

HYGIENIC VALVES

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» All about your flow™

We began our journey 40 years ago 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 1980, 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.

Our solutions are designed and manufactured in Europe and distributed globally to offer the best service and flow solutions to our customers for a variety of applications.

Our values, Commitment, Quality and Simplicity are reflected both in our product and business approach.



For fast and flexible service and high-quality products readily available worldwide, choose Tapflo.

Quality commitment

At Tapflo we are simply committed to quality. As a result, our production standards, as well as products quality, comply with various globally recognised certification and quality control standards. The Tapflo manufacturing process is certified according to ISO 9001:2015, confirming that our processes are appropriate, effective, customer-focused and continuously improved.



Tapflo values

Our culture is concluded in Our values

Commitment

We are different from our competitors because of our willingness to exceed the customers' expectations, move fast and be flexible. Our culture is based on the spirit of togetherness, enthusiasm and integrity. We come from all over the world, but we share the same values and we respect each other. We are committed.

Quality

We understand that the quality in our work is never better than the weakest link, that's why we focus on every small detail. We share a common passion for continuously finding more efficient and effective ways to provide value to our customers. As a manufacturer we have control of the complete process both in terms of our products and the way we operate internally. That is why we manufacture the highest quality pumps in our segment.

Simplicity

We have a saying, "Simple is art" which means we try to find smooth and uncomplicated solutions in everything. By keeping it simple we can focus on the essential, like designing uncomplicated pumps with few components. For us it is a key to success; strive to simplify what is complex.



BUTTERFLY VALVE (DELTA SV/SVS, 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 - 100 and 1" - 4"; DN25 - 250 and 1" - 4"
Max. line pressure: 10 bar (145 psi)
Min. control air pressure: 6 bar (87 psi)
Sterilisation temperature: 135°C (284°F)

SINGLE-SEAT VALVE (DELTA SW4, 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, HNBR, VMQ, FPM, HNBR
Size: DN10-150 1/2" - 6"
Max. line pressure: 10 bar (145 psi) (DN10 - 20: 5 bar) (72 psi)
Min. control air pressure: 6 bar (87 psi)
Sterilisation temperature: 135°C (284°F)



DOUBLE SEAT MIXPROOF VALVE (DELTA DA3+, DE3, DA4, 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, SILI-CON/PTFE
Size: DN25 - 150 1.5" - 4" and 6"
Max. line pressure: 10 bar (145 psi)
Min. control air pressure: 6 bar (87 psi)
Sterilisation temperature: 135°C (284°F)

ASEPTIC SINGLE SEAT VALVE (DELTA MS4/MSP4)

An aseptic single seat valves are designed for aseptic applications in the food, beverage, dairy, pharmaceutical and chemical industries. The valves are available in shut-off or change-over design as well as for manifold or tank outlet applications.

Sealing material: EPDM, HNBR, FPM, VMQ
Size: DN25, DN40, DN50, DN65, DN80, DN100 1", 1.5", 2", 2.5", 3", 4"
Max. line pressure: 10 bar (140 psi)
Min. control air pressure: 6 bar (87 psi)
Sterilisation temperature: 135°C (284°F)



ASEPTIC VALVE (DELTA AP1)

A diaphragm valve range offers optimum protection of the product in aseptic applications. Product safety is provided by the hermetic separation of the product chamber from the environment (atmosphere) by a flexible diaphragm shaft. The function of the valve is to shut off line sections or aseptic tanks.

Diaphragm material: PTFE TFM 1705 (FDA 21CFR177.1550, USP Class VI)

Size: DN10, DN15, DN20 ½"

Max. line pressure: 10 bar (145 psi)

Min. control air pressure: 6 bar (87 psi)

Sterilisation temperature: 135°C (284°F), short-term SIP 150 °C



SINGLE SEAT DOUBLE SEAL MIXPROOF VALVE (DELTA SD4/SDM4, 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: DELTA SD4: DN25-100 and 1" - 4" DELTA SDM4: DN40-65 and 1.5" - 2.5"

Max. line pressure: DELTA SD4: 10 bar (145 psi) DELTA SDM4: 5 bar (72 psi)

Min. control air pressure: 6 bar (87 psi)

Sterilisation temperature: 135°C (284°F)



MIXPROOF BALL VALVE (DELTA DKR)

A ball valve with two seat seals to ensure timely discovery of leakages. The throughflow openings are absolutely smooth and correspond to the pipe diameter.

