



YOUR PARTNER FOR ENGINEERED FLOW CONTROL SOLUTIONS IN POWER- AND STEAM APPLICATIONS



VALVES AND
ADDED VALUES



TURN BACK THE TIME TO 1879

MORE THAN 35 YEARS OF EXPERIENCE

The history of HP Valves goes back as far as 1879 when Dijkers The Netherlands began manufacturing valves used in the era of steam-powered industrialization. Dijkers built up a strong reputation for product quality and technical know-how.

HP Valves was founded as an innovative spin-off in 1981, combining the quality and know-how of Dijkers with modern, flexible production. Right from the start, HP Valves focused on the design and production of high pressure forged steel valves and solutions.

With over 1500 projects already completed, our references with leading companies worldwide reflect our expertise and experience.

BEFORE DEMAND, BEYOND SUPPLY



As a well-known and respected supplier, HP Valves focuses on the design and manufacture of a complete range of medium and high pressure valves for power generation, oil & gas and petrochemical industries worldwide.

From the very beginning, HP Valves has taken the lead in product, service, and process improvements. We are able to offer a competitive and high-quality valve

package with all related services, such as technical consulting, project coordination, expediting, documentation, logistical services, and after-sales/onsite services.

We are convinced that by building long-term relationships with our clients and suppliers, all our partners can benefit from learning curve improvements that help our customers to realize significant cuts in both material and process costs. We look forward to working with you as one of our partners.

VALVE MANUFACTURING 4.0

HP Valves is further expanding its position in the newly-built facilities at the High Tech Systems Park in Hengelo (Ov), the Netherlands. Our move to this new

factory - built according to the Industry 4.0 principles - was completed in September 2016. Together with the investments in machinery and recruitment of additional personnel, our new factory and increased manufacturing capacity will enable our company to continue to grow as we did in recent years.

The High Tech Systems Park is an initiative of Thales Netherlands. At this innovation campus, the key issues are cooperation between high-tech companies, innovation, and providing an attractive work environment.

Using the improved logistics and efficiency, our new office and production facilities in Hengelo support the continuous improvement of our performance and strengthen our position as a leading supplier of medium and high pressure valves.



WHAT WE STAND FOR

CORE VALUES

Focus, professionalism, ambition, and cooperation constitute the core values of HP Valves bv. These values are at the centre of what we do in our continuous effort to exceed customer expectations. Combined, they represent integral elements for our organization, products, and the way we work. Even as our company has grown, we have never changed our commitment to our core values. HP Valves' core values drive the manufacturing of our high pressure valves, but just as much the way in which we serve our customers.

- FOCUS

We work hard to exceed our customers' expectations, and our clear focus allows us to adapt to our customers' changing needs and our employees to become experts in their field.

- PROFESSIONALISM

We are professional in every sense of the word. A leading, solid, reliable partner with the necessary skills and expertise, backed by over 30 years of experience.

- AMBITION

We are determined to take up the challenge, to make things happen, and be the best at what we do. We are passionate about providing the highest quality products and service for our customers.

- COOPERATION

Being a reliable partner for our customers, suppliers, and affiliates, we believe in sharing success and generating the best possible results through strong, long-term relationships.

OUR MISSION

By taking the lead in product, service, and process improvements, HP Valves responds to the changing demands of our customers and offers a complete range of complementary services, from technical consulting to full-scale logistics and site services. These developments are reflected in our mission statement:

"Building a strong international and reputable name in medium and high pressure industrial applications by developing partnerships with customers and servicing their flow control problems in the most complete, efficient, innovative, and reliable way possible at a competitive price by using our employees' expertise along with continuous improvement to provide solutions that offer high added value to our customers, stakeholders, and the environment."

By building long-term relationships with our clients and suppliers, all stakeholders can benefit from learning curve improvements that enhance our mutual competitiveness. Such partnerships enable us to gain a better understanding of your specific requirements, expectations, and needs, allowing us to continuously improve our services and product quality.

