

GEMÜ®

VALVES, MEASUREMENT AND
CONTROL SYSTEMS

***Components and
system solutions
for complex applications
and processes***



Local Roots, Global Network

Our performance and passion for technology make us the world market leader



1964
founded

over
1,700
employees worldwide

26
sales companies



Managing Directors Stephan Müller and Gert Müller

Through continuous innovative design and a focus on quality and proximity to customers, GEMÜ is one of today's leading worldwide manufacturers of valve, measurement and control systems. We are the global market leader for sterile applications in the pharmaceutical and biotechnology industries. GEMÜ has achieved this status by investing extensively in application-focussed research and development.

Our broad product range offers solutions for a variety of different customer groups.

Valves, measurement and control systems for all important industrial sectors

- *Pharmaceutical, biotechnology and cosmetics industries*
- *Food and beverage industries*
- *Chemical industry and environmental systems*
- *Power generation*
- *Water treatment*
- *Processing industry*
- *Microelectronics and semiconductor industries*
- *Medical systems*

Independent family-owned enterprise

After more than 50 years of healthy growth, Gert Müller, son of founder Fritz Müller, now directs the independent family-owned enterprise alongside his cousin Stephan Müller.



Pharmaceutical, biotechnology and cosmetics industries

The highest level of purity must be ensured when producing medicines and cosmetics. GEMÜ components and system solutions for the pharmaceutical, biotechnology and cosmetics industries meet the regulations and approval criteria for the manufacturing processes of these products.

Products

- *Aseptic stainless steel diaphragm valves*
- *2/2-way and T body valves, tank valves, tandem welded configurations, customized multi-port valve blocks*
- *Globe and control valves*

Product advantages

- *Autoclavable, sterilisable and minimal deadleg stainless steel valves*
- *All products are designed in compliance with GMP directives*





Food and beverage industries

GEMÜ valves are suitable for aseptic and hygienic processes. They are used in the production of yoghurt, sugar solution, fruit juice and smoked products, as well as the filling of dairy products, water and soft drinks.

Products

- *Aseptic stainless steel diaphragm valves*
- *Globe and control valves*
- *Customized solutions*

Product advantages

- *Easy to clean*
- *Easy to service*





Chemical industry and environmental systems

The varied processes in industrial chemicals plants have stringent requirements for the valve technology employed. High temperatures, high pressures and critical working media require very specific valve solutions and components.

Products

- *Diaphragm valves and globe valves as well as ball valves and butterfly valves in plastic*
- *Lined diaphragm valves*
- *Multi-port valve blocks in PP, PVC, ABS and PVDF*

Product advantages

- *Large variety of valve body and seal materials*
- *Special products for higher pressures and temperatures with corrosive media*





Power generation

The versatile options produced by the intelligent combination of valve solutions and automation technology provide the optimal prerequisite for the different areas of application in power generation.

Products

- *Butterfly valves in metal and plastic*
- *Ball valves in metal and plastic*
- *Lined diaphragm valves*

Product advantages

- *Three operator types available*
- *Great variety of valve body versions:
2/2-way, 3/2-way, multi-port valve blocks*





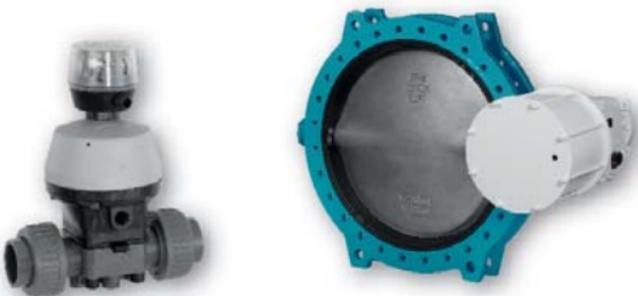
The field of applications covered by GEMÜ's product range starts with control and regulation of heavily contaminated sea, river and brackish water and extends to ultra pure water production in the semiconductor and pharmaceutical industries.

Products

- *Butterfly valves in metal and plastic*
- *Globe and control valves in metal and plastic*
- *Check valves, gate valves and knife gate valves*

Product advantages

- *Customized design*
- *Butterfly valves with DVGW approval*





Processing industry

GEMÜ offers the appropriate solutions for the majority of industrial applications in process engineering. This range can be used, for example, in the production of textile dyes, foams for dashboard panels, car seats or platinum for jewellery.

Products

- *Globe and control valves*
- *Butterfly valves and ball valves in metal and plastic*
- *Diaphragm valves and solenoid valves*

Product advantages

- *Great variety of valve body materials and seal materials*
- *Automation options*





Microelectronics and semiconductor industries

GEMÜ has far-reaching experience and excellent references in connection with the use of valves in the microelectronics and semiconductor industries. Our high purity solutions are developed in close cooperation with users, designers, equipment manufacturers and end users.

