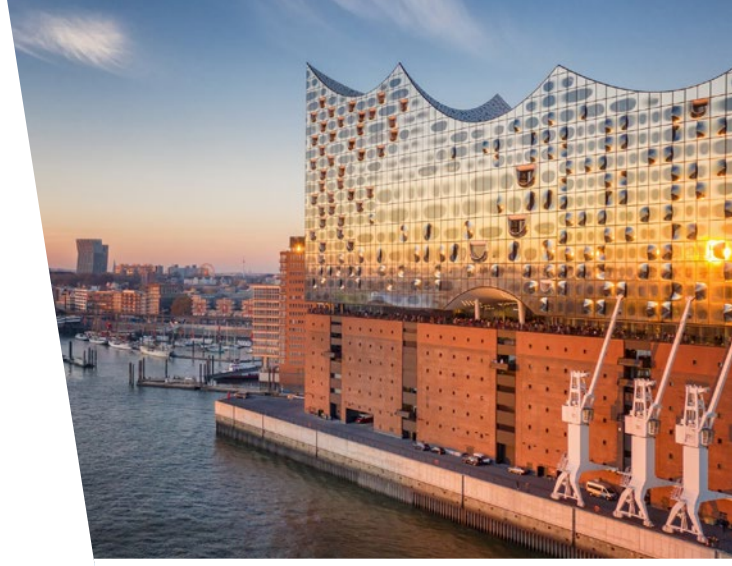


HORA

**Building Technology
and Industry**
Products





HORA

Partner for Performance

HORA is a leading manufacturer of control technology, offering premium solutions across a range of industries. With a clear focus on safety, efficiency and reliability, we design valves and actuators that meet the highest standards. Our products are characterised by their quality and durability and are used in demanding

applications worldwide. We deploy innovative technologies to address the evolving needs of industry and to improve our customers' operational efficiency, providing the right solution for every requirement. Beyond product development, we prioritise sustainable, environmentally responsible production and sound

corporate governance. As a global company, we are committed to high ethical standards and social responsibility. Built on a professional, collaborative corporate culture, we provide dependable service and close cooperation. This is how we ensure the quality of our solutions and become your Partner for Performance.



Your First Choice for Sophisticated Control Technology

Sales & Support

We maintain a close grip on the market

The gateway to our customers lies with our sales experts, who cultivate long-standing partnerships and swiftly become part of your team. By addressing your specific requirements, they ensure you extract every ounce of performance from your installations, place complete trust in our reliable solutions and experience control technology with outstanding energy efficiency – enabling both economic and environmentally conscious operation.



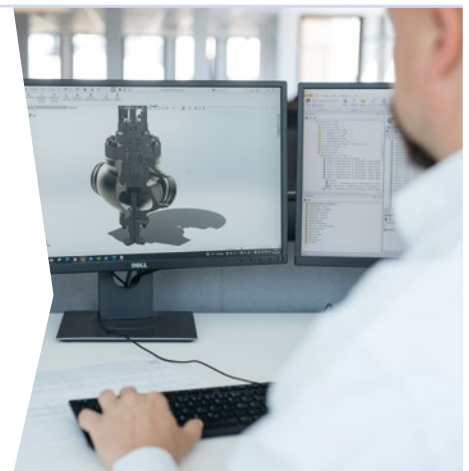
**QUESTIONS ABOUT OUR PRODUCTS?
PLEASE CONTACT OUR SALES TEAM:**

☎ +49 (0) 5207 89 03-0 oder ✉ anfragen@hora.de

Design und Technology

We operate sustainably and cost-efficiently

Our valves are renowned for their reliability and cost-effective performance. To deliver durable, low-cost solutions, we employ modern manufacturing techniques and advanced engineering tools to optimise valve geometry, calculate flow dynamics using CFD, and minimise housing stresses through FEA.



Manufacturing & Assembly

Process optimisation for greater efficiency

Higher productivity, shorter lead times, lower costs and maximum precision – by continuously refining our manufacturing and assembly processes, we achieve measurable efficiency gains. With an intelligent Kanban system, streamlined assembly lines and meticulous testing procedures, we process your orders quickly, reliably and to consistently high standards. The result: fast delivery, smooth commissioning, and the highest product quality.



