



# 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

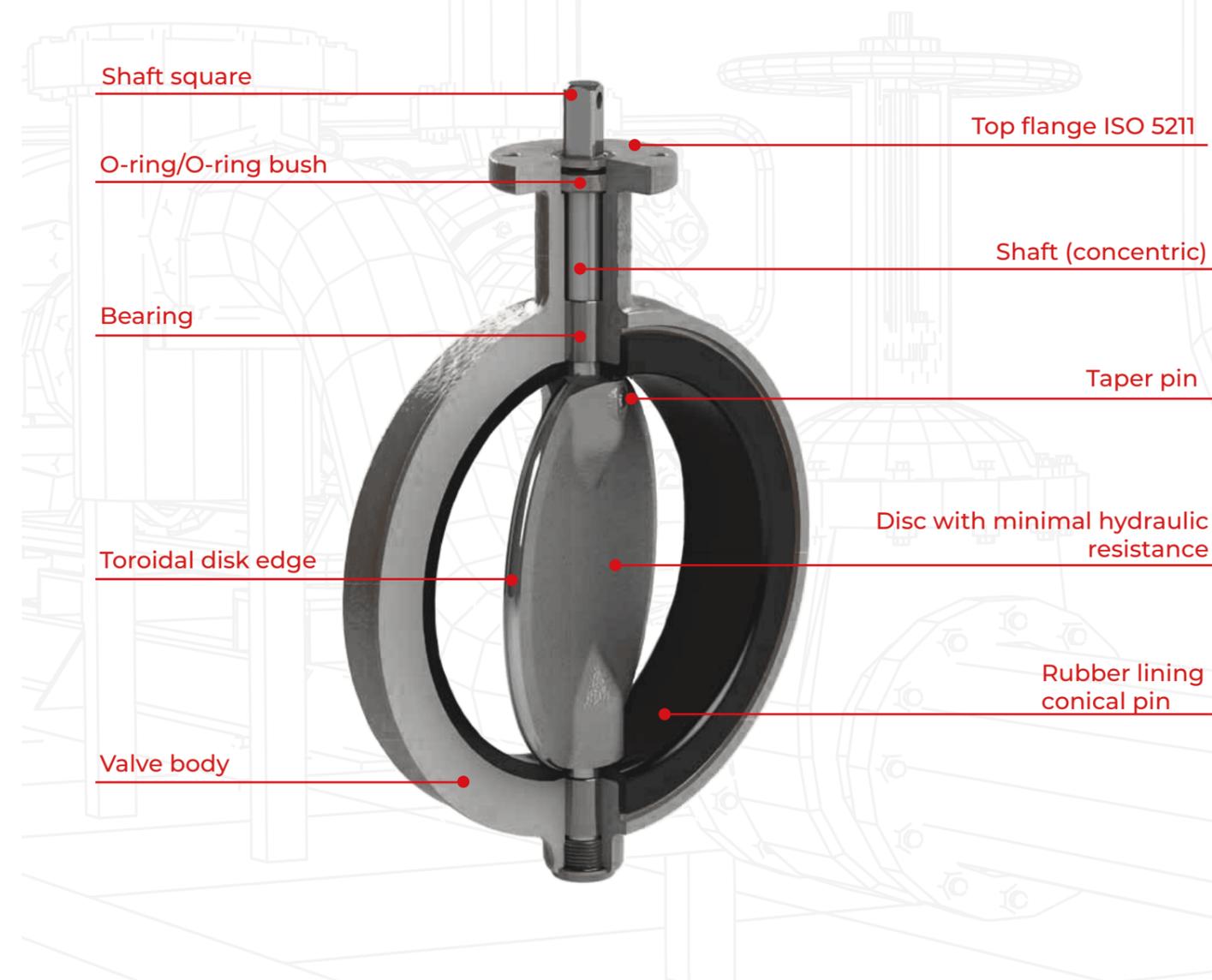
| TYPE     | Nominal diameter | Nominal pressure | Operating temperature  |
|----------|------------------|------------------|------------------------|
| AV01-002 | DN 50-1000       | PN 6/10/16       | from -20 °C to +200 °C |
| AV01-004 | DN 50-1200       | PN 6/10/16       | from -20 °C to +200 °C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



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## 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

