

*Creating the best valve
together*



REGEL- UND STEUERGERÄTE GMBH

*Partnership
Passion
Performance*

for over 30 years



Partnership with each other

With mutual trust, respect and appreciation.
We work with you as an equal partner with a singular solution
in mind: the best valve for your requirements.

Passion drives us

Passion for detail. And passion for offering you an ideal solution
that perfectly suits your needs.

Performance – whether in consultation, development or production

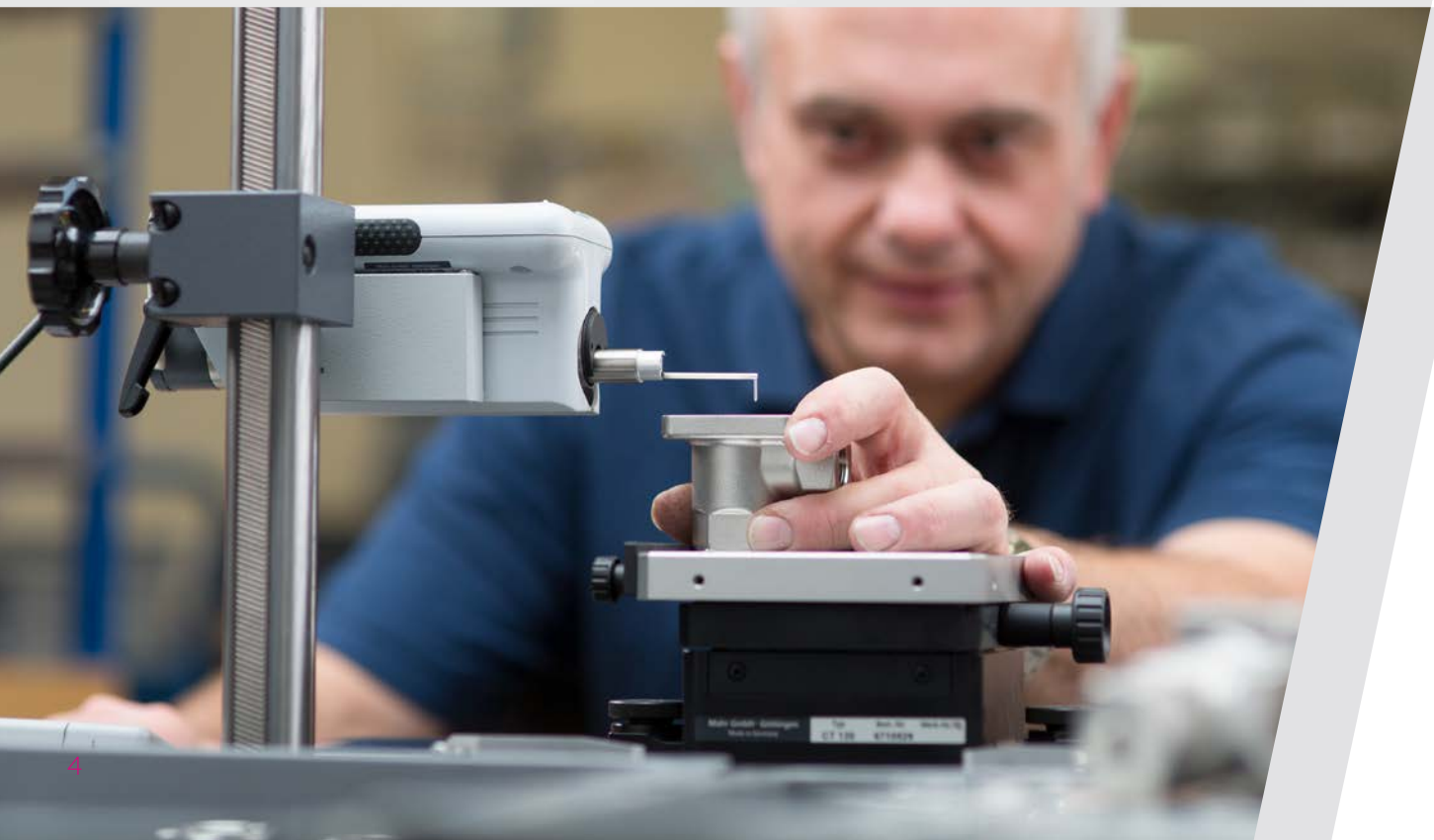
Including value-adding logistics concepts and full service. The result
is impressively powerful valves that meet your requirements.

