ASEPTIC VALVE PROGRAM

modular, solid, reliable and long-lasting – for maximum production security
mts® flowtec – Your partner

- mts® Sterile Valves have for more than 35 years convinced numerous international clients with robust, reliable and safe technology.
- mts® Sterile Valves are machined from solid one-piece material and provide optimal process safety.
- The valve’s modular design enables short delivery times.
- The minimum spare parts requirement lowers your Total Cost of Ownership.

mts® Sterile Valves – Advantages that pay off!

mts® Seat Valves
- For use in sterile production plants
- Valves designed for highest hygienic requirements
- Sterilizing temperature up to 150°C (302°F)
- Optimal CIP cleanable
- Made of stainless steel
- 3-A approved
- Made in Switzerland

mts® Double-Seat Valves
- For use in sterile production plants
- Valves designed for highest hygienic requirements
- Safe product separation by constant steam pressure in the separation chamber
- Sterilizing temperature up to 150°C (302°F)
- Optimal CIP cleanable
- Made of stainless steel
- 3-A approved
- Made in Switzerland
- Individual Seat lifting of the valve seats (single seat lifting)
- New: optimized seat seal design for minimal wear and tear

3A Standard
Introduced in 1956, the 3-A Symbol is a registered mark used to identify equipment for the food industry that meets 3-A Sanitary Standards for design and fabrication. mts® flowtec as a leading provider of sterile process technology is authorized to display the 3-A symbol on our valve products.
mts® small aseptic valves in the N25 series (DN 15 and 25)
Are manufactured for nominal diameters of 15 and 25. Shut-off, switch-over, pressure retention and control valves are available for all applications. The N25 aseptic valves are primarily used in small installations and pilot plants, and for a wide variety of applications in the cosmetic and pharmaceutical industries.

mts® large aseptic valves in the N30 series (DN 40 up to 100)
Are manufactured for nominal diameters from 40 to 100. Shut-off, switch-over, pressure retention, homogeniser and control valves are available for all applications. The N30 aseptic valve is mostly used in the dairy, beverage and food industries, but also in the cosmetic, pharmaceutical and chemical industries.

mts® double-seat aseptic valves in the N35 series
Are manufactured for nominal diameters from 50 to 100. They are used as shut-off valves in pipelines, or as outlet valves welded directly into tank container floors, and find applications in the dairy, beverage and food industries as well as in the pharmaceutical and chemical industries.

mts® bellows monitoring
Used as option on all mts® aseptic valves. The bellow monitoring operates without an external supply of energy, guaranteeing maximum technical security to your products.
mts® Aseptic Stop Valve N25/N30

Applications for the N25 series
(DN 25 & DN30)
mts® aseptic stop valves of the N25 series. They are shut-off units, primarily used in the pharmaceutical industries, in pilot plants, as sampling valves or as steam valves in aseptic clusters.

Applications for the N30 series
(DN 40, 50, 65, 80 and 100)
mts® aseptic stop valves of the N30 series. They are shut-off units used primarily in the dairy, beverage and food industries, but also in the cosmetic, pharmaceutical and chemical industries.

Optional features
- Electrical feedback unit for two valve positions
- Feedback Unit equipped with AS-i bus or DeviceNet
- Manual or pneumatic stroke limiter for throttling the product flow
- Bellow monitoring system

Special design
- Housing with offset nozzles for valves mounted upside down
- Valve with manual, electrical or air/air actuator

Technical Data

<table>
<thead>
<tr>
<th>Connections</th>
<th>DIN 11850 1+2 Inch/ ISO</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product pressure</td>
<td>max. 6 bar</td>
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<tr>
<td>Compressed air</td>
<td>min. 6 bar, max. 8 bar dry and oil free</td>
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<tr>
<td>Materials</td>
<td>product-wetted 1.4404 / 1.4435 / 1.4571 Ra ≤ 0.8 μm</td>
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<tr>
<td>Actuator</td>
<td>1.4301 bright metal</td>
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<tr>
<td>Seals</td>
<td>PTFE-FDA or EPDM-FDA</td>
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<tr>
<td>Bellow service life</td>
<td>200’000 Strokes or 3 years</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>max. 150°C</td>
</tr>
</tbody>
</table>

Also available for your special needs, like products with solid parts, etc.
mts® Aseptic Change-over Valve N25/N30

Applications for the N25 series (DN 25 & DN30)
mts® aseptic change-over valves of the N25 series. They are diverting devices, primarily used in the pharmaceutical industries, in pilot plants, as sampling valves or as steam valves in aseptic clusters.

