



HABERMANN AURUM PUMPEN



VALVES

PRODUCTS OVERVIEW

ABOUT US

Habermann Aurum Pumpen GmbH company specializes in the production and supply of industrial valves. Habermann Aurum Pumpen GmbH has a long history, excellent reputation and one of the most high-tech and well-equipped facilities.

In Germany, we design and manufacture our high-quality valves, which are valued worldwide for its reliability, accuracy and ease of use.

Engineers in our company develop appropriate technologies based on their many years of experience and continuous training.

Our products are successfully used all over the world in such industries as:

- metallurgy;
- chemistry / petrochemistry;
- water supply;
- sewerage;
- mining and processing plants
- etc.

The modern level of enterprise development places high demands on the reliability of equipment, as well as its efficient and cost-effective operation. The reliability of Habermann Aurum Pumpen GmbH equipment is based on the mandatory use of the latest tools, control methods and equipment production based on an integrated approach to solving engineering issues. The result of the work of our specialists is to achieve increased operating time of equipment and eliminate possible downtime during operation.

 — RELIABLE OPERATION

 — ENGINEERING

 — ASSISTANCE IN CALCULATIONS AND SELECTION OF EQUIPMENT

 — GUARANTEE

 — DELIVERY TO THE CUSTOMER'S WAREHOUSE



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< METALLURGY

Metallurgical plants in most CIS countries are at the stage of reconstruction and transition from old technological standards to modern ones: more economical, environmentally friendly and resource-saving. Only a few Metallurgical plants carried out large-scale reconstruction of fixed assets.

We offer solutions that are applicable to any technological systems, including according to an individual customer project. Our experience will allow to apply modern solutions in any areas of the metallurgical plant.



< CHEMISTRY / PETROCHEMISTRY

Each chemical is different, and often toxic, therefore, incorrect selection of valves poses a risk to personnel, the environment and leads to additional maintenance costs.

In addition to practical experience and recommendations, Habermann Aurum Pumpen experts have in-depth knowledge in the field of application and production of pipeline valves. Having analyzed your technological needs from the point of view of chemical, thermal, mechanical, abrasive and other characteristics, our experts will advise and help you to choose high-quality accessories for long-term operation.

> WATER SUPPLY / SEWERAGE

Pipeline valves installed on the technological lines of water treatment and sewage stations have special requirements: resistance to mechanical damage, abrasive media, corrosion resistance, equipment must be reliably protected from aggressive environments, alkalis or acids.

We offer only reliable pipeline fittings, the quality of which is confirmed by decades of work in various enterprises. We find the right technical solution for each case and customer.

The range of valves supplied includes: wedge gate valves, butterfly valves, pressure regulators and other types upon request.



> MINING AND PROCESSING PLANTS

Thanks to many years of experience, as well as close cooperation both with the technical staff of the mining and processing plants, and with specialized design institutes, we are able to choose the optimal solution as part of the selection and use of modern pipeline valves for long-term and reliable operation of equipment in harsh realities of the mining industry.

MINING AND PROCESSING PLANTS use special slurry valves to shut off the flow and adjust media with a high abrasive content.

The most commonly used: slurry pinch valves, special slide gate valves, large double eccentricity butterfly valves, butterfly valves with fixed vulcanized seats.



BUTTERFLY VALVES

ROTARY BUTTERFLY VALVES

Soft seated centrifugal butterfly valves are widely used. They can be used both as isolation and as control valves. Rubber lined butterfly valves have a very wide range of applications. The main purpose of these valves are liquids and gases with temperatures up to 200 ° C.