Reliability that gives you power

We offer high supply reliability – the most valuable protection against production failures

- Framework agreements to secure your supply with defined reorder periods
- Long-proven supplier relationships
- High deliverability thanks to extensive warehousing
- A delivery lot of your finished parts always in stock
- Fast response capability
- 'Made in Germany' production quality
- Function and leak testing for every single valve before leaving our facilities

Reliability



Service

Truly customer-oriented service

Because we value a long-term partnership with you

Logistics service

Whether you want kanban systems with rolling containers, consignment warehouses, reusable packaging or other concepts, we ensure that your production never stops.



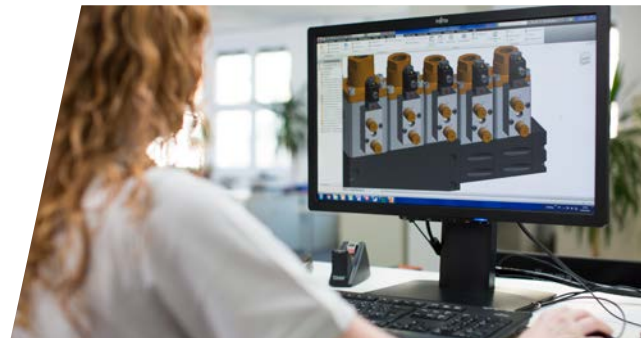
Returns service

Fast and smooth – our experts seek out the best solution, be that a repair, complete exchange or an optimised variant. We'll sort it out, with great results.



Expertise

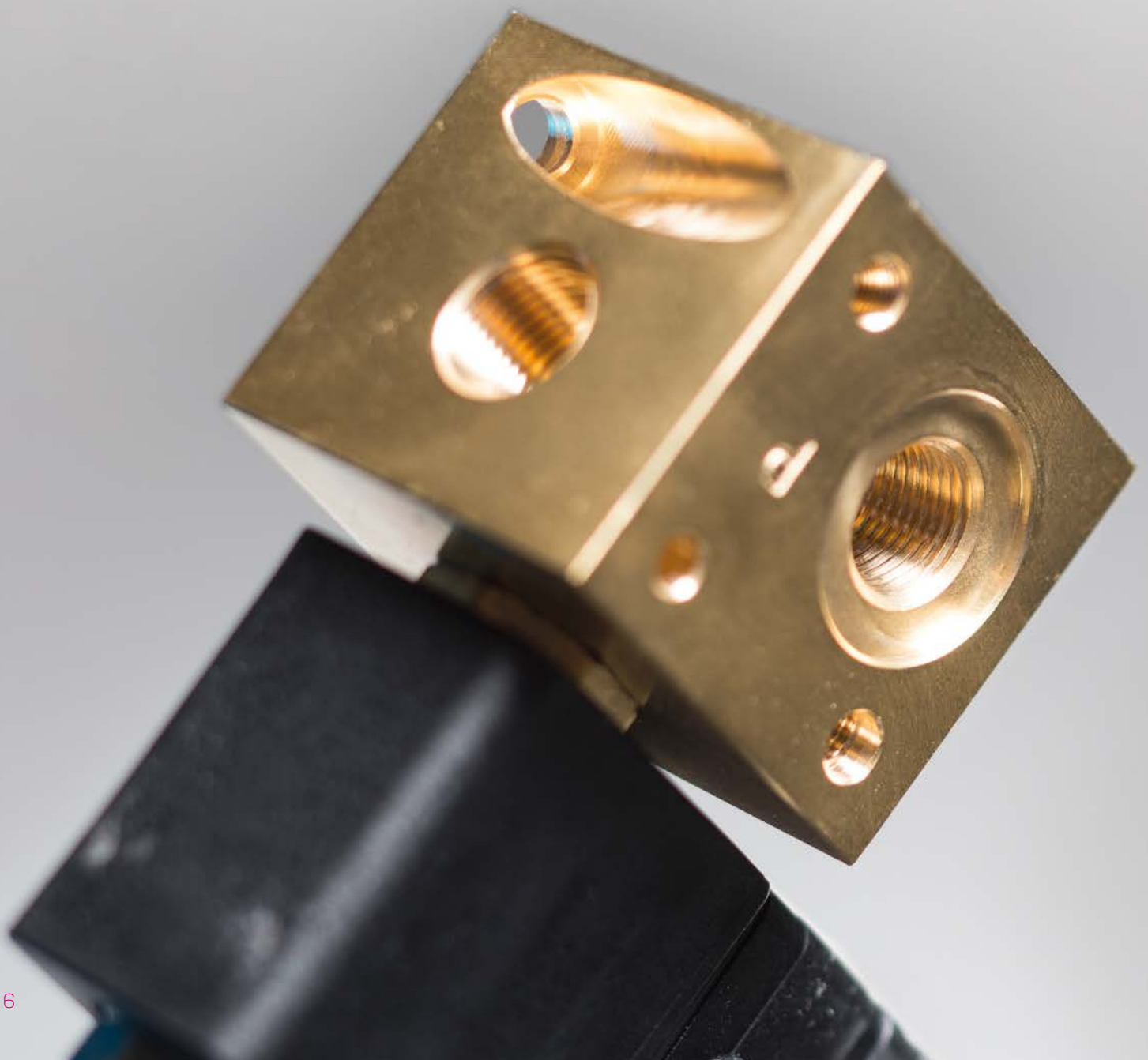
We have over three decades of experience in a wide range of industries. A consultation service, training, development expertise, 3D models, standards, laws and documents – we provide you with everything our wealth of knowledge has to offer.



