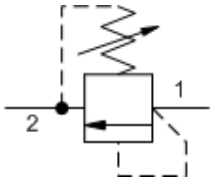
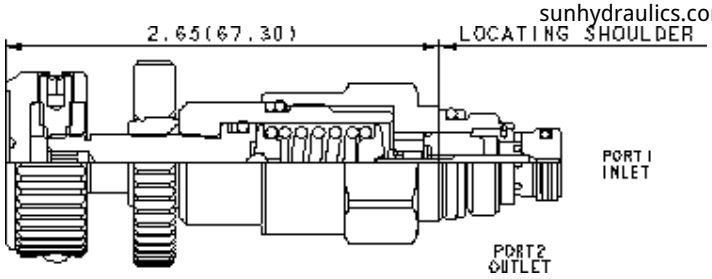
MODEL
RBAE

# Direct-acting relief valve - pilot capacity
## SERIES P / CAPACITY: 10 L/min. / CAVITY: T-8A

sunhydraulics.com/model/RBAE




## CONFIGURATION

| | | |
|---|---|---|
| **K** | Control | Handknob |
| **W** | Adjustment Range | 25 - 4500 psi (1,7 - 315 bar), 1000 psi (70 bar) Standard Setting |
| **N** | Seal Material | Buna-N |
| **(none)** | 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. |
| Maximum Operating Pressure | 350 bar |
| Factory Pressure Settings Established at | 30 cc/min. |
| 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 | 0.16 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.

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## CONFIGURATION OPTIONS

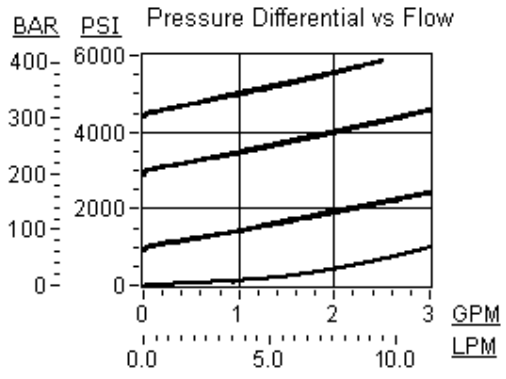
**Model Code Example: RBAEArray**

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




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