Testing & Quality Assurance

Your reliable partner for maximum operational safety

It all starts with the right raw materials – the foundation for the quality of our products. To ensure dependable control valves tailored to your requirements, we source exclusively from qualified suppliers. From incoming goods inspection to final shipment, every stage is carefully monitored to guarantee trouble-free, efficient performance. With modern manufacturing technologies, high-precision measurement equipment and tightly controlled processes, we deliver exact solutions designed to meet your specific needs.



Service

Comprehensive support – whenever you need it

Our commitment doesn't end with delivery. From the outset, serviceability is built into our product development process, and we support the entire lifecycle of our control valves. All spare parts carry the original HORA label and remain available throughout the full-service life of your equipment. Efficient logistics and warehousing ensure availability within just a few hours. Our dedicated service team is on hand around the clock. Contact us at: service@hora.de.



Our Employees

We are HORA

At HORA, every employee has the opportunity to develop their individual skills and talents. We actively encourage creative thinking and initiative – because progress starts with good ideas. Thanks to flat hierarchies, innovative suggestions are not only heard but quickly put into action. Our company culture fosters a relaxed, collaborative atmosphere built on openness and mutual respect. Together, we shape the future – with creativity, innovation and success.





Building Technology

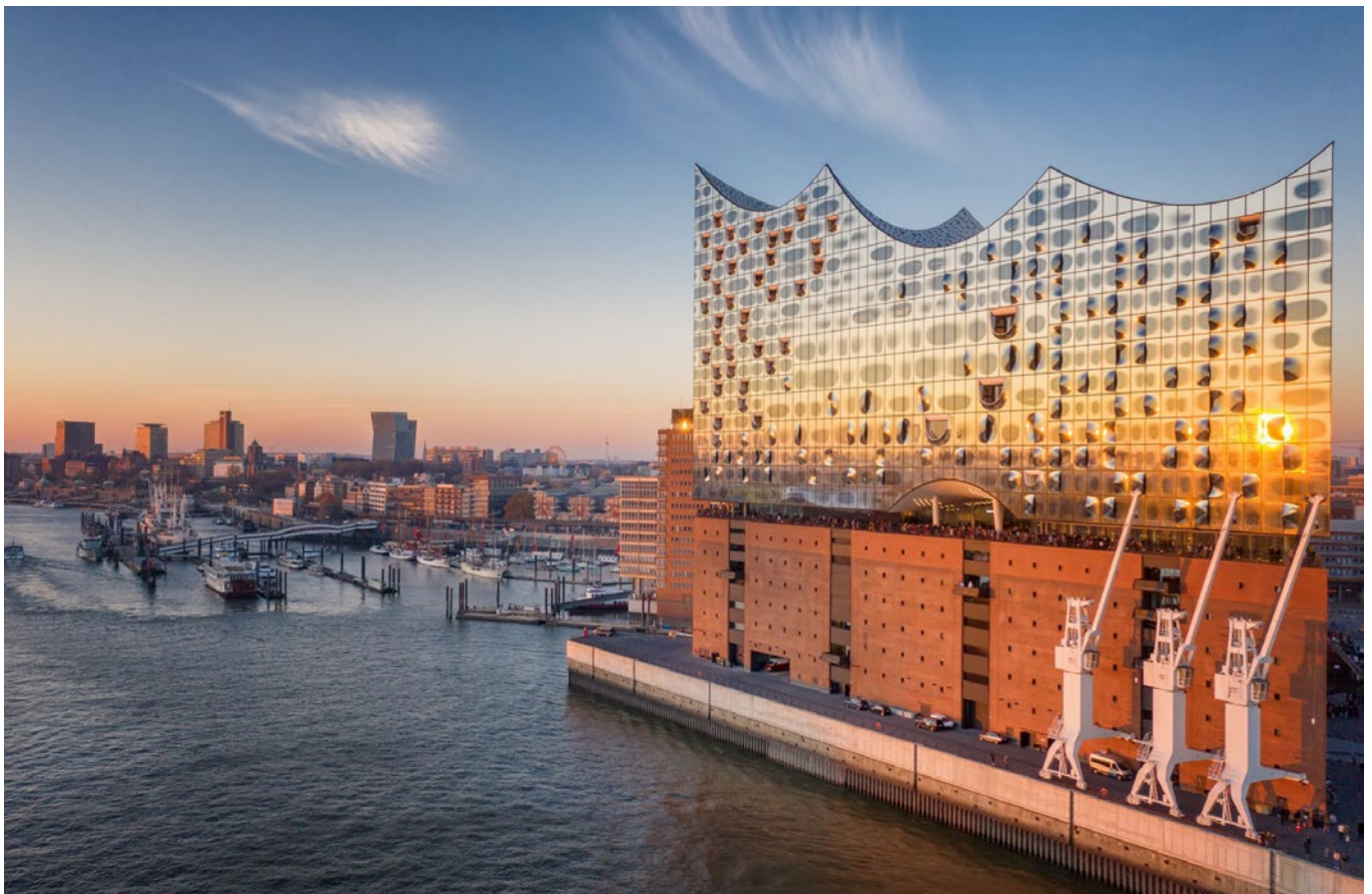
Heating, Ventilation and Air Conditioning (HVAC)

