

COMPETENCE IN ROTARY VALVES

Our world leading rotary valves play an integral part in the efficiency and safety of a powder handling process. Thanks to their highly modular design, Gericke RotaVal valves can be adapted for virtually all types of product characteristics and applications, from heavy duty to highest hygienic standards.



RotaVal.

THE ROTARY VALVE EXPERTS FROM GERICKE

What Is A Rotary Valve?

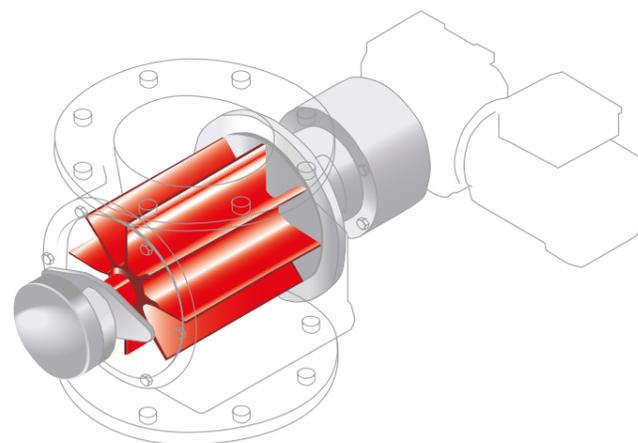
Rotary Valves are compact devices widely used in bulk handling systems to control the discharge of powders and granular solids, normally under gravity, between two parts of a system; usually when there is a gas pressure differential between the two parts.

RotaVal – Rooted in the UK, Connected to the World

Since its founding in 1970 in Chippenham, UK, RotaVal has remained dedicated to one core mission: mastering rotary and diverter valve technology. With deep specialization and decades of experience, the company has crafted solutions tailored to the unique challenges of industries as diverse as food, pharmaceuticals, mining, chemicals, and tobacco.

What sets RotaVal apart is its ability to blend engineering precision with a deep understanding of customer needs, transforming pain points into performance gains.

Today, RotaVal proudly operates as part of the Swiss-based Gericke Group, a global leader in bulk material handling and powder processing. This partnership empowers RotaVal to offer world-class expertise with local presence—delivering trusted support and innovative solutions to customers across the globe.



KEY APPLICATIONS



Pneumatic Conveying

Lean or dilute phase conveying systems are the ideal solution for transferring bulk materials that do not require particle preservation and are not abrasive. Its advantage lies in the versatility of products that can be conveyed as well as in the space saving setup.



Filling

Acting as efficient airlock with low leakage characteristics our rotary valves enable accurate and timely operations.



Metering and Reactor Loading

Our rotary valves are designed to ensure optimal metering efficiency of any bulk material. The modular design has features that will improve throughput and reduce your total energy consumption.



Hazardous Areas

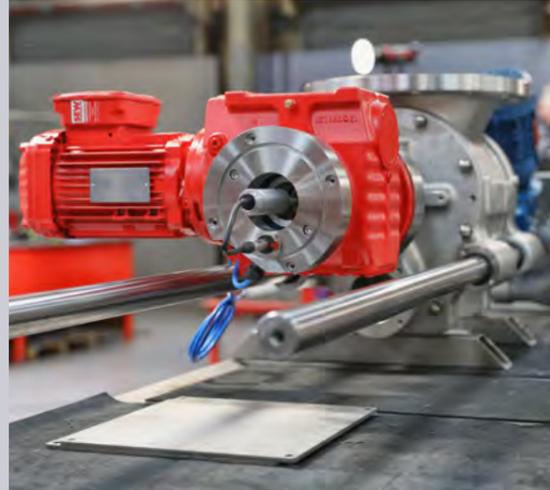
Our valves are fully certified to be installed in hazardous areas and act as flame barriers or for pressure containment if required.

GERICKE RotaVal. BECAUSE IT IS NOT JUST A ROTARY VALVE

RotaSafe

Instant Contact Detection to Protect Your Process

The rotor protection system RotaSafe is designed to instantly detect any contact between the rotor and valve housing while at the same time sending a signal to the panel to isolate power to the drive motor. It will primarily be of interest to customers where product contamination due to metal to metal contact is a significant issue.



Tapered Bore

To prevent potential product contamination our unique tapered bore with matching rotor design and guide rails provide scratch and damage free rotor extraction and insertion.



Coatings

In addition to standard stainless steel and cast iron construction special product contact surface coatings are available such as Chrome, Tungsten Carbide, Xylan and Plasma Nitride.