Applications for the N30 series (DN 40, 50, 65, 80 and 100)
mts® aseptic change-over valves of the N30 series. They are diverting devices used primarily in the dairy, beverage and food industries, but also in the cosmetic, pharmaceutical and chemical industries.

Optional features
- Electrical feedback unit for two valve positions
- Feedback Unit equipped with AS-i bus or DeviceNet
- Manual or pneumatic stroke limiter for throttling the product flow
- Bellow monitoring system

Special design
- Housing with offset nozzles for valves mounted upside down
- Valve with manual, electrical or air/air actuator

Technical Data

Connections DIN 11850 1+2
Inch / ISO

Product pressure max. 6 bar

Compressed air min. 6 bar, max. 8 bar dry and oil free

Materials product-wetted
1.4404 / 1.4435 / 1.4571
Ra ≤ 0.8 μm

Actuator 1.4301 bright metal

Seals PTFE-FDA or EPDM-FDA

Bellow service life 200'000 strokes or 3 years

Operating temperature max. 150°C
**mts® Aseptic Double Seat Valve N35**

For a safe separation of two process lines in sterile process plants.

Either as shut-off devices in pipelines, or welded directly into the bottom of the container on tanks, they are used in the dairy, beverage and food industries, but also in the cosmetic, pharmaceutical and chemical industries.

![Diagram of valve](image)

**Applications for the N35 series (DN 50–100)**

The mts® double-seat aseptic valve is a pneumatically operated seat valve developed to facilitate safe and reliable separation of two different liquid products in aseptic processing plants. The barrier chamber in the mts® double-seat aseptic valve is always under steam pressure. In this way, by controlled flushing and heating, an aseptic chamber can be maintained as the barrier between the two seat seals.

**Standard Design**

The valve consists of a pneumatically operated multi-stage actuator, which is connected to the valve body by means of a clamping ring. Two metal gaiters provide a hermetic seal. The barrier seals are FDA approved.
**Working Principle**
The mts® double-seat aseptic valve is closed when in a depressurized mode. Four different valve positions can be assumed and monitored. The following illustrations show the individual valve positions.

**Closed Valve**
The steam barrier is active. Saturated steam is applied at both seat seals and at the condensate valve in the barrier chamber, providing safe and sterile separation between the two product lines.

**Lower and Upper Valve Seat Cleaning**
With the valve seat slightly raised, condensate and steam are forced under pressure out of the barrier chamber into the depressurized, discharged line.

**Barrier Chamber Sterilization**
With the condensate valve open, the barrier chamber is heated and sterilized with saturated steam. The temperature is monitored downstream of the condensate valve.

**Standby Position (Short Stop)**
The barrier chamber is closed. The two product lines are separated by seal of the upper valve seat. In the event of short interruptions, production can be stopped with this simple shut-off function.

**Open Valve**
The two product lines are connected, allowing the product to flow through the double-seat valve.
mts® Aseptic Double Seat Valve N35

Applications for the N35 series (DN 50, 65, 80 and 100)
They are shut-off units used primarily in the dairy, beverage and food industries, but also in the cosmetic, pharmaceutical and chemical industries.

Optional features
- Control top with feedback and solenoid valves
- Feedback unit with proximity switches
- Bellow monitoring system

Special design
- Housing with MIX connections, nozzles at the side with larger widths

Technical Data

Connections DIN 11850 1+2
Inch/ ISO
Product pressure max. 6 bar recommended lower than steam pressure
Steam pressure max. 4 bar saturated steam, 152 °C, recommended 2 to 3 bar, 134 up to 144°C
Steam consumption Sterilization approx. 4 kg/h, Seat cleaning approx. 35 kg/h
Compressed air min. 6 bar, max. 8 bar dry and oil free

Materials product-wetted 1.4404 / 1.4435 / 1.4571 Ra ≤ 0.8 μm
Actuator 1.4301, bright metal
Seals EPDM-FDA
Actuator seals 200’000 strokes or 3 years
Product seals 4000 strokes or 6 months
ActuatorsSeals 200’000 strokes or 3 years

Air connections
AC1, cleaning upper valve seat
AC2, standby position
AC3 + AC2, open valve
AC4, cleaning lower valve seat

Operating temperature max. 150°C
**Aseptic Double Seat Tank Bottom Valve N35**

**Applications for the N35 series (DN 50, 65, 80 and 100)**
As outlet valve, welded directly into the bottom of a tank, they are used primarily in the dairy, beverage and food industries, but also in the cosmetic, pharmaceutical and chemical industries.