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

Size: DN25 - 125 1" - 4"

Max. line pressure: DKR: 10 bar (145 psi) DKRH: 100 bar (1450 psi)

Min. control air pressure: 6 bar (87 psi)

Sterilisation temperature: 135°C (284°F)



BUTTERFLY MIXPROOF VALVE (DELTA DSV, 100 SERIES - BLOCK & BLEED)

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

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

Size: DN50 - 125 3"; EPDM, HNBR

Max. line pressure: DN50 - 65: 5 bar (72 psi) DN80 - 125: 6 bar (87 psi)

Min. control air pressure: 10 bar (145 psi); (DN125: 6 bar) (87 psi)

Sterilisation temperature: 135°C (284°F)



REGULATING VALVE (DELTA RG4)

The valve is designed for continuous flow control. It is equipped with a diaphragm actuator and positioner

Sealing material: EPDM, FPM, HNBR, VMQ

Size:

DN25-150 1" - 4"; PN 25 - DN25 - 65; PN 16 - DN80 - 100; PN 10 - DN125 - 150

Max. line pressure: 16 bar (232 psi)

Min. control air pressure: 4 bar (58 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.

Sealing material: AISI 316L or AISI 304L

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

Max. line pressure: 4 bar

Sterilisation temperature: 135°C (284°F)



CONSTANT PRESSURE VALVE (DELTA CPV)

To keep a constant pressure, the free flow section at the valve seat is reduced or enlarged by the valve cone. Via the valve shaft, the cone is connected to a regulating membrane, which will be backed up with air at a set pressure.

Size: DN25 - 50 2"

Max. line pressure: 6 bar (87 psi)

Min. control air pressure: 7 bar (101 psi)

Sterilisation temperature: 135°C (284°F)



SAFETY VALVE (DELTA SI2)

To protect vessels and piping systems from over pressure. The standard valve comes with pneumatic seat lift actuator.

Sealing material: EPDM, HNBR, VMQ, FPM

Size: DN25 - 100

Max. line pressure: 10 bar (140 psi)

Min. control air pressure: 6 bar (87 psi)

Sterilisation temperature: 135°C (284°F)



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

Sanitary Ball valve is used 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.

Diaphragm material: EPDM/PTFE, FPM/PTFE, HNBR/PTFE, VMQ/PTFE

Size: DN25 - 125 1" - 4"

Max. line pressure: 10 bar (145 psi)

Min. control air pressure: 6 bar (87 psi)

Sterilisation temperature: 135°C (284°F)



SAMPLING VALVE (DELTA PR/PRD, 33, 34, 35, 36 SERIES)

Sampling valves are made up 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 - 100 1" - 4"

Max. line pressure: 10 bar (145 psi)

Min. control air pressure: 6 bar (87 psi)

Sterilisation temperature: 135°C (284°F)



CHECK VALVE (DELTA RUF, VPN, 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 - 150 1" - 4"

Max. line pressure: 10 bar (145 psi)

Sterilisation temperature: 135°C (284°F)



PRESSURE RELIEF VALVE (DELTA UF/UFR, 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 - 100 1" - 4"

Max. line pressure: 10 bar (145 psi)

Min. control air pressure: 6 bar (87 psi)

Sterilisation temperature: 135°C (284°F)



VACUUM VALVES (DELTA VRA/VRAH)

In the brewing, beverage, dairy and food sector, vacuum valves APV VRA and APV VRAH are used to protect tanks and vessels against vacuum.

Sealing material: EPDM, FPM, VMQ

Size: DN25 - 150

Max. line pressure: 10 bar (145 psi)

Min. control air pressure: 6 bar (87 psi)

Sterilisation temperature: 135°C (284°F)



TANK VALVES (645 SERIES)

A lightweight 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 - 100, 1,5" - 4"

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

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

Sterilisation temperature: 135°C (284°F)



CONTROL UNIT (DELTA CU4; 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



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 - 100, 1" - 4"

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

Max. temperature: Polycarbonate (Lexan): 100 °C (244°F),
Borosilicate (Pyrex): 110 °C (244°F)

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Tapflo products and services are available in 75 countries on 6 continents.

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

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