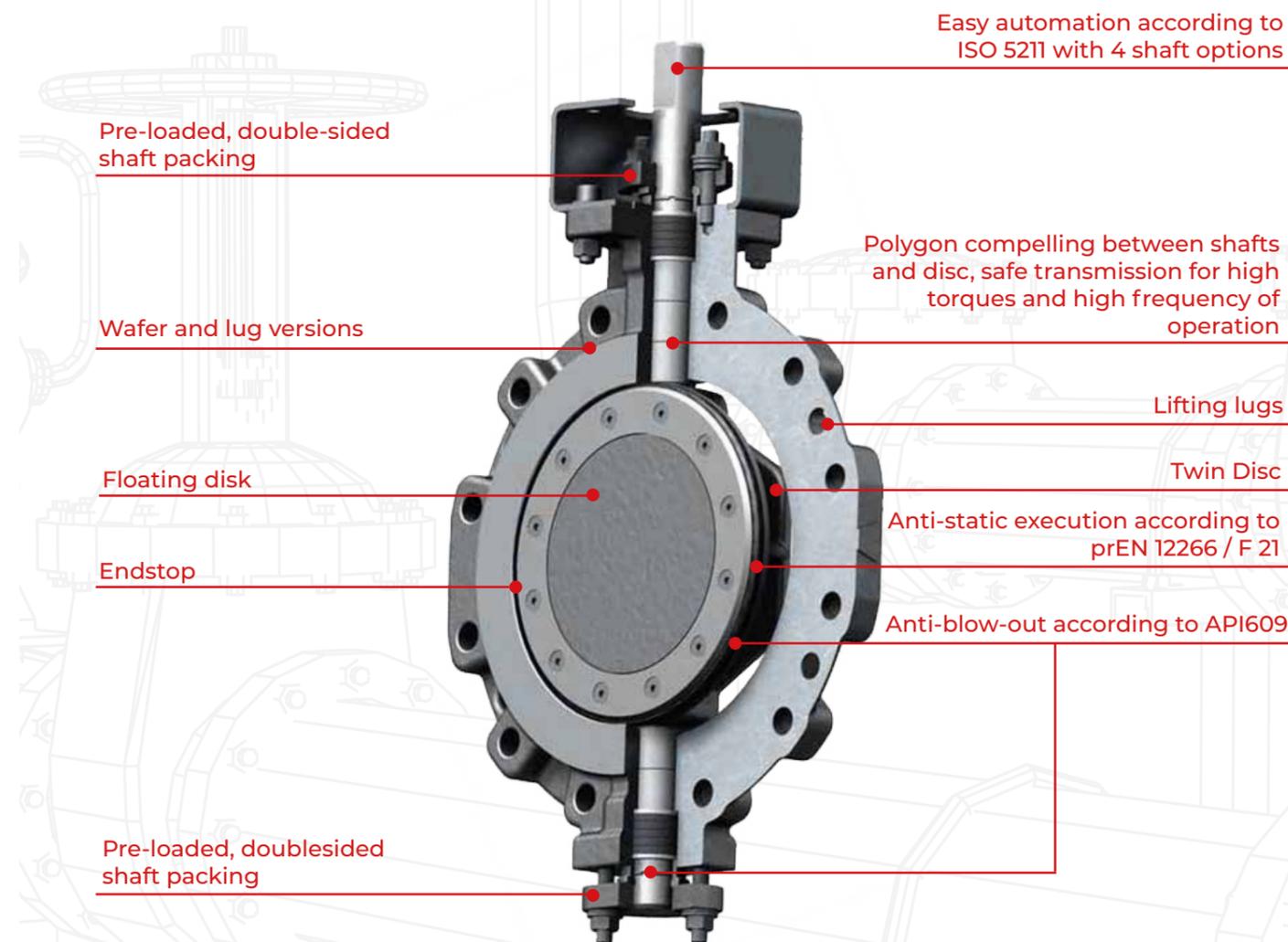
| TYPE     | Nominal diameter | Nominal pressure | Operating temperature  |
|----------|------------------|------------------|------------------------|
| AV01-061 | DN 100-2000      | PN 10/16/25/40   | t° to +250 °C          |
| AV01-062 | DN 100-3000      | PN 6/10/16/25/40 | t° to +250 °C          |
| 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



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## 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.

