

tapflo®

# HYGIENIC VALVES

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[www.tapflo.com](http://www.tapflo.com)

# Hygienic Valves

Hygienic valves from Tapflo are high-quality components made of forged 304L and 316L stainless steel.

All valves in our portfolio are serialized for full traceability, even 304L valves, and are manufactured within TÜV NORD ISO 9001: 2015 approved manufacturing process.

Valves are 3A and FDA certified for food and dairy use. They meet also pharmaceutical industry demands regarding USP Class VI elastomers.

With a broad range of hygienic processing valves and flow devices, we successfully serve the food, dairy, wine, beer, cosmetic, pharmaceutical, and allied sanitary industries.

From basic 304L to high purity 316L ASME BPE specifications, Tapflo has the experience and dedication to meet your sanitary valve requirements. In addition to the standard product, our designers offer engineering expertise and resources to provide custom product solutions.



## BUTTERFLY VALVE (100 SERIES)

The valve is a simple butterfly valve, which can be delivered with a manual handle or pneumatic actuator. The butterfly valve is the simplest valve consisting of two flanges.

**Sealing material:** EPDM, HNBR, FPM, VMQ, PTFE

**Size:** DN25 - DN100, 1" - 4"

**Max. line pressure:** 10 bar (145 psi)

**Supply pressure for air actuator:** 6 bar (87 psi)

**Sterilisation temperature:** 135°C (284°F)





## SINGLE-SEAT VALVE (801 SERIES)

A standard single-seat valve available in on/off, change-over, and tank-outlet versions. Many options available e.g. stroke limiter, oil dampening cylinder, steam barrier etc.

**Sealing material:** EPDM, VMQ, FPM, HNBR

**Size:** DN25 - DN100, 1" - 4"

**Max. line pressure:** 10 bar (145 psi)

**Supply pressure for air actuator:** 6 bar (87 psi)

**Sterilisation temperature:** 135°C (284°F)



## DOUBLE SEAT MIXPROOF VALVE (900 SERIES)

The valve has two valve stems and two valve seats for ultimate separation of two products. The seat lifting function and separate spraying of the leakage chamber ensures a complete and reliable cleaning.

**Sealing material:** EPDM/PTFE, HNBR/PTFE, FPM/PTFE, VMQ/PTFE

**Size:** DN25 - DN150, 1" - 6"

**Max. line pressure:** 10 bar (145 psi)

**Supply pressure for air actuator:** 6 bar (87 psi)

**Sterilisation temperature:** 135°C (284°F)



## SINGLE SEAT DOUBLE SEAL MIXPROOF VALVE (870 SERIES)

Single Seat Double Seal valves are used in automated piping systems where product mixing from pressure hammer or seat failure is a concern. SSDS valve is designed for safe media separation in hygienic process applications.

**Sealing material:** EPDM, HNBR, TFM diaphragm

**Size:** DN25 - DN100, 1" - 4"

**Max. line pressure:** 10 bar (145 psi); 5 bar (72 psi)

**Supply pressure for air actuator:** 5 - 8 bar (70 - 115psi)

**Sterilisation temperature:** 135°C (284°F)



## BUTTERFLY MIXPROOF VALVE (100 SERIES - BLOCK & BLEED)

The valve combines all advantages of the simplicity of a butterfly valve with sophisticated mixproof technology.

**Sealing material:** EPDM, HNBR, FPM, VMQ, PTFE

**Size:** DN25 - DN100, 1" - 4"

**Max. line pressure:** 10 bar (145 psi)

**Supply pressure for air actuator:** 6 bar (87 psi)

**Sterilisation temperature:** 135°C (284°F)



## PLUG VALVE (11 SERIES)

The plug valve consists of a valve body, plug and cover made from quality stainless steel. The plug is coated with a hard chrome coating followed by precision grinding and lapping to ensure leak proof and easy operations.

