

## 1.12 Hygienic Vacuum Valves

Saniquip hygienic stainless steel vacuum valves are primarily fitted to tanks or vessels to minimize the risk of implosion due to vacuum created during emptying or cleaning regimes. They can be fitted to virtually any type of tank or to pipework and their hygienic design makes them suitable for use in a wide range of sanitary applications.

Advantages include simple design, high operational reliability, and high response sensitivity due to the low friction mechanics of the valves. We offer several different executions in both spring loaded and weight loaded designs. Capacity information can be provided for most designs.



### 1.12.1 | Spring Loaded Vacuum Valves

Spring loaded model 92210 is available in sizes from 25mm to 80mm and can be delivered in executions for either horizontal or vertical installation.

delivered with a CIP connection and miniature cleaning device installed in the housing.

Spring loaded model 92220 is available in sizes from 50mm to 150mm and is suitable for vertical installation only. On request this model can be



### 1.12.2 | Suspended Type Vacuum Valves

Saniquip suspended type vacuum valves are designed for optimum performance and complete cleanability. They are manufactured in 50mm and 100mm sizes as standard and can be delivered with a CIP connection and miniature cleaning device installed in the housing. The valves

are fitted with a pneumatic seat lift actuator for seat lifting during CIP. They can also be delivered with a proximity switch installed to indicate the fully open position during cleaning or as a function check.



### 1.12.3 | Weight Loaded Vacuum Valves - Lever Type

Saniquip lever type weight loaded vacuum valves are of a simple, reliable and compact design. They offer high throughput rates and are capable of equalizing large pressure differences in a short time making them an excellent choice for the protection of large tanks. The lever type vacuum valves are manufactured in a wide range of standard sizes from DN50 to DN300.

Larger variants in DN400 and DN450 sizes can also be offered on request. These valves are commonly integrated into a tank top plate assembly or can be delivered with a mating counterflange for tank welding. Options such as integrated CIP system, splashguard and trace heating are also available.

## 1.13 Sample Valves

### 1.13.1 | Hygienic Sample Valves - Diaphragm Sealed

Saniquip SV1 sample valves offer an excellent hygienic design at a very competitive price. A food grade diaphragm in 3A compliant EPDM material serves as both body seal and seat seal. There is no product contact with the valve shaft/plunger arrangement behind the diaphragm. All product contact surfaces are in AISI 316 stainless steel and polished to a sanitary standard. The advanced design offers simplicity in

terms of installation and maintenance while also eliminating retention areas for additional protection against bacteriological growth. Standard execution is with a 12.7mm O.D. welding connection.



### 1.13.2 | Flushable Aseptic Sample Valves - Diaphragm Sealed

The Saniquip aseptic sample valves provide the optimum sampling solution for critical hygiene applications. They are manufactured in AISI 316L stainless steel with a highly polished surface finish. As standard the valves are fitted with an FDA compliant silicone diaphragm (PTFE on request) and an additional CIP or SIP flushing port.

**Features and advantages include:**

- Zero dead leg. Once installed the sealing plug shuts off flush with the inlet port.
- The diaphragm acts as both body seal and seat seal. There is no product contact with the valve shaft/plunger arrangement behind the diaphragm
- The additional flushing port is used to ensure that the valve internals are sterile prior to any sample being taken. It can be utilised as a CIP flushing port, as an SIP flushing port, or as a filling inlet for clients who prefer to cap off the outlet and keep the valve filled with sterilizing solution when not in use for sampling.
- Two manual activation options are available - a PTFE turn knob or a stainless steel on/off lever handle

- Fully autoclavable
- Either welding or sanitary clamp type tank connection (Ingold connection also available on request)
- Flushing and outlet connections are standard miniature clamp ferrules eliminating the need for costly proprietary mating connection parts or caps. Hose tail connections or welding connections can also be offered on request.
- Fully traceable for validation purposes. Most models available with material test certificate EN 10 204 3.1.B, surface finish test certificate, 3A sanitary standards compliance certificate & FDA compliance certificate for diaphragm material

The Saniquip aseptic sample valves are also available in a pneumatically operated execution fitted with a single acting stainless steel pneumatic actuator. On request the actuator can be delivered complete with a proximity switch to provide valve position feedback.