AV01-002



AV01-004

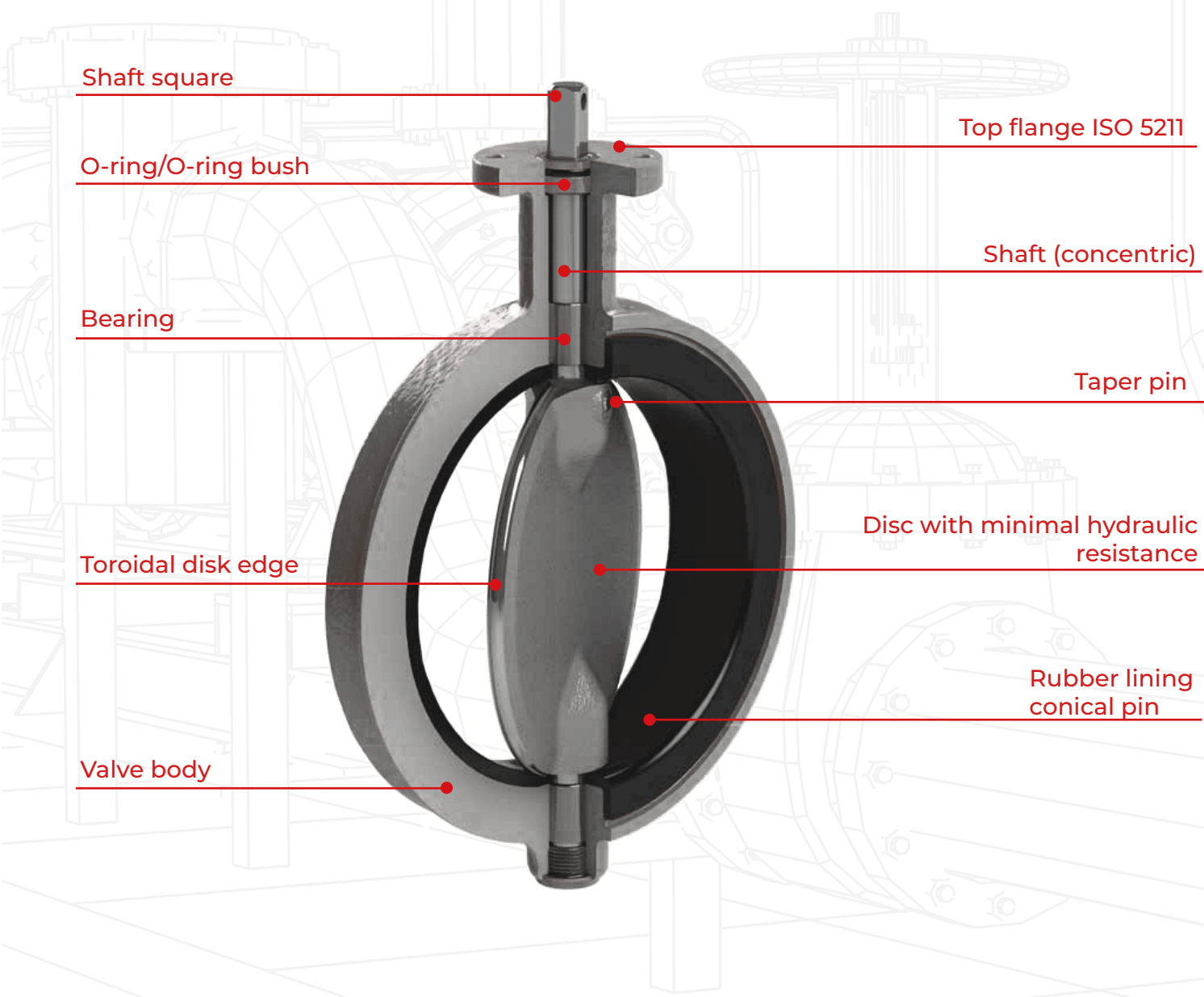


AV01-008

TYPE	Nominal diameter	Nominal pressure	Operating temperature
AV01-002	DN 50-1000	PN 6/10/16	from -20 °C to +200 °C
AV01-004	DN 50-1200	PN 6/10/16	from -20 °C to +200 °C
AV01-008	DN 50-2000	PN 6/10/16	from -20 °C to +200 °C

ADVANTAGES

- Low cost
- „One-piece” seal
- Simplicity of design
- Bilateral tightness of a class „A”
- Reliability
- Small size and weight



DOUBLE ECCENTRIC BUTTERFLY VALVES

Double eccentric butterfly valves can be used both as isolation valves and as control valves. The difference from the centric design valves is the displacement of the axis of rotation of the shaft in two planes. A useful effect of such displacement, with respect to symmetrical valve shutters, is to minimize the effect on the seals.



