



Direct-acting relief cartridges are normally closed, pressure-limiting valves used to protect hydraulic components from pressure transients. When the pressure at the inlet (port 1) reaches the valve setting, the valve starts to open to tank (port 2), throttling flow to limit the pressure rise. These valves are smooth and quiet, essentially zero leak, dirt tolerant, immune to silting and are very fast.

TECHNICAL DATA

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

| | |
|--|-------------------------|
| Factory Pressure Settings Established at | 15 L/min. |
| Maximum Operating Pressure | 350 bar |
| Maximum Valve Leakage at Reseat | 0,7 cc/min. |
| Response Time - Typical | 2 ms |
| Reseat | >85% of setting |
| Adjustment - No. of CW Turns from Min. to Max. setting | 6 |
| Locknut Hex Size | 12,7 mm |
| Locknut Torque | 9 - 10 Nm |
| Seal kit - Cartridge | Buna: 990162007 |
| Seal kit - Cartridge | EPDM: 990162014 |
| Seal kit - Cartridge | Polyurethane: 990162002 |
| Seal kit - Cartridge | Viton: 990162006 |

NOTES U.S. Patent #4,742,846; European Patent Pending

CONFIGURATION OPTIONS

Model Code Example: RDBALAN

| CONTROL | (L) ADJUSTMENT RANGE | (A) SEAL MATERIAL | (N) MATERIAL/COATING |
|---|---|-------------------|---------------------------------|
| L Standard Screw Adjustment | A 500 - 3000 psi (35 - 210 bar), 1000 psi (70 bar) Standard Setting | N Buna-N | Standard Material/Coating |
| C Tamper Resistant - Factory Set | W 800 - 4500 psi (55 - 315 bar), 1000 psi (70 bar) Standard Setting | E EPDM | /AP Stainless Steel, Passivated |
| K Handknob | B 300 - 1500 psi (20 - 105 bar), 1000 psi (70 bar) Standard Setting | V Viton | /LH Mild Steel, Zinc-Nickel |
| | C 1000 - 6000 psi (70 - 420 bar), 1000 psi (70 bar) Standard Setting | | |
| | D 200 - 800 psi (14 - 55 bar), 400 psi (28 bar) Standard Setting | | |
| | E 100 - 400 psi (7 - 28 bar), 200 psi (14 bar) Standard Setting | | |
| | S 50 - 200 psi (3,5 - 14 bar), 100 psi (7 bar) Standard Setting | | |