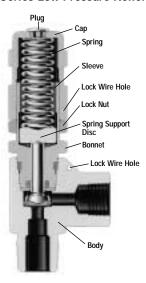
## **RL4 Series Low Pressure Relief Valve**



## Adjusting the Set Pressure

Note: Adjust the set pressure **before** installing the valve in a system.

- 1. Thread cap onto the bonnet 10 full turns.
- 2. Tighten **lock nut** against the **cap** and test for pressure.
- 3. Relieve system pressure, unthread cap as needed, and retest. Repeat procedure as necessary to obtain desired set pressure.
- 4. Tighten lock nut against the cap.
- Lock wire cap and body together to maintain set pressure.

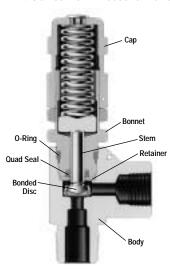
#### **Manual Override Conversion**

- ! Warning: Relieve system pressure before installing manual override handle.
- 1. Loosen lock nut and remove cap from bonnet.
- Remove plug from cap.
- 3. Remove **spring** from **bonnet**.
- 4. Remove **sleeve** by pulling up on base of **sleeve** with hooked tool.
- Remove spring support disc.
- 6. Install pull rod into bonnet.
- 7. Install **sleeve** by compressing it with a suitable tool and pushing it down into **bonnet**.
- 8. Place spring over pull rod.
- 9. Place cap over pull rod, resting it on bonnet.
- Screw handle onto pull rod. Tighten set screw on handle to 20 in.-Ib (2.2 N·m) with 5/64 in. hex wrench.
- 11. Engage cap threads.

Proceed to "Adjusting the Set Pressure"



## **RL4 Series Low Pressure Relief Valve**



#### Contents:

- 1 Quad Seal 1 O-ring
- 1 Bonded Disc 1 Retainer

#### Stem Seal Replacement

- 1. Remove valve from system.
- 2. Loosen cap to relieve spring pressure.
- 3. Remove bonnet from body.
- 4. Remove **retainer** and **stem** from **bonnet**. NOTE: Disc remains in **valve body**.

#### TE. DISC TETRAITS III Valve body.

- 5. Remove quad seal from bonnet.
- 6. Make sure all parts are clean before reassembly.
- 7. Install new **quad seal** into **bonnet**. (Lubricate with system compatible lubricant.)

**NOTE:** If also replacing bonded disc, follow steps 4 through 6 of Bonded Disc Replacement.

- 8. Insert **stem** with bonded disc into **bonnet**, then place **retainer** over **stem**.
- Remove and replace **bonnet 0-ring**. (Lubricate with system compatible lubricant.)
- Thread bonnet into body and tighten 400 in. lb (45 N·m).
- 11. Adjust to desired set pressure as described on reverse side.
- Install in system. Grip valve on wrench pad during installation.

#### **Bonded Disc Replacement**

- Remove valve from system.
- 2. Loosen cap to relieve spring pressure.
- Turn valve upside down and remove body from bonnet.
- 4. Remove disc from stem.
- 5. Make sure all parts are clean before reassembly.
- 6. Place new disc on stem.
- Remove and replace bonnet O-ring. (Lubricate with system compatible lubricant.)
- 8. Thread **body** onto **bonnet** and tighten to **400 in.-lb (45 N-m)**.
- Adjust to desired set pressure as described on reverse side.
- Install in system. Grip valve on wrench pad during installation.

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These instructions are also available in French, Italian, German, and Spanish.

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