AV01-064



AV01-065

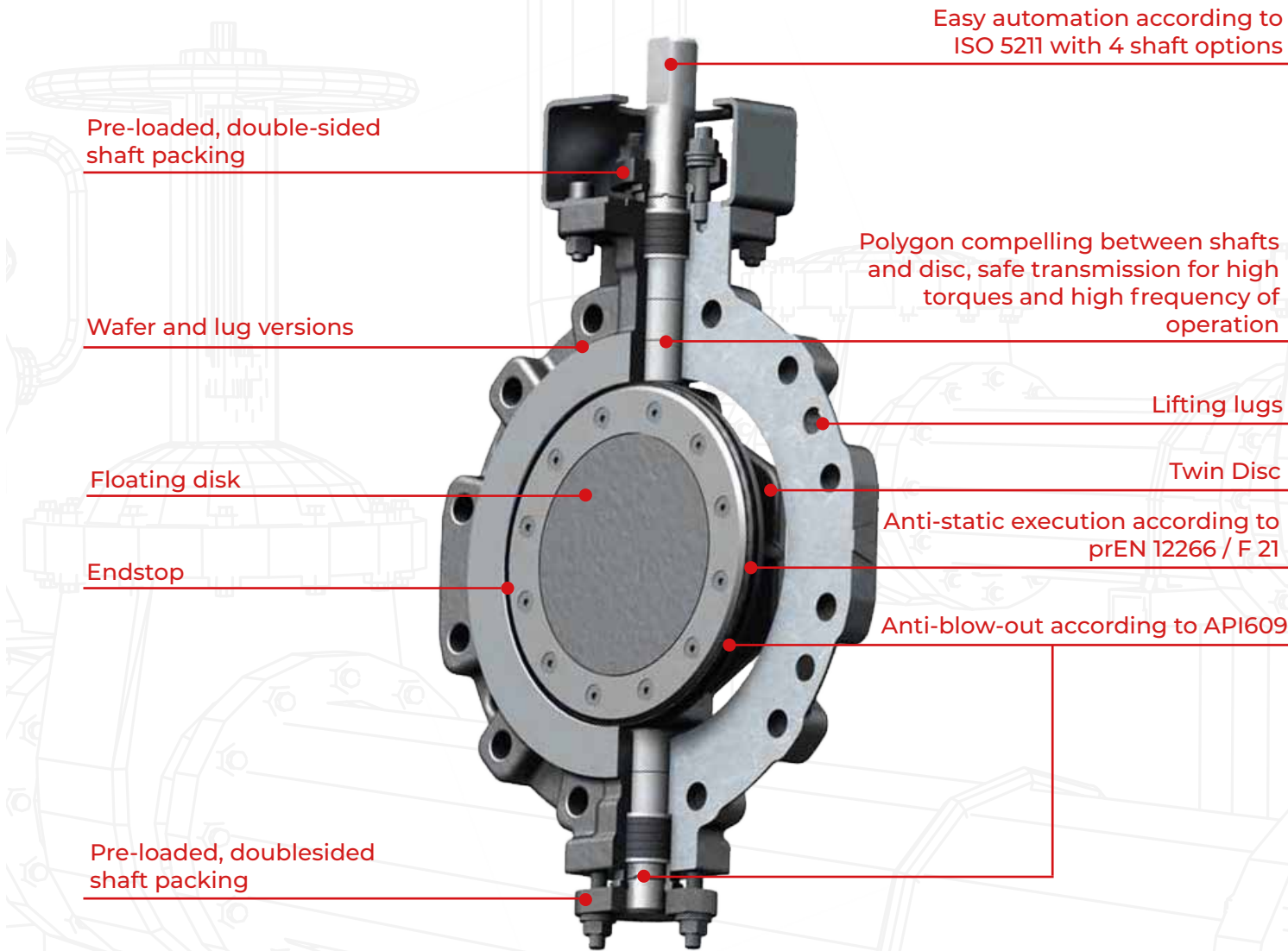


AV01-067

TYPE	Nominal diameter	Nominal pressure	Operating temperature
AV01-061	DN 100-2000	PN 10/16/25/40	t° to +250 °C
AV01-062	DN 100-3000	PN 6/10/16/25/40	t° to +250 °C
AV01-064	DN 50-900	PN 10/16	from -40 °C to +250 °C
AV01-065	DN 50-900	PN 10/16	from -20 °C to +250 °C

ADVANTAGES

- High level of kv
- Simplicity of design
- Small size and weight
- Higher operating temperature
- Great resource of work seal
- Larger nominal diameters available
- „A“ tightness class
- Large selection of sealing materials
- Possibility of using a metal seal



TRIPLE ECCENTRIC BUTTERFLY VALVES

The triple eccentric butterfly valve has the unique zero friction property between the valve and the seat with a very low torque. Effective for use in high temperature environments.

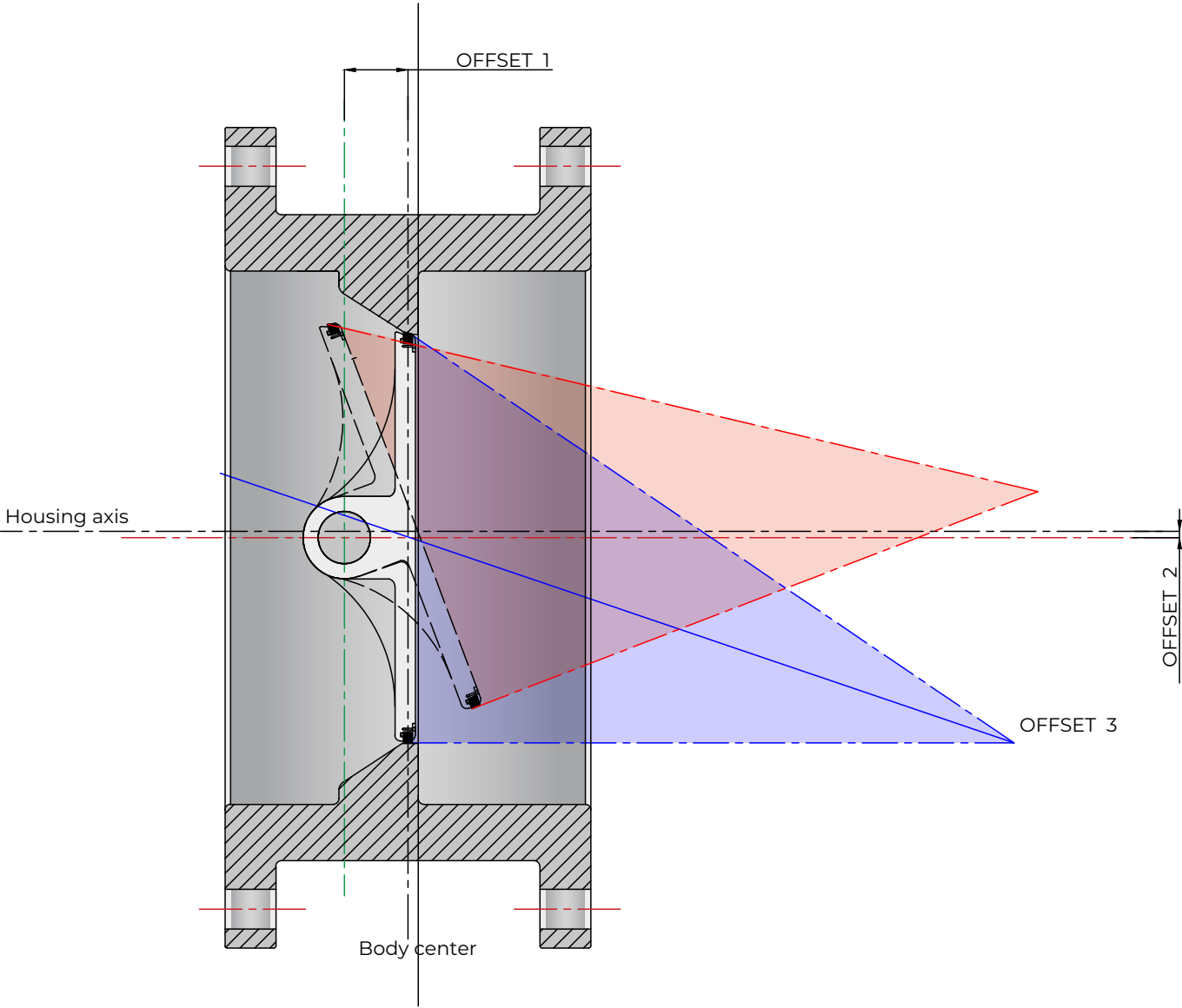


AV01-081

TYPE	Nominal diameter	Nominal pressure	Operating temperature
AV01-081	DN 200-1400	PN 10/16/25	t° +350 °C

ADVANTAGES

- High level of kv
- Simplicity of design
- Small size and weight
- Zero friction between valve and seat
- Larger nominal diameters available
- „A“ tightness class
- Metal seal



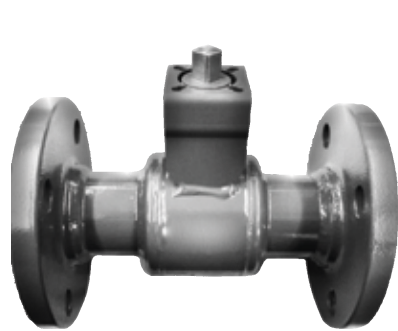
OFFSET 1
The shaft is placed behind the plane of the sealing surface to provide a continuous seat path.