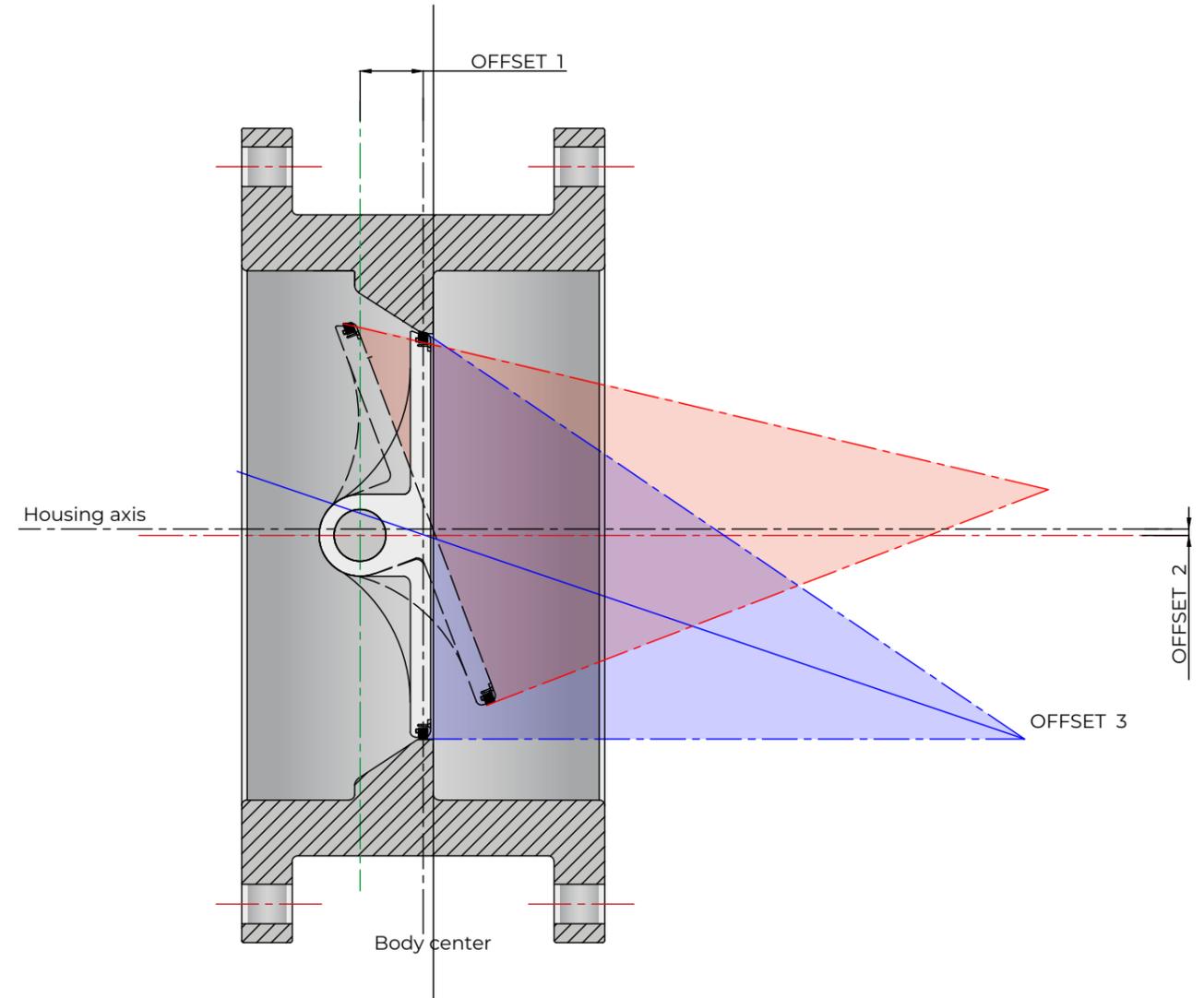


AV01-081

| 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.



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AV02-231



AV02-163



AV02-164



15° V PORT



30° V PORT



60° V PORT

| 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 |

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.