Reliable control valves for modern heating, ventilation and air conditioning systems

A comfortable indoor climate is essential for wellbeing, health and energy efficiency – whether in office buildings, hotels, hospitals or other

public facilities. Our valves play a key role in high-performance HVAC systems, ensuring precise control of heating and cooling circuits as well as airflow management. HORA control valves stand out for their high control accuracy, fast response

times and long service life. By integrating our valve technology into your system, you not only reduce energy consumption and operating costs, but also improve overall performance and enhance system reliability.



Industry

Industrial Heating and Cooling (IHC)

Precision control valves for reliable and energy-efficient thermal processes

Efficient heating and cooling systems are a key component of modern industrial facilities. They ensure stable process conditions, contribute significantly to energy savings, and support operational reliability.

Our control valves are engineered specifically for industrial heating and cooling applications – delivering precise control, long-term reliability, and resource-efficient performance. Designed for durability and low maintenance, they help optimise system efficiency across a wide range

of industrial environments.

By choosing HORA valve technology, you lay the groundwork for future-proof, energy-efficient thermal systems – reducing operating costs and meeting the growing demands of sustainable energy management.



DISCOVER MORE INDUSTRY SOLUTIONS FROM HORA.

🌐 hora.de/de/unternehmen/branchen



Control Valves in Bronze

with threaded connection



Technical Data

| | |
|-----------------------------|---|
| Nominal size | DN 15 - DN 50 |
| Pressure rating | PN 16 |
| Connection type | External thread in accordance to ISO 228/1 |
| Leakage class | EN 1349 – seat leakage VI G 1 (tight sealing) |
| Application range | HVAC systems using water from 0 to +150 °C With stem heater, suitable for media temperatures down to -15 °C For temperatures above 130 °C, installation must be in a horizontal position |
| Body | Bronze CC499K |
| Plug / Stem | Brass CW614N / Cr-Stahl 1.4021 |
| Stem sealing | O-rings made of EPDM |
| Actuators | Microprocessor-controlled, Actuating force: 0.6 – 1.6 kN Power supply: 24 V AC or 230 V AC, 50–60 Hz Input signal: Y 0–10 V DC Optional input signals: Y 2–10 V DC / 0(4)–20 mA or 3-point (3-P) Output signal: X 0–10 V DC |
| Features and options | <ul style="list-style-type: none"> ▪ Pipe connection set ▪ Plug made of CrNi steel 1.4305 ▪ Stem heater ▪ FKM Sealing ▪ Silicone free version ▪ Special power supply options ▪ Increased enclosure protection ▪ Additional / differential output signal |

Control Valves in Cast Iron

with flange connection



Technical Data

| | |
|-----------------------------|---|
| Nominal size | DN 15 - DN 200 |
| Pressure rating | PN 6, PN 16 |
| Connection type | Flanges in accordance with EN 1092-2 Type 21 |
| Leakage class | EN 1349 – seat leakage VI G 1 (tight sealing) DN 200: IV L 1 |
| Application range | HVAC systems using water from 0 to +150 °C With stem heater, suitable for media temperatures down to -10 °C For temperatures above 130 °C, valves must be installed in a horizontal position |
| Body | Cast iron GG-25 EN-JL1040 |
| Plug / Stem | Brass CW614N / Cr steel 1.4021 |
| Stem sealing | EPDM O-rings |
| Actuators | Microprocessor-controlled, Actuating force: 1 – 10 kN Power supply: 24 V AC or 230 V AC, 50–60 Hz Input signal: Y 0–10 V DC Optional input signals: Y 2–10 V DC / 0(4)–20 mA or 3-point (3-P) Output signal: X 0–10 V DC |
| Features and options | <ul style="list-style-type: none"> ▪ Plug made of CrNi steel 1.4305 ▪ Stem heater ▪ Special varnish ▪ FKM Sealing ▪ Silicone-free version ▪ Special power supply options ▪ Increased enclosure protection ▪ Additional / differential output signal |

