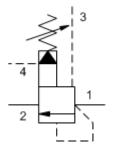
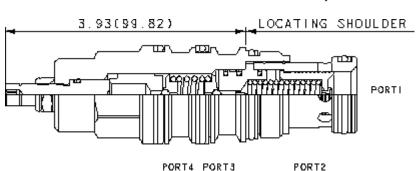


Ventable, pilot-operated, balanced piston relief valve with drain to port 4 CAPACITY: 60 gpm / CAVITY: T-23A



sunhydraulics.com/model/RVGD





Ventable, pilot-operated, balanced piston relief cartridges with external drain are normally closed pressure regulating valves. When the pressure at the inlet (port 1) reaches the valve setting, the valve starts to open to tank (port 2), throttling flow to regulate the pressure. They provide a vent port (port 3) that connects between the main piston and pilot stage to provide for remote control by other pilot or 2-way valves and a drain (port 4) that makes them insensitive to back pressure. These valves are accurate, have low pressure rise vs. flow, they are smooth and quiet, and are moderately fast.

| Cavity | T-23A |
|--|----------------------------------|
| Series | 3 |
| Capacity | 60 gpm |
| Maximum Operating Pressure | 5000 psi |
| Control Pilot Flow | 15 - 20 in³/min. |
| Factory Pressure Settings Established at | 4 gpm |
| Maximum Valve Leakage at 110 SUS (24 cSt) | 4 in ³ /min.@1000 psi |
| Response Time - Typical | 10 ms |
| Adjustment - No. of CW Turns from Min. to Max. setting | 5 |
| 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 | 1.66 lb. |
| Seal kit - Cartridge | Buna: 990-023-007 |
| Seal kit - Cartridge | Polyurethane: 990-023-002 |
| Seal kit - Cartridge | Viton: 990-023-006 |

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

OPTION SELECTION EXAMPLE: RVGDLAN

| CONTROL (L) | | ADJUSTMENT RANGE (A) | | SEAL MATERIAL (N) | | MATERIAL/COATING | | |
|---|--|----------------------|--|-------------------|-----------------|------------------|-----|--|
| Standard Screw Adjustment Tamper Resistant - Factory Set | | А | 100 - 3000 psi (7 - 210 bar), 1000 psi (70 bar) Standard Setting | N V | Buna-N Viton | | /AP | Standard Material/Coating Stainless Steel, Passivated |
| K Handknob | | В | 50 - 1500 psi (3,5 - 105 bar), 1000 psi (70 bar) Standard Setting | | | | | |
| | | С | 150 - 6000 psi (10,5 - 420 bar), 1000 psi (70 bar) Standard Setting | | | | | |
| | | D | 25 - 800 psi (1,7 - 55 bar), 400 psi (28 bar) Standard Setting | | | | | |
| | | Е | 25 - 400 psi (1,7 - 28 bar), 200 psi (14 bar) Standard Setting | | | | | |
| | | W | 150 - 4500 psi (10,5 - 315 bar), 1000 psi (70 bar) Standard Setting | | | | | |

TECHNICAL FEATURES

- Will accept maximum pressure at port 2; suitable for use in cross port relief circuits. If used in cross port relief circuits, consider spool leakage.
- Main stage orifice is protected by a 150-micron stainless steel screen.
- Not suitable for use in load holding applications due to spool leakage.
- Pressure at port 4 is directly additive to the valve setting at a 1:1 ratio and should not exceed 5000 psi (350 bar).
- 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.

Vented Pressure Typical Pressure Rise Vented Pressure 200 5000 15 4000 150 Б = psi C,W **1**0 **1**0 **1**0 **1**0 **1**0 3000 II 100 2000 ۵. ۵. 50 5 1000 в D. D,E 0 20 60 100 0 40 80 120 160 200 40 80 ō Q = L/min. 300 400 100 Q = GPM Q = GPM**Typical Pressure Rise** 350 300 250 250 200 200 150 100 100 50

PERFORMANCE CURVES

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100

200

Q = L/min.

300

400