

Hygienic Safety Valve

The hygienic safety valve is designed to relieve pressure in steam, liquid and gas systems operating up to 11 bar/195 deg. C. Each valve leaving the factory will have been set and tested in accordance with BS 6759.

Valves for steam service are fitted with a diaphragm body seal whereas valves for liquid and gas duty are fitted with an O-ring body seal.

Installation(see illustrations overleaf)

Steam and gas applications:

1. Attach the valve inlet to the system connection by means of the shortest possible length of pipe with no intervening valve or fittings. The valve should be mounted vertically.

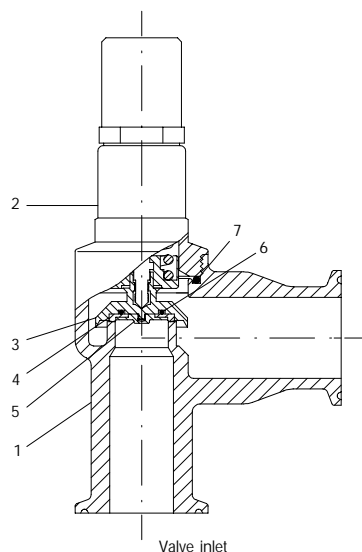
2. Connect the discharge piping. This should be of equal or larger diameter to that of the valve outlet. Ensure that this pipework is adequately supported and directed to a safe visible point of discharge. In steam relief applications where the outlet pipework is directed upward, an open drain must be provided at its lowest point.

Liquid applications:

1. In liquid relief applications, discharge pipework should have a continuous downward gradient to assist drainage. The valve may also be installed at a slight angle as illustrated to ensure that the valve body fully drains after discharge.

Maintenance

The set pressure and internal condition of the safety valve should be checked every twelve months. The relieving mechanism can be removed from the body for inspection without affecting the valves set pressure by loosening and removing the upper body(2). If the PTFE seat seal(4) is worn a replacement seal is available. This is held in place by the seat retainer(5) which is screwed onto the seat seal holder(3). Alternatively, a complete seat seal assembly is available. This screws onto the main stem and can be removed by hand. If aged or damaged the body seal should be replaced prior to reassemble. The valve set pressure should be checked prior to reinstallation.



Components

1.	Lower body and seat
2.	Upper body
3.	Seat seal holder
4.	Seal seal
5.	Seat retainer
6.	O-ring
7.	Body diaphragm seal or O-ring

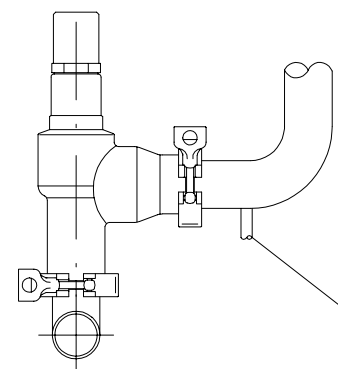
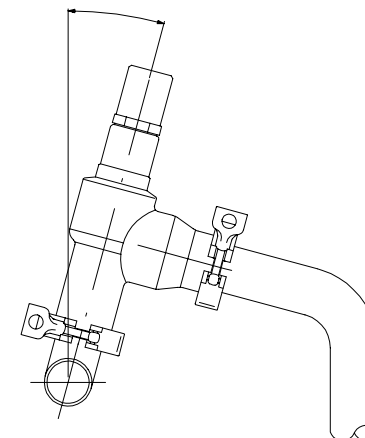
Available Spares

Seat assembly comprising items 3, 4, 5, & 6, seat seal only(4), body O-ring or diaphragm(7)

Note: Before removing a valve for testing or inspection, ensure that the system pressure has been fully relieved.

Valves can be returned to Staitech for maintenance and calibration.

Angled installation
to assist draining



Discharge drain must be fitted in steam service