

## Ball valve technology in industrial applications

Safely shut off  
and direct your media



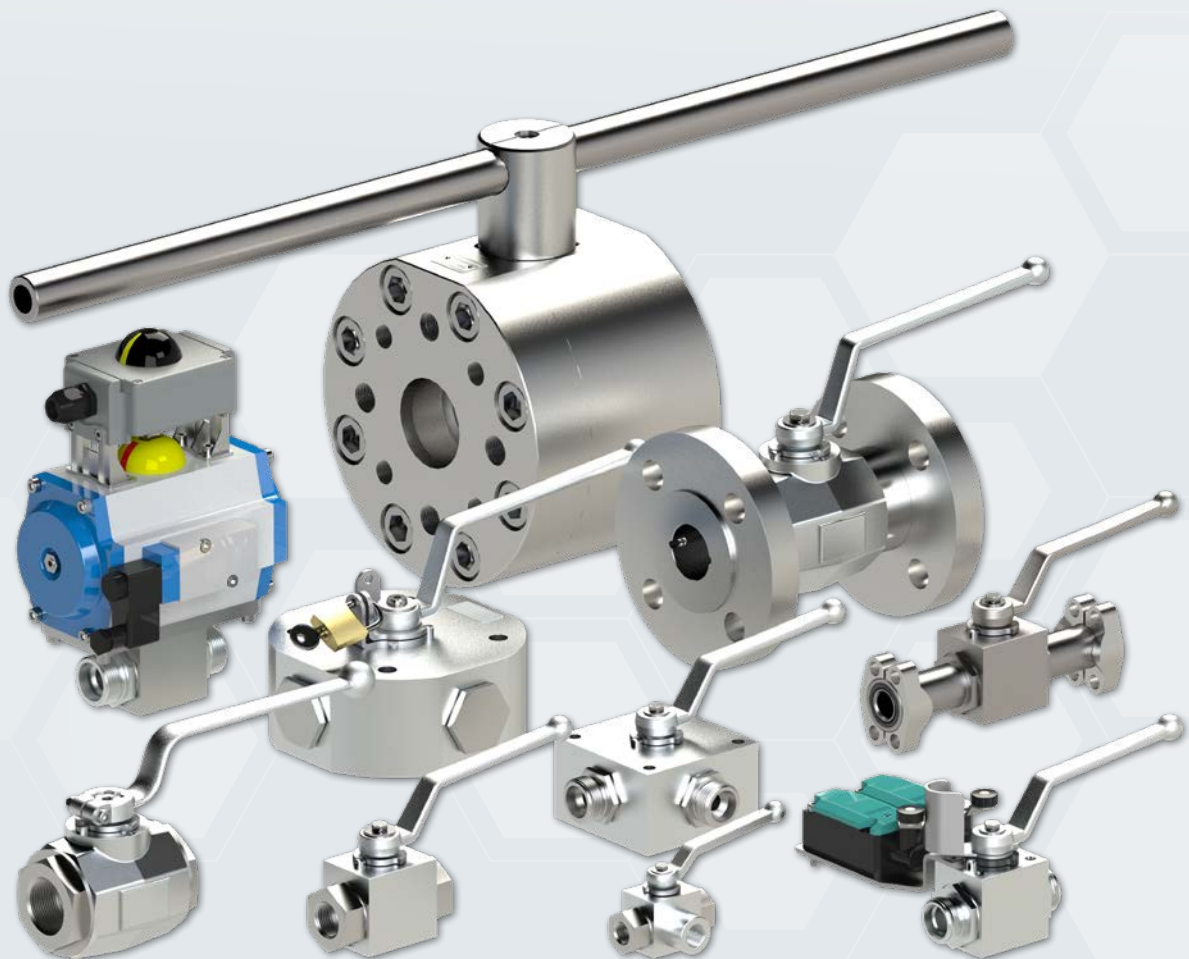
# The perfect combination of quality and performance – HYDAC ball valve technology

For more than 60 years, HYDAC ball valves have provided the highest level of safety when shutting off, diverting or distributing your media. High-quality materials for liquid, gaseous or abrasive media and a multitude of designs and connection types are available for virtually every application. Our products meet the highest safety standards when it comes to durability and leak tightness.

The wide variety ranges from simple switch valves to application-specific solutions for demanding media, such as hydrogen. Ball valves have been specifically developed for this purpose with specially adapted combinations of materials and sealing systems.

## Do you need a custom solution?

We'd be happy to support your projects with the help of our experienced engineering team and work with you to find the right components.



