

# Relief Valve

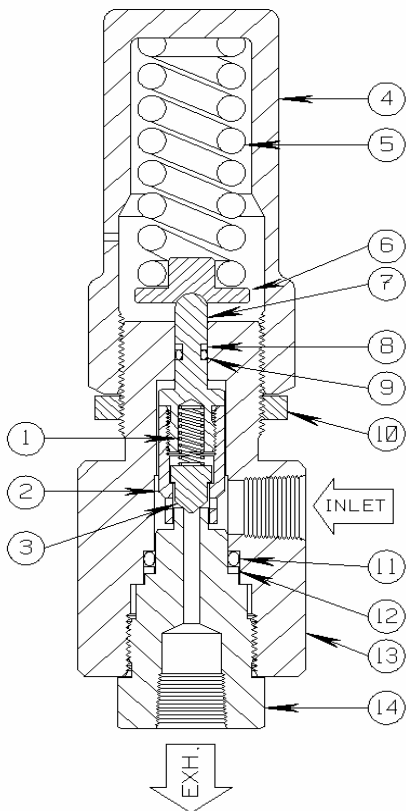
## Hydraulic

1/4" FEMALE NPT, 10,000 PSI MAX

Model 24RV16



Conforms to the CE Category IV of the European Pressure Equipment Directive Issue Certificate No. 97/23/EC



The **24RV16** is a two position, two-way normally closed, pressure relieving (spring/sensing plunger operated), flow control valve. It has excellent pressure relief and reset repeatability. Relief Valves or Pressure Safety Valves (PSV) are most commonly used to prevent abnormal pressure increases in hydraulic control circuits. As the operating pressure within a control circuit increases to or above a predetermined pressure setting, it will be dispersed through the Relief Valve's Exhaust port.

Turning the Spring Housing clockwise will increase the Relief Valve pressure setting. Rotating the Spring Housing counterclockwise will decrease the Relief Valve pressure setting. Once the exact pressure relief setting required is achieved, the Lock Nut should be tightened against the Spring Housing to maintain the appropriate setting.

Note: Pressure regulating equipment failure, pump malfunction and thermal expansion are the most common causes of abnormal pressure increases within hydraulic control circuits.

### PARTS LIST:

- |                    |                     |
|--------------------|---------------------|
| 1. Spring *        | 8. Back Up Ring *   |
| 2. Seat Guide      | 9. O Ring *         |
| 3. Valve Seat *    | 10. Lock Nut        |
| 4. Spring Housing  | 11. O Ring *        |
| 5. Spring *        | 12. Back Up Ring *  |
| 6. Spring Guide    | 13. Valve Body      |
| 7. Sensing Plunger | 14. Seat Retainer * |

\* Indicates parts included in a Repair Kit

# Sigma Model Number 24RV16

## 1/4" FEMALE NPT, 10,000 PSI MAX

---

### Product Specifications

---

**Piston Movement:** Two Position, Normally Closed

**Body Pressure Rating (Inlet Port):** 10,000 PSI maximum (690 bar)

**Instrument Media Service:** Hydraulic Fluid

**Connection Size:** 1/4-18 Female N.P.T. Inlet and Exhaust

**Seal Material:** Viton

**Wetted Component Material (Metal):** 316 Stainless Steel, 17-4PH SS & Tungsten Carbide

**Weight:** 2 Lbs.

**Orifice:** .125 Diameter

**Cv Factor:** .33

**Operating Temperature:** -20° F to +250° F (-29° C to +121° C)

**Overall Dimensions:** 6 Height x 1-3/4 Diameter (15.24 cm Height x 4.45 cm Diameter)

**Installation and Maintenance Instructions:**

Insert into the relief port of the system. Sigma recommends the use of appropriate thread sealant for each port connection.

**Shelf Position Port Status**

**Inlet** Hydraulic Fluid Supply Closed (Blocked)

**Exhaust** Hydraulic Fluid return to Reservoir

**Repair Kit Information**

Repair Kits contain all of the Seals and other components typically replaced when repairing the assembly. In order to maintain optimum operating control function, Sigma recommends changing the Repair Kit items once every two (2) years.