

# *Creating the best valve together*



**RSG**

REGEL- UND STEUERGERÄTE GMBH

*Partnership  
Passion  
Performance*

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*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-standing, tried-and-tested 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*

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# Service

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## *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.



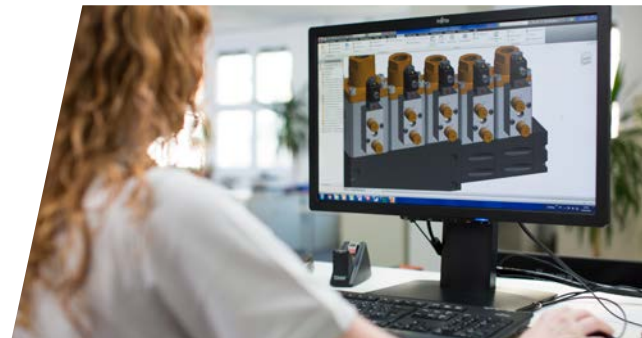
### *Returns service*

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.



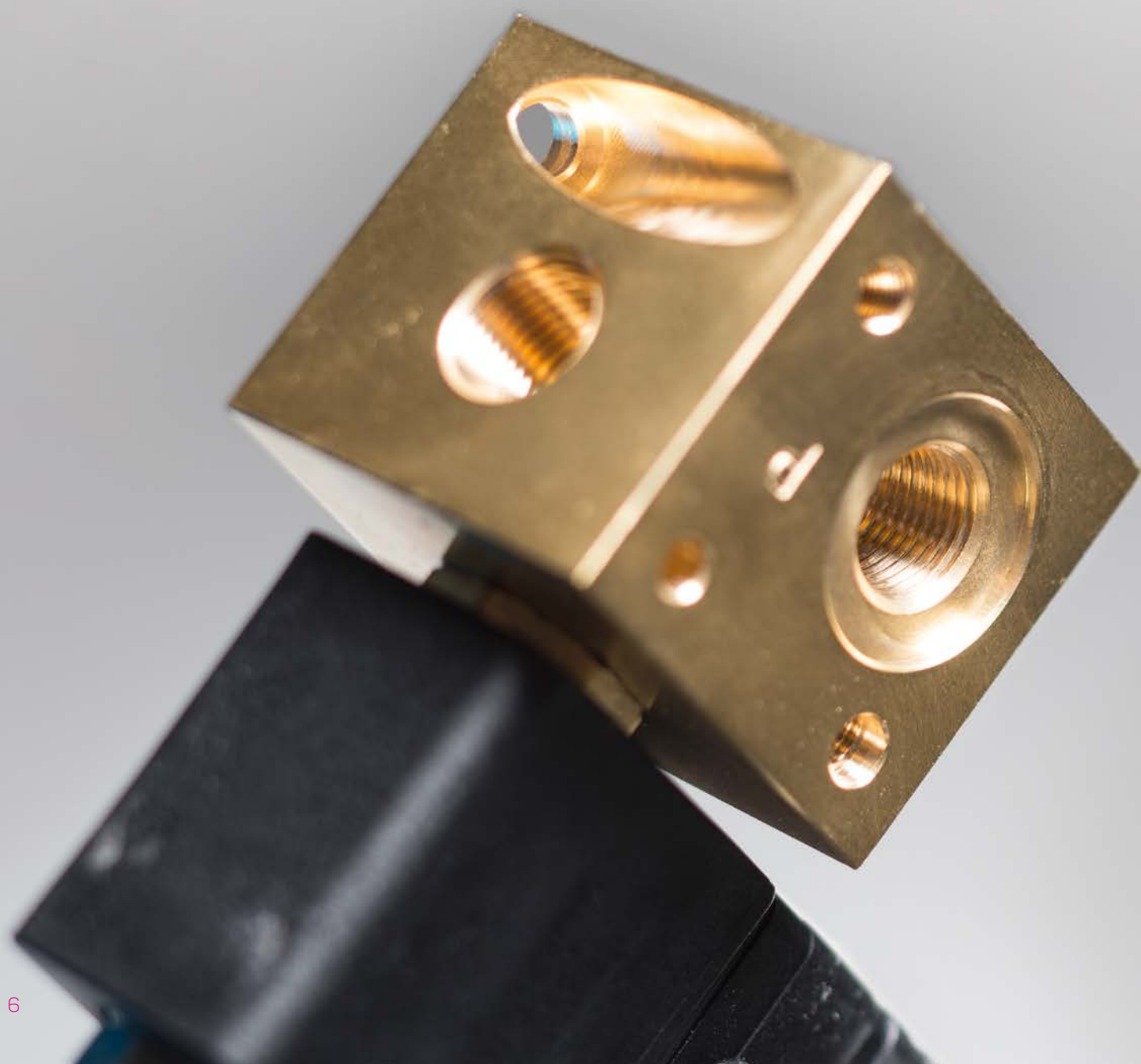
### *Expertise*

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*

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The logo for Ventilutions features a stylized graphic of overlapping red and pink squares to the left of the word "ventilutions" in a bold, blue, sans-serif font.

