



# SÜDMO

SYSTEMS FOR THE  
PHARMACEUTICAL,  
BIOTECHNOLOGY &  
COSMETIC INDUSTRIES

# SOLUTIONS THAT WORK!

“PENTAIR SÜDMO DESIGNS INNOVATIVE AND RELIABLE PROCESS SYSTEMS THAT ARE THE BASIS FOR SUPERIOR PRODUCT QUALITY.”

## PRODUCT APPLICATIONS

- Blood plasma fractionation
- Injection solutions
- Infusion solutions
- Inhalation agents, aerosols and suspensions
- Biotechnology products (antibiotics, cell fermentation, enzymes, vitamins)
- Insulin
- Gels, pastes, creams
- Oral preparations
- Eye and nose drops
- Consumer health care (shampoos, skin lotions, oral solutions and production of filling materials, etc.)
- Fine chemicals

## ENGINEERING SERVICES

- Concept studies
- Actual-target studies
- Hygienic or sterile System design studies
- Process engineering
- Basic engineering with technical specifications
- Detail engineering with performance specifications
- Approval procedures BimSchG (Federal Immission Control Act), official and approval engineering
- Automation & instrumentation engineering
- Project management with processing, installation, commissioning and documentation (DQ, IQ, OQ)
- QS-Management (certified system construction and valve production according to DIN EN ISO 9001)
- After-Sales Service: Training of the operators and maintenance agreements

## EVERYTHING FROM ONE SOURCE

- The highest of standards with respect to quality, reproducibility, efficiency and safety
- The very latest system technology that always complies to the current provisions and requirements and the current state-of-the-art and the technical guidelines
- Pentair Südmö offers systems and components that satisfy your strict requirements and regulations, especially in regard to hygiene and sterility
- The most modern equipment that guarantees safe and reproducible product results





# PLANNING, DELIVERY, ASSEMBLY AND COMMISSIONING OF TURNKEY PROCESS SYSTEMS ACCORDING TO cGMP AND THE FDA.

## ACTIVITIES IN THE PHARMACEUTICAL, BIOTECHNOLOGY AND COSMETIC INDUSTRIES

### CIP Systems

- CIP- / SIP- / DIP-equipment
- CIP-units and mobile CIP's
- Central and local CIP-systems



### Bio Systems

- Buffer and substrate solutions
- Fermentation
- Inactivation



### Process Systems

- Technical lab for sterile solutions
- Batch mixing systems
- Insulin production
- Blood plasma fractionation



### Production of Ultra-pure Media

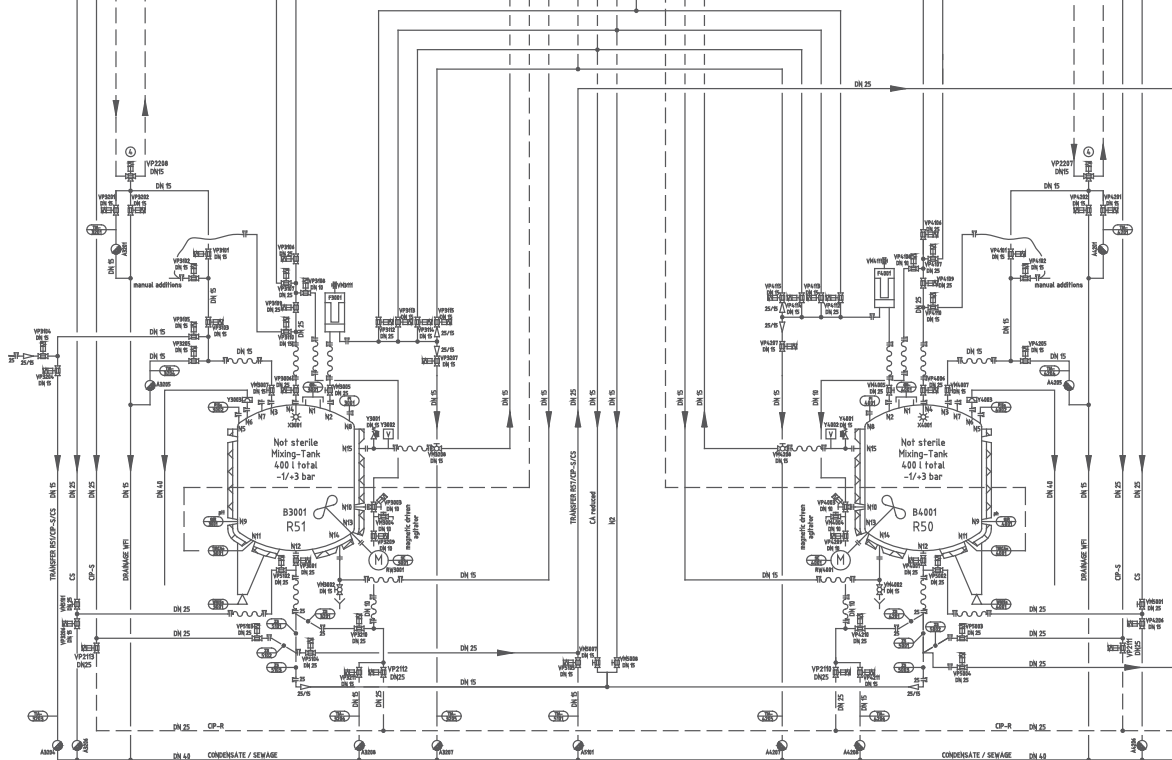
- Aqua purificata
- High aqua purificata



