

# Relief Valve

## Pneumatic

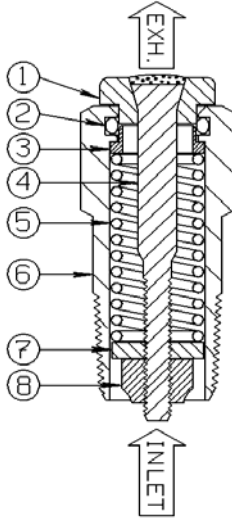
1/2" MALE NPT,

Model 24RV1, 150 PSI MAX

Model 24RV2, 300 PSI MAX

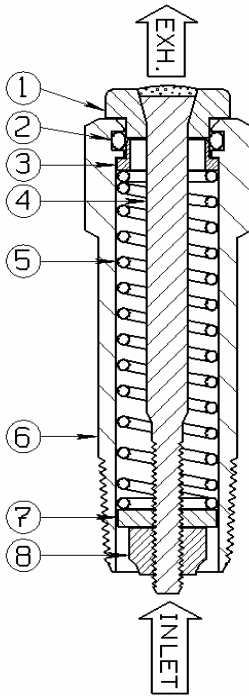


Conforms to the CE Category IV of the European Pressure Equipment Directive Issue Certificate No. 97/23/EC



The **24RV1** and **24RV2** Relief Valves are two position, two-way normally closed, adjustable pressure relieving (spring/sensing poppet operated), flow control valves. They have excellent pressure relief and reset repeatability. These Relief Valves or Pressure Safety Valves (PSV) are most commonly used to protect pneumatic Surface Safety Valve (SSV) cylinders from abnormal pressure increases. When operating pressure within a control circuit increases to a predetermined relief setting (150 or 300 PSI), excess pressure will be dispersed between the Relief Valve Body and Poppet assembly.

The **24RV1** (top drawing) is designed to relieve pneumatic pressure up to **150 PSI**.

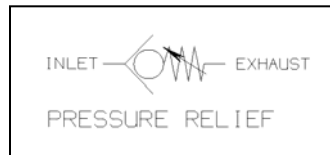


The **24RV2** (bottom drawing) is designed to relieve pneumatic pressure from **175** to **300 PSI**.

### PARTS LIST:

1. Poppet Seat
2. Quad Ring \*
3. Seal Retainer
4. Poppet Stem
5. Spring
6. Valve Body
7. Spider Nut
8. Nylok Nut

\* Indicates parts included in a Repair Kit



# Sigma Model Number 24RV1/24RV2

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## Product Specifications

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

**Body Pressure Rating (Inlet Port):** 24RV1 - 150 PSI maximum (10.34 bar)  
24RV2 - 300 PSI maximum (20.68 bar)

**Instrument Media Service:** Pneumatic

**Connection Size:** 24RV1 - 1/2-14 Male N.P.T. Supply  
24RV2 - 1/2-14 Male N.P.T. Supply

**Assembly Size:** 24RV1 – 2.12” O.A.L., 1.0” Hex Diameter  
24RV2 – 3.0” O.A.L., 1.0” Hex Diameter

**Mounting:** SSV Actuator mounted assembly

**Seal Material:** Viton

**Component Material (Metal):** 316 Stainless Steel

**Weight:** 1 Lbs.

**Installation and Maintenance Instructions:**

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

**Valve Connections (Ports)** Control Function Assumed

**Supply** Pneumatic Instrument Supply Closed (Blocked)

**Exhaust** Disperses to atmosphere

**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.