Product categories

Solutions

Portfolio





- Full access to a phenomenal modular system of components based on over 30 years of expertise.
- Thanks to individual adjustments, we design a customised valve that meets your needs without breaking your budget.
- In the Ventilutions Lab process, we work with you to develop an idea into a prototype and then into a finished product for series production.

› *Learn more on page 10.*

Standard range

- Metal valves
- Plastic valves
- Control valves
- Coaxial valves
- the PriWO refrigeration valves
- Other armatures and fittings

› *Learn more on page 14.*

Custom solutions

- Completely individual products developed for you.

› *Learn more on page 16.*

RSG as a supplier

A reliable partner for buyers

Expert knowledge. In-depth industry knowledge. 'Made in Germany' quality. Competent contact partners for technicians. Supply reliability thanks to framework agreements. Individual logistics service. Flexibility thanks to technical adjustments, fast decision-making processes and high deliverability.

We enable you to focus on just one supplier, because we offer exactly what you need – from the standard programme to customised solutions. And we do it all reliably.





Valves that perform

Precise control
of liquids and gases

Create balance
between opposing conditions

Leak-tightness
so nothing gets in or out when it shouldn't

High switching frequency
where speed and durability are required

Withstand extremes
for reliable function at the limits

Exact regulation
for when a specific pressure is required

The system

Sizing the best valve for our customers

Ventilutions offer exactly the right solution for you in over 95 per cent of cases in which a product from our standard range does not optimally meet your special requirements.

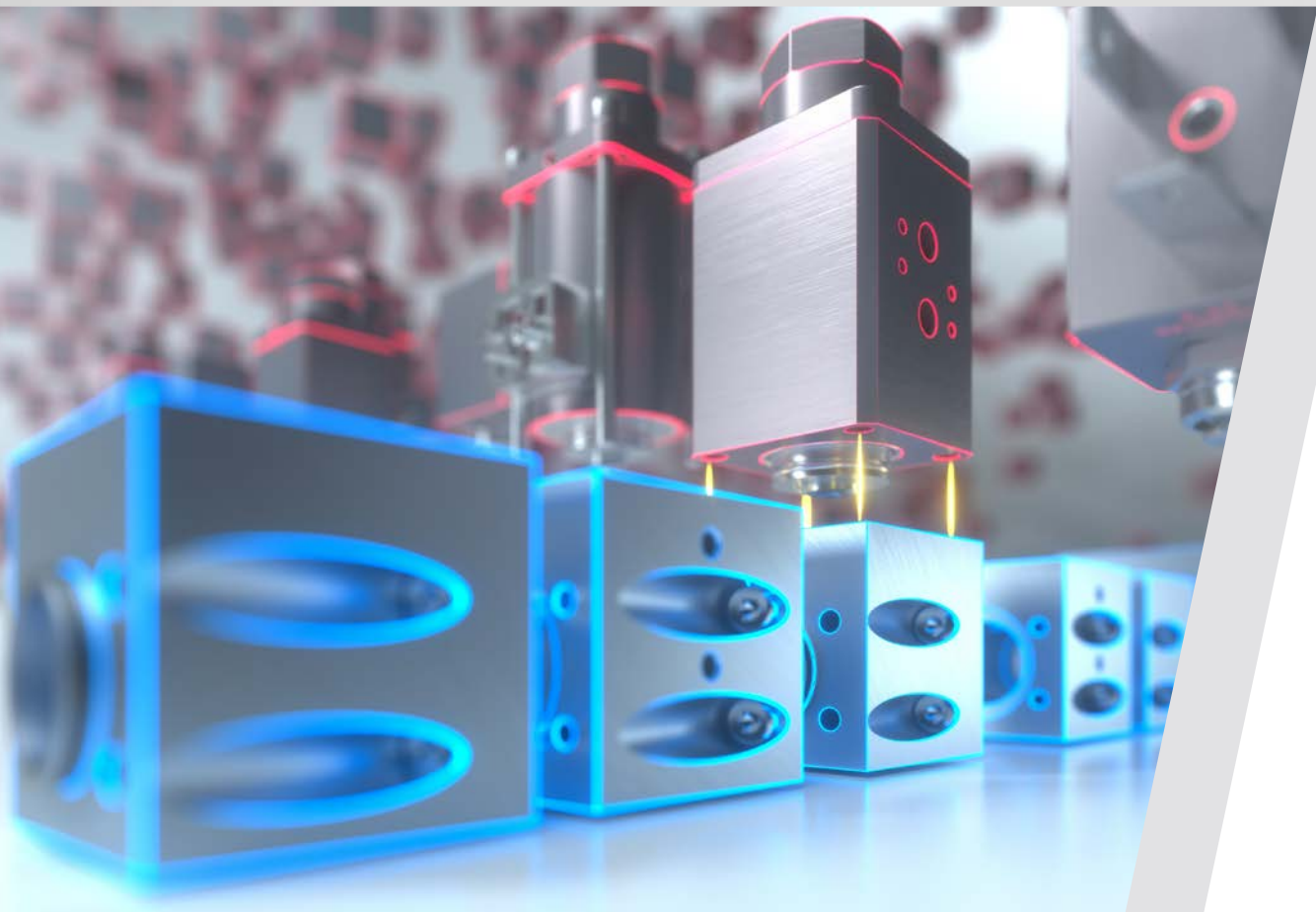
Ventilutions include individually tweaked standard products, cost-reducing adaptations and highly complex custom valves.