# Precision in movement – Ball valves for the highest requirements

When it comes to quality and reliability, we've been the preferred partner for ball valves for over 60 years. Over this long period of time, we've made a name for ourselves and have firmly established our position in the industry.

We owe our success to the passion for first-class products and our dedicated employees, who always work to the highest standards. Every single ball valve that leaves our production line is a product of meticulous craftsmanship and strict quality controls.

Our ball valves feature long service lives, efficient operation and resistance to corrosion. They've been designed to meet the toughest requirements and to ensure that your systems will be available at all times in the long term.

## From standard 2/2-way ball valves right up to the entire distribution system

HYDAC multi-way ball valves and special blocks shut off, distribute or direct your media into the intended channels.

We supply customised solutions with additional safety functions – shutting off or diverting your media and a throttle or check function combined in one compact block.

Additional equipping with position monitoring and automation using pneumatic, electronic or hydraulic drives is available for virtually any design. Custom requirements can be implemented quickly thanks to our extensive experience and our manufacture and assembly on-site.

- Nominal width 04 – 150
- Pressure ratings up to 1,050 bar
- Numerous connection types
- Switching lever, safety hand lever, lever with detent function and much more.
- Pneumatic, electrical or hydraulic drives
- Locking devices
- Detent functions to secure the switch position
- High-quality materials and sealing variants
- Surface protection
- Design adjustments, e.g. protection against unintended actuation
- Numerous accessories
- Standard solutions available from stock

## Contact us today



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## From the standard ball valve ...



5.501  
5.533

2-way ball valves



5.507  
5.510

Low-pressure ball valves



5.506  
5.509

Manifold mounted ball valves



5.504

Change-over ball valves



5.503

Multi-way ball valves



5.527  
5.537

Compact flange valves



5.513  
5.521  
5.525  
5.534

SAE fixed flange ball valves



5.502  
5.512  
5.523  
5.526

Flange ball valves

## ...to automated versions with end position monitoring ...



5.529

Ball valves with pneumatic actuators



5.530

Ball valves with electric actuators



5.522

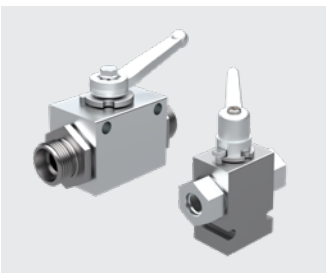
Ball valves with electromechanical limit switches



5.522

Ball valves with inductive proximity switches

## ...as well as safety options and custom solutions.



Ball valves with mounting option



5.528

Ball valves with locking function



Ball valves with detent or forced switching function



5.539

Ball valve combination

# The right custom solutions for almost any market

HYDAC is your reliable development partner for all challenges relating to production. We supply a wide range of ball valves for fluid, gaseous or abrasive media. From simple shut-off solutions to developing new innovative designs, our engineers can support you in almost all applications.

Our experts work on joint projects to develop the perfect ball valve for your application. Whether it is a series product or a tailored solution, our broad portfolio allows us to adapt our products to the specific challenges of any industry.

On the following pages, you will find a selection of ball valves with specific characteristics – contact us for your custom solution.

## Metallurgy

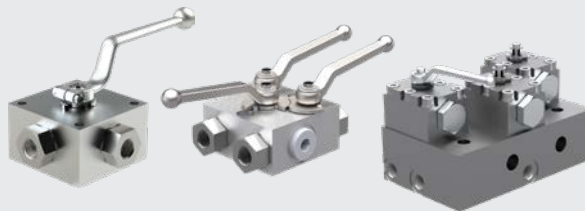
Secure shut-off, with the option of a large number of safety functions such as double shut-off (DBB) including pressure release, bypass block solutions to reduce potential leakage points, end position monitoring or securing against unauthorised switching. Our team will be happy to work in partnership with you to develop a custom solution.



## Pulp and paper

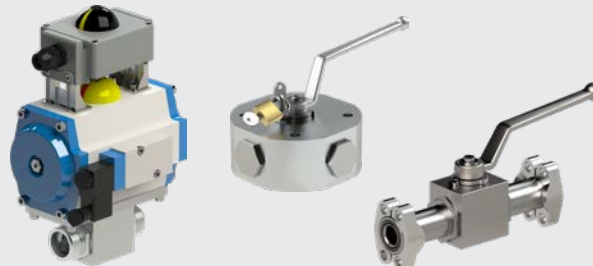
High-quality paper manufacture calls for maximum machine availability.

We supply custom solutions, from shut-off valves to multifunctional ball valve blocks with numerous functions, optionally automated with an electric or pneumatic actuator.