Butterfly Valves

Wafer Type



Technical Data

| | |
|-----------------------------|---|
| Nominal size | DN 25 - DN 400 |
| Pressure rating | PN 6 - PN 16 |
| Connection type | Wafer type PN 6 - 16 |
| Leakage class | EN 1349 – seat leakage VI G 1 (tight sealing) |
| Application range | HVAC, sanitary and raw water applications Suitable as a shut-off valve for water from -10 °C to +110 °C |
| Body | Cast iron GG-25 / EN-JL1040 with polyester-powder coating |
| Seat ring | EPDM |
| Flap / Disc | DN 25 – DN 40: Stainless steel 1.4408 DN 50 – DN 400: SG iron GGG-40 / EN-JS1030 with nylon coating |
| Actuators | Electric actuator, nominal torque up to 80 Nm Electric actuator, nominal torque up to 735 Nm Power supply: 24 V AC or 230 V AC, 50–60 Hz Input signal: 3-point (3-P) |
| Features and options | <ul style="list-style-type: none"> ▪ Special voltages ▪ Increased enclosure protection ▪ Position switch unit ▪ Potentiometer |

IF YOU HAVE ANY QUESTIONS ABOUT OUR CONTROL VALVES FOR BUILDING TECHNOLOGY, WE'LL BE HAPPY TO ASSIST YOU.

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Control Valves made of Cast Iron

with Electric or Pneumatic Actuator



Technical Data

| | |
|----------------------------|--|
| Nominal size | DN 125 - DN 300 |
| Pressure rating | PN 16 |
| Connection type | Flanges according to EN 1092-2 Type 21 |
| Leakage class | EN 1349 - seat leakage IV L1 ($\leq 0.01\%$ of nominal flow rate) |
| Application range | Industrial plants for neutral gaseous and liquid media, 0 to +180 °C With stem heater for medium temperatures down to -10 °C With stuffing box extension or stainless steel bellows suitable for -10 °C to +300 °C |
| Body | Cast iron GG-25 / EN-JL1040 |
| Plug / Stem | CrNi steel 1.4057 / CrMo steel 1.4122 |
| Stem sealing | EPDM, max. 180°C Alternative stem sealing up to 300°C (see valve equipment) |
| Electric actuators | Actuating thrust up to 25 kN Power supply: 24 V AC or 230 V AC, 50–60 Hz Input signal: Y 0–10 V DC Alternative input signals: Y 2–10 V DC / 0(4)–20 mA or 3-point (3-P) Output signal: X 0–10 V DC |
| Pneumatic actuators | Actuating thrust up to 32 kN Air connections PA-N160 and PA-N300: NPT ¼" Air connections PA-N540: NPT ½" Air connections PA-N1080 and PA-N2160: NPT ¾" Function: Without air supply, actuator stem extended; reversible Maximum operating pressure: 6 bar |