Products

- *Valves and measurement equipment made of PFA, PVDF, PP and PP natural*
- *Customized valve solutions into which several valve seats, fittings or connections and sensor systems can be integrated*

Product advantages

- *Manufactured in cleanroom conditions*
- *Reduced installation time for multi-port valve blocks*
- *Space-saving*





Medical systems

Alongside the manufacture of valves, measurement and control systems for medical devices and hospital technology, GEMÜ is also an engineering and production partner and, as a supplier to medical technology companies, produces customized plastic solutions, e.g. for surgical instruments.

Services

- *Engineering of plastic components*
- *Cleanroom injection moulding and assembly*
- *Manufacture of RTS components*
- *Tool manufacturing and subassemblies*

Certificates and options

- *EN ISO 13485 and 14971 as well as MDD 93/42 EEC, 21 CFR820 and EU GMP guidelines*
- *Ageing test, packaging and transport validation, sterilisation validation and biological qualification*

GEMÜ®
MEDICAL PLASTICS SOLUTIONS





Our range of services

From initial consultation, research & development, to the complete production process and through to sales, service and maintenance, we serve the whole value chain.

Over 1,700 specialists

The GEMÜ group currently employs over 1,700 employees worldwide, approx. 1000 of whom in Germany. The comprehensive range of GEMÜ products is produced at six manufacturing sites in Switzerland, China, Brazil, France, the USA and Germany. With 26 subsidiaries and a large network of commercial partners, GEMÜ is now active in over 50 countries on all continents.

Over 400,000 product versions

The wide-ranging modular system enables more than 400,000 product versions to be produced. This variety is unique to GEMÜ and provides an appropriate response to the increasingly specialized nature of process engineering.

From individual manufacture to major projects

To meet the individual requirements of individual industrial sectors, our capacities allow us to manufacture one individual product just as simply as the complete equipment for major projects.



Consulting and engineering

GEMÜ products are system relevant process components. They make a significant contribution to the safe and efficient operation of a plant.

Specialist advice

Selecting the correct valve and design is a prerequisite for the function and efficient operation of a plant. Our specially trained advisors have thorough knowledge of the market and examine our comprehensive product range with the customer to find the optimal solution for the relevant application.

Production planning

As a solutions provider, GEMÜ is equipped for a wide variety of requirements – from customized multi-port valve blocks with a batch size of one, to standard components with a batch size of 1000. Our flexible production planning is based on our customers' needs.

Customer-oriented development

Many product ideas arise as a result of proximity to our customers and knowledge of their needs. By focussing on the customer in conjunction and taking advantage of our engineering expertise, we are ensuring that, even in the future, we will develop the right products.



Coordinated manufacturing processes

GEMÜ is a system provider that develops, manufactures and handles all measurement and control system components for complex processes. The variety of material and products involved covers numerous fields of application, and is unique to GEMÜ.

Efficient production control

In the GEMÜ Group's production centres, manual manufacturing, partial and full automation go hand in hand. Robots, automatic welding machines, multi-axis CNC machines and other partially and fully automated systems are used alongside manual workstations. As part of the continuous improvement process, technicians, engineers and experts with many years of experience ensure that, in each case, products are manufactured in the most efficient and best possible way.

Market-compatible focus on quality

As a manufacturer, GEMÜ sets the standards in terms of service life, robustness and reliability. This is thanks to the knowledge that we have gained from the conceptual design, construction and application of pipework components in the processing industry.



Quality is the sum of all the parts

GEMÜ designs products that control and regulate their respective applications safely, precisely and reliably. In order to ensure proper control and regulation, quality assurance measures are defined and implemented with the entire manufacturing process in mind.

Product qualification and validation

The qualification and validation of new products, redesigns or product optimizations are of particular importance. Simulations and thorough testing are carried out in GEMÜ's in-house technical centre prior to the sales launch, in order to meet market requirements.

In-house CIP/SIP test rig

This test rig makes it possible to test all diaphragm sizes in the most varied, customized cleaning and sterilisation processes. It allows the user to stipulate the number of cycles and their duration, as well as the media.

Manufacture of ultra pure products

The manufacturing process for ultra pure valves, measurement and control systems and for medical industry products takes place in the cleanroom plant in Emmen, Switzerland.



With the European Production and Logistics Centre, GEMÜ has reached another milestone in the history of the company. It represents process integration – from the delivery of the raw materials through to dispatch to the end user.

Production and logistics capability over 13,000 m²

The entire surface area available on the site is 100,000 m², 13,000 m² of which is currently occupied. Automated intralogistics and a modern inventory management system make it possible to process up to 2000 customer transaction items and 1000 production orders per day.

Modular and process-oriented layout

The modular and process-oriented construction of this state-of-the-art building enables individual departments to cater for current and future requirements.

Customer-oriented manufacture and packaging

In the European Production and Logistics Centre a large number of components from the GEMÜ modular system can be individually collated and assembled and packaged according to customer requirements.



Superior service, superior quality

Customer satisfaction is created thanks to a host of factors: Starting with the optimal product range, moving onto the relevant product documentation, and right up to sophisticated technical support and an international team of experienced project managers.

