

Media management, mounting technology and connection technology in data centres

Efficient. Innovative. Reliable.



HYDAC Accessories in data centres

WHITE SPACE/server room

In white space, components need to be precise, compact and easy to service. Operators and suppliers have to work with extremely confined space conditions – and require solutions that are able to be upgraded and retrofitted without disrupting IT operations. HYDAC Accessories supports these requirements with high-precision mounting and media management systems for all the cooling near racks.

Example applications for our products in white space:

Server racks and IT racks:

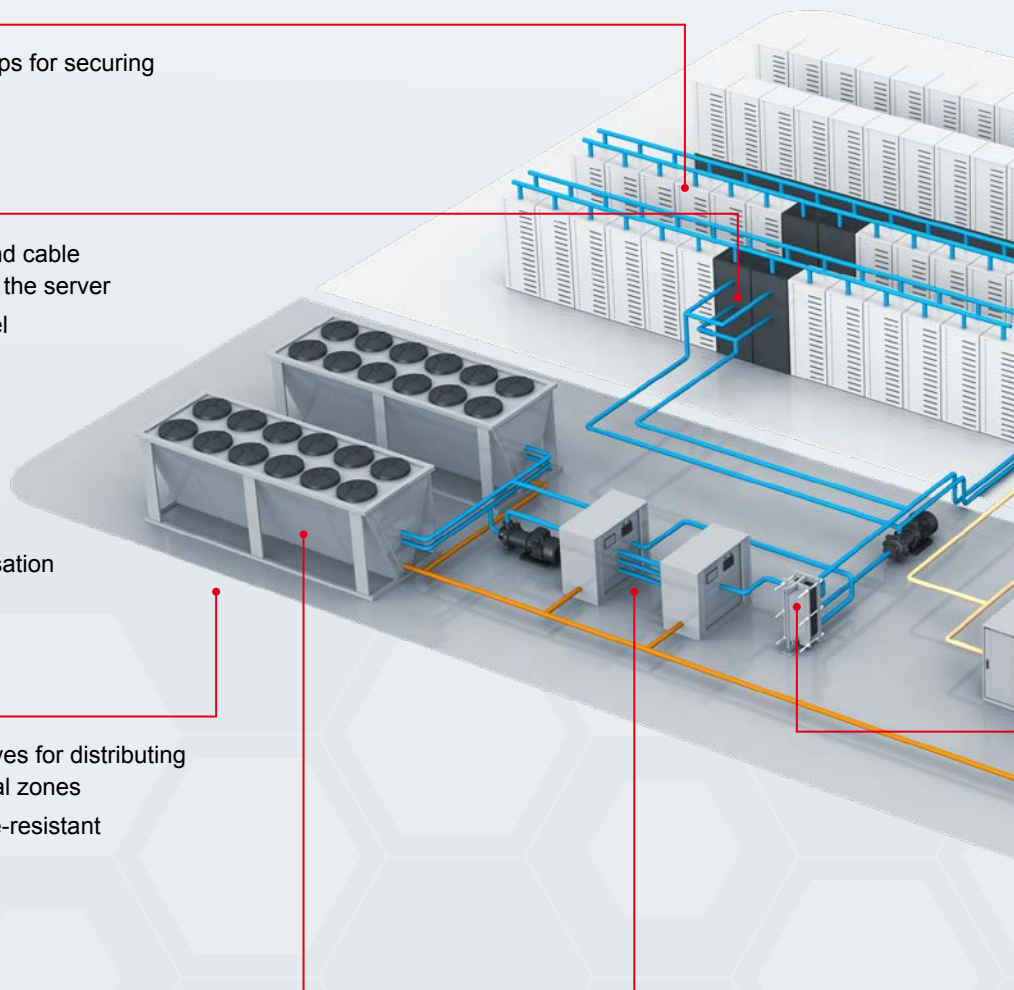
- HY-ROS DIN3015 clamps and series strips for securing supply and return lines on server racks
- Mini ball valves

Coolant distribution units (CDU):

- HY-ROS DIN 3015 for cable mounting and cable vibration isolation from the CDU outlet to the server
- HY-ROS series strips for bundling parallel coolant lines
- HY-ROS band straps for securing expansion tanks, with an optional integrated cable bracket right at the band strap
- Teekay pipe couplings for weld-free pipe connections and tolerance compensation
- Coaxial valves for switching primary and secondary circuits