## 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

## 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

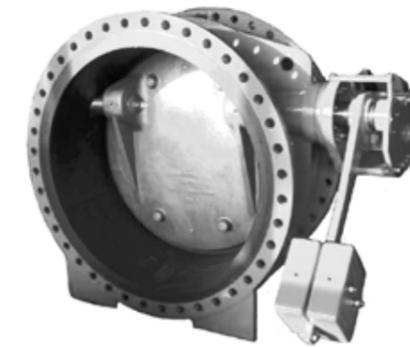
- Gray cast iron
- Cast iron with nodular graphite
- Stainless steel
- Bronze
- other materials on request

## SEALING

- NBR
- EPDM
- Viton
- Metal

# BUTTERFLY SWING CHECK VALVE

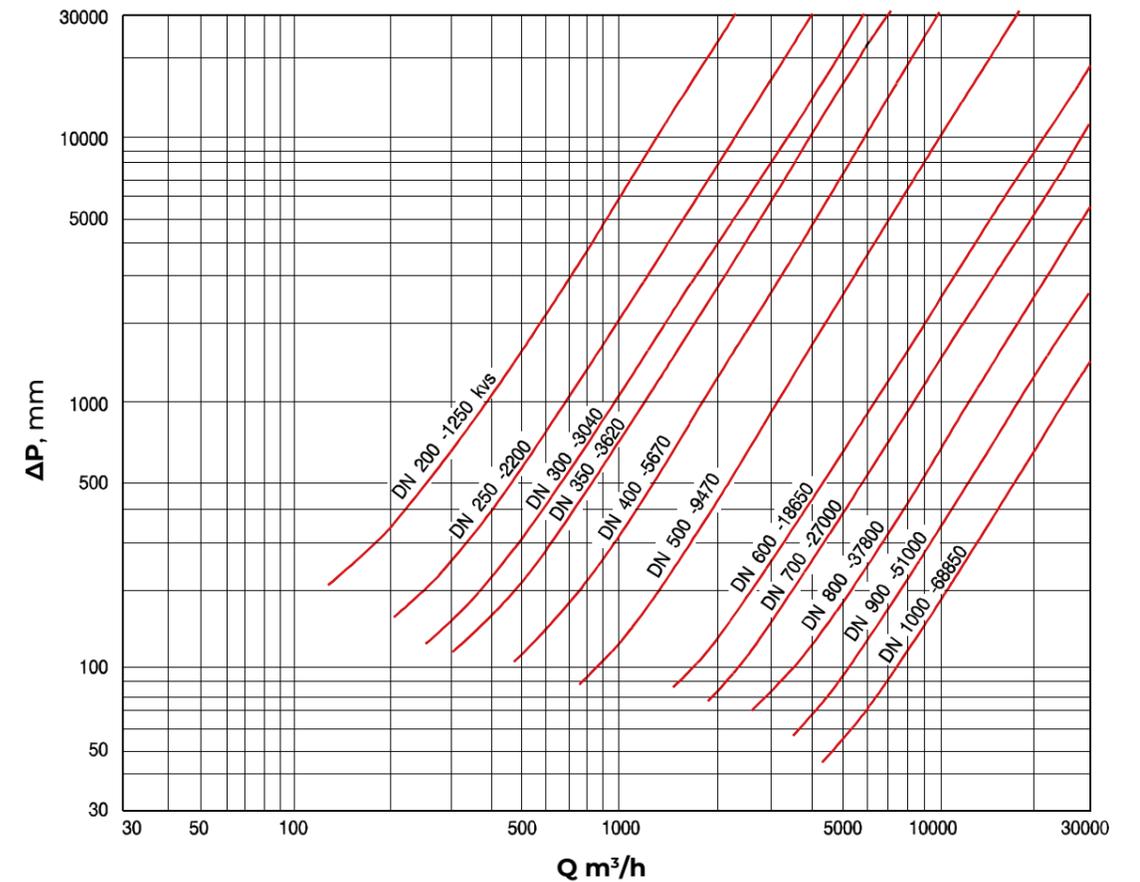
Two-eccentric design valves are used in industrial water supply systems. Liquids and gases that are not aggressive with respect to valve materials can act as a working medium here.