Training and after-sales service

We offer our customers a specific training programme to help them familiarize themselves with the performance capabilities of our products and operate them in a process-reliable way. An experienced team of specialists takes care of the our customers' concerns – even maintenance and servicing tasks.

GEMÜ roadshow

We use the Roadshow to visit both customers and sales prospects throughout Europe. On just 12 m² of exhibition space, it provides concentrated expertise in a small area. With air conditioning, heating, a coffee machine and a refrigerator, it offers everything that you need.

It is the perfect opportunity for intensive technical discussion and training with the experts from GEMÜ.



GEMÜ roadshow – on the road throughout Europe



Research & development

"An idea is only useful if you make something of it!" This motto coined by our company founder Fritz Müller continues to shape our technicians and engineers today. The focus here is on the GEMÜ Dome Development and Innovation Centre in Niedernhall-Waldzimmern. Over 100 employees from research & development, design and product management are responsible for the respective product specifications at this location. In discussion with customers, development partners and educational establishments, GEMÜ continuously invests in product optimization and new products and innovations.

Processing industry 4.0

Recognizing the needs of tomorrow's customer today – that is our strength and our claim. We achieve this by proceeding with continuous proximity to our customers, combined with the strength and courage to question things and the desire to improve them. GEMÜ is actively promoting the Industry 4.0 initiative. We are working on intelligent components and systems that will facilitate the servicing process for the customer and considerably improve servicing documentation.



Reading valve data using an RFID reader and a mobile end device



GEMÜ GREEN ENGINEERING

Right from the start, GEMÜ's planning and construction was more compact and used fewer resources than other manufacturers, and the company was concerned about the environment long before it attracted so much media attention. Back in the early 1970s, GEMÜ introduced a recycling system for the efficient re-use of waste materials occurring in the manufacturing process or for feeding them through for a different use. This system has since ensured that valuable raw materials and limited resources are used to the best possible extent at GEMÜ.

GEMÜ GREEN ENGINEERING is based on three pillars:

1. CLEAN PRODUCTION:

Savings in energy, water, and cooling and lubricating fluids

2. CLEAN PRODUCTS:

- *Savings in materials and resources used to manufacture products*
- *Opportunities to make savings in plant design*

3. CLEAN PROJECTS:

- *Reduction in CO₂ produced by connecting sites*
- *Returning waste materials into the GEMÜ recycling system*



GEMÜ R690 – the compact plastic diaphragm valve in direct comparison with its predecessor, GEMÜ 690



The low-emission GEMÜ electric shuttles for commuting between the German sites

GEMÜ product group overview

The GEMÜ Product Range brochure and datasheets contain detailed information

- **Multi-port valve blocks, stainless steel**



GEMÜ M-block

- **Control valves, metal**



GEMÜ 530

- **Globe valves, metal**



GEMÜ 550

- **Diaphragm valves, metal**



GEMÜ 650 BioStar®

- **Diaphragm valves, metal, T bodies**



GEMÜ 601

- **Single-use diaphragm valve**



GEMÜ SUMONDO®

● **Ball valves, metal**



GEMÜ 740

● **Ball valves, plastic**



GEMÜ 710

● **Diaphragm valves, metal**



GEMÜ 620 with plastic lining

● **Butterfly valves, metal**



GEMÜ 487 *Victoria*®

● **High Purity products**



GEMÜ C60 *CleanStar*®

● **Multi-port valve blocks High purity**



GEMÜ M-block *iComLine*®

● **Diaphragm valves, plastic**



GEMÜ R690

● **Multi-port valve blocks, plastic**



GEMÜ M-block

● **Butterfly valves, plastic**



GEMÜ 410

● **Solenoid valves, plastic/metal**



GEMÜ 52

● **Pilot valves**



GEMÜ 0322

● **Electrical position indicators**



GEMÜ 1235

● **Sensors and display units**



GEMÜ 3030 *mFlow*

● **Positioners and process controllers**



GEMÜ 1435 *ePos*®

● **Actuators**



GEMÜ *SideStep*®

● **Accessories**



GEMÜ 1450



GEMÜ manufacturing sites and sales locations worldwide

- Africa
- Australia
- Austria
- Belgium
- Bosnia-Herzegovina
- Brazil / South America
- Bulgaria
- Canada
- China
- Croatia
- Czech Republic
- Denmark
- Egypt
- Estonia/Latvia
- France
- Germany
- Great Britain
- Greece
- Guatemala
- Hong Kong
- Hungary
- India
- Indonesia
- Iran
- Ireland
- Israel
- Italy
- Japan
- Lithuania
- Malaysia
- Macedonia
- Mexico
- Netherlands
- New Zealand
- Philippines
- Poland
- Portugal
- Romania
- Russia
- Serbia
- Singapore
- Slovakia
- Slovenia
- South Korea
- Spain
- Sweden
- Switzerland
- Taiwan
- Thailand
- Turkey
- Ukraine
- United States

 GEMÜ
manufacturing site

 GEMÜ subsidiary





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