**Optional features**
- Control top with feedback and solenoid valves
- Feedback unit with proximity switches
- Bellow monitoring system

**Technical Data**

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<th>c</th>
<th>d</th>
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<th>weight</th>
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**Connections**
- **DIN 11850 1+2**
- **Inch/ ISO**

**Product pressure**
- max. 6 bar recommended lower than steam pressure
- **Steam pressure**
  - max. 4 bar saturated steam, 152 °C, recommended 2 to 3 bar, 134 up to 144°C

**Steam consumption**
- Sterilization approx. 4 kg/h
- Seat cleaning approx. 35 kg/h

**Compressed air**
- min. 6 bar, max. 8 bar dry and oil free

**Materials**
- product-wetted 1.4404 / 1.4435 / 1.4571 Ra ≤ 0.8 μm
- **Actuator** 1.4301, bright metal
- **Seals** EPDM-FDA

**Standzeiten**
- **Faltenbälge**
  - 200,000 Arbeitshübe oder 3 Jahre
- **Produktdichtungen**
  - 4,000 Arbeitshübe oder 6 Monate
- **Antriebsdichtungen**
  - 200,000 Arbeitshübe oder 3 Jahre

**Air connections**
- AC1, cleaning upper valve seat
- AC2, standby position
- AC3 + AC2, open valve
- AC4, cleaning lower valve seat

**Operating temperature**
- max. 150°C

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**Also available for your special needs, like product, etc.**

1.4404 / 1.4435 / 1.4571 Ra ≤ 0.8 μm

**Actuator** 1.4301, bright metal

**Seals** EPDM-FDA

**Standzeiten**
- **Faltenbälge**
  - 200,000 Arbeitshübe or 3 years
- **Produktdichtungen**
  - 4,000 Arbeitshübe or 6 months
- **Antriebsdichtungen**
  - 200,000 Arbeitshübe or 3 years

**Air connections**
- AC1, cleaning upper valve seat
- AC2, standby position
- AC3 + AC2, open valve
- AC4, cleaning lower valve seat

**Operating temperature**
- max. 150°C
mts® Aseptic Long-stroke Valve N25/N30

Applications for the N25 / N30 series (DN 25 up to 80)
MTS aseptic long-stroke valves of the N25 / N30 series. They are used as shut-off valves where products containing solid items up to 20 mm, such as pieces of fruit, are being conveyed. The sterile valve is mostly used in the dairy, beverage and food industries, but also in the cosmetic, pharmaceutical and chemical industries.

Optional features
- Electrical feedback unit for two valve positions
- Feedback Unit equipped with AS-i bus or DeviceNet
- Manual or pneumatic stroke limiter for throttling the product flow
- Bellow monitoring system

Special design
- Housing with MIX connections, nozzles at the side with larger widths
- Valve with manual, electrical or air/air actuator

Technical Data

<table>
<thead>
<tr>
<th>Series</th>
<th>DN</th>
<th>A</th>
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<th>C</th>
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</tbody>
</table>

Also available for your special needs, like products with solid parts, etc.
mts® Aseptic 3-Position Valve N25/N30

Applications for the N25 / N30 series (DN 25 up to 80)
They are used when it is necessary to hold product flow rate or product pressure constant by reducing the valve stroke. In addition to this, a third valve position, which can be freely adjusted anywhere between open and closed, may be set pneumatically. The sterile valve is mostly used in the dairy, beverage and food industries, but also in the cosmetic, pharmaceutical and chemical industries.

Optional features
- Electrical feedback unit for two valve positions
- Feedback Unit equipped with AS-i bus or DeviceNet
- Bellow monitoring system
- Electrical feedback unit for three valve positions

Technical Data

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<tr>
<th>Series</th>
<th>DN</th>
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<th>A</th>
<th>B</th>
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<td>190</td>
<td>28</td>
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</table>

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Also available for your special needs, like products with solid parts, etc.

Also available for your special needs, like products with solid parts, etc.
Applications for the N25 / N30 series (DN 25 up to 80)
As homogenizer valves, they are primarily used for smoothing agitated products such as yogurt or jelly. The specially rounded valve cone and the continuous adjustable actuator guarantee that the products are treated gently.

As pressure maintenance or overflow valves they are used when it is necessary to hold system pressure constant in spite of varying product flows. The frictionless, pneumatic metal bellows actuator reacts quickly, and can easily and accurately be set by a pressure reduction unit.

The aseptic valve is mostly used in the dairy, beverage and food industries, but also in the cosmetic, pharmaceutical and chemical industries.