### Ultra-pure Media Systems and Ultra-pure Gas Systems

- Storage and distribution of AP, HPW, WFI
- AquaLoop
- Ultra-pure gas supply





# QUALIFIED PROJECT MANAGEMENT

**THE PRODUCTION OF MEDICINES AND ACTIVE INGREDIENTS MUST COMPLY WITH THE HIGH QUALITY STANDARDS, BOTH FOR THE PRODUCTION PURITY, AND THE VALIDATED PRODUCTION PROCESSES.**

The market demands top-quality innovative products - and new products often require new and modified procedures. We are available to help and support your company realise your product innovations at all times.

Our multi-disciplined team has the experience and know-how to assist you in optimizing your product innovations. Our specialists will ensure that your production processes meet the strictest of standards – with respect to the quality and economic viability and also reproducibility and safety demands.

## Process Engineering

- 3D-plans
- Risk analysis, CE, declaration of conformity
- Design qualification



## Service

- Training courses
- Maintenance and servicing
- Re-calibration
- Maintenance agreements for all applications



## Qualification and Documentation

- FAT
- IQ, OQ, calibration
- Welding joint documentation
- SAT commissioning



## Automation

- FS, HDS, SDS
- Process control systems / software
- Visualization / batch-systems
- Database / archiving





## ABOUT PENTAIR SÜDMO

At Pentair Südmo we do more than design and manufacture valves. We are dedicated to providing our customers with the right technology for each application.

As the need for safety and sustainability in the food, beverage and pharmaceutical markets increases, we continue to respond with advanced products and services. Whether working with a U.S. dairy plant that must meet strict regulations or developing a total solution for an international brewery we have the solution that fits.

Our capabilities include process engineering, service management, and extensive training opportunities, as well as advanced water and wastewater technologies. To us success comes when our customers experience optimized plant performance and reduced operating costs.

Founded in 1954, specifically to supply valves and components to the dairy industry in Germany, Pentair Südmo has a long history in fluid processing.

We continue to build on this heritage of innovation at our R&D and manufacturing facility in Riesbürg, Germany. Our components that include stainless steel single seat, mix proof and specialty valves, and compact systems meet highest hygienic and aseptic standards.

Today, we are part of Pentair Inc., a global diversified industrial company headquartered in Minneapolis, Minnesota. With facilities around the world, Pentair employs more than 15,000 people.

With research, production, engineering, automation, project management and service in-house, Pentair Südmo focuses on the development of durable and reliable products that can be tailored to the specific needs of our customers.



**SÜDMO PROJECTS GMBH**

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