## Battery production

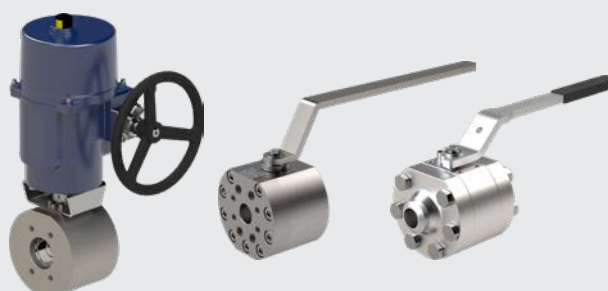
We supply ball valve solutions that can optimise your manufacturing processes in terms of maintenance strategy and service life extension. Our ball valves can be made of special materials and fitted with sealing systems that withstand abrasive media, such as slurry.



## Oil and gas

You can fully rely on our ball valves for secure and gas-tight shut-off in demanding environments.

Numerous designs, sealing systems, connection options and automation solutions are available.



## Presses, forming machines and recycling

For powerful performance in rough operating conditions, we supply custom shut-off solutions. Equipped with tailored sealing systems, HYDAC ball valves are highly durable and maintenance-free.



## Plastics machines

Demanding media call for high-quality sealing systems designed to shut off your media over and over again without failure. Manually switched or automated and end position monitoring – even at high temperatures.



## Automotive industry

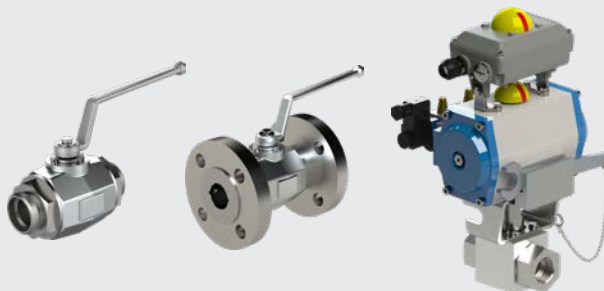
Shutting off and redirecting highly viscous and abrasive media, heatable and piggable with little dead space. Demanding media such as isocyanate require adapted sealing systems. Cleanliness classes up to LABS/PWIS (paint wetting impairment substances) conformity in accordance with VDMA 24364 are available for coating technology.



## Fire safety

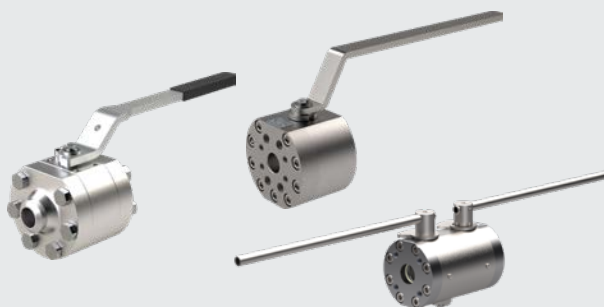
Safety valves for fire extinguishing systems have to meet the strictest requirements.

Our custom solutions with coordinated sealing systems, manual override in automated versions and ATEX approvals can meet these requirements.



## Mining and tunnelling

Robust and reliable even in harsh environments, our ball valves enable secure shut-off with an optional double safety shut-off function including pressure release (DBB) – with either manual or automated switching.



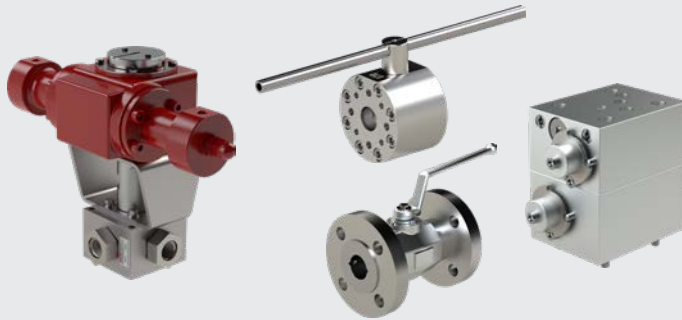
## Maritime industry

HYDAC ball valves provide corrosion-resistant, space-optimised shut-off and redirect solutions, even for alternative fuels, with certifications from all renowned classification societies.



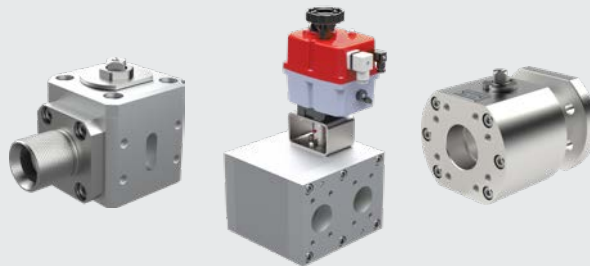
## Hydropower

A large number of designs, sizes and sealing systems and almost all connection types are available. With optional automation and end position monitoring.