Fire protection:

- Section valves/ball valves or coaxial valves for distributing the extinguishing media into the individual zones
- TeekayAxilock-FP (ISO 19921/22) for fire-resistant pipe connections



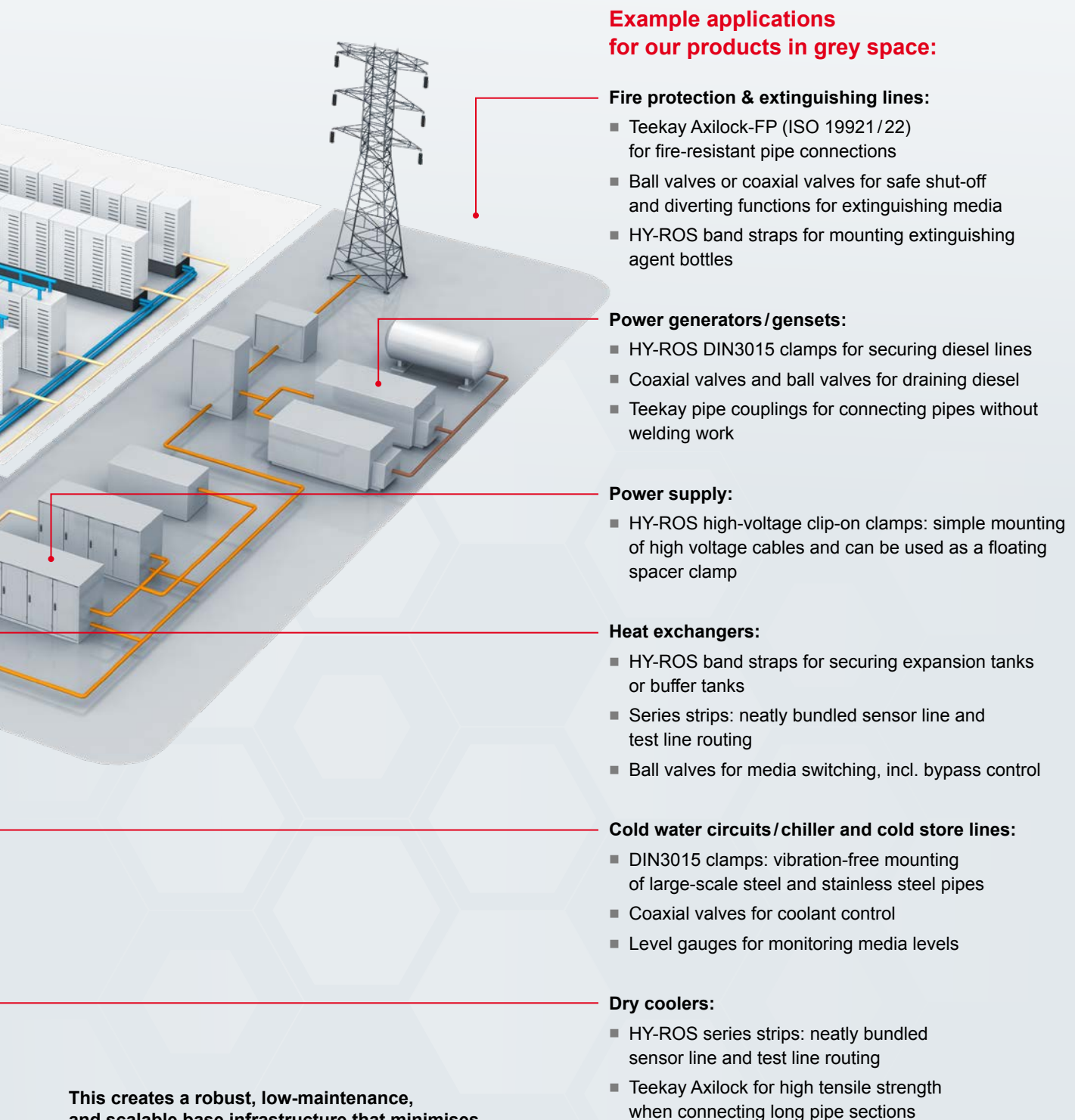
HYDAC is a member of the



GERMAN
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GREY SPACE/peripheral technology

In grey space, the reliability of large cooling systems and supply systems determines the stability of the entire data centre. Operators and suppliers need solutions that are robust and easy to install with minimal service requirements. HYDAC Accessories offers a complete system of mounting, connection and media management components for this exact purpose – designed for high flow rates, vibrations and long life cycles.



