

Relief Valve

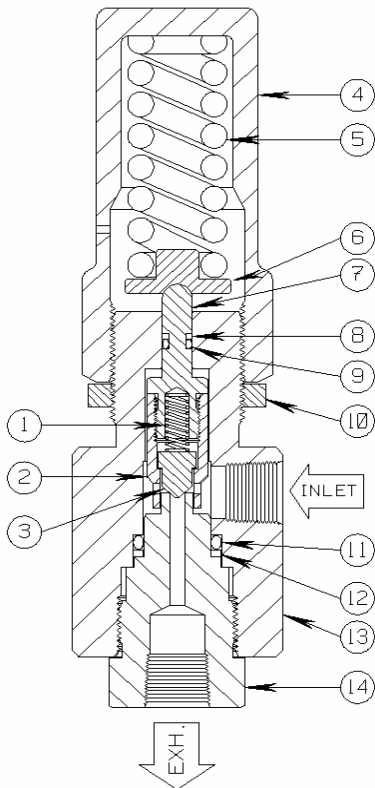
Hydraulic

1/4" FEMALE NPT, 5,000 PSI MAX

Model 24RV14



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



The **24RV14** 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 24RV14

1/4" FEMALE NPT, 5,000 PSI MAX

Product Specifications

Piston Movement: Two Position, Normally Closed

Body Pressure Rating (Inlet Port): 5,000 PSI maximum (344 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.