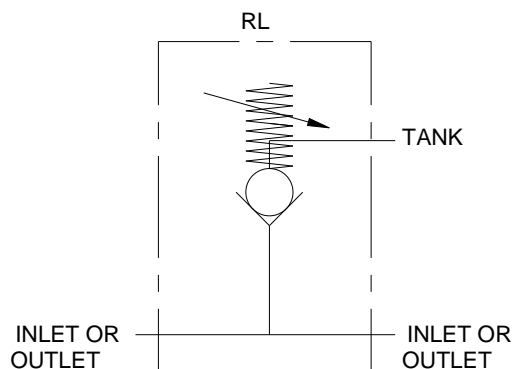


ADJUSTABLE HYDRAULIC RELIEF VALVES

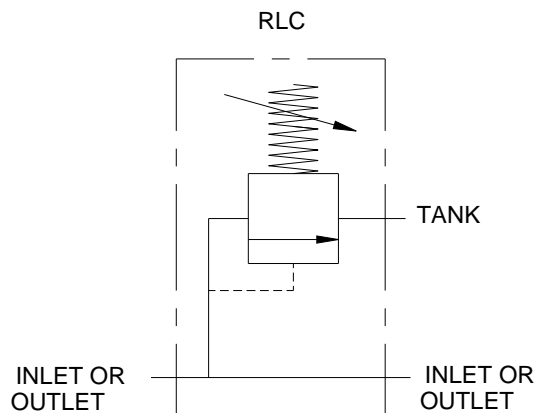
“RL”



RL75-1500

RLC75-3000

RLC16-1500



FEATURES:

- OPTIONAL HIGH LIFT BALL SPRING RELIEF reduces noise, heat and chatter.
- OPTIONAL O’RING PORTS to eliminate leakage.
- STEEL BALL will not jam, lock or seize and will always open.
- CHROME ALLOY STEEL BALL is a grade No. 25 ball.
- HARDENED ALLOY STEEL SEAT to reduce wear.
- SHOT PEENED STRESS RELEIVED steel spring to increase life and consistent results.

SPECIFICATIONS:

- Pressure rating 3000 psi (207 bar).
- Pressure setting 150-3000 psi (10-207 bar).
- See creating a model code for flow capacity.
- Weighs 2 1/4 lbs (1.0 kg).

MATERIALS:

- Zinc Plated Steel Body
- Chrome Alloy Steel Ball
- Hardened Alloy Steel Seat
- Aluminum Alloy Bod

RL – GENERAL INFORMATION:

The Brand, adjustable relief valve is precision built, dependable and low priced. Both the RL and RLC are of the ball spring type, which is the most dependable type of relief valve. The ball will not jam, lock, or seize and will always open. The advantage of the RLC over the RL option is that cracking pressure at low and high flow is virtually the same. The RLC is also more stable when flow is traveling past the ball and spring. (See relief flow charts below)

RL – EXAMPLES OF COMMON MODEL CODES:

RL10-1500.....Adjustable ball spring relief, all ports are #10SAE and the relief is set at 1500 psi (103 bar).

RL50-1500..... Adjustable ball spring relief, all ports are 1/2" NPT and the relief is set at 1500 psi (103 bar).

RL75-2000..... Adjustable ball spring relief, tank port is 1/2" NPT, pressure ports are 3/4" NPT and the relief is set at 2000 psi (138 bar).

RLC75-3000.....Adjustable high lift ball spring relief, tank port is 1/2" NPT, pressure ports are 3/4" NPT and the relief is set at 3000 psi (207 bar).

RLC16-1500..... Adjustable high lift ball spring relief, rated for 30 gpm (113 lpm), #16SAE all ports, manifold body and the relief is set at 1500 psi (103 bar).