This creates a robust, low-maintenance, and scalable base infrastructure that minimises downtimes and reduces service costs.

Mounting and connection technology

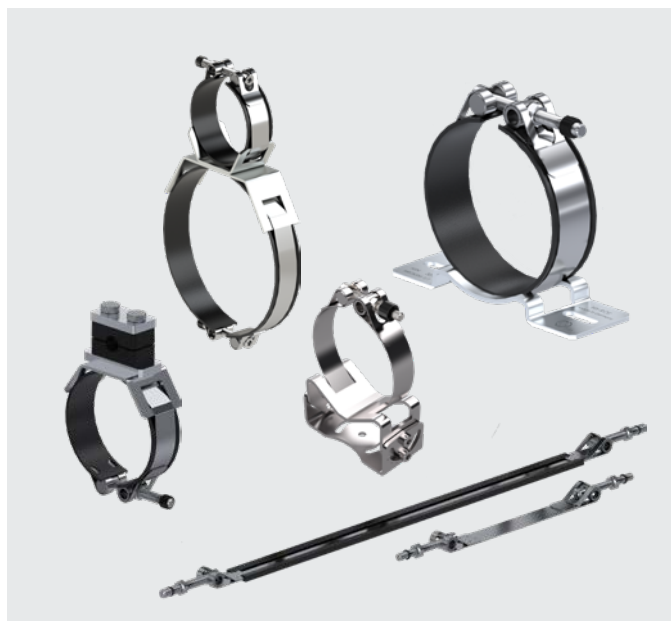
HY-ROS mounts for pipes, hoses, cables and cylindrical components

Our mounting technology provides durable, clear, and easy-to-service routing in the highly sensitive data centre environment, from the peripheral technology to the rack.

HY-ROS DIN clamps, series strips and band straps cover all requirements: from precise routing of small media lines, to highly vibration-resistant pipe mounts in cooling circuits to flexible mounting of tanks, pumps and power units. The modular system enables quick adjustments, minimises downtimes and increases the operational reliability in both grey and white space.

Your advantages – HY-ROS pipe, hose and cable mounts

- Maximum vibration damping and noise damping to protect pumps, fittings and critical infrastructure (e.g. CPUs, GPUs)
- Thanks to compact designs, the cable routing remains clear and compliant with maintenance and safety requirements
- Modular design according to DIN 3015
→ easy replacement & expansion
- Variety of materials: PP, PA, aluminium, stainless steel A2/A4
- Perfect flexible routing of single and multiple lines
- Durable, corrosion-resistant, easy to service
- Design optimised for overhead or underground installations



Your advantages – HY-ROS band straps

- Flexible mounting of tanks, accumulators, pumps, power units and pressure vessels
- Functional integration is possible
- Lightweight, robust and ideal for large diameters
- Easy installation via patented quick-release closure
- Quick installation without special tools
- Corrosion and temperature resistance
- Safe and tested for use with vibrations or dynamic loads in cooling zones or pump environments
- Easy to mount in tight spaces → particularly valuable between racks, in raised floors or above cable trays

Teekay pipe couplings for pipe connections without welding

With the Teekay pipe couplings from HYDAC, you can connect virtually **any pipe, material and almost any diameter** – quickly, safely and without welding.

Whether it's in grey space on chillers, coolers or heat exchanger systems or in white space when precisely connecting CDUs and rack cooling lines: Teekay couplings enable quick installation, safe repairs and reliable compensation of tolerances and movements.

