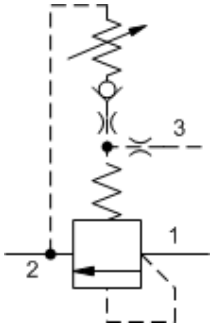
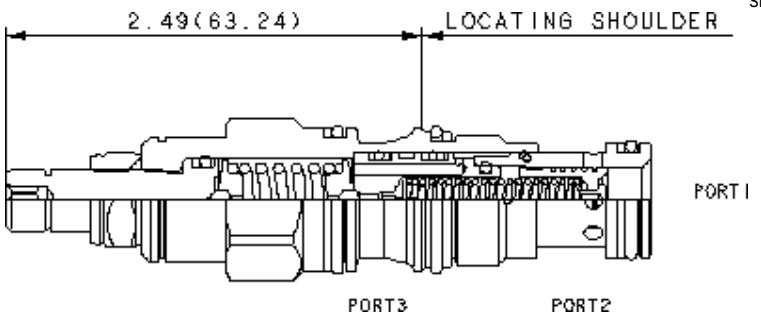
MODEL
**RVCB**

Normally closed modulating element valve with relief function
**SERIES 1 / CAPACITY: 40 L/min. / CAVITY: T-11A**

snhy.com/RVCB




Three-port normally closed modulating elements with relief provide two functions when combined with an external orifice. The mainstage is a bypass compensator that controls a priority flow into the circuit, determined by the external orifice. Input flow in excess of the priority flow is bypassed to tank (port 2). If the inlet (port 1) pressure rises to the valve setting, the valve operates as a normal relief valve.

## CONFIGURATION

| | | |
|---|---|---|
| **L** | Control | Standard Screw Adjustment |
| **A** | Adjustment Range | 100 - 3000 psi (7 - 210 bar), 1000 psi (70 bar) Standard Setting |
| **N** | Seal Material | Buna-N |
| **(none)** | Material/Coating | Standard Material/Coating |

## TECHNICAL DATA

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

| | |
|---|---|
| Cavity | T-11A |
| Series | 1 |
| Capacity | 40 L/min. |
| Factory Pressure Settings Established at | 15 L/min. |
| Maximum Operating Pressure | 350 bar |
| Response Time - Typical | 10 ms |
| Maximum Valve Leakage at 110 SUS (24 cSt) | 30 cc/min.@70 bar |
| Adjustment - No. of CW Turns from Min. to Max. setting | 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: 990011007 |
| Seal kit - Cartridge | Polyurethane: 990011002 |
| Seal kit - Cartridge | Viton: 990011006 |
| Model Weight | 0.16 kg. |

## CONFIGURATION OPTIONS

**Model Code Example: RVCBLAN**

**CONTROL (L)**

- **L** Standard Screw Adjustment
- **C** Tamper Resistant - Factory Set
- **K** Handknob

**ADJUSTMENT RANGE (A)**

- **A** 100 - 3000 psi (7 - 210 bar), 1000 psi (70 bar) Standard Setting
- **B** 50 - 1500 psi (3,5 - 105 bar), 1000 psi (70 bar) Standard Setting
- **C** 150 - 6000 psi (10,5 - 420 bar), 1000 psi (70 bar) Standard Setting

**SEAL MATERIAL (N)**

- **N** Buna-N
- **V** Viton

**MATERIAL/COATING**

- Standard Material/Coating
- **/AP** Stainless Steel, Passivated
- **/LH** Mild Steel, Zinc-Nickel

## TECHNICAL FEATURES

- Compensating pressure for the A range is 45 psi (3 bar), for the B range 30 psi (2 bar), and for the C range 100 psi (7 bar).
- Explanation of the performance curve: The X axis is system pressure. The Y axis shows the pressure differential that the valve creates across the control orifice. The curves represent various bypass flows (pump flow minus control flow). The capacity and performance of this valve is determined by the bypass flow, control flow is not a factor.

## PERFORMANCE CURVES