



Schubert & Salzer - Your Partner in the Food and Beverage Industry

## Benefit from our experience to increase your success!

When it comes to manufacturing or processing foodstuffs and beverages, having the right valve in the right place is essential if things are to run smoothly. Of course it is important to consider whether the valve comes into direct contact with the product or whether it is more indirectly concerned with the process. But while the requirements may vary depending on where a valve is used, they are always high: process-stability, life time, easy maintenance and precise quality control are just a few examples.

With Schubert & Salzer valves, you can be sure you have made the right choice. We have many years of experience as the trusted partners of a broad range of successful companies working in the food and beverage industry and our valves are used for a wide variety of applications. For example, they can be found in traditional bottling plants for beverages and dairy products. They also regulate the steam,

hot water, refrigerants, CIP cleaning media or gases which are required for the temperature control, sterilisation, autoclaving, carbonation or pasteurization of different products. And they can often be found in fermentation, smoking, cleaning or drying processes, or in the supply of fresh water or the regulation of brine or waste water.


Whatever the challenges in your process might be, you can rely on Schubert & Salzer to be a competent partner at your side. We do not just sell you an off-the-shelf product; we offer professional support and a valve solution which is designed to fit your individual requirements.

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# Sliding Gate Control Valve

 The GS-Valve and its applications – See the movie at: [controlsystems.schubert-salzer.com/en/gs-film](https://controlsystems.schubert-salzer.com/en/gs-film)

Media such as steam, hot or cooling water are used in heating, cooling, sterilising, autoclaving or pasteurising processes. Sliding gate valves are ideal when it comes to regulating these media. They are also used for process gases such as air, CO<sub>2</sub> or liquid nitrogen. Likewise with very high or very low temperatures, high pressure or when fast cycle times, high control precision or a high rangeability is required. Users appreciate the significantly reduced energy consumption, facilitated through the small actuator and the very short valve stroke of just 6-9 mm.

## Principle of the sliding gate control valve:

A sealing plate (2) fixed in the body (1) at right angles to the flow direction has a certain number of crossways slots (3) of equal height. A rotationally fixed disc (4) with the same arrangement of slots is moved at right angles to this, thereby changing the flow cross section. The prevailing differential pressure presses the moving disc (4) against the fixed disc (2) and seals it.



## Summary of your benefits:

- Compact construction and simple installation.
- 10 times less actuation force reduces energy consumption and is kinder for the climate and environment.
- Highest control performance and response sensitivity thanks to the smart positioner; fast reaction times due to the short stroke.
- Very simple servicing by exchanging the easily accessible disc pair.
- Minimal spare parts requirements.
- Minimised wear and tear in cavitation applications due to optimised flow guidance.
- Compact, integrated positioner with no permanent consumption of control air.
- It is easy to optimise or adjust the regulation as the  $C_{vs}$  values can be altered simply by exchanging the fixed disc.
- Short strokes reduce wear and tear and extend the life of the part.
- Maintenance-friendly replacement of the integrated positioner. Smart diagnostics software in the positioner as a valuable aid.
- Low heat or cooling loss due to a reduced body surface.
- Reduced noise emissions.

Size comparison between a normal seat valve and a **Schubert & Salzer sliding gate valve**. In the example, the nominal size of both is identical.



# Aseptic & Hygienic Right Angle Valves

The EHEDG-certified aseptic right angle valve 6051 and the 3A-compliant hygienic right angle valve 6052, optionally with integrated positioners, are specialists in sterile processes. Particularly maintenance-friendly, easy to clean and trimmed for rangeability and control accuracy, the 6051 and 6052 are suitable for shutting off and controlling liquids and gases where it comes down to the highest purity.

The type 6051/6052 right angle control valve series was developed for demanding applications involving contact with the product in the food and beverage industry.

The 3A-compliance of type 6052 is an important deciding factor for applications particularly in dairies, but also in the food and beverage industry in the USA.

## Summary of your benefits:

- The self-draining CIP and SIP-compatible bodies are made out of 1.4435 stainless steel. Surface roughness is less than  $Ra < 0.25 \mu m$ , preventing any adhesions.
- The interior and exterior, cavity-free seal is facilitated through a highly efficient membrane.
- The valve type 6051 is EHEDG certified. The valve type 6052 is 3A conform.
- All wetted parts of both valves are FDA compliant and meet the requirements of USP Class VI, of EC regulation 1935/2005 and EU plastic regulation 10/2011.
- Suitable for medium temperatures from  $-20^{\circ}C$  to  $140^{\circ}C$ .
- Highest control performance is achieved thanks to a rangeability of 50:1.
- Fast and easy maintenance among others due to the clamp connection between actuator and body.
- Available in a complete stainless steel version (including actuator and positioner).
- A Zone 0 ATEX Certificate 2014/34/EU is available as an option on the positioner 8049.
- Available with standard industry connections.

Aseptic Right Angle Valve Type 6051:



Hygiene Right Angle Valve Type 6052:





# Shut Off Valves

Seat valves are ideal when liquid and gaseous media need to be shut off securely and without closing impact.

## Summary of your benefits:

- Red brass or stainless steel body as well as complete stainless steel solution DN 8 to DN 80, PN 40.
- Temperature range of -100°C to 220°C.
- Modular design: identical valve body for line strainers, check valves, manual valves, on/off and control valves.
- Space-saving construction with welded ends ensure no leaking at the valve connections.
- Flexible pilot air connection thanks to an actuator bonnet which can rotate 360°.
- Long lasting with over 1 million switch cycles and highly leakproof even with slightly contaminated media.
- Very simple to maintain: body remains in the pipeline when replacing wearing parts such as valve actuators or seat seals.



The **Angle Seat Valve 7010** in the hygienic version was constructed cavity-free and can be used, for example, in KEG cleaning or bottling plants. The Schubert & Salzer angle seat valves in the stainless steel version are certified as complying with EG 1935/2004. All wetted sealing parts are FDA conform.

The modular system of Schubert & Salzer shut-off valves allows for numerous variations e.g. with motor actuator (7210), in a flange version (7032) or as a three-way valve (7081).

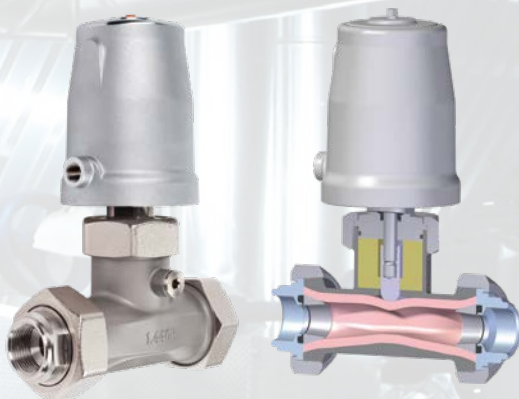


# Pinch Valves

Using Schubert & Salzer pinch valves, sterile media but also solid-bearing, paste-like and abrasive liquids can be reliably shut off and controlled.

## Summary of your benefits:

- The cutting-edge stainless steel body design with straight tube passage ensures maximum  $C_{vs}$  values.
- Highly compact construction with 360° rotating piston actuator.
- All wetted parts are made of stainless steel, elastomer or polymers.
- FDA-compliant for hygienic applications.
- Fibre reinforced tubes guarantee long-term durability.
- Quick exchange of tubing (wear and tear part) through the axial removal of the valve body.
- Possible connections: inner threads, welding ends, tri-clamp or bonded socket joints.



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