Control Valves made of SG Iron

with Electric or Pneumatic Actuator

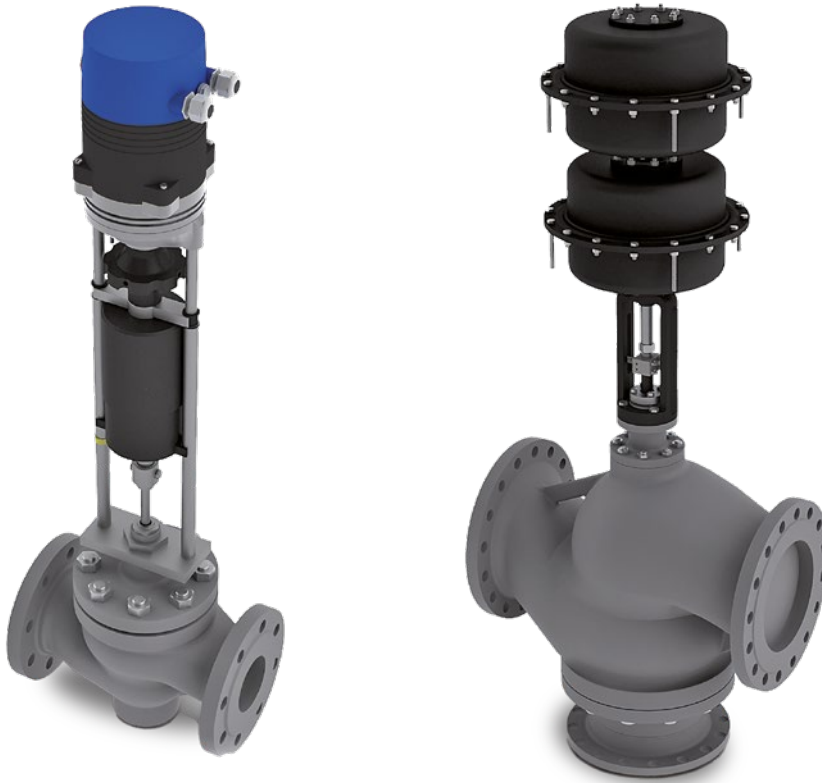


Technical Data

| | |
|----------------------------|--|
| Nominal size | DN 15 - DN 200 |
| Pressure rating | PN 16, PN 25, PN 40 |
| Connection type | Flanges according to EN 1092-2 Type 21 |
| Leakage class | EN 1349 - seat leakage IV L1 ($\leq 0.01\%$ of nominal flow rate) |
| Application range | Industrial plants for neutral gaseous and liquid media, 0 to +180 °C With stem heater for medium temperatures down to -10 °C With stuffing box extension or stainless steel bellows suitable for -10 °C to +350 °C |
| Body | SG iron (spheroidal graphite) GGG-40.3 / EN-JS1024 |
| Plug / Stem | CrNi steel 1.4057 / CrMo steel 1.4122 |
| Stem sealing | EPDM, max. 180°C Alternative stem sealing available up to 350 °C (see valve equipment) |
| Electric actuators | Actuating thrust up to 25 kN Actuating thrust with fail-safe function up to 2.5 kN Power supply: 24 V AC or 230 V AC, 50–60 Hz Input signal: Y 0–10 V DC Alternative input signals: Y 2–10 V DC / 0(4)–20 mA or 3-point (3-P) Output signal: X 0–10 V DC |
| Pneumatic actuators | Actuating thrust up to 32 kN Air connections PA-N160 and PA-N300: NPT 1/4" Air connections PA-N540: NPT 1/2" Air connections PA-N1080 and PA-N2160: NPT 3/4" Function: Without air supply, actuator stem extended; reversible Maximum operating pressure: 6 bar |

Control Valves made of Cast Steel

with Electric or Pneumatic Actuators



Technical Data

| | |
|----------------------------|--|
| Nominal size | DN 15 - DN 300 |
| Pressure rating | PN 16, PN 25, PN 40 |
| Connection type | Flanges according to EN 1092-1 Type 21 |
| Leakage class | EN 1349 - seat leakage IV L1 ($\leq 0.01\%$ of nominal flow rate) |
| Application range | Industrial plants for neutral gaseous and liquid media, 0 to +180 °C With stem heater for medium temperatures down to -30 °C With stuffing box extension or stainless-steel bellows suitable for -30 °C to +400 °C |
| Body | Cast steel GS-C25N 1.0619+N |
| Plug / Stem | CrNi steel 1.4057 / CrMo steel 1.4122 |
| Stem sealing | EPDM, max. 180 °C Alternative stem sealing available up to 400 °C (see valve equipment) |
| Electric actuators | Actuating thrust up to 25 kN Actuating thrust with fail-safe function up to 2.5 kN Power supply: 24 V AC or 230 V AC, 50–60 Hz Input signal: Y 0–10 V DC Alternative input signals: Y 2–10 V DC / 0(4)–20 mA or 3-point (3-P) Output signal: X 0–10 V DC |
| Pneumatic actuators | Actuating thrust up to 32 kN Air connections PA-N160 and PA-N300: NPT 1/4" Air connections PA-N540: NPT 1/2" Air connections PA-N1080 and PA-N2160: NPT 3/4" Function: Without air supply, actuator stem extended; reversible Maximum operating pressure: 6 bar |

