

Quick Exhaust Valve

Pneumatic

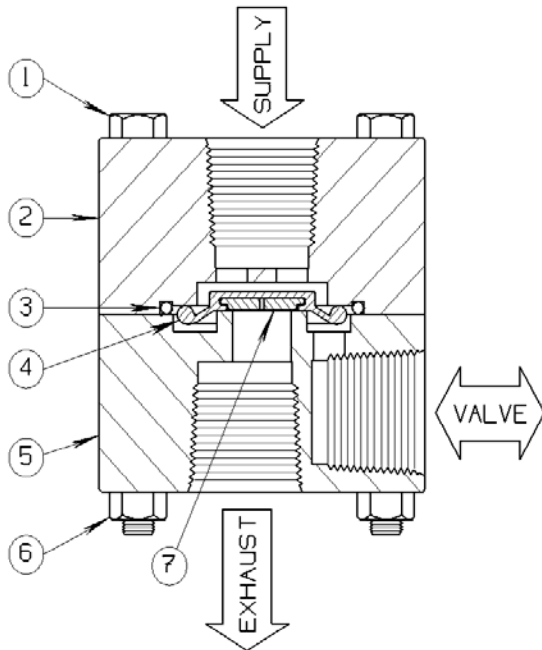
1/2" FEMALE NPT, 150 PSI

Model 13QS42 Standard Service

Model 13QS43 H2S Service



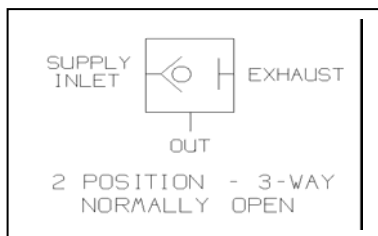
Conforms to the SEP category of the European Pressure Equipment Directive
Issue No. 97/23/EC



The **13QS42/43** is a two position, Flapper Seal operated, control valve assembly with **high flow exhaust** capacity. This 1/2-14 N.P.T. valve has a maximum operating pressure of 150 PSI. It establishes flow from the Supply to Valve connections (inlet to outlet) to open a Surface Safety Valve (SSV or pneumatic Actuator), automatically with each application of operating pressure.

A loss or significant decrease of operating pressure will rapidly unseat the Flapper Seal to establish high volume reverse or Exhaust flow. Rapid closure of an Actuator valve is assured with the use of a Quick Exhaust Valve.

The Flapper Seal is made from injection molded Viton material for long product life and reliability.



PARTS LIST:

- | | |
|-----------------|-------------------|
| 1. Hex Bolt | 5. Upper Body |
| 2. Upper Body | 6. Hex Nut |
| 3. O Ring | 7. Flapper Insert |
| 4. Flapper Seal | |

Sigma Model Number 13QS42/43

1/2" FEMALE NPT, 150 PSI

Product Specifications

Flow Control Application: Quick Exhaust

Control Function: Three-Way Flapper Seal Operated

Pressure Rating Body (Control Ports): 150 PSI maximum (10.34 bar)

Seal Material: Viton

Connection Size (Body): 1/2-14 Female N.P.T. (Supply, Valve, Exhaust)

Wetted Component Material (Metal): 316 Stainless Steel

Mounting: Line Mount

Orifice: 15/32 Diameter **Cv Factor:** 1.19

Weight: 3.2 Lbs.

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

Overall Dimensions: 2-1/2 Height x 2-1/2 Diameter (6.35 cm Height x 6.35 cm Diameter)

Pressure Equipment Directive (PED): This product conforms to the SEP Category of the European P.E.D.

Installation and Maintenance Instructions:

Install between the interface valve and the actuator. This is done by threading the pipe or fitting from the control system into the port labeled "Supply". The piping from the actuator is threaded into the port labeled "Valve". A significant loss in pressure within the control system will trigger an exhaust of the actuator through the valve port and out the exhaust port. Sigma recommends the use of appropriate thread sealant for each port connection.

Shelf Position Port Status

Supply Inlet	Instrument supply pressure open to cylinder (SSV Actuator)
Valve	Outlet Pressure to cylinder (Closed to Exhaust Port)
Exhaust	Depressurizes cylinder upon loss of Supply Inlet