Individually Pressure Tested

For all our autonomous and explosion proof ATEX valves a hydrostatic test is carried out up to 20 bar and certified up to 10 bar on each and every one of them, for your safety and the reliability of your production.



External Wash in Place

This option allows pressure wash cleaning of the exterior surfaces of rotary valves in demanding services and environments to enhance plant cleanliness, increasing reliability, and reducing downtime and operational costs.



Rotor Alignment

Patented RotaLign locking system provides for repeatable rotor installation reducing significantly maintenance turnaround times.



Always the Right Rotor Design

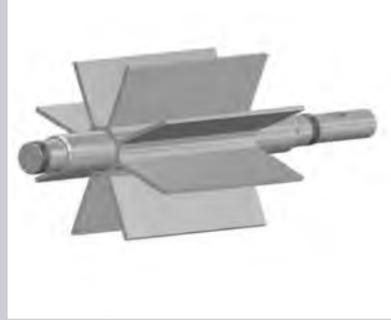
Whatever the product handled, including abrasives, we have a rotor to suit the application.



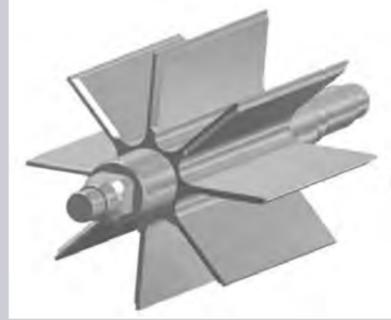
Global Service

We speak your language! With our global network of subsidiaries, test centres and partners, we support our customers in all parts of the world. Wherever you are, we will be with you.

ROTOR DESIGNS



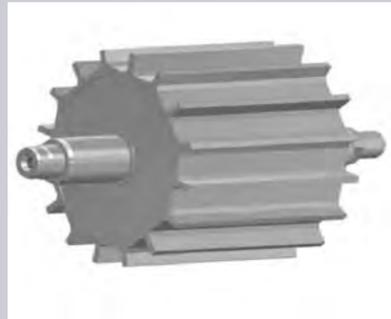
Open Fixed Vane
Basic component for products that do not exhibit difficult handling characteristics.



Open Fixed Chamfered
For product that tend to smear.



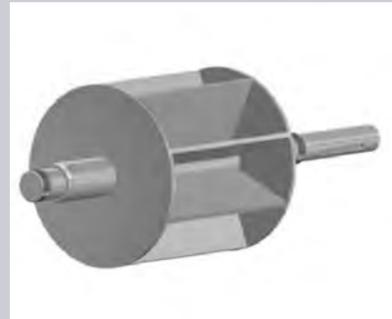
Reduced Capacity
For accurate control.



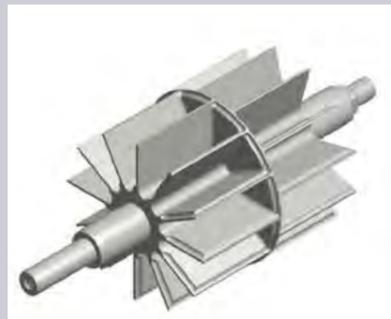
Reduced Capacity Multi-Vane
Where product have very poor flow characteristics requiring an abnormally large inlet throat.



Replaceable Blade
For tighter clearances and abrasive products.



Closed
For handling of larger size abrasive materials.



Staggered Pockets
For discharge into twin outlet.



Helical
Increased shear angle or reduced pulse discharge.

STATE-OF-THE ART PRODUCTION FACILITIES

Gericke is proud to operate its RotaVal production facility in the South of England, a key part of our global network. This site exemplifies state-of-the-art manufacturing, producing high-performance rotary valves with precision and reliability.

Equipped with advanced machinery and rigorous quality control, the facility ensures every product meets the highest standards. Our commitment to innovation and excellence is reflected in continuous investment and skilled craftsmanship.

Producing in Europe allows us to respond quickly to market needs, and support sustainable, high-quality manufacturing. As part of the global Gericke family, RotaVal contributes to delivering trusted solutions across industries and continents.



THE MODULAR RANGE. OFTEN COPIED, NEVER MATCHED

Available in drop through and blowing seal designs.

HEAVY DUTY HDM / BSM

This is our general purpose rotary valve line, able to cover many standard applications.

This family of valves has been designed using finite element analysis to make the housing even more robust.



FAST CLEAN HDMF / BSMF

The USDA Dairy and EHEDG qualified fast clean rotary valve provides users with increased productivity through a design that realises minimal down time for frequent cleaning of valve internals. The non-drive end cover incorporates the RotaLign bearing assembly. This coupled with the taper bore feature makes the design operator friendly and eliminates process and product risk.