Control Valves made of Stainless Steel

with Electric or Pneumatic Actuator



Technical Data

| | |
|----------------------------|--|
| Nominal size | DN 15 - DN 300 |
| Pressure rating | PN 16, PN 25, PN 40 |
| Connection type | Flanges according to EN 1092-1 Type 21 |
| Leakage class | EN 1349 - seat leakage IV L1 ($\leq 0.01\%$ of nominal flow rate) |
| Application range | Industrial plants for neutral gaseous and liquid media, 0 to +180 °C With stem heater for medium temperatures down to -30 °C With stuffing box extension or stainless-steel bellows suitable for -30 °C to +400 °C |
| Body | Stainless steel 1.4408 |
| Plug / Stem | CrNi steel 1.4057 / CrNi steel 1.4122 |
| Stem sealing | EPDM, max. 180°C Alternative stem sealing available up to 400 °C (see valve equipment) |
| Electric actuators | Actuating thrust up to 25 kN Power supply: 24 V AC or 230 V AC, 50–60 Hz Input signal: Y 0–10 V DC Alternative input signals: Y 2–10 V DC / 0(4)–20 mA or 3-point (3-P) Output signal: X 0–10 V DC |
| Pneumatic actuators | Actuating thrust up to 32 kN Air connections PA-N160 and PA-N300: NPT ¼" Air connections PA-N540: NPT ½" Air connections PA-N1080 and PA-N2160: NPT ¾" Function: Without air supply, actuator stem extended; reversible Maximum operating pressure: 6 bar |

**IF YOU HAVE ANY QUESTIONS ABOUT OUR INDUSTRIAL CONTROL VALVES,
PLEASE DON'T HESITATE TO GET IN TOUCH.**

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Electric Linear Actuators



Technical Data

| | |
|-------------------------------|---|
| Actuating thrust: | From 0.6 kN up to 25 kN (safety function: 1.0 kN, 2.5 kN) |
| Type: | Linear actuator with modern microprocessor control; variably adjustable for universal use, with automatic self-calibration on start-up |
| Stroke indicator: | Mechanical position indicator |
| Manual adjustment: | Manual override with feedback signal: manual operation interrupts the power supply |
| Protective insulation: | Enhanced insulation class: 230 V AC versions do not require a protective earth conductor |
| Measuring system | Wear-free Hall-effect sensor with load-dependent cut-off at the end positions |
| Electrical connection | Power supply 24 V AC or 230 V AC, 50–60 Hz, with terminal connections |
| Input Signal | Y 0(2)–10 V DC, 0(4)–20 mA or 3-point (3-P) control. |
| Output signal | X 0–10 V DC |
| Fail-safe operation | On loss of supply the actuator stem extends |
| Features and options | <ul style="list-style-type: none"> ▪ Special voltages ▪ Position switch unit ▪ Increased enclosure protection ▪ Alternative output signal: Y 0(4)–20 mA Retrofit ▪ option for existing valves ▪ Three-wire connection |