- Full access to a phenomenal modular system of components based on over 30 years of expertise.
- Thanks to individual adjustments, we can create 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
- Ball valves
- Other fixtures

› [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 are your singular supplier and are can provide everything from our standard range of products to custom solutions that meet your needs exactly. We are your reliable partner.







# Valves that perform

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*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 tolerance end ranges

*Exact regulation*  
for when a specific pressure is required

# The system

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## *Building the best valve with 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.

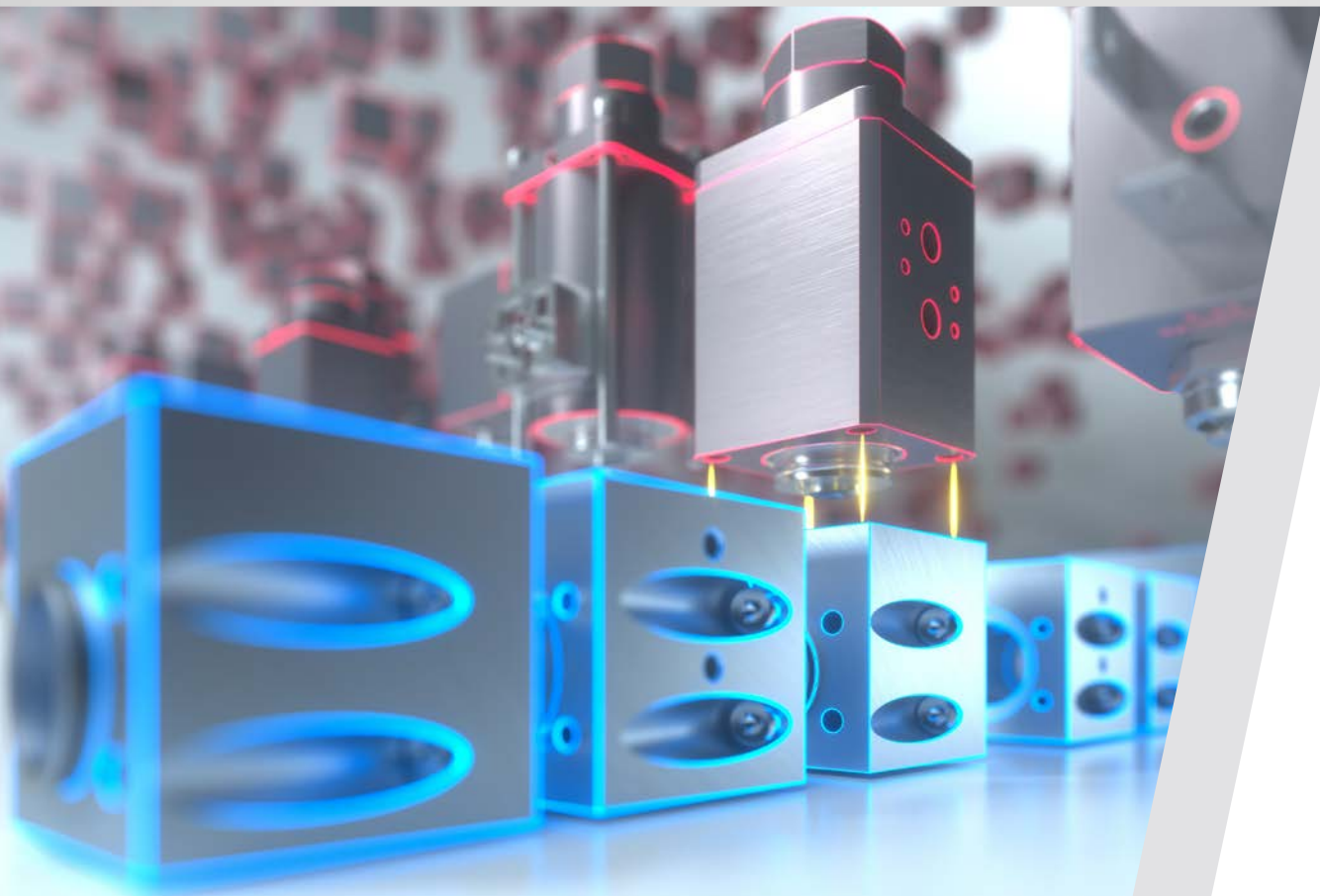
Ventilutions include individually tweaked standard products, cost-reducing adaptations and highly complex custom valves.