OFFSET 2
The shaft is placed to one side of the pipe/valve centerline to allow the displacement of the seal from the seat during the 90° opening.

OFFSET 3
The seat and seal cone centerlines are inclined in respect to the pipe/valve centerline. This third offset completely eliminates rubbing.

BALL VALVES

Ball valves have a shutter in the form of a body of revolution, rotating around its axis perpendicular to the axis of the medium flow. They are used as shut-off valves to shut off the flow of liquids and gases.



AV02-231



AV02-163



AV02-164

TYPE	Nominal diameter	Nominal pressure	Operating temperature
AV02-231	DN 15-250	PN 16	from -20 °C to +200 °C
AV02-163	DN 15-200	PN 16/40	from -20 °C to +200 °C
AV02-241	DN 15-250	PN 10-63	from -20 °C to +280 °C

ADVANTAGES

- Very high level of Kv
- Full-bore construction
- „A“ tightness class
- Fire proof satisfies API 607
- V-Port ball with different kv values
- Anti-static design
- Knockout protection



15° V PORT



30° V PORT



60° V PORT

To be able to adjust the medium, ball valves with a special V-port cutout have been developed. This cut-out allows achieving an equal percentage regulation characteristic. Different cut angles allow to achieve both fine adjustment of small flows (15 °) and a large value of the

throughput kvs (90 °). Thanks to the soft seal of the ball valve, we can achieve the «A» tightness class.

DESIGNS

- All-welded
- Two, three-part
- Ceramic lining
- Threaded, Flanged, Welded joint

BODY

- Cast iron
- Carbon steel
- Stainless steel

SEALING

- PTFE
- Metal
- Ceramic

CHECK VALVES

Check valves are used to prevent backflow of the working medium in pipelines transporting liquid and gaseous media.

TWO-WAY CHECK VALVE



AV03-221



AV03-222



AV03-241



AV03-241

TYPE	Nominal diameter	Nominal pressure	Operating temperature
AV03-221	DN 50-600	PN 6/10/16	from -40 °C to +200 °C
AV03-222	DN 50-1200	PN 10/16/40	from -20 °C to +200 °C
AV03-241	DN 8-200	PN 40	from -20 °C to +200 °C

ADVANTAGES

- Tightness of locking mechanisms
- Durability
- Easy installation and maintenance
- Small size
- Wide functionality
- Operational safety

BODY

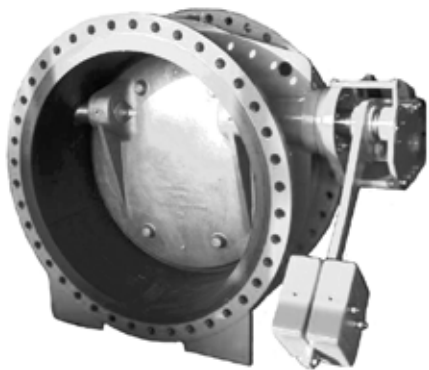
- Gray cast iron
- Cast iron with nodular graphite
- Stainless steel
- Bronze
- other materials on request

SEALING

- NBR
- EPDM
- Viton
- Metal

BUTTERFLY SWING CHECK VALVE

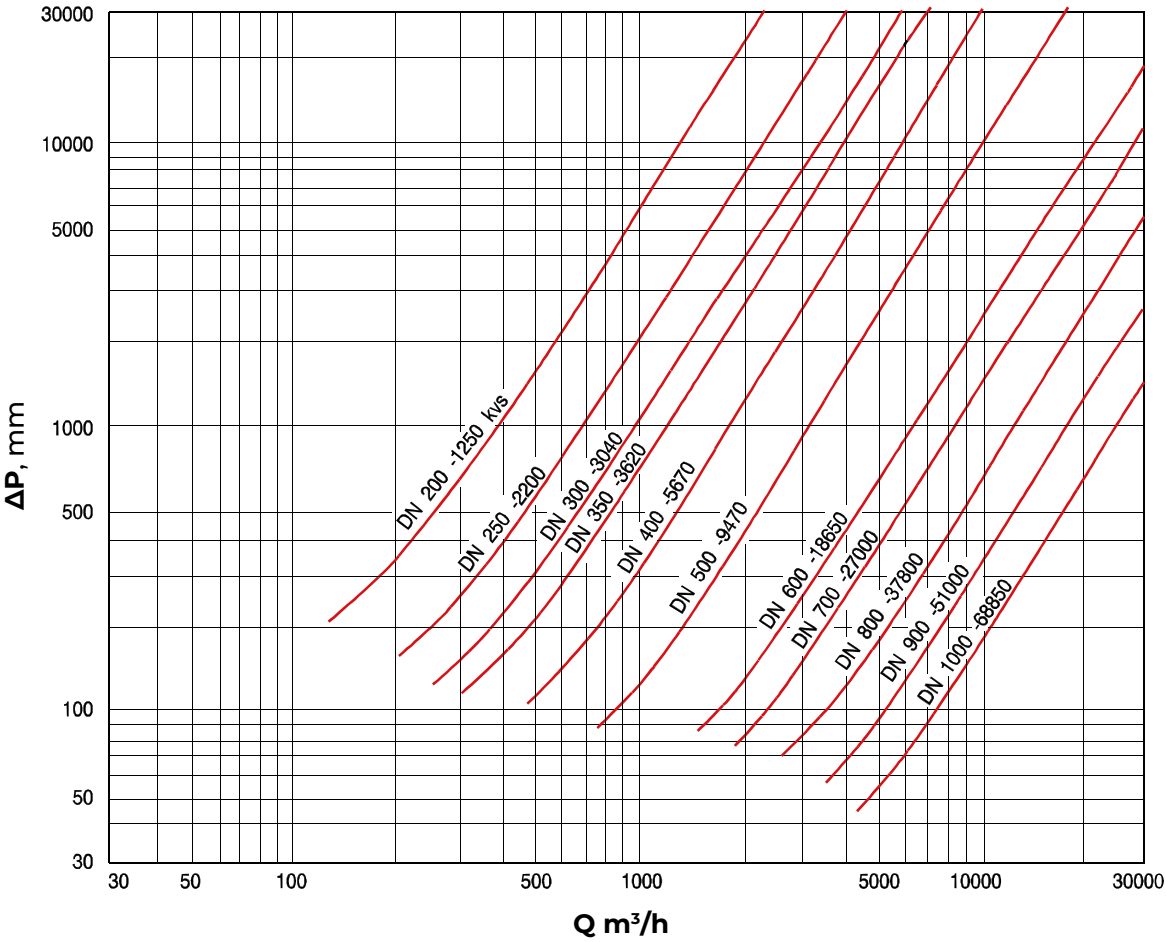
Two-eccentric design valves are used in industrial water supply systems. Liquids and gases that are not aggressive with respect to valve materials can act as a working medium here.