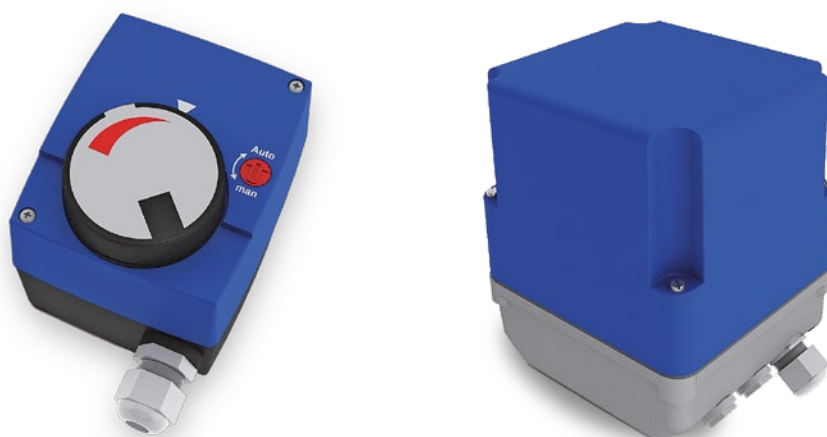
Pneumatic Linear Actuators



Technical Data

| | |
|------------------------------|---|
| Actuating thrust | Up to 32 kN |
| Application | Pneumatic actuators are used to operate control valves in industrial plants. They deliver high actuation forces and rapid response |
| Mode of operation | Return energy is provided by pressure springs acting on the diaphragm. If air supply is lost, the actuator is returned to its fail-safe position by spring force |
| Spring operating mode | Actuators can be supplied in either spring-to-extend or spring-to-retract configuration, as required |
| Technology | Rolling diaphragms, specialised rod seals and maintenance-free sliding bearings ensure maximum durability and reliable operation |
| Ambient temperature | -40 °C to +80 °C |
| Actuating thrust | up to 32 kN |
| Air connection | PA-N160 and PA-N300: NPT 1/4" PA-N540: NPT 1/2" PA-N1080 and PA-N2160: NPT 3/4" |
| Function | Actuator stem extended when no air is present; reversible operation |
| Operating pressure | Maximum 6 bar |
| ATEX certification | In accordance with Directive 94/9/EC (equipment group II, category 2G, zone ¹⁾) |
| Features and options | <ul style="list-style-type: none"> Positioner Limit switches Manual adjustment Solenoid valves |

Electric Quarter-Turn Actuators



Technical Sata

| | | |
|--|---|--|
| Nominal torque | From 6 Nm up to 80 Nm | |
| Type | Compact rotary actuators, flexible use | |
| Position indicator | Mechanical rotation display | |
| Manual adjustment | Manually, with adapter | |
| Input signal | 3-point (3-P). M106 version with 0(2)–10 V DC signal | |
| Electrical connection | 24 V AC or 230 V AC, 50–60 Hz, with terminal connections | |
| Ausstattungsmerkmale und Optionen | <ul style="list-style-type: none"> ▪ Special voltages ▪ Position switch unit ▪ Increased enclosure protection ▪ Potentiometer | |

IF YOU HAVE ANY QUESTIONS ABOUT OUR ACTUATORS, PLEASE CONTACT US.

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Our References

BURJ KHALIFA

Exceptional quality for extraordinary demands

The Burj Khalifa – the tallest building in the world and a global icon of engineering achievement. To ensure precise climate control throughout the structure, HORA valves in large nominal sizes are installed, featuring integrated pressure relief and microcontroller-based actuators. This advanced technology supports efficient, reliable operation in a setting where performance is everything.



CONTROL VALVES FOR THE SEMICONDUCTOR INDUSTRY

In semiconductor manufacturing, there is no tolerance for error. Even the slightest deviation can result in significant production losses. HORA control valves provide highly accurate regulation of temperature, gas and liquid flows. Our precision valve technology plays a critical role in maintaining process stability, ensuring product quality and enhancing operational efficiency.



GOOGLE DATA CENTRE, CHANGHUA COUNTY, TAIWAN

As data centres grow in scale and capacity, so too do the demands on efficient and dependable cooling systems. HORA control valves regulate the flow of cooling water with exceptional precision, maintaining stable operating temperatures even under peak load conditions. The result is an energy-efficient cooling process that ensures continuous and reliable performance of vital IT infrastructure.



MERCEDES-BENZ MANUFACTURING HUNGARY KFT., KECSKEMÉT

Silicone-free control valves for critical automotive applications

In automotive paint shops and electronics manufacturing, the use of silicone-free components is essential to avoid contamination. HORA control valves are available in technically silicone-free designs, ensuring the highest levels of process integrity. These specialised solutions are ideal for quality-sensitive production environments within the automotive sector.



CONTROL VALVES IN THE FAIR PARTICLE ACCELERATOR (Facility for Antiproton and Ion Research), DARMSTADT

At the international accelerator centre FAIR, precision control valves play a key role in the operation of heating, ventilation and air conditioning systems. They ensure stable environmental conditions in highly sensitive areas of this advanced research facility – providing the critical foundation for accurate scientific results and the uninterrupted operation of complex equipment.



FRANKFURT FINANCIAL DISTRICT

Control valves with fail-safe actuators in district heating networks

TÜV-certified HORA control valves with integrated fail-safe actuators offer robust protection for district heating systems. In the event of a power failure, the valves automatically move to a safe position, preventing overheating and protecting pipelines, heat exchangers and terminal units from damage – ensuring maximum operational safety at all times.



HORA IN GREENHOUSE APPLICATIONS

Optimised climate control for maximum yield

A stable and efficient climate is essential for healthy plant growth and high productivity. Whether in heating, cooling or air handling systems, HORA control valves provide precise regulation and seamless integration into your climate control system – delivering the performance and reliability needed to support modern greenhouse operations.



MORE REFERENCES CAN BE FOUND ON OUR WEBSITE.

 hora.de/de/unternehmen/referenzen





hora.de



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