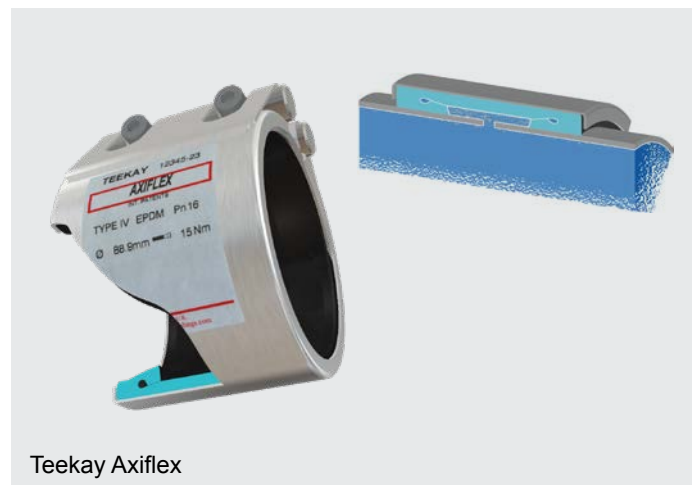
The pipe coupling product range offers high tensile strength variants, highly flexible variants and fire-resistant variants as well as practical repair couplings – for every technical challenge.



Teekay Axilock

Your advantages – Teekay pipe couplings

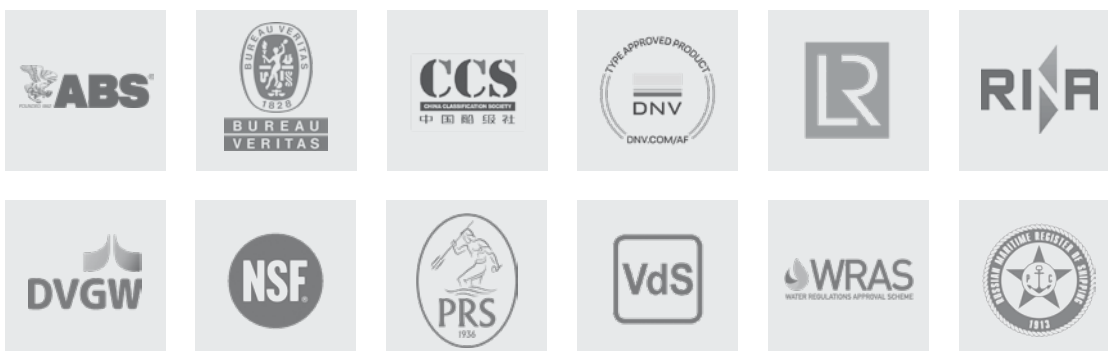
- Weld-free connection for quick & clean installation
→ 2 pipes, 2 screws, 2 minutes
- High vibration resistance and shock resistance
- Corrosion-free stainless steel design
- Flexible motion absorption for cables under thermal stress
- Covers pipe diameters from 21.3 mm to 4,200 mm
- Bridging different diameters with stepped couplings
- Minimal downtimes for maintenance & retrofits



Teekay Axiflex

Whether it's **stepped couplings, repair clamps, repair couplings, flange adapters, reducers or installation adapters or disassembly adapters** – we see pipe couplings as **problem solvers**: For old-to-new connections, large diameter differences, fast leak repairs and easy-to-maintain system layouts.

Certificates and approvals for our mounting and connection technology*:



* Depending on the product and series. Further information on request.

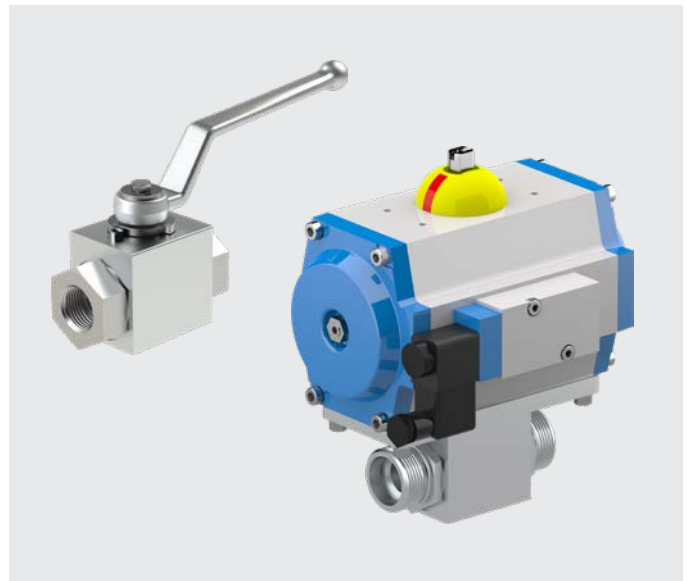
Media management

HYDAC ball valves for shutting off, diverting and distributing

HYDAC ball valves provide operators and suppliers with a robust, universal solution for securely shutting off, diverting and distributing cooling and supply lines in data centres. Whether it's in chillers and free cooling circuits in grey space or on CDUs and racks in white space: ball valves ensure clear switching states, simple maintenance processes and maximum operational reliability – in the smallest of spaces and in every pressure range.