AV03-281

TYPE	Nominal diameter	Nominal pressure	Operating temperature
AV03-281	DN 200-1400	PN 10/16/25/40	from -20 °C to +200 °C
AV03-282	DN 150-2000	PN 10/16/25/40	to +200 °C

Diagram of flow



GATE VALVES

Designed to operate as a shut-off device in pipelines transporting various liquid and gaseous media, neutral to the materials of the main parts.

RUBBER GATE VALVE

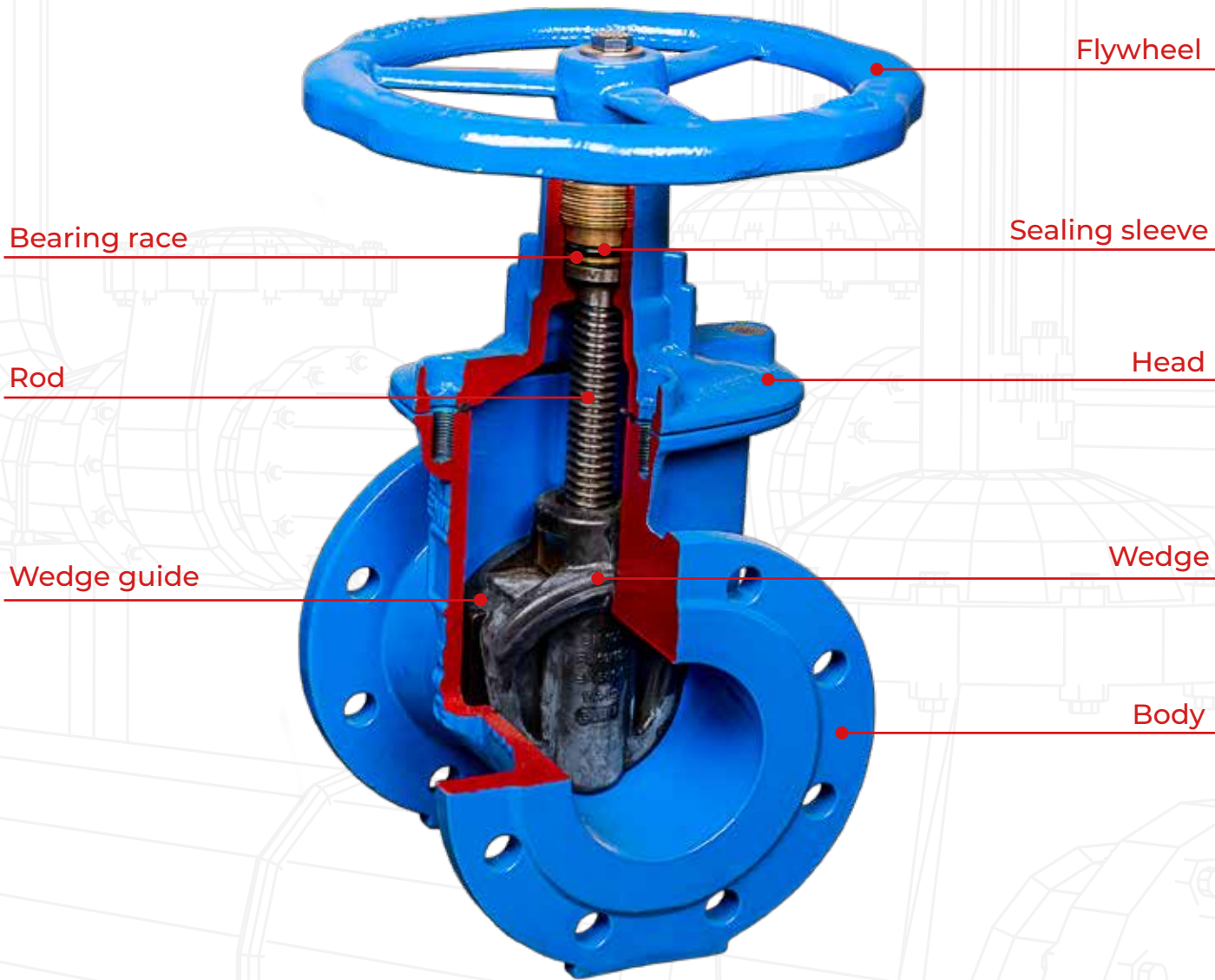


AV04-351

TYPE	Nominal diameter	Nominal pressure	Operating temperature
AV04-351	DN 50-500	PN 10/16	t° to +60 °C

ADVANTAGES

- 100% of locking
- Less pressure loss
- „A“ tightness class
- Suitable for blocking flow in both directions



GATE VALVES WITH METAL SEAL

They are used to shut off the flow of the working fluid in liquid and gas pipelines containing small abrasive particles. Resistant to medium and high pressure conditions.