KEY MARKETS AND APPLICATIONS

POWER GENERATION

Although non-hydro renewables will grow faster than any other primary energy source, most electricity is generated by conventional gas and coal-fired power plants. Product characteristics are getting more and more demanding as these fossil-fuelled power stations continue to change technology, reduce emissions, and improve efficiency.

Continuous development and focus on product and process improvements have created a range of products that provide top reliability and good long-term value in spite of high pressure drops, vibrations, tight shutoff requirements, and corrosive environments. Our high pressure valves are used by major power producers, EPC contractors, and manufacturers of turbines, HRSGs, and utility boilers for power generation around the globe.

Our customers power the world, and it is our mission to help maintain their position as world leaders in performance and quality, from decentralized industrial applications to high efficiency combined cycle, supercritical (SC) and ultra-supercritical (USC) power plants.

OIL & GAS

In today's ever-changing landscape of oil and natural gas operations, economic efficiency and environmental protection are paramount.

Today natural gas accounts for 23 percent of the world's energy consumption and is growing all the time. Our high pressure valves can be found offshore and in the remote corners of the world, bringing this abundant, environmentally-friendly fuel into the global energy stream and regulating operations upstream, midstream, and downstream.

It goes without saying that for the world's leading oil and gas companies, uptime is also critical for these operations. To achieve this, our products provide top reliability and are designed for quick overhauls and easy maintenance.

PETROCHEMICAL

Petrochemical installations cover a wide range of applications, producing an array of products under an enormous variety of operating conditions. In addition to the safe handling of toxic products, a good corrosion resistance, reliability, and low cost are of great importance.

Continuous development and a focus on specific chemical application requirements have created a range of products that are approved by all major petrochemical companies for use in critical installations, such as crackers, furnaces, cokers and plants for LDPE, hydrogen and ethylene.

Our high-quality valves withstand even the most extreme conditions. Backed by service and support teams around the globe, we are also able to provide rapid response in the event of outages, thereby minimizing downtime and maximizing productivity.



BEFORE DEMAND...

HP Valves has defined its market by making clear choices. The result is a high level of detailed knowledge about valves, specifications, and their applications in the specific segments. Our customers benefit from our expertise in technical consulting, from the design phase to well beyond the completion of projects. Combined with the latest CAD technology, this enables HP Valves to develop completely new or customized products in very short cycles. The highest levels of quality are maintained by using respected suppliers for critical parts like forgings.

Bringing the principles of lean manufacturing to the next level, at HP Valves the cost-effectiveness of our warehousing and materials handling is increased by modern-day intralogistics. Lean-lifts offer maximum storage capacity and organization on a minimal footprint, where access times are radically reduced and material is automatically offered to the employees at the optimum ergonomic height. Microprocessor controllers are used

to communicate with our ISAH-7 data processing system for order-picking and inventory management.

Automatic guided vehicle (AGV) systems safely transport raw materials, valve parts, and complete products without human intervention between warehouse, production, assembly, and logistics: fully-automatic 24/7 transport using unmanned vehicles with maximum efficiency and traceability.

Flexible, yet highly efficient CNC machinery provides cost-effective 24/7 production with maximum consistency in product quality, all with camera surveillance to secure reliability of unmanned machining. Computerized lean-lift storage and robotized handling ensure increased capacity with maximum efficiency.

After machining, the valve bodies are transported through the single-piece flow

working processes in the plant using an overhead Power & Free conveyor system. Each valve body is produced to order, uniquely identified, and connected to a trolley driven by power chain carriers that allow a manual or automatic release from the cardan chain in the stop-and-go process areas. A floor conveyor is used to arrange transport after painting, carrying each valve to one of the gates for packing in the pre-designated box.



BEFORE DEMAND

Special processes, such as the 24/7 high temperature vacuum brazing of the solid stellite seats, increase valve service life and reliability and therefore reduce your total cost of ownership. The in-house subcontracting for vacuum brazing, welding, and non-destructive examination allows the expertise to be deployed at reduced cost, with maximum control and flexibility. Thanks to the reduced cycle and lead-times, the modular design of our products, and our extensive stocks, short delivery times can be achieved. The use of 2D-coding engraved on the valve body means your valves are traceable, from the receipt of the order through to final shipment.