Both end opening for full access to internals is available. A robust construction makes this fast clean range suitable for use in all types of industry.

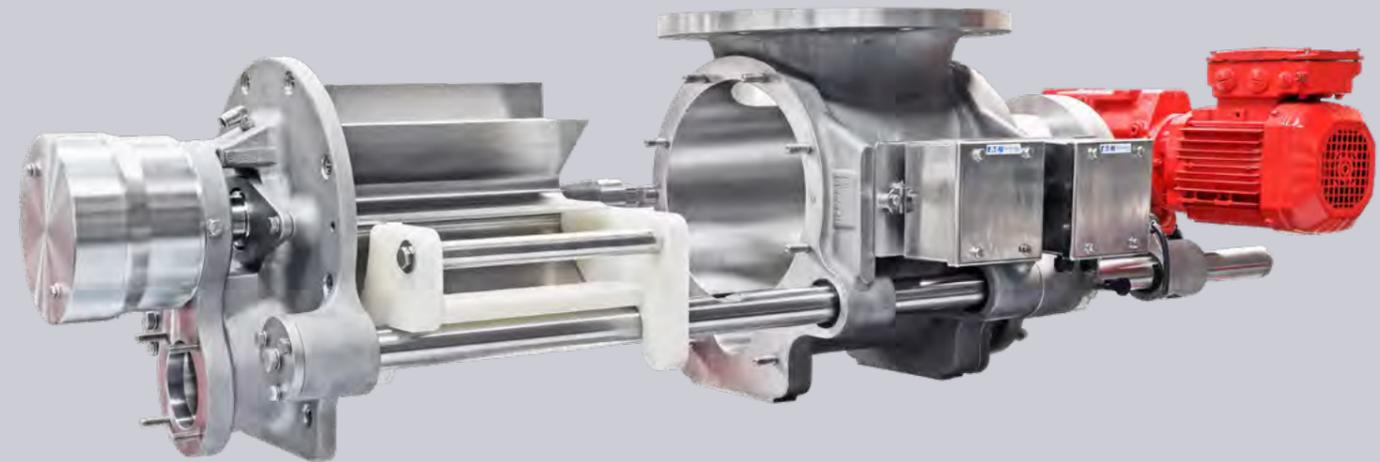


CLEANABLE HDMC / BSMC

The cleanable rotary valve is a cost effective solution based on the heavy duty version for occasional inspection and maintenance of the internals.

The non-drive end cover can be quickly removed to gain access for cleaning which can be carried out by plant operators without the need for special tools.

Various standards of finish are available to suit most hygienic applications.



HYPERGIENIC VALVE

State-of-the-art for pharma and food



Developed in co-operation with the pharmaceutical industry, the fully machined from solid design embodies a range of detailed features that validate the design and construction for the dedicated purpose. There is an easy clean version and a fast clean railed version.

Meet the highest standards

RotaVal Hypergienic HGMC Rotary Valves are designed to meet the critical needs of the pharmaceutical and food industries.

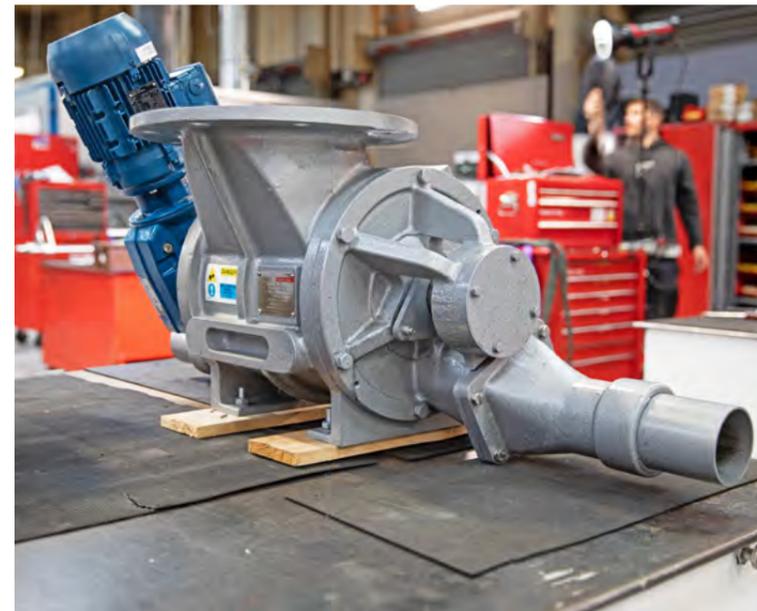
The innovative and flexible design allows for variations to individual units to be included to meet customer specific requirements, including all required validation documents.