Ventilutions are RSG's biggest strength: the modular system is the result of over 30 years of expertise in developing countless custom solutions. With this system, we can take your project all the way – while still offering an unbeatable price-performance ratio!

Ventilutions are typically based on standard valves. We work with you to combine these with our system modules and individual adaptations to create an excellent solution:

a valve that meets your requirements exactly!

- Customer-specific valves
- Affordable prices
- 'Made in Germany' quality
- For single pieces, small and medium orders and series products



Passion and ambition

The passion to build powerful valves. The ambition to find ideal solutions for our customers. Both are quintessential elements of the dedicated work of the Ventilutions specialists at RSG.

Because our valves aim to contribute to the success of your machine or application. Because you don't have to compromise to find an affordable valve that gets you where you want to be.

Ventilutions offers exactly what you need to reach your goals. Cost-effectively. Adapted for you. Reliably.



We're here for you



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The process

Ventilutions Lab is what we call the process of working with you to find exactly the solution you need to achieve your goals.

We collaborate with you to cost-effectively develop the best valve for your needs, based on your requirements, our expertise and the Ventilutions modular system.

Idea

What do you need?

1

Conception phase



Collaborative definition of your requirement profile

Feasibility testing



Analysis of relevant standards and laws

Calculation of usable resources from the Ventilutions repertoire

2

Design phase



Creation of drafts and drawings



Calculation of sample and series parts



Agreement on details and options

3

Prototyping



Production of prototypes and sample parts

Testing of components and valve



Optimisation cycles if necessary

Validation of the calculation

Done!



4

Series production



Creation of relevant documents and working papers



Procurement of tools, production and test equipment

Series production including function testing of every single valve

Final project testing

5

Logistics

We use the logistics concept that suits you to provide cost-efficiency and production reliability.



- Kanban with rolling containers
- Consignment warehouse
- Individual logistics concepts
- Defined reorder periods

+ Extensive stock

One of our strengths at RSG lies in our very extensive warehouse, where we store reserve components in order to be able to respond to your needs quickly and flexibly.



+ Implementation systems

RSG works with modern systems to be a top-class supplier in development, planning, production and logistics.

- Powerful hardware and software
- ERP system
- 3D CAD technology

Standard range

As a supplier of standard valves, RSG offers availability, security and versatility and represents a reliable contact partner in Germany. Don't forget that our standard range can be optimised with small tweaks to make the ideal product for your purposes.

PLASTIC VALVES

Extremely long-lasting and hard-wearing

High-quality RSG plastic valves, used everywhere where conventional metal valves are not sufficiently durable. Media separation allows chemical resistance. RSG plastic valves are suitable for liquid, gaseous, neutral and especially for aggressive media.