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

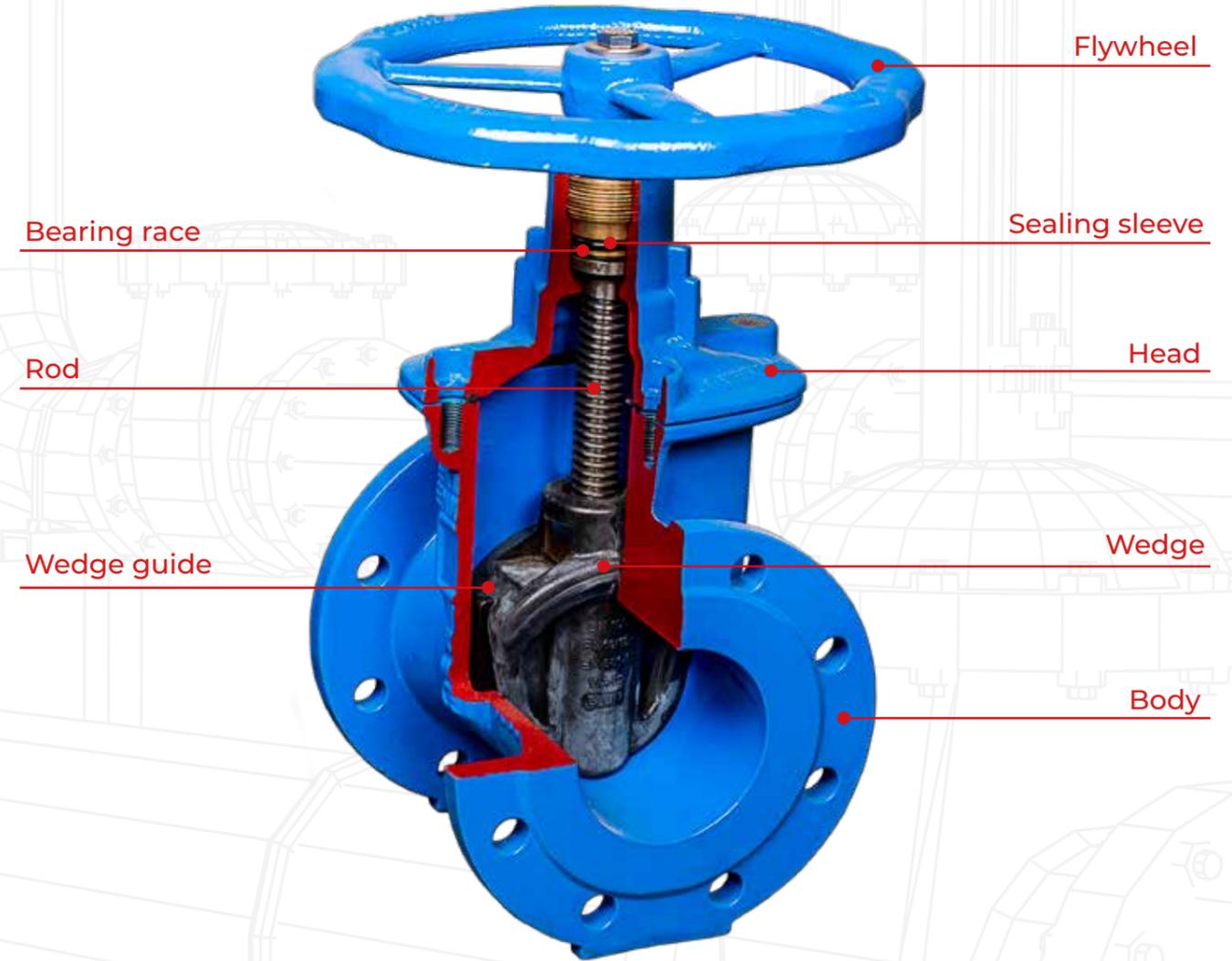
| TYPE     | Nominal diameter | Nominal pressure | Operating temperature |
|----------|------------------|------------------|-----------------------|
| AV04-351 | DN 50-500        | PN 10/16         | t° to +60 °C          |

### ADVANTAGES

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



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## 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