RL – CREATING A MODEL CODE FOR RL'S:

RL -

RELIEF TYPE:

Omit – Adjustable ball spring relief

C – Adjustable high lift ball spring relief

PORT SIZE:

37 – 3/8" NPT all ports (0-12 gpm (0-45.4 lpm)) (Production quantity only)

50 – 1/2" NPT all ports (0-20 gpm (0-75.6 lpm))

75 – 3/4" NPT pressure ports and 1/2" tank port (0-20 gpm (0-75.6 lpm))

8 – #8SAE all ports (0-12 gpm (0-45.4 lpm)) (Production quantity only)

10 – #10SAE all ports (0-20 gpm (0-75.6 lpm))

12 – #12SAE all ports (0-30 gpm (0-113.4 lpm), C relief type only and manifold body)

16 – #16SAE all ports (0-30 gpm (0-113.4 lpm), C relief type only and manifold body)

RELIEF SETTING:

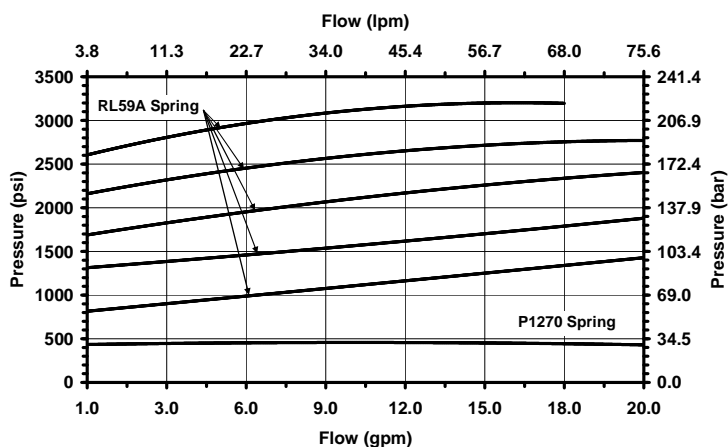
500 – 500 psi (34.5 bar)

1000 – 1000 psi (69.0 bar)

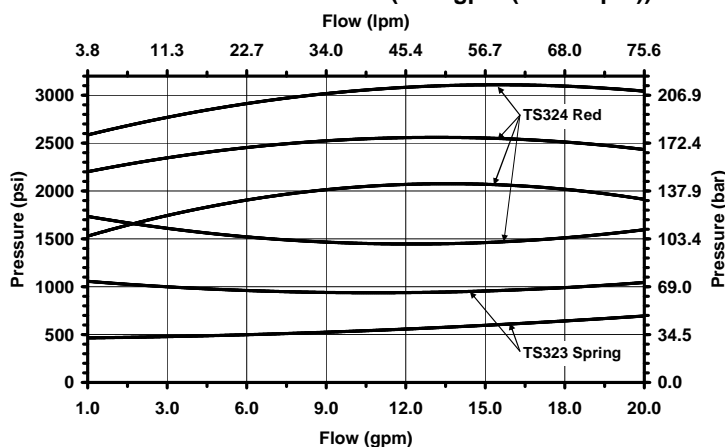
1500 – 1500 psi (103.4 bar)
ETC.

RL FLOW AND PRESSURE INFO:

Pressure vs. Flow for RL

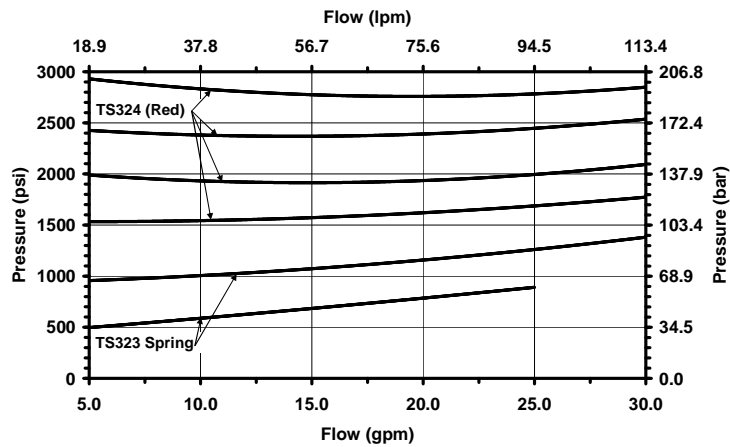


Pressure vs. Flow for RLC (0-20 gpm (0-75.6 lpm))



RL FLOW AND PRESSURE CONT...

Pressure vs. Flow for RLC (0-30 gpm (0-113.4 lpm))



DIMENSIONAL DATA: inches & [millimeters]