METAL VALVES

The classic choice for many fields

RSG metal valves are the ideal solution in many areas, be that in plant engineering, process engineering or filling systems. Depending on the application, metal valves are available in different designs and for pressure ranges up to 450 bar.





COAXIAL VALVES

Robust and made for highly demanding applications

RSG coaxial valves have been successfully used for years in applications with increased requirements. Due to their robust design, they are especially suitable for applications which have higher pressure ranges, have higher temperatures, and involve highly fluid to viscous, lubricating, abrasive, chemically neutral to aggressive liquids and contaminated media.



CONTROL VALVES

Versatile control

RSG control valves are often used in mechanical engineering to regulate non-pressurised circulation. Thanks to the wide range of potential control methods, these products are also used to dispense cleaning detergents or control thermodynamic processes. RSG control valves can be optimally combined with RSG coaxial valves.



THE PRIWO REFRIGERATION VALVES

RSG produces and sells the ORIGINAL refrigerating valve based on Wolfgang Offenwanger's unique principle. RSG Refrigeration valves are available electromagnetically pilot-operated actuated, offer extremely high resistance and long service life and can be employed at pressures ranging from 0,05 to a maximum of 30 bar.



OTHER ARMATURES

Rounding off our standard range

The RSG product range also includes a large number of armatures and accessories. Our range of armatures includes various non-return valves, injectors (water-jet pumps) and dirt strainers.

Success stories

Developers of custom solutions



Jürgen Mayer, Sales team south

Stainless steel solenoid valve with flange connections

Initial situation: A customer was looking through our product range, searching for stainless steel solenoid valves with flange connections. He needed a valve that offered better leak-tightness and could be exchanged easily. This product was not available as a standard solution.

Concept and customer benefit: We can make custom valves upon request. For this customer, we made the desired stainless steel solenoid valve with flange connections in the usual good quality that our customers have come to expect – thanks to our design knowledge and procurement expertise.



Vitali Gerlach,
Export and technical sales

Stainless steel direct acting coaxial valve with a nominal diameter of 50

Initial situation: A customer was looking for valves to handle gases (N₂, He and air) in an aerospace application. He provided the operating parameters for the application. Maximal operating safety, production reliability and high tightness were required. The valves needed to be free of oil and grease.

Concept and customer benefit: We calculated the Kv values and sized the valves and nominal diameters in accordance with all of the customer's specifications. The result was compact direct acting coaxial valves for installation in modular support frames. To ensure easier installation, the valves came with a mounting bracket, meaning that they wouldn't have to be disassembled.

Externally controlled coaxial valve in modular design with pilot valves

Initial situation: A customer in the mechanical engineering field had multiple valve systems in use. At least four individual valves, a wide range of hydraulic hoses and fittings needed to be kept in stock as reserves. The valves were mounted and connected to a fluid panel. This concept was very time-consuming and always led to leaks.

Concept and customer benefit: Standardisation using a clever block-valve solution. The customer only has to manage two things: a basic module and an extension module, which is needed in different quantities depending on the equipment. The connection and installation workload was reduced and sources of error and leaks were eliminated. The result was a cost-effective solution with improved quality.



Martin Kreß, Managing director

Passion for detail

Need something we don't have? Let us know! We also develop and build completely individual custom solutions. Lots of customers trust us to be the contact partner for their own technicians. With a passion for detail, we offer lots of specialised knowledge on a wide range of challenges.

We are here for you and can help you achieve your goals. Do you have novel or special requirements? We have a great deal of engineering experience. Use our expertise to examine your requirements in detail. When it comes to custom solutions, we work hand in hand with your developers. Together, we'll create top-class, unique valves that are perfectly designed down to the last detail. This approach is what impresses even our most demanding customers!

Expertise in multiple industries

RSG develops and produces suitable valves for a wide range of applications and a broad spectrum of industries. For over 30 years, we have acquired a unique wealth of experience and extensive industry knowledge, which we use to overcome virtually any challenge you as our customer may face.





Food technology

Armatures for efficient production processes and appealing products.



Medical technology

Fully certified systems and very extensive experience in this industry.



Mechanical engineering

High flow rates, high pressures – no problem.



Chemical technology

We offer suitable valves especially for aggressive and temperature-sensitive media.



Gas technology

Our valves offer what you need most: high tightness. Also approved for use in potentially explosive atmospheres.



Renewable energy

Wind turbines, photovoltaic systems and fuel cell technology.



Vacuum technology

Highly efficient and reliable components for modern analytical applications.



Plant engineering

We have the optimal product solution for any requirement, even in the face of very versatile demands.



Refrigeration

We provide you with the original refrigeration valve according to the Offenwanger principle.



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