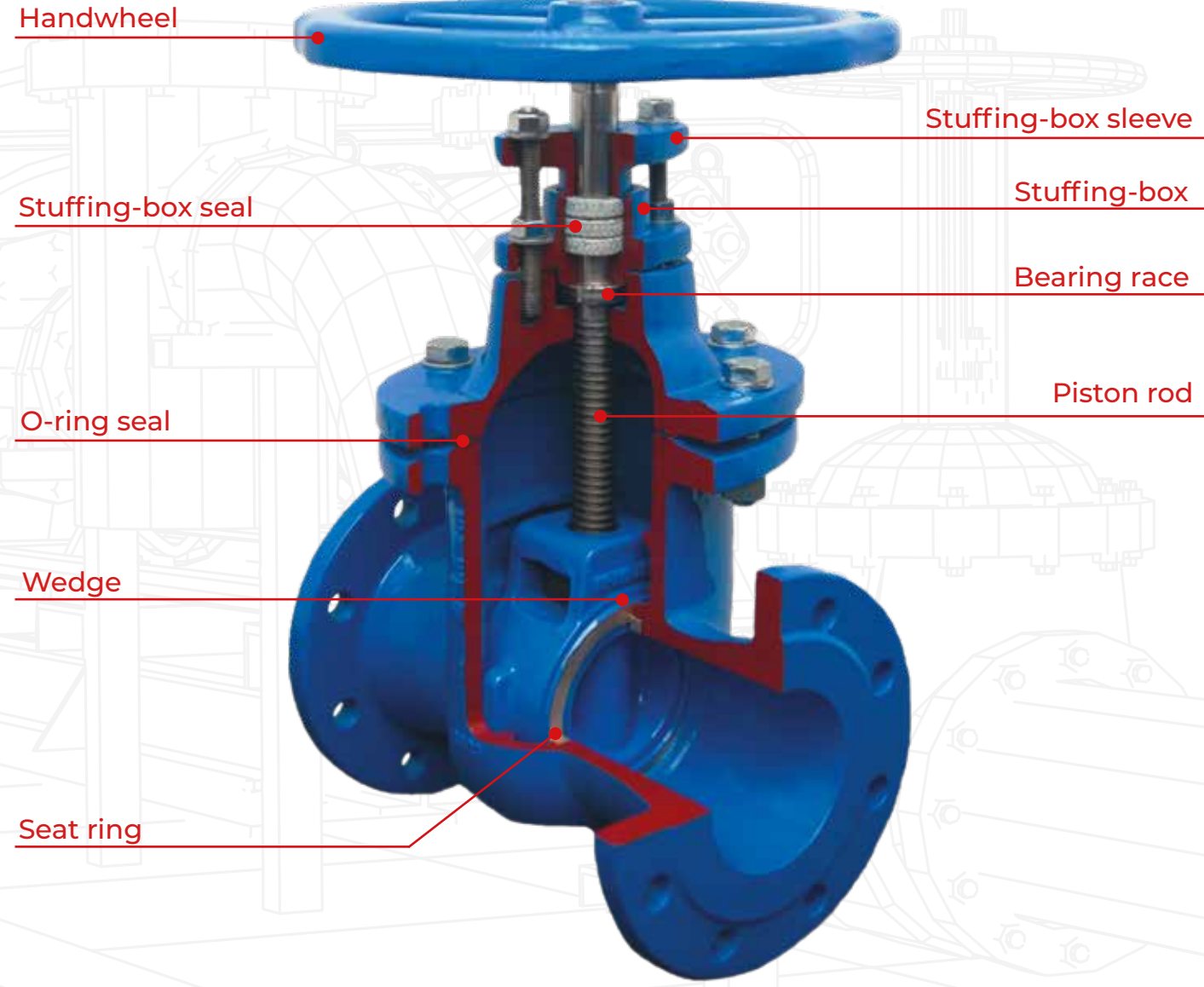


AV04-382

TYPE	Nominal diameter	Nominal pressure	Operating temperature
AV04-382	DN 50-1600	PN 10/16/25	t° to +60 °C
AV04-393	DN 15-1200	PN 10/16	from -20 °C to +200 °C

ADVANTAGES

- Low hydraulic resistance
- Large nominal bores diameter
- Less pressure loss
- Suitable for blocking flow in both directions
- „A“ tightness class



SLURRY PINCH VALVES

The pinch valve is characterized in that the pass of the valve is made in the form of a flexible hose, the pinch pipe under the action of the upper / lower strip moves towards and closes the passage section. Hose valves are designed to shut off and adjust media with high abrasiveness.

