bar) Standard Setting | <b>E</b> EPDM     | /AP Stainless Steel, Passivated |
| <b>K</b> Handknob                       | <b>B</b> 25 - 1500 psi (1,7 - 105 bar), 1000 psi (70 bar) Standard Setting | <b>V</b> Viton    | /LH Mild Steel, Zinc-Nickel     |
| <b>O</b> Handknob with Panel Mount      | <b>D</b> 25 - 800 psi (1,7 - 55 bar), 400 psi (28 bar) Standard Setting    |                   |                                 |
| <b>Y</b> Tri-Grip Handknob              | <b>E</b> 25 - 400 psi (1,7 - 28 bar), 200 psi (14 bar) Standard Setting    |                   |                                 |
|                                         | <b>W</b> 25 - 4500 psi (1,7 - 315 bar), 1000 psi (70 bar) Standard Setting |                   |                                 |

## TECHNICAL FEATURES

- Utilizes the Sun T-8A 2-port cavity making it the ideal choice to use in conjunction with Sun's main stage pilot or vent-to-operate cartridges. Separate pilot lines are eliminated and only one cavity needs to be machined to accommodate both the control and primary function. Note: All 2-position, 2-way pilot stage control cartridges utilize the same cavity and are physically interchangeable. Functionality is the only consideration.
- Note: The main stage valve should first be installed to the correct torque value followed by the T-8A pilot control section into the main stage valve to its required torque value.
- Ports 1 and 2 may be pressured to 5000 psi (350 bar).
- Hardened poppet and seat provide consistent operation, low leakage rates and superior wear characteristics.
- Backpressure at port 2 (outlet) is directly additive to the pressure setting at port 1 (inlet).
- 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.
- 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

