

KEY SOLUTIONS FOR **DAIRY & FOOD**

HYGIENIC FOOD PRODUCTION

A close-up, low-angle shot of a man with short brown hair and a light beard, smiling broadly and looking upwards. He is holding a clear glass filled with white milk. The background consists of vertical wooden planks. The image is partially obscured by a white diagonal shape in the top-left corner, which contains the main headline.

SUSTAINABILITY. EFFICIENCY. SAFETY.

Discover Pentair's innovative technologies that enhance safety, sustainability, and efficiency in dairy and food production. Our solutions are comprehensive – from engineering and installation to service and lifecycle management.

Your Product Safety Is Our Commitment

Product safety isn't just a priority – it's our promise to the dairy and food industry. With decades of expertise in hygienic and aseptic components, we help producers build efficient, future-ready operations.



OPERATIONAL EXCELLENCE

**Pentair helps you do more with less.
Our products and systems are built for long-term value
and operational excellence.**

We are set to reduce your Total Cost of Ownership through:

- Lower energy consumption
- Less waste
- Minimized downtime

OUR SOLUTIONS INCLUDE:

- Proven Südmo valve technology and trusted hygienic components.
- Modular skid-mounted units for fast, flexible deployment.
- High-efficiency X-Flow membrane filtration.
- Full lifecycle support – from engineering to service.

HYGIENIC AND ASEPTIC SÜDMO VALVES & COMPONENTS

We design and manufacture valves, control units and filters to the unique needs of the dairy and food industry. As safety and sustainability demands grow, we respond with advanced technologies and services that meet strict regulatory standards and support global producers.

With a leading portfolio of Südmö hygienic and aseptic process valves, Pentair delivers complete fluid distribution solutions from valve manifolds to tank clusters.



MICROFILTRATION

Our dead-end **microfiltration solutions** for gas and steam offer a cost-effective way to prevent contamination, spoilage, and product loss. The compact filter design reduces waste and saves space by allowing membrane-only replacements.

BENEFIT FROM:

- Robust construction and a flexible, modular filter design.
- Easy cleaning and replacement of filter elements.
- Effortless upscaling and downscaling of filter capacity.
- High filtration performance for maximum efficiency.



mySüdmo - The Hygienic Process Valve Configurator

Choose the right valve for your specific needs.

- 24/7 Accessibility
- Browser/Mobile Based
- Guided Selection Process
- Receive a Specific Quotation



Ready to get started?

Visit mysudmo.pentair.com or scan the QR code to explore our configurator and discover how easy it is to work with Pentair Südmo.



mySüdmo

MAXIMIZE YOUR PROCESS UPTIME WITH:

- Innovative hygienic and aseptic design.
- Durable components for longer production cycles.
- Excellent surface quality for optimal cleanability.
- Easy maintenance, fast spare part delivery, and local support.

DAIRY MEMBRANE FILTRATION

As demand for native whey protein continues to rise, a reliable, cost-effective, and sustainable solution to separate whey from casein in skimmed milk is key. X-Flow hollow fiber membranes are engineered to master this challenge to deliver high performance with a low environmental footprint.

These straw-like membranes are crafted from polyether sulfone, a high-performance polymer renowned for its food-grade safety, chemical resistance, and thermal stability.



BENEFITS OF HOLLOW FIBER MEMBRANES:

- Higher flux and longer membrane life.
- Compact system design with vertical orientation.
- Low water and chemical consumption.
- Easy retrofit into existing spiral-wound / ceramic membrane setups.
- Robust operation with minimal downtime.

COMPLETE WATER MANAGEMENT SOLUTIONS

Clean, high-quality water is essential at every stage of dairy and food production. We help you manage this vital resource efficiently by reducing water usage, lowering your carbon footprint, and supporting your sustainability goals.

Pentair's expertise in water utilization and membrane technology enables tailored solutions for every process:

- **X-Flow Membranes**

Deliver consistent water quality from multiple sources, ensuring flexibility, safety, and compliance.

- **Membrane Bioreactors (MBR)**

Use advanced membranes to separate water from biomass in biological treatment systems - ideal for compact, energy-efficient wastewater treatment.

- **Effluent Polishing with Capillary Membranes**

Achieve high-quality water reuse with significantly lower energy consumption compared to traditional tubular systems.

BIOGAS UPGRADING

Biogas is a key renewable energy source for a sustainable future. In dairy and food production, byproducts like whey, process water, and organic waste from food processing become valuable feedstock.

Biogas upgrading opens the door to multiple sustainable applications:

- **Grid injection.** Store energy by feeding biomethane into the natural gas grid.
- **Clean transport fuel.** Power fleets with bio-CNG or bio-LNG.
- **Circular economy.** Fuel milk trucks with biomethane.
- **High quality, liquid CO₂** as an additional value stream.





MINIMIZE COSTS. MAXIMIZE UPTIME. ENSURE COMPLIANCE.

Running a modern dairy or food facility demands precision, efficiency, and strict quality control. That's why we go beyond installation and with planned service, trained experts, and genuine spare parts, we're your long-term partner.

Lifecycle Support That Works for You:

- Global Service Level Agreements (SLAs) ensure your systems run at peak performance.
- Planned maintenance that keeps your costs predictable.
- Training for your team.

CONNECT WITH US



Industriestrasse 7 | 73469 Riesbürg | Germany | +49 9081 8030 | foodandbeverage.pentair.com

All Pentair trademarks and logos are owned by Pentair. All other brand or product names are trademarks or registered marks of their respective owners. Because we are continuously improving our products and services, Pentair reserves the right to change specifications without prior notice. Pentair is an equal opportunity employer.

© 2025 Pentair. All Rights Reserved.

pen-br-dairy-2540-en