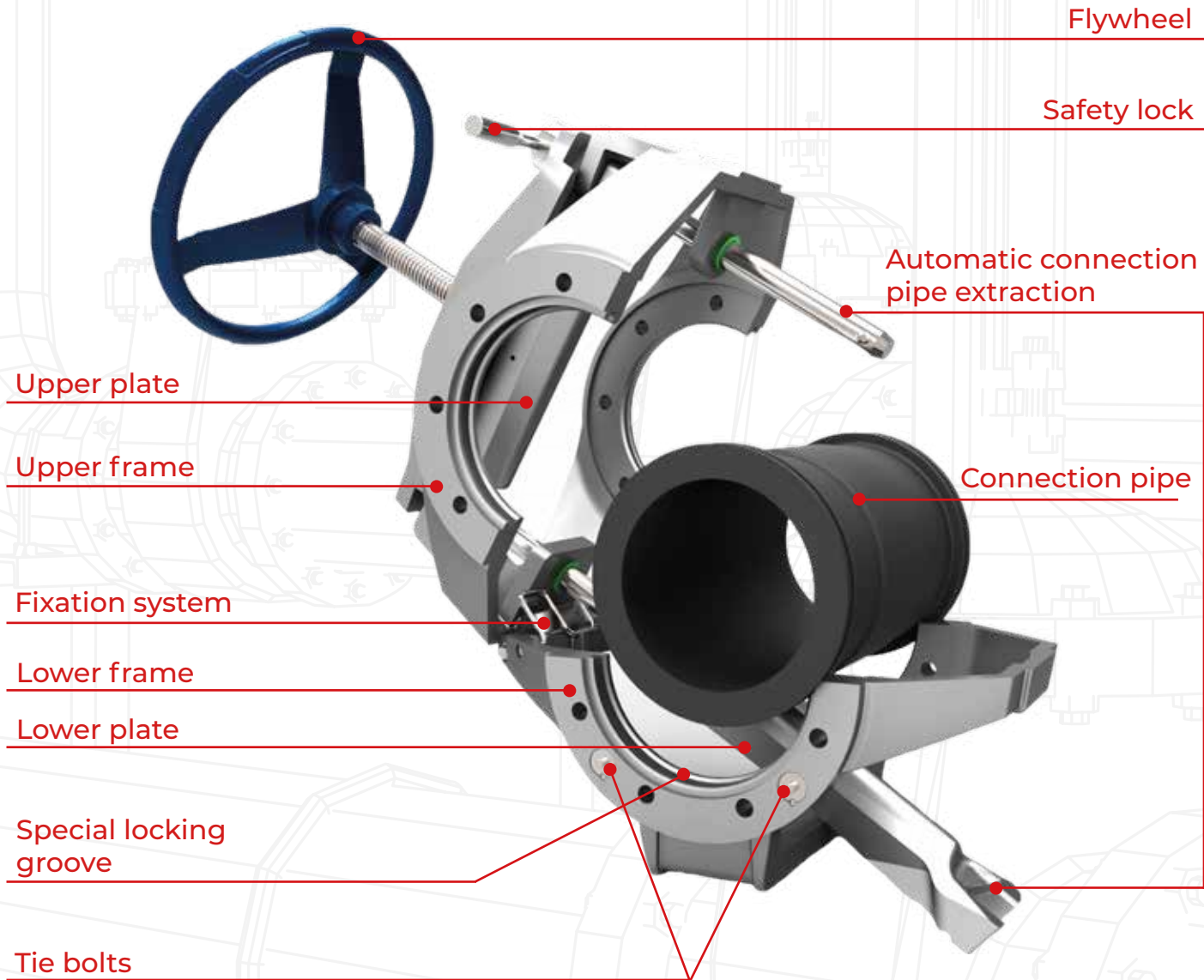


AV07-541

TYPE	Nominal diameter	Nominal pressure	Operating temperature
AV07-541	DN 80-300	PN 2/10	t° to +110 °C

ADVANTAGES

- Lightweight aluminum frame
- No need to dismantle from the pipeline
- Quick sealing ring change (up to 10 min)
- Security system (frame lock in the open position);
- Significantly reduced downtime
- All kinds of drives
- High-quality reinforced sealing rings (40,000 cycles of operation)



KNIFE GATE VALVES

Knife gate valves have a leaf-shaped shutter with a sharp edge similar to a guillotine for shutting off viscous, powdery media, pulps, sludges and sewage.