**Body material:** AISI 316L or AISI 304L

**Size:** DN25, DN40, DN50, DN65, DN80, DN100, 1", 1 1/2", 2", 2 1/2", 3", 4"

**Max. line pressure:** 4 bar

**Sterilisation temperature:** 135°C (284°F)



## PRESSURE RELIEF VALVE (70 SERIES)

Pressure relief valve is designed to protect installations against excess pressure. If the set pressure is exceeded, the valve opens. Equipped with seat lifting actuator for opening during line cleaning.

**Sealing material:** EPDM, HNBR, VMQ, FPM

**Size:** DN25 - DN100, 1" - 4"

**Max. line pressure:** 10 bar (145 psi)

**Supply pressure for air actuator:** 6 bar (87 psi)

**Sterilisation temperature:** 135°C (284°F)



## SANITARY BALL VALVE (52, 53, 54, 55 SERIES)

Sanitary Ball valve is used in process piping system for either isolation or diversion of the fluid, manually or automatically operated. A ball valve is constructed with a full bore or full port design with zero flow restriction making it a viscous or particulate liquid. Ball valves are available in different versions to suite its respective application.

**Material:** EPDM/PTFE, FPM/PTFE, HNBR/PTFE, VMQ/PTFE

**Size:** DN25 - DN100, 1" - 4"

**Max. line pressure:** 10 bar (145 psi)

**Supply pressure for air actuator:** 6 bar (87 psi)

**Sterilisation temperature:** 135°C (284°F)



## DIAPHRAGM VALVE (40 SERIES)

Diaphragm valves are designed as per ASME BPE specifications, and are ideal for areas in ultra hygienic and aseptic applications. The valves basic function is to either throttle the flow, shut-off the flow or is used for sampling purposes.

**Sealing material:** EPDM, HNBR, VMQ, FPM

**Size:** 1/2", 3/4", 1", 1.5" & 2"

**Max. line pressure:** 10 bar (145 psi)

**Supply pressure for air actuator:** 6 bar (87 psi)

**Sterilisation temperature:** 135°C (284°F)



## LINE COMPONENTS (SIGHT GLASSES, FILTER & STRAINER)

Inline sight glasses are used in pipelines for visual observation of product flow. The food grade polycarbonate tube is as clear as glass and it is unbreakable under normal use. Optionally made of Borosilicate.

Filters allow the removal of fine particles from various liquids. Stainless steel mesh can be reused after cleaning. All Seats and Seals are made from FDA approved materials

**Sealing material:** Sight Glasses: PTFE, VMQ; Filters: EPDM, HNBR, VMQ, FPM

**Size:** Sight Glasses & Filters: DN25 - DN100, 1" - 4"

**Max. line pressure:** Sight Glasses: 10 bar; Filters: 8 bar



## SAMPLING VALVE (33, 34, 35, 36 SERIES)

Sampling valves are made of high quality AISI 304 or 316L raw material. They are designed for higher flow, easy sampling and effective cleaning after the sampling activity. Sampling valves can be equipped with steam connection for sterilization.

**Sealing material:** EPDM, HNBR, FDM, VMQ

**Size:** DN25 - DN100, 1" - 4"

**Max. line pressure:** 10 bar (145 psi)

**Supply pressure for air actuator:** 6 bar (87 psi)

**Sterilisation temperature:** 135°C (284°F)



## CONTROL UNIT (ETOP-2D, ETOP-2A)

The control unit is directly mounted onto the valve actuator. An inside solenoid valve switches the air supply to the actuator either on or off.

**Sensors:** Feedback for open/closed position

**Temperature range:** -20 - 70°C (-42 - 147°F)

**Protection class:** IP 67

**Supply voltage:** 24 - 48 V DC/24 V AC/110 V AC



## TANK VALVES (645 SERIES )

A light weight seat-seal assembly with calibrated spring is enclosed in a special polymer bushing. The bushing is guided in a stainless steel housing. The Tank Vent is used as a breather valve to avoid vacuum or over pressurization inside a tank or piping system.