Your advantages

- Nominal sizes from DN 04 to DN 150
- Wide range of variants: 2- or multi-way ball valves, manually switched or automated with an electric or pneumatic actuator
- Almost all connections are available
- Ball valve block solutions with integrated valve functions for efficient installation and optimal safety
- Optional safety functions, such as a detent, locking device or end position monitoring
- High-quality materials and custom sealing systems for challenging media
- CETOP sandwich plates for easy maintenance of hydraulic systems
- Custom solutions for specific requirements in data centres



Fluid level gauges for monitoring your fill levels

To ensure maximum availability of cooling and energy systems in data centres, the HYDAC FSA **fluid level gauges** and FSK **fluid level sensors** ensure precise, robust and immediately integratable monitoring of all relevant media – from water/glycol in water chiller units to cooling circuits in high density racks. With wide temperature ranges, high media compatibility and optional LoRa transmission, they provide reliable control in technical rooms, server racks and distribution systems.

Your advantages

- Nominal sizes 76 to 1,000 mm
- Mounted directly on the tank or externally (for better readability)
- Break-proof, UV-resistant, media-resistant and temperature-resistant
- Materials and seals compatible with media
- 100 % leak testing before delivery
- Tried-and-tested performance with vibrations and uneven tank surfaces
- Wide selection of variants (e.g.: incl. LoRa transmission), series and frame designs
- Numerous accessories (temperature monitoring, glass protection & leakage protection, etc.)
- Custom contrast panes and frame colours



HYDAC CX valves for open-loop and closed-loop control

The HYDAC CX coaxial valves are the ideal solution when speed, precision and resistance to contamination are crucial in modern data centre cooling circuits. Thanks to their axial spool design, CX valves switch in milliseconds – reliably, with repeat accuracy and in a space-saving design. Perfect for redundancy switching, bypass functions and finely-controlled distribution in CDUs, racks and secondary circuits.

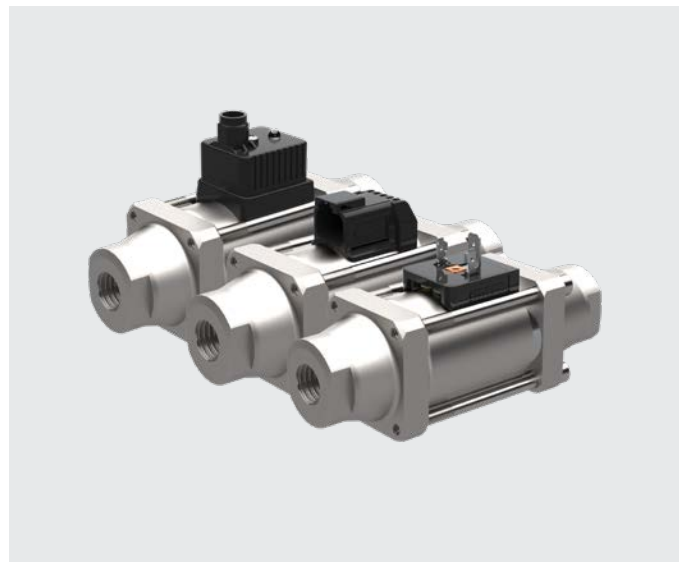
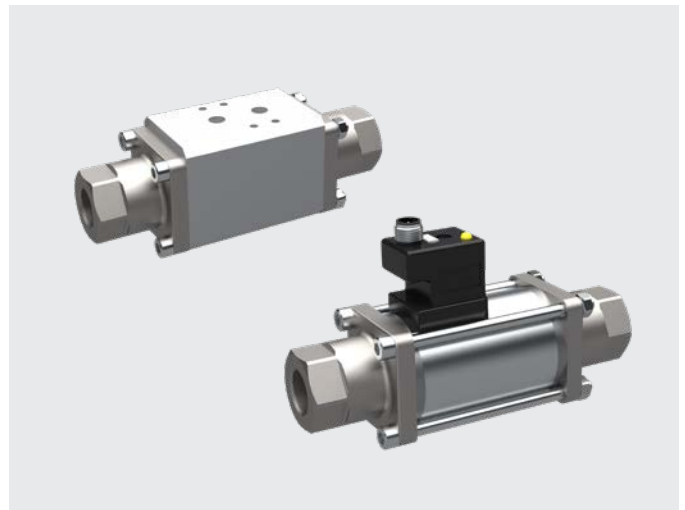
Your advantages