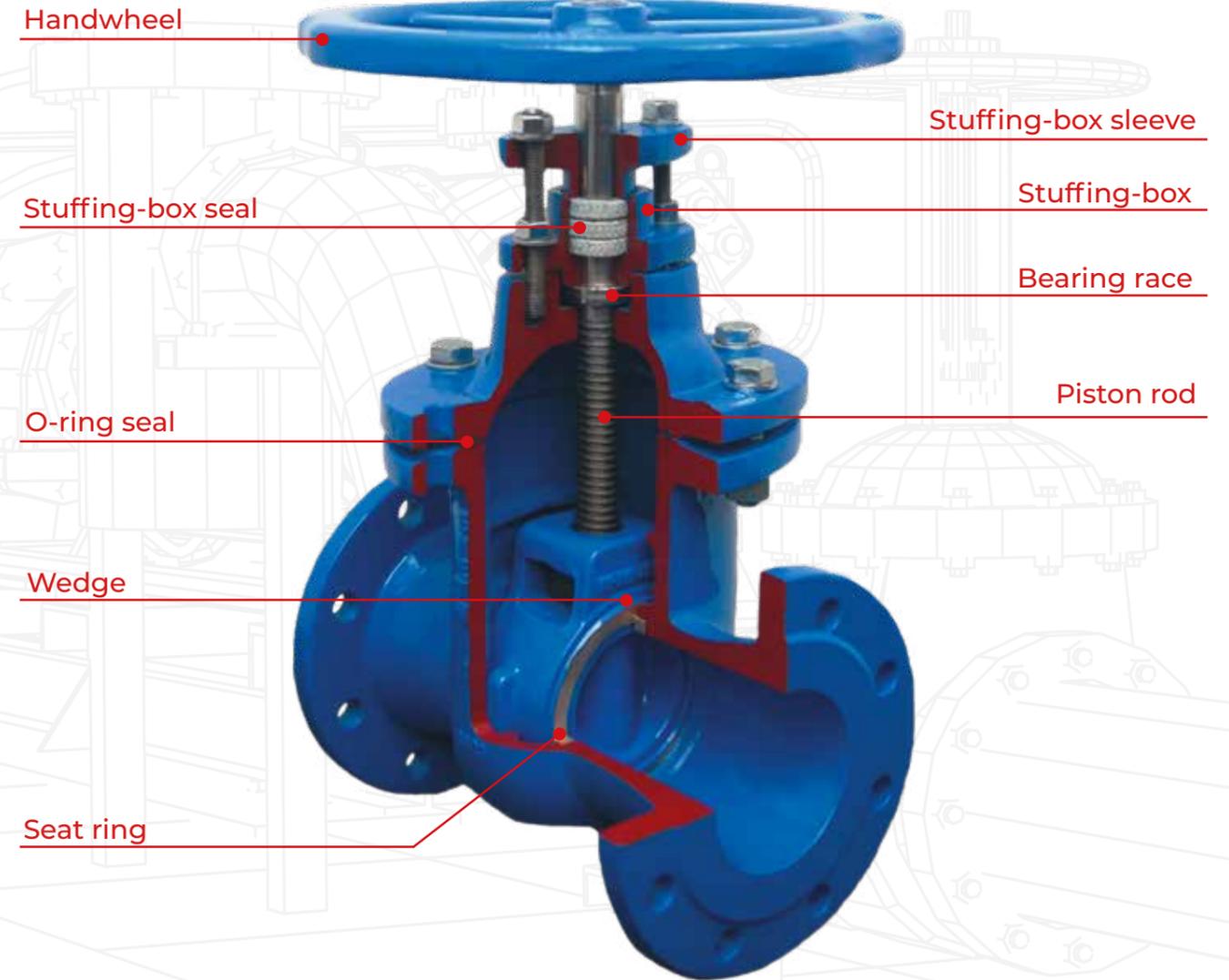
| TYPE     | Nominal diameter | Nominal pressure | Operating temperature  |
|----------|------------------|------------------|------------------------|
| AV04-382 | DN 50-1600       | PN 10/16/25      | t° to +60 °C           |
| AV04-393 | DN 15-1200       | PN 10/16         | from -20 °C to +200 °C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

### ADVANTAGES

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



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# 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