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 unbeatable value for money!

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 individual parts, 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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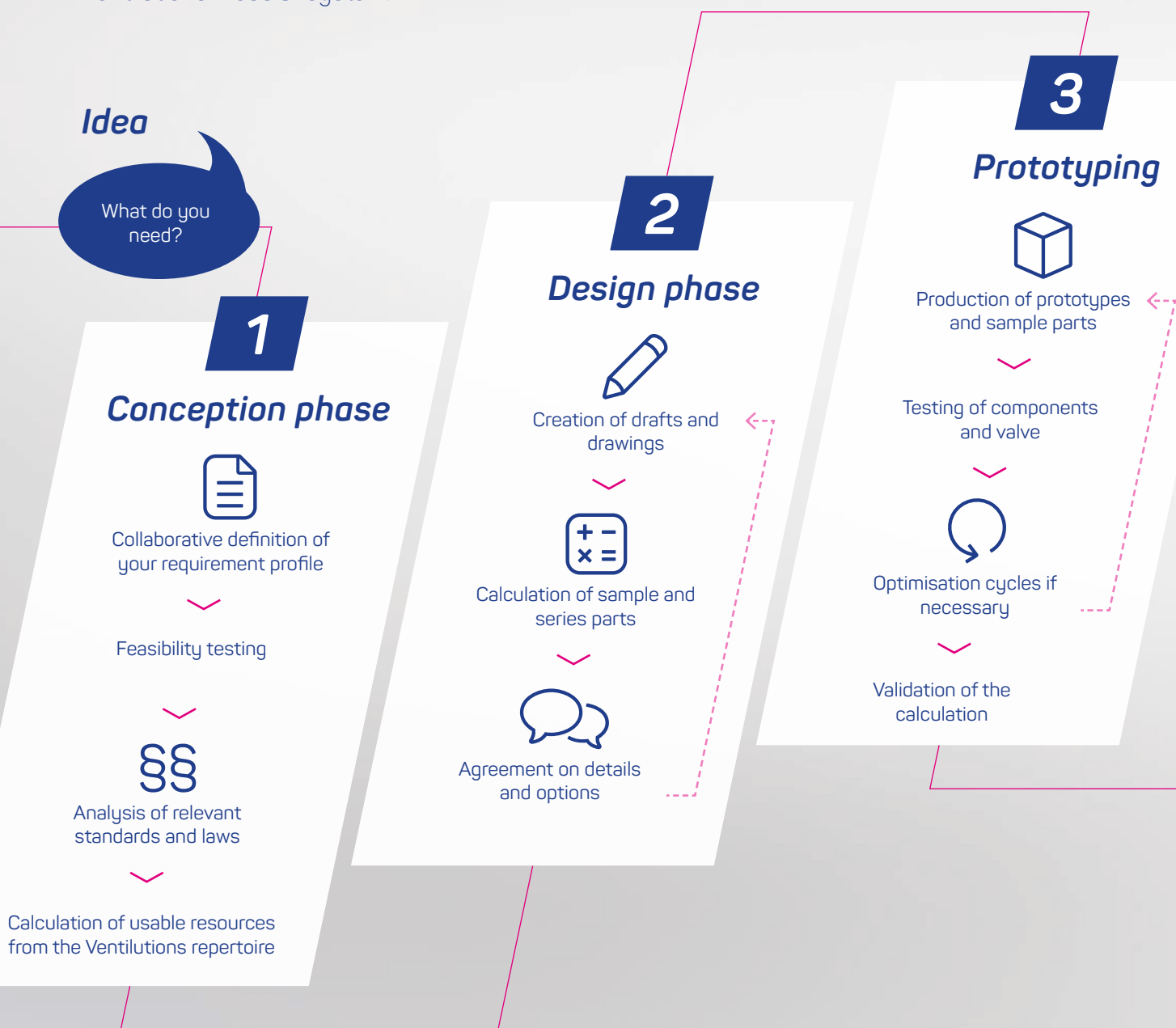
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# The process