SPECIAL PROJECT VALVES WE DO NOT STOP AT 500 MM

We supply special purpose and non-standard size valves for the steel, chemical & tobacco industries regularly.

Our design team thrives on finding solutions for challenging applications.



DEALING WITH ABRASION

Valves can be affected by abrasion in two specific ways:-

1. Mechanical attrition where product particles are sufficiently large to be drawn round within the valve clearances and are sufficiently hard to abrade the surfaces.

Provided the particles can 'roll' through and or are sufficiently friable then most often the life of the valve can be managed by wear resistant surface coatings and hard material components. The final construction chosen will depend on the character of the particles i.e., hardness, surface profile etc., and system conditions.

2. High Velocity Erosion occurs when powder particles are entrained in the leakage air escaping through the clearances when operating under a high-pressure differential.

If unsuppressed, leakage velocities in the clearances can be as high as 140mtrs/sec so even some products that are not normally be classes as abrasive become so. Matters are further aggravated by much of the product arriving at the most abrasive approach angle of around 3°

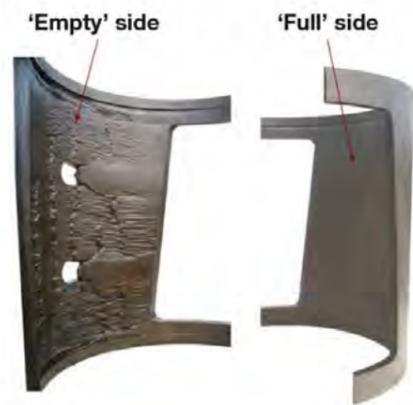
In such cases surface coatings are rarely offer much protection as once breached the conditions then rapidly erode the softer construction base.

If a Rotary Valve is the preferred choice for duty, then the requirement is for the working surfaces to be replaceable, wear resistant components that provide for both extended life and for on-site replacement when necessary.



EHD showing sacrificial wear components Providing extra life and on-site refurbishment.

Examples of wear components



Wear pattern – Bore liner
Split to show wear pattern. Full side where product blocks leakage.
Empty side where residual carryover product has free passage through the clearances at high velocity.



End Cover Wear
Velocity erosion at Shaft Seal area where leakage is constant.

