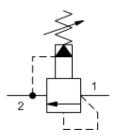


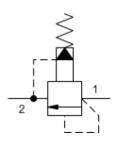
MODEL RPGE

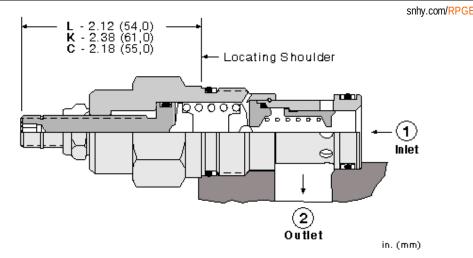
Fast-acting, pilot operated, balanced piston relief valve

SERIES 2 / CAPACITY: 50 gpm / CAVITY: T-3A









Fast-acting, pilot-operated, balanced piston relief cartridges are normally closed, pressure-limiting valves used to protect hydraulics components from pressure transients. Fast opening and closing is gained at the expense of smoothness. 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 have low pressure rise vs. flow and are very fast.

TECHNICAL DATA

| Factory Pressure Settings Established at | 4 gpm |
|--|---------------------------|
| Maximum Operating Pressure | 5000 psi |
| Response Time - Typical | 2 ms |
| Maximum Valve Leakage at 110 SUS (24 cSt) | 3 in³/min.@1000 psi |
| Adjustment - Number of Clockwise Turns to Increase Setting | 5 |
| Locknut Hex Size | 9/16 in. |
| Locknut Torque | 80 - 90 lbf in. |
| Seal kit - Cartridge | Buna: 990-203-007 |
| Seal kit - Cartridge | Polyurethane: 990-003-002 |
| Seal kit - Cartridge | Viton: 990-203-006 |

NOTES

CONTROL

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: RPGELAN

L Standard Screw Adjustment

(L) ADJUSTMENT RANGE

(A) SEAL MATERIAL

(N) MATERIAL/COATING

C Tamper Resistant - Factory Set

A 100 - 3000 psi (7 - 210 bar), 1000 psi (70 bar) Standard Setting

N Buna-N V Viton Standard Material/Coating

IAP Stainless Steel, Passivated

- K Handknob
- Landlingh
- O Handknob with Panel Mount
- **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
- **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
- **W** 150 4500 psi (10,5 315 bar), 1000 psi (70 bar) Standard Setting

TECHNICAL FEATURES

- All 2-port relief cartridges (except pilot reliefs) are physically and functionally interchangeable (same flow path, same cavity for a given frame size).
- 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.
- Back pressure on the tank port (port 2) is directly additive to the valve setting at a 1:1 ratio.
- 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