## Wind energy

HYDAC ball valves in top quality for your requirements in the wind energy sector. Thanks to the materials and sealing systems used, our ball valves withstand extreme weather conditions and provide long-lasting operational safety. Suitable solutions can be implemented and offered in little time.



## Conventional power plants

Thanks to our decades of experience, we can implement special solutions to suit your needs, such as space-optimised shut-off blocks with a safety function or CETOP sandwich plates with integrated check valves.



## Alternative energy sources

In the course of the transition to clean energy, new media such as hydrogen are becoming increasingly important. With specially selected materials and sealing systems, we can shut off these media reliably and gas-tight. Other media include ammonia, methane and oxygen.

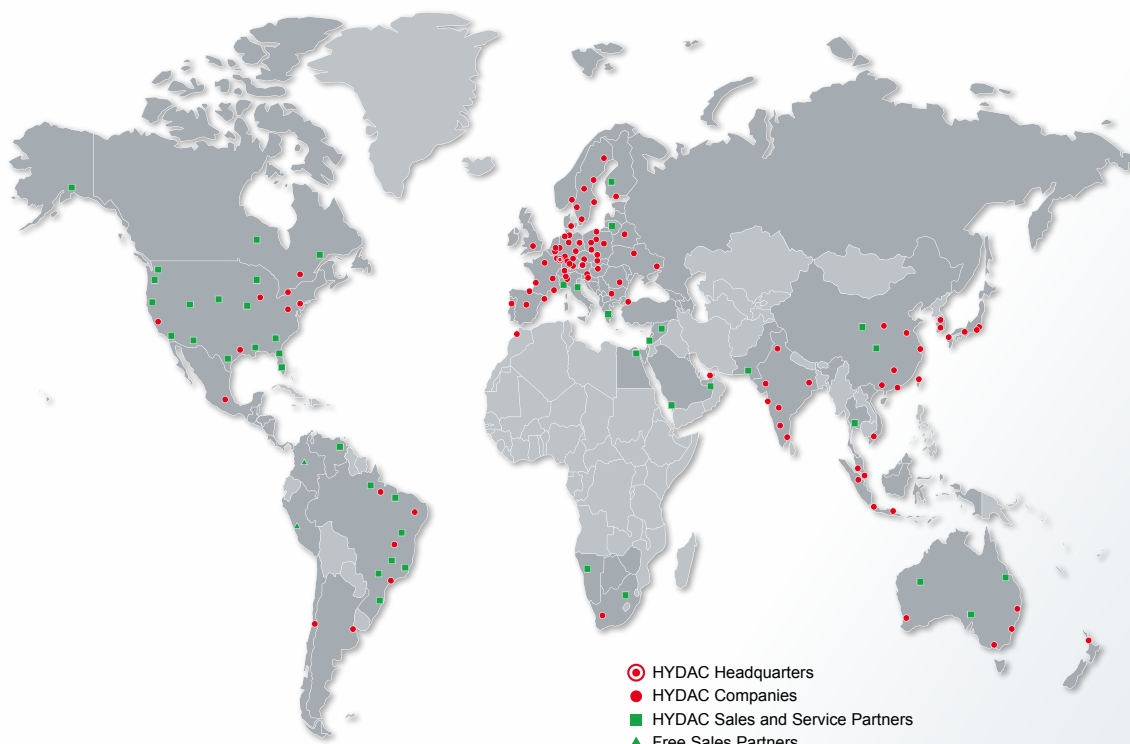


# HYDAC is your development partner

With over 60 years of expertise in the fields of fluid technology, hydraulics and electronics and impressive innovative strength, we devote our energy to the technologies of the future.

Around 10,000 employees, 50 HYDAC subsidiaries and more than 500 sales and service partners ensure that HYDAC is on hand to help you as a reliable partner worldwide. Our product range extends from components and subsystems right up to complex drive units with closed-loop control for mobile and industrial systems. We also offer our customers a large range of technical services relating to HYDAC fluid engineering for hydraulic oils, lubricants, coolants and water.

Trust in our global network of experts and our top quality standards.



## HYDAC INTERNATIONAL

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### Note

The information in this brochure relates to the operating conditions and applications described. For applications and/or operating conditions not described, please contact the relevant technical department.

Subject to technical modifications.