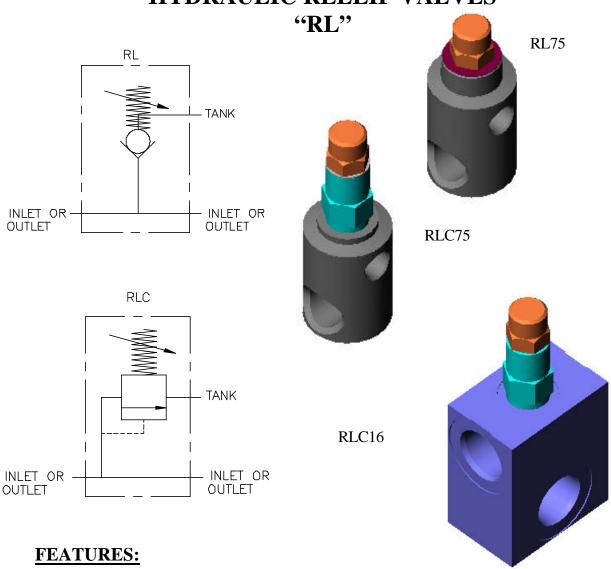


SHIPPING: 2332 SO 25TH STREET (ZIP 68105) MAILING: P.O. BOX #6069 OMAHA, NE 68106

PHONE: (402) 344-4434 FAX: (402) 341-5419

HTTP://WWW.BRAND-HYD.COM

HYDRAULIC RELEIF VALVES



- 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

Revision A Page #1



Relief Valves

RL – GENERAL INFORMATION:

The Brand, 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	Ball spring relief, all ports are #10SAE and the relief is set at 1500 psi.
RL50-1500	Ball spring relief, all ports are 1/2" NPT and the relief is set at 1500 psi.
	Ball spring relief, tank port is 1/2" NPT, pressure ports are 3/4" NPT and the
	relief is set at 2000 psi.
RLC75-3000	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.
RLC16-1500	High lift ball spring relief, rated for 30 gpm, #16SAE all ports, manifold body
	and the relief is set at 1500 psi.

RL - CREATING A MODEL CODE FOR RL'S:



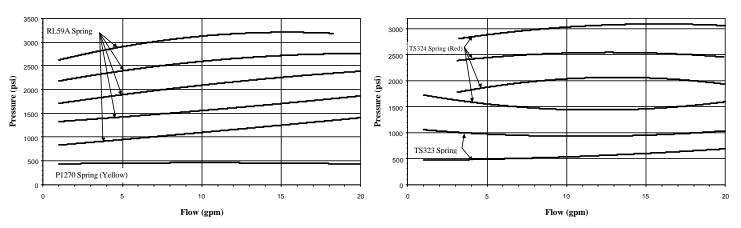
PORT SIZE:

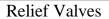
- 37 3/8" NPT all ports (0-12 gpm) (Production quantity only)
- 50 1/2" NPT all ports (0-20 gpm)
- 75 3/4" NPT pressure ports and 1/2" tank port (0-20 gpm)
- 8 #8SAE all ports (0-12 gpm) (Production quantity only)
- 10 #10SAE all ports (0-20 gpm)
- 12 #12SAE all ports (0-30 gpm, C relief type only and manifold body)
- 16 #16SAE all ports (0-30 gpm, C relief type only and manifold body)

RL FLOW AND PRESSURE INFO

Pressure vs. Flow for RL

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

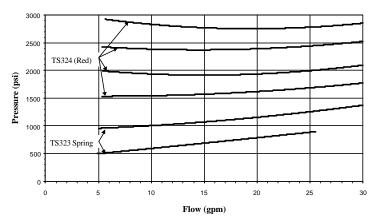




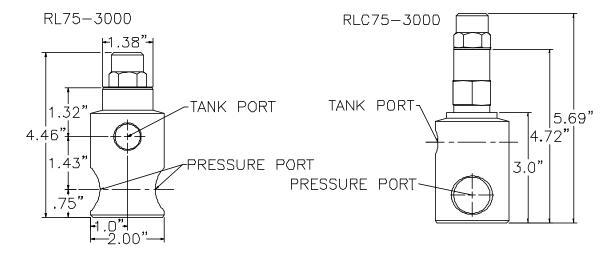


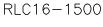
RL FLOW AND PRESSURE CONT...

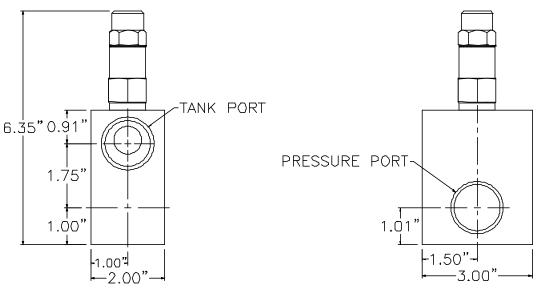
Pressure vs. Flow for RLC (0-30 gpm)



DIMENSIONAL DATA:







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