Optional features
- Electrical feedback unit for two valve positions
- Feedback Unit equipped with AS-i bus or DeviceNet
- Bellows monitoring system

Special design
- Air / air actuator

Technical Data

<table>
<thead>
<tr>
<th>Connections</th>
<th>DIN 11850 1+2</th>
</tr>
</thead>
<tbody>
<tr>
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<table>
<thead>
<tr>
<th>Product pressure max. 6 bar</th>
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</thead>
<tbody>
<tr>
<td>Compressed air min. 6 bar, max. 8 bar</td>
</tr>
<tr>
<td>dry and oil free</td>
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<thead>
<tr>
<th>Materials</th>
<th>product-wetted</th>
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<tbody>
<tr>
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<table>
<thead>
<tr>
<th>Actuator</th>
<th>1.4301, bright metal</th>
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<tr>
<th>Seals</th>
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<table>
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<th>Bellow service life</th>
<th>200’000 Strokes or 3 years</th>
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</table>

<table>
<thead>
<tr>
<th>Operating temperature</th>
<th>max. 150°C</th>
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</thead>
</table>
**Aseptic Control Valve N25/N30**

**Applications for the N25 / N30 series (DN 25 up to 80)**

MTS aseptic control valves of the N25 / N30 series. They are used where the flow rate or pressure of product must be regulated continuously. The sterile valve is mostly used in the dairy, beverage and food industries, but also in the cosmetic, pharmaceutical and chemical industries.

**Optional features**

- Analog or binary, electrical feedback
- Control Devices from numerous manufacturers
- Bellow monitoring system

**Special design**

- Valve with a manual or electrical actuator
- Special cone for regulating products containing solid items

**Technical Data**

**Connections**

<table>
<thead>
<tr>
<th>Series</th>
<th>DN</th>
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**Product pressure** max. 6 bar

**Compressed air** min. 6 bar, max. 8 bar dry and oil free

**Materials** product-wetted

1.4404 / 1.4435 / 1.4571 Ra ≤ 0.8 μm

**Actuator** 1.4301, bright metal

**Seals** PTFE-FDA or EPDM-FD

**Bellow service life** 200'000 Strokes or 3 years

**Operating temperature** max. 150°C
mts® Bellow Monitoring for mts® Aseptic Valves

**Application**
The mts® bellow control unit employing pressure measurement without external energy (BOF) can be used with all usual MTS aseptic valves that are regularly heated to at least 110°C above room temperature. The temperature increase must be provided rapidly (>2°C/s) in one go, as it is with steam or hot water sterilization.

**Principle of Operation**
In the three-layer metal bellow, the rise in air pressure in the hermetically sealed space between the inner and central bellow layer is monitored at the start of the valve sterilization procedure. Due to its dimensions, the inner bellow layer forms a breach location; this will be the first to rupture under conditions of heavy fatigue, therefore preventing a rise in pressure. The external layers, in contact with the product, won’t be damaged. An electronic switch monitors the pressure between the bellow layers. When exposed to heat for long periods, a vacuum breaker compensates, when cooled again, for any air diffusion losses that have developed.

**Structure**
The unit consists of a specially developed, three-layer metal bellow, a pressure switch with local display, a cable socket and a vacuum breaker. With the aid of a special intermediate piece, all mts® aseptic valves can be retrofitted without difficulty.

**Manual version**
Instead of direct feedback to the process controller during line sterilization (by means of the pressure switch) a manual version allows the bellow to be locally tested at any time on the fitted valve. The test equipment required for this consists of a manometer and a pump, easily attached to the outside of the valve.

**Technical Data**

**Material Stainless steel bellow**
1.4404 / 1.4435 / 1.4571

**Bellow service life**
200,000 strokes or 3 years

**Operating conditions**
max. 150°C, max. 6 bar

**Seals**
FPM (Viton)

**Material Vacuum breaker**
1.4404 / 1.4435 / 1.4571

**Opening pressure**
– 0.07 bar (– 1PSI)

**Material Pressure switch**
1.4404 / 1.4435 / 1.4571 PBTP

**Voltage**
18–30 V DC
As a company that specializes in the field of sterile technology we are happy to offer you our long-standing expertise in your planning tasks. We can support and work with you in the design and calculation of new installations. For your existing installations we can – in collaboration with you – work out new proposals to optimize and improve current production plants.

Each task is documented according to your requirement in the form of a flow-sheet and/or as a plant functionality description.

The design and fabrication of fluid engineering operations into compact skids is our speciality. Based on your process description or flow-sheet we will produce a 3D model which we then carry-out and professionally fabricate. In accordance with our customers we define and supply the required grade of documentation.

Our fully equipped work-shop and our well-educated staff will guarantee you an optimal result and safe functionality. We attach great importance to high-quality and long lasting design.
Ask for our detailed technical documentation on specific valves.

mts flowtec AG
Industrie Neuhof 28
3422 Kirchberg/Switzerland

Tel. +41(0)34 426 29 89
Fax +41(0)34 426 29 88

www.mts-flowtec.ch
info@mts-flowtec.ch