



1.8.4 | Large Diameter Non-Return Valves

The Saniquip large diameter hygienic non-return valves are spring type non-return valves in a robust 3-piece bolted design. They are an excellent means of preventing reverse flow in large diameter lines.

They are manufactured in AISI 304 or 316L stainless steel and in sizes to suit 5", 6" and 8" O.D. tube sizes. Standard seals are in FDA compliant EPDM with other seal materials available on request.



1.8.5 | Non-Return Valves for Horizontal Installation - Self Drainable

The Saniquip SPH series non-return valves are designed for high purity pharmaceutical and biotech applications and are fully traceable for validation purposes. The unique body design means that the valve is self-drainable EVEN WHEN INSTALLED HORIZONTALLY. The valve is machined in two pieces from solid AISI 316L round bar. All product contact surfaces have a finish of Ra 0.5 micron or better as standard. The SPH series non-

return valves are sterilizable and autoclavable and meet the applicable 3A and FDA requirements. The body seal arrangement utilizes aseptic flange technology for maximum hygiene and cleanliness. As standard the seals are in silicone material but alternative seal materials are also available. The valves are suitable for use with liquids, gases or steam and are available in a wide range of sizes from 1/2" to 4".

1.9 | Constant Pressure Valve

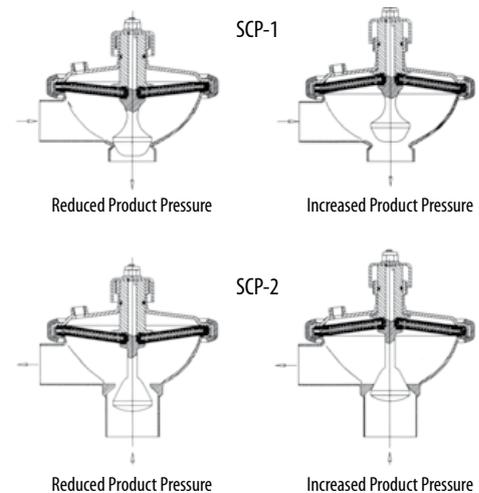


The Saniquip SCP constant pressure valves offer a simple method of maintaining a constant inlet or outlet pressure in process lines. They are remotely controlled using compressed air and require only a compressed air regulating valve and pressure gauge in the line for operation. An internal diaphragm and plug assembly reacts to any change in product pressure adjusting its position so that the preset pressure is maintained.

Two versions are available:

- Model SCP-1 maintains a constant pressure in the process line at the inlet side of the valve. This valve opens with increasing product pressure and closes with reducing product pressure.
- Model SCP-2 maintains a constant pressure in the process line at the outlet side of the valve. The valve closes with increasing product pressure and opens with reducing product pressure.

All product contact surfaces are in AISI 316L stainless steel. The diaphragm is in PTFE covered EPDM rubber (FDA 177.1550 compliant). As standard the SCP constant pressure valves are available in sizes from 1" to 2 1/2". A variant on the SCP-1 valve can be offered in larger sizes up to 4" on request.



1.10 | Combination Hygienic Vacuum/Pressure Valves for Tanks

1.10.1 | Stainless Steel Vacuum/Pressure Valves - 645 Series



The Saniquip 645 series vacuum/pressure valves are hygienic spring loaded breather valves designed to protect against damage due to vacuum or overpressurization in tanks. In its natural state the valve keeps the tank internals sealed from the outside atmosphere. If the pressure inside the tank drops below atmospheric the valve opens to suck in air and equalize the negative pressure. If the pressure inside the tank goes above atmospheric pressure then the internal overpressure relief mechanism lifts to release the pressure and restore equilibrium. On request the valves can be delivered with an integrated purge port allowing purging of the tank top with inert gas.

The valves are available in AISI 304L and 316L stainless steel and are

highly polished. As standard they are delivered with sanitary clamp type tank connection and with seals in FDA compliant silicone material (EPDM and Viton seal options are also available). They are manufactured in a range of sizes from 1 1/2" to 4".

Nominal opening pressures:

- Valve opening (vacuum break): Approx. 0.09 psi
- Valve opening (overpressure): Approx. 1 psi

Air flow capacity information for the 645L series valves can be provided on request.

1.10.2 | Plastic Vacuum/Pressure Valves - Model 113 & 251



The Saniquip range of plastic vacuum/pressure valves offer basic low cost underpressure and overpressure protection for tanks and vessels.

Model 113 is manufactured in Polyethylene material and has a 1 1/4" BSP externally threaded tank connection. It is delivered with mating Polyethylene nut and gasket

Model 251 is manufactured in ABS material and is delivered screwed on to a 2" size stainless steel Din male part suitable for welding. Valve opening is at approx. +/- 0.002 bar.