- Media flexibility & wide range of uses
 - Vacuum, liquid, aggressive, contaminated media
 - Abrasive media
 - Gaseous media
 - Viscous & highly viscous media
- High pressures, high flow rates and high temperatures
- Precise control of your media
- Bi-directional operation
- High flow rates with low pressure loss
- Back pressure-tight: there is no need for additional valves, such as check valves
- Fast actuation
- Resistant to contamination
- Flexible use in small installation spaces thanks to compact size
- High switching reliability for high production reliability
- Long service life due to a high switching cycle rate and low maintenance costs

Certificates and approvals for our ball valves and coaxial valves*:



*Depending on the product and series. Further information on request.



Contact us today

Each and every day, we work on product innovations for you, your company and your success with renewed momentum. We look forward to your project!

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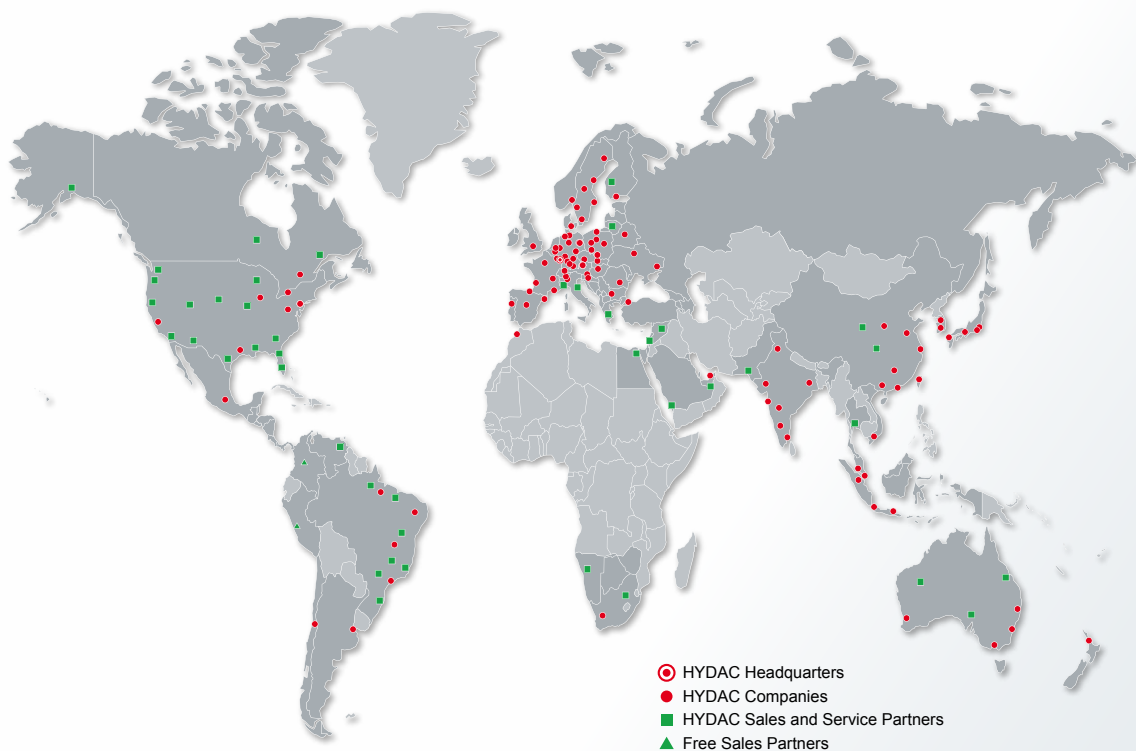
Internet: www.hydac.com

HYDAC is your development partner

With over 60 years of expertise in fluid technology, hydraulics and electronics and impressive innovative strength, we are dedicated 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 wide 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.



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.