Due to our project-oriented approach, your documentation is always handled properly during the preparation of customised sectional drawings, transport documents, and spare part interchangeability records. Thanks to EDI, these are instantly available.

Excellent workmanship during assembly and subsequent pressure testing on each and every unit guarantee the performance

of our valves. Guided picking of parts in our pick-to-light assembly lines increases flexibility for last-minute changes as well as productivity, accuracy, and cost efficiency. To verify compliance, all products are checked against the customer's specifications before packing.

The careful selection of materials and new developments in sherardising yokes, gland flanges, and gland bolting ensure state-of-the-art corrosion resistance for a long service life. Thanks to professional application in one of our fully-conditioned paint booths with curing chamber, various special heavy-duty coating systems will last even in the toughest environments.

Using our experience in worldwide delivery, our logistics department provides every possible service, from customised packing lists to complete handling of international shipments.

To maintain the quality of our products after installation, customers can receive training sessions and after-sales support is available worldwide.



WE PERFORM
BEST UNDER
HIGH PRESSURE

OUR CATEGORIES OF VALVES

HPV ISOLATION VALVES

HP Valves' extensive experience in power generation and the process industry, makes us aware of the challenges our customers are facing and enables us to offer both standardized and tailor made solutions. With HPV Isolation Valves we offer a complete range of high-quality forged- and cast steel valves for on-off and throttling application.

In addition HP Valves offers all related services, such as technical consulting, project coordination, expediting, documentation, inspection, comprehensive logistical services and field service.

- GATE VALVES
- GLOBE VALVES
- CHECK VALVES
- BALL VALVES
- CBD/IBD VALVES
- STRAINERS



BVT STEAM CONDITIONING VALVES

With over 30 years of experience in the most critical applications in process steam and thermal power generation bypass systems, Sjöflö based BVT Sweden has the expertise to design and optimize tailor made steam conditioning solutions including custom fit actuation.

In addition to the services offered by HP Valves, BVT Steam Conditioning Valves are offered with consulting for product optimization on pre-order basis and special design for new installations as well as retrofits and performance upgrades for systems in operation.

- BYPASS VALVES
- STEAM CONDITIONING VALVES
- ATTEMPERATORS
- DESUPERHEATERS
- FEEDWATER HEATER BYPASS SYSTEMS
- DUMP TUBES



KVT CONTROL VALVES

From its founding in 1998, Key Valve Technologies Ltd. (KVT) has focused on engineering high quality forged- and cast steel control valves for severe- and critical service applications.

With more than 20 years of experience in the power generation and the process industry KVT Control Valves have been designed for each of the typical control applications to handle flashing, cavitation and critical pressure drop conditions while considering noise and vibration.

With the KVT Control Valves, HP Valves offers consulting for product optimization on pre-order basis for new installations as well as retrofits and performance upgrades for systems in operation.

- FEEDWATER CONTROL VALVES
- CONDENSATE CONTROL VALVES
- SPRAYWATER CONTROL VALVES
- PRESSURE REDUCTION CONTROL VALVES
- CHOKE VALVES



SCOPE:

- Standards:** ASME / EN(DIN) / API
- Nominal size:** ½" - 48" (DN15-DN1200)
- Pressure class:** up to 4500lbs (PN760)
- Temperature:** up to 650°C
- Materials:** Carbon steel, Low-alloys, Stainless Steel, Nickel alloys
- Actuation:** Manual, Electric, Pneumatic, Hydraulic

QUALIFICATIONS:

- ISO 9001 / ISO 14001
- PED 2014/68/EU
- TR CU (GOST R)
- IBR
- CRN

APPLICATIONS:

- Turbines
- Boilers / HRSGS
- Balance of Plant
- Combined Heat and Power
- Desalination
- CSP-Solar (molten salt)
- Furnaces
- Crackers
- Heaters
- Cokers
- Various other petrochemical processes

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