

Benefit from our experience to increase your success!

When it comes to manufacturing or processing foodstuffs and drinks, 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 medium 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 Control Systems 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 companies working in the food and drink industry and our valves are used for a wide variety of applications. For example, they can be found in traditional bottling plants for alcoholic and non-alcoholic drinks and dairy products. They also regulate the steam, hot water, refrigerant medium 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 us to be a competent partner at your side. We do not just sell you an off-the-shelf product; we offer you a solution which is designed to fit your individual requirements.

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Sliding-Gate Control Valve

Media such as steam, hot water or cooling liquids 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 supply media such as water, air, CO_2 or liquid nitrogen, with very high or very low temperatures, high pressure or when fast switching operations, high control precision or a high positioning ratio is required. Users appreciate the significantly reduced 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.
- Highest control performance and high rangeability 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.
- 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 internal wear and tear and extend the life of the part. Minimised wear and tear in cavitation applications due to optimised flow guidance.
- Maintenance-friendly exchange of the integrated positioner; practical diagnostic software in the positioner offers valuable assistance to any fault analysis in the control cycle.
- Low heat or cooling loss due to a reduced body surface.
- Reduced noise emissions.
- A complete stainless-steel version (including actuator and positioner) is available.

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 Right Angle Valve

The Schubert & Salzer Hygienic Right Angle Control Valve 6051 with optionally integrated positioner is a specialist when it comes to sterile processes. Maintenance-friendly, easy to clean and optimized with respect to reangeability and controllability, the 6051 is ideal when it comes to shutting off or controlling gases and liquids which require exceptional cleanliness.



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 µm, preventing any adhesions.
- The interior and exterior, cavity-free seal is facilitated through a highly efficient membrane.
- All wetted parts are FDA compliant and meet the requirements of USP Class VI, of EC regulation 1935/2005 and EU plastic regulation 10/2011. The valve is EHEDG certified.
- Suitable for medium temperatures of up to 140 °C.
- Control performance is achieved thanks to a rangeability of 50:1.
- Fast and easy maintenance without special tools due to the clamp connection between actuator and body.
- Available in a complete stainless steel version (including actuator and positioner).
- Available with all industry-norm connections.
- A Zone 0 ATEX Certificate 2014/34/EU is available as an option on the positioner 8049.

Pinch Valves

Over the years, our pinch valves have constantly proved their reliability under sterile conditions - even with difficult media. With these valves, available in nominal sizes DN 15 - DN 50, liquids with granular or abrasive particles and media which are viscous, paste-like or aggressive can be reliably shutoff and regulated under sterile conditions.



Summary of your benefits:

- Highly compact construction with 360° rotating piston actuator.
- All wetted metal parts are 1.4435.
- Body made of stainless steel 1.4408.
- FDA-compliant sealing for hygienic applications.
- Working pressure up to 6 bar.
- Tubing materials are FDA-compliant NBR or EPDM.
- Fibre reinforced tubes guarantee long-term durability.
- An innovative connecting component (insert) with collet and screw cap ensures a quick, secure and lasting tight seal between the pinch valve and the optional connections with inner threads, welding ends, tri-clamp or to bonded socket joints.
- The cutting-edge body design ensures best possible $\rm C_{vs}$ values.
- Quick exchange of tubing (wear and tear part) through the axial removal of the valve body.

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:

- Long lasting and highly leakproof (especially compared to ball valves, which are typically with a floating ball and which wear the seal with every stroke) up to leakage class VI.
- Very simple to maintain: when servicing the valve, the body can remain built into the piping. The actuator with valve plug can easily be unscrewed.
- This uncomplicated method of servicing also enables an advantageous and space-saving construction with welded ends, ensuring no leaking at the connections.
- Flexible pilot air connection thanks to an actuator bonnet which can rotate 360°.
- Every part of the valve is available as a replacement part.
- A temperature range of -100°C to 220°C is possible.
- Available in nominal sizes DN8 to DN80, up to pressure rating PN40.
- Wide variety of material combinations including a complete stainless-steel option.
- Line strainers, check valves, manual valves, pneumatic actuators and control actuator can be built onto the same body.
- Schubert & Salzer seat valves are non-sensitive to slightly contaminated media.

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**. (The requirements of the USA-based FDA are similar in content.)



The Schubert & Salzer shut-off valve is available in many variants. For example with motor actuator (7210), in a flange version (7032) or as

a three-way valve (7081).

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Germany

Schubert & Salzer Control Systems GmbH Bunsenstraße 38 85053 Ingolstadt Germany Phone: +49 841 96 54-0 Fax: +49 841 96 54-5 90 info.cs@schubert-salzer.com www.schubert-salzer.com

Benelux

Schubert & Salzer Benelux BVBA/SPRL Gaston Crommenlaan 4 bus 0501 9050 Gent Belgium Phone Belgium: +32 / 9 / 334 54 62 Fax Belgium: +32 / 9 / 334 54 63 info,benelux@schubert-salzer.com www.schubert-salzerbenelux.com Phone Netherlands: +31 / 85 / 888 05 72 info.nl@schubert-salzer.com Phone Luxembourg: +352 / 20 / 880 643 info.lux@schubert-salzer.com

France

Schubert & Salzer

France SARL Les Algorithmes - Bàt Aristote A 2000, route des Lucioles - BP 29 06901 Sophia Antipolis cedex France Phone: +33 / 492 94 48 41 Fax: +33 / 493 95 80 52 info.fr@schubert-salzer.com www.schubert-salzer.france.com

United Kingdom

Schubert & Salzer UK Limited 140 New Road Aston Fields Bromsgrove Worcestershire B60 2LE United Kingdom Phone: +44 / 19 52 / 46 20 21 Fax: +44 / 19 52 / 46 32 75 info@schubert-salzer.co.uk

India

Schubert & Salzer Private Limited Senapati Bapat Marg, Upper Worli, Opp Lodha World Tower Lower Parel (W) Mumbai 400 013 India

info.cs@schubert-salzer.com

United States of America

Schubert & Salzer Inc. 4601 Corporate Drive NW Suite 100 Concord, N.C. 28027 United States of America Phone: +1 / 704 / 789 - 0169 Fax: +1 / 704 / 792 - 9783 info@schubertsalzerinc.com www.schubertsalzerinc.com

www.schubert-salzer.com