AV05-442

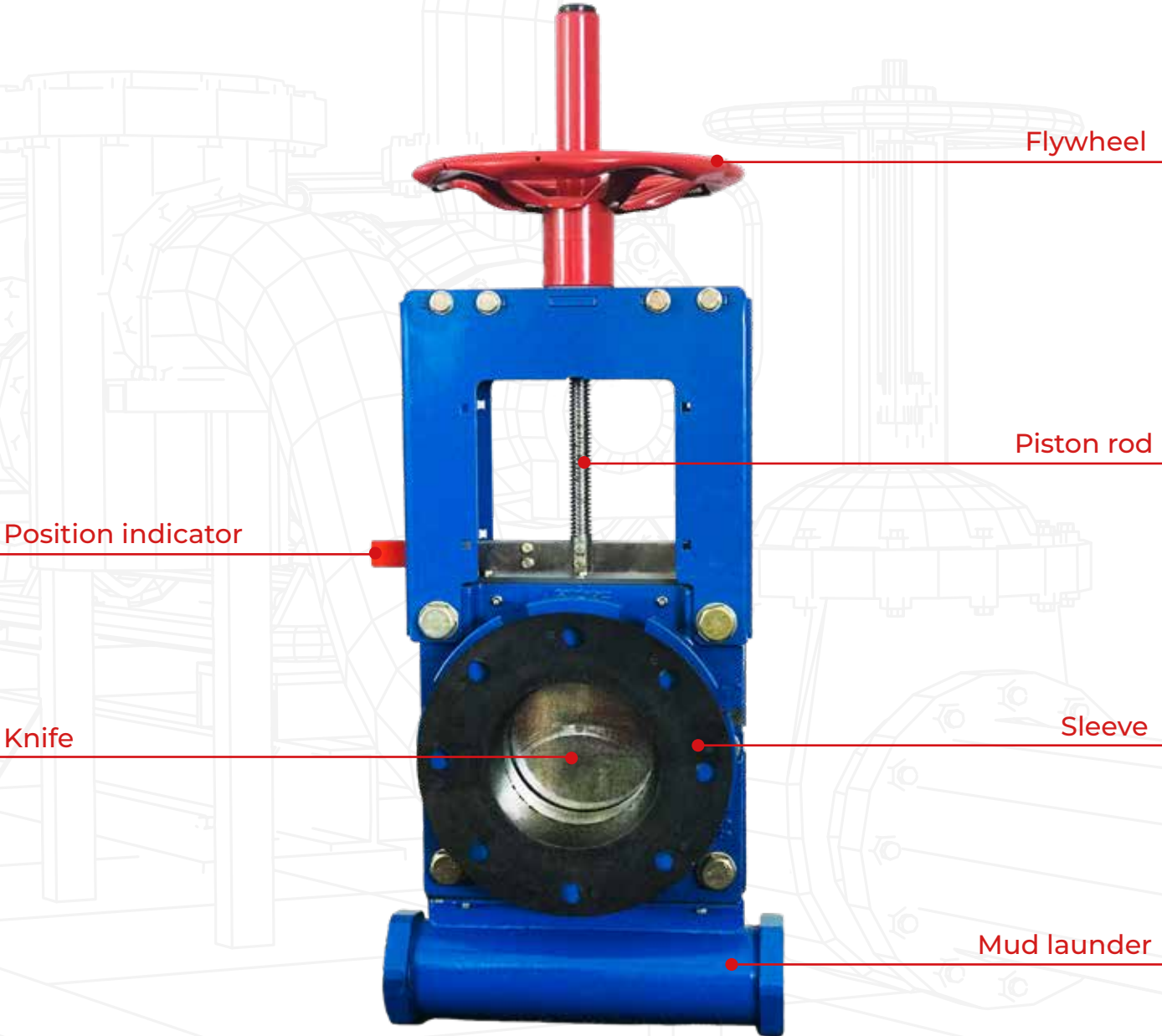


AV05-471

TYPE	Nominal diameter	Nominal pressure	Operating temperature
AV05-442	DN 50-700	PN 2/3/5/7/10/16/25	t° to +90 °C
AV05-471	DN 50-400	PN 10/12/14/16	t° to +90 °C

ADVANTAGES

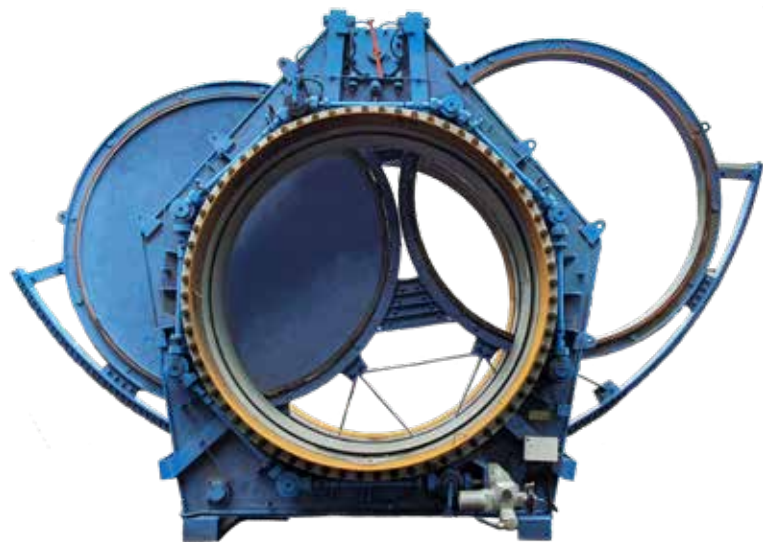
- Reliable flow shutdown
 - Modular design
 - Wide range of applications
 - Possibility of producing different sealing ring types
- Significant increase in operating time
 - All types of drives and automation



SPECIAL VALVES

VALVES FOR METALLURGICAL PRODUCTION

Haberman Aurum Pumpen GmbH can also offer a wide range of special valves for metallurgical production such as: cold, hot blast valves, CHOPT valves, sector valves of various designs (rotary, linear, open and closed TYPE), double-disk wedge gate valves, two-, three-lever valves, throttle units. Today, the maximum bore supplied by us is 3000 mm, but we can produce fittings up to DN 4000.



GOGGLE VALVE DN 3000

DOUBLE-DISK VALVE DN 1500



GROUP EXPANDING VALVE
DN 2700



HOT BLAST VALVE
DN 1100/1600

COLD BLAST VALVE DN 1200



SELF-CLEANING FILTER

An automatic backwash filter is widely used in industry and can ensure the purity and reliability of the filtered fluid. The backwash filter is completely automatically cleaned and operates continuously.



Cleaning mechanism rotation speed	Nominal diameter	Nominal pressure	Operating temperature
14-20 rpm	DN 50-800	PN 2/10	t° to +75 °C

SOLENOID-OPERATED VALVE

Designed to control the working fluid under pressure in the pipeline. Its action is to open / close the passage opening with a plunger.



Voltage	Nominal diameter	Nominal pressure	Operating temperature
AC ~ 24V, 110V, 230V DC = 12V, 24V	DN 15-50	PN 0/16	t° -10 °C to +80 °C

GLOBE VALVE

This is the most commonly used TYPE of globe valve for both continuous (analog) and discrete control of flow and pressure.



AV11-661

TYPE	Nominal diameter	Nominal pressure	Operating temperature
AV11-661	DN 50-800	PN 10/16/25/40	t° to +450 °C

DIRECT-ACTING REGULATOR

Direct-acting regulators are widely used in stabilization systems for pressure, level, temperature and other quantities.



AV15-801

TYPE	Nominal diameter	Nominal pressure	Operating temperature
AV15-801	DN 15-150	PN 16/25/40	t° -5 °C to +130 °C



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