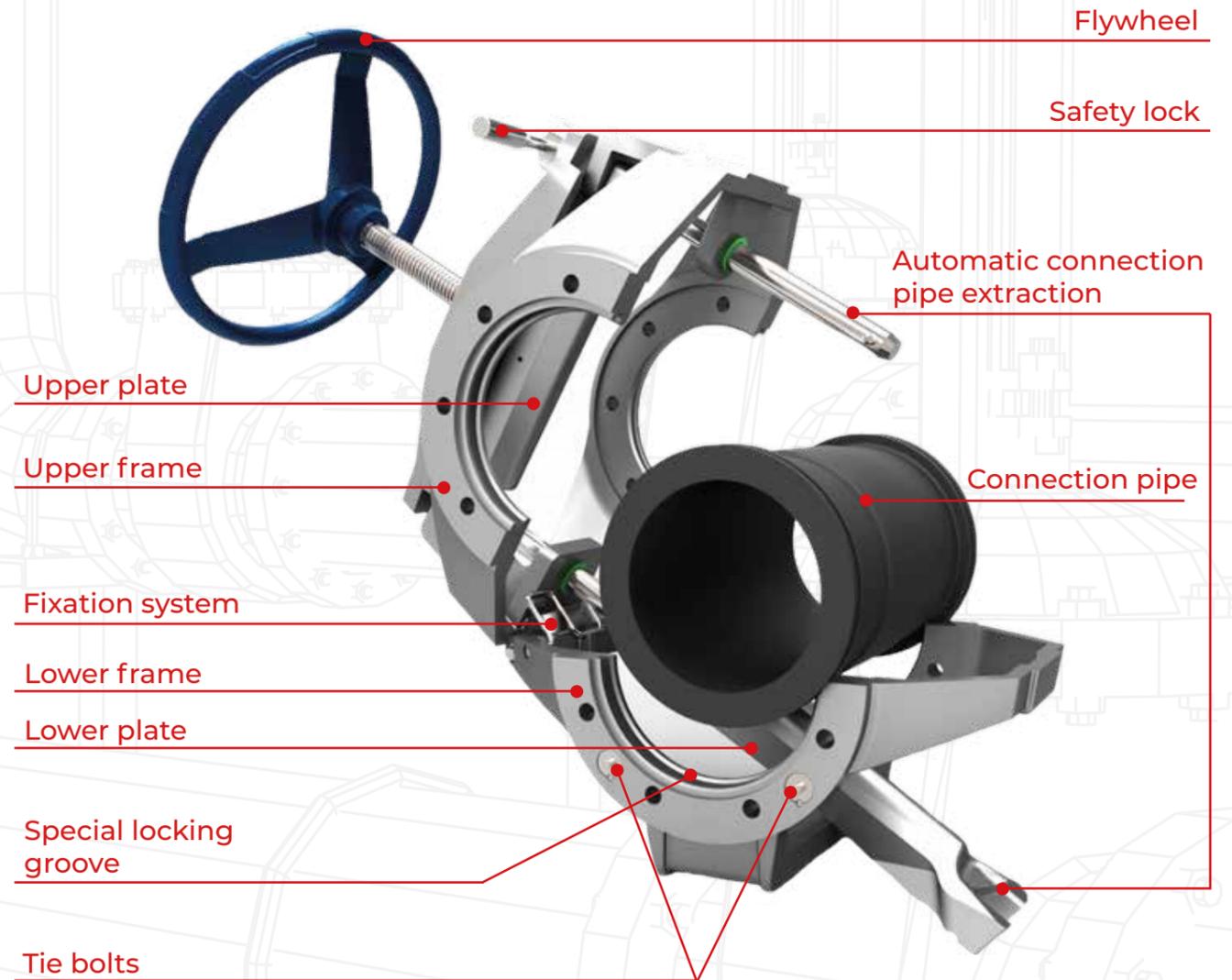
| TYPE     | Nominal diameter | Nominal pressure | Operating temperature |
|----------|------------------|------------------|-----------------------|
| AV07-541 | DN 80-300        | PN 2/10          | t° to +110 °C         |

## 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)



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# 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