**Sealing material:** EPDM, FPM, VMQ

**Size:** DN40 - DN100, 1 ½" - 4"

**Vacuum break:** 0,007 bar (0,09 psi)

**Opening from positive pressure:** 0,07 bar (1 psi)

**Sterilisation temperature:** 135°C (284°F)



## CHECK VALVE (64, 65 SERIES)

The valve opens as soon as the pressure under the valve seat exceeds the counter pressure. When the pressure is balanced, the valve closes by spring action, which means that in case of a pressure increase, the valve closes on the spring side.

**Sealing material:** EPDM, HNBR, VMQ, FPM

**Size:** DN25 - DN150, 1" - 6"

**Max. line pressure:** 10 bar (145 psi)

**Sterilisation temperature:** 135°C (284°F)



## STERILE CONNECTOR

Sterile connectors are an engineered design to reduce the holdup volume, when used in tank or piping systems. Using the sterile connector in process system helps to reduce the holdup volume and eliminates dead zones, ensuring easy & effective cleaning of the system. These connectors use the proven sanitary clamp design to seal the surface and are often used with different types of sensors, sampling valves, view sight glasses and many such applications where dead zones are to be avoided.

**Sealing material:** EPDM, HNBR, VMQ, FPM

**Size:** DN25 - DN100, 1" - 4"

**Max. line pressure:** 10 bar (145 psi)

**Supply pressure for air actuator:** 6 bar (87 psi)

**Sterilisation temperature:** 135°C (284°F)



## SPRAY BALL (17 SERIES)

Spray balls are used in tank systems primarily for effective cleaning of the tank's inside surface. Spray balls can be offered as static or dynamic, also commonly referred to as rotating spray balls. Both versions can be offered in a variety of configurations based on the system's cleaning requirements.

**Material:** AISI304L, AISI316L

**Size:** DN25 - DN100, 1" - 4"

**Max. line pressure:** 10 bar (145 psi)

**Supply pressure for air actuator:** 6 bar (87 psi)

**Sterilisation temperature:** 135°C (284°F)



## VALVE MANIFOLD

For many applications, Tapflo supplies valve clusters (manifolds) mounted on a stainless steel frame. There are several advantages to the pre-fabricated manifold:

- Uniform and better quality of welding and surface finish.
- Valve Clusters (Manifold) can be pre-tested before dispatch.
- Cost-effective solution & lower start-up time for system/plant.

**Sealing material:** EPDM, HNBR, VMQ, FPM

**Size:** DN40-DN100; 1,5" - 4"

**Max. line pressure:** 10 bar (145 psi)

**Supply pressure for air actuator:** 6 bar (87 psi)

**Sterilisation temperature:** 135°C (284°F)

# Product range

## Diaphragm pumps & accessories

**NEW**



**Electrically operated pumps**



**PE & PTFE pumps**



**Metal pumps**




**Pharmaceutical pumps**



**Sanitary pumps**



**TC Intelligent pumps**



**Powder pumps**



**TF Filter press pumps**

**NEW**



**Steinle filter press pumps**



**Aseptic pumps**

**CERTIFIED**  
**CHDC**  
TYPE EL CLASS I SEPTEMBER 2021

## Peristaltic Pumps



**Active pulsation dampeners**



**Systems & accessories**



**Trolleys**



**PT pumps**



**PTL pumps**

## Centrifugal pumps, filter units & accessories

**NEW**



**CTX centrifugal pumps**



**CTI & CTH centrifugal pumps**



**CTS self-priming centrifugal pumps**



**CTV vertical centrifugal pumps**



**CTP plastic centrifugal pumps**



**CTM magnetic drive centrifugal pumps**



**Trolleys**



**FT Filter units**

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*We began our journey in 1980 in Kungälv, a small town on the Swedish west coast, as a family company with an ambition to one day become a global player on the pump market.*

*Since the foundation, we have taken pride in delivering a wealth of knowledge and passion for pumps to the industry, whilst supplying a wide range of premium products for various industrial applications.*

*Over the years, the company has developed into a global Tapflo Group with branches and distributors present in nearly every region of the world.*

*One thing did not change - we are still a family company.*

## Tapflo products and services are available worldwide.

Tapflo is represented by own Tapflo Group Companies and carefully selected distributors assuring highest Tapflo service quality for our customers' convenience.

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