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.



**Done!**



**4**

## Series production



Creation of relevant documents and working papers



Procurement of tools and 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 and production and logistics.

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

# Standard range

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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 fixtures are not sufficiently durable. Media separation allows for media stability. RSG plastic valves are suitable for liquid, gas, 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 for more demanding applications**

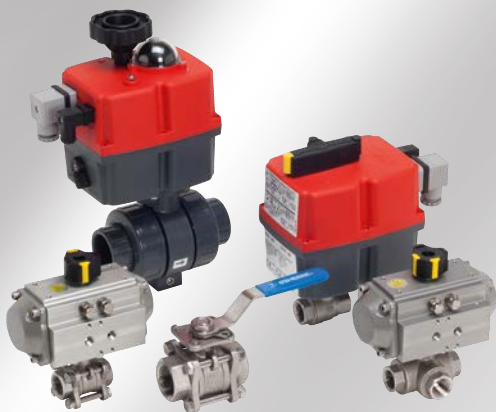
RSG coaxial valves have been successfully used for years in applications with increased requirements. Due to their robust design, they are especially suitable for applications which have higher pressure ranges, have higher temperatures, and involve highly fluid to viscous, lubricating, abrasive, chemically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



## BALL VALVES

**High volume, high pressure**

RSG ball valves allow for high-volume flows with relatively high pressure. In contrast to solenoid valves, the motor-operated ball valves close slowly, preventing pressure blows. The ball valves can also be automated with pneumatic drives.



## OTHER FIXTURES

**Rounding off our standard range**

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

# 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-control coaxial valve with a nominal diameter of 50*

**Initial situation:** A customer wanted valves to handle gases (N<sub>2</sub>, He and air) in an aerospace application. He already knew the operating parameters for his application. He wanted maximum operating safety and production reliability and had high leak-tightness requirements. The valves needed to be grease- and oil-free and suitable for long-term operation.

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



## *Modular external-control coaxial valve 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 screw connections 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*

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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*

Fixtures 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 leak-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.



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