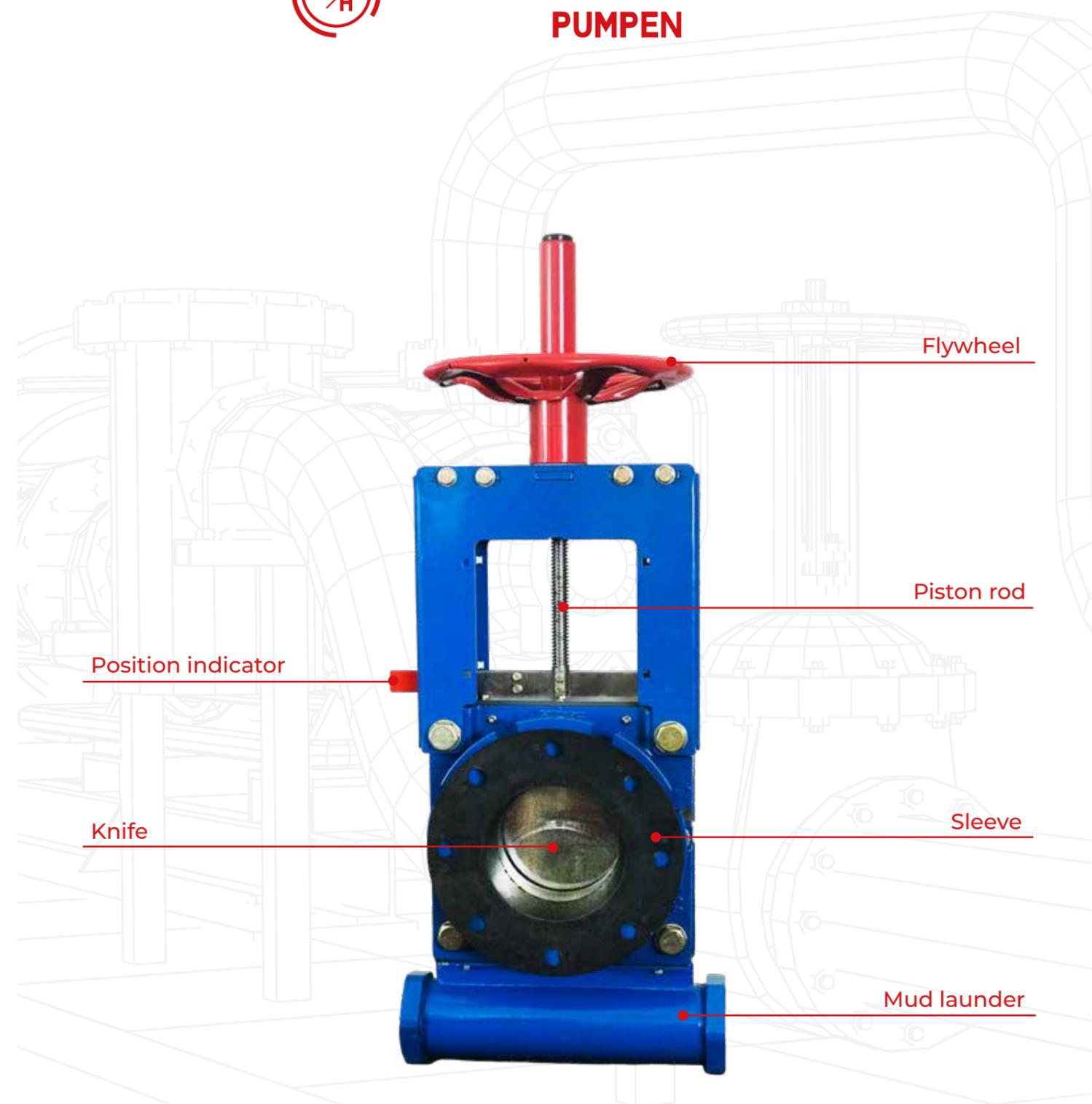
| TYPE     | Nominal diameter | Nominal pressure    | Operating temperature |
|----------|------------------|---------------------|-----------------------|
| AV05-442 | DN 50-700        | PN 2/3/5/7/10/16/25 | t° to +90 °C          |
| AV05-471 | DN 50-400        | PN 10/12/14/16      | t° to +90 °C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

## 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



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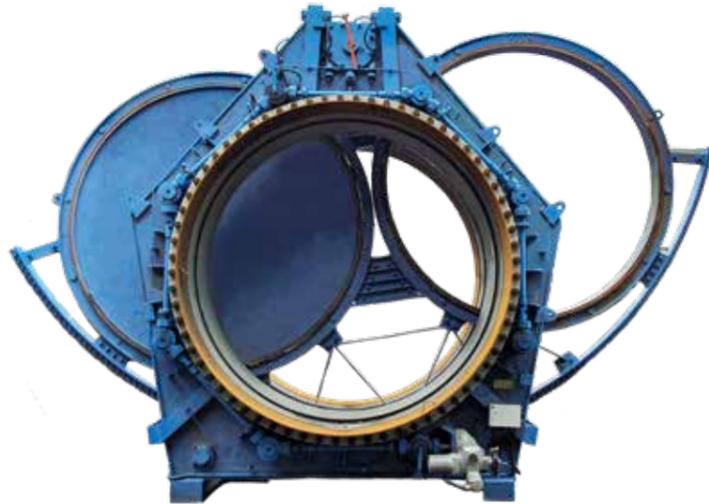
# SPECIAL VALVES

## 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.



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**GOGGLE VALVE** DN 3000



**GROUP EXPANDING VALVE**  
DN 2700



**HOT BLAST VALVE**  
DN 1100/1600

**DOUBLE-DISK VALVE** DN 1500



**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<br>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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