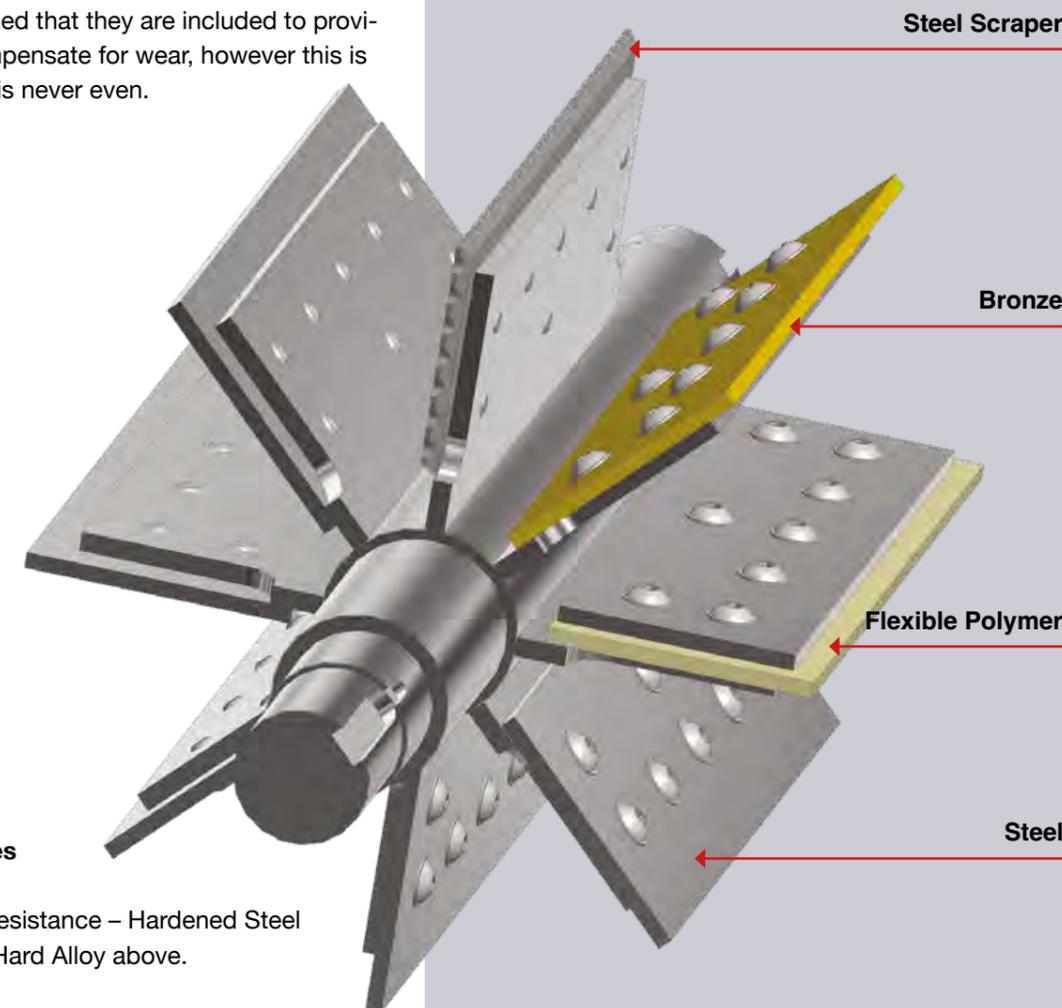


High velocity erosion

REPLACEABLE BLADE ROTOR OPTIONS

Replaceable blades provide solutions for dealing with some difficult product characteristics. They also provide for in-situ adjustment to be able to run at minimum clearances and therefore leakage.

It is commonly assumed that they are included to provide adjustment to compensate for wear, however this is not the case as wear is never even.



Common Blade Types

Steel - For abrasion resistance – Hardened Steel up to around 160°C; Hard Alloy above.

Stainless Steel - for corrosion resistance and sterility.

Phosphor Bronze - for close clearance operation for minimal leakage requirements.

Scraper - for products that compress and build-up on the swept surfaces to minimise torque loads. Predominately needed for food and plastic applications requiring Stainless Steel construction.

Flexible - (variable material options) low cost option for non-friable granular products. Generally confined to low pressure differential applications.

A FIT FOR MANY INDUSTRIES.

Our rotary valves are used in many types of industries, from pharma and food to chemicals, batteries and even mining.



THE COMPLETE AFTER-SALES SERVICE.

Our valves are built to last a life-time when carefully maintained and serviced. We view the sale of our valves as just the start of our partnership with our customers. We are here to support and offer advice for the long-term.



On-Site Surveys

Not sure what you need or having difficulties with existing valves? We can arrange an on-site survey that will give you some advice and point you in the right direction.

Servicing & Maintenance Contracts

Keep your valves regularly serviced to maximise performance and certification compliance.

Training

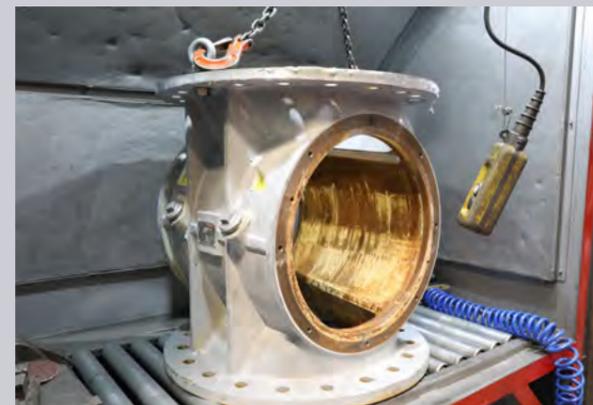
When your valve is delivered, do you need support and training during installation? We have the ability to supply an experienced engineer to offer guidance through the process.

Spares

We offer a full spares program to keep your production up and running. Do make a note of the valve serial number as this will be needed to identify what you need.

Refurbishment

We can offer a strip and inspect service and give you some detail information whether your valve can be refurbished or whether is it more beneficial to purchase a new one. Refurbishments include new parts and a re-paint to return it to new condition.





Tests on an industrial scale reduce planning time and increase process safety!

Test centres in Switzerland, France, England, Brazil, USA and Singapore are available for customer tests under near-production conditions with original machines. It is also possible to test all types of pneumatic conveying setups, even with distances exceeding 200 meter!

Experienced specialists design the test layout according to your wishes and perform the tests.

- Testing of machines and prototypes with original products
- Checking of performance ranges and accuracies
- Testing of the interaction of multiple machines
- Gaining of experience for product processing
- Sampling for laboratory tests and market response
- Customer training
- Remote test monitoring available

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