

flowrates

Expect more from your valves



A word from the CEO 6

Flowrates' DNA is based on innovation, responsiveness and the quest for quality, embodied by committed teams who bring our ambition to be a trusted partner for the industry to life every day.

Flowrates represents the culmination of more than 12 years of expertise in the design, manufacturing and marketing of butterfly and gate valves within the European industrial landscape. Drawing on valuable lessons learned from leading manufacturers, we have carefully integrated their processes, challenges and best practices into a business model that redefines industry standards.

Our vision is clear: to become a trusted leader in providing innovative and sustainable solutions that exceed the highest expectations. Our dedicated team prides itself on providing expertise and personalized service, actively contributing to Europe's economic growth and industrial excellence.

VALUES





EFFICIENCY







"We have built a robust and innovative infrastructure designed to uphold our commitments."

THEY BELIEVE IN US



Rudolf Grams

Germany

When I handle a project to Flowrates, I know it will go well. Their reactivity and quality are highly appreciated for the German market.



Michal Wronski

Poland

What I always appreciated at Flowrates is their know-how and problem solving attitude. Elia has been particularly helpful identifying our project needs and providing most efficient solutions.



Niels Hau

Denmark

I have worked with Elia for the last decade and the innovative process built by Flowrates brings a lot of value on the table.

OUR STRENGTHS



Technical Expertise

Focused Specialization:

Experts in butterfly and knife gate valves, offering both standard and custom solutions.

Mastery of Complex Applications:

Reliable equipment for the most demanding industrial environments.

Industrial Know-How:

Expertise built on years of collaboration with leading industry players





Strong European Partnerships

Exclusive collaborations with top European manufacturers sharing our values.

Renowned specialists in advanced technologies, ensuring performance and reliability.

Certified, reliable products delivered swiftly through trusted relationships.

Innovation & Technology



Innovation and Technology

In-house software for precise project tracking and Flowrates' exclusive valve configurator.

Innovative website: track your orders and customize your equipment effortlessly.

Continuous optimization to deliver tailored solutions with unmatched responsiveness.





Partner Satisfaction

Tailored support from project design to completion.

Technical follow-up and after-sales service to build lasting trust.

A European network of distributors and agents to stay close to our clients.

Our markets expertise



Energy



Chemical



Steel



Water



Pulp & paper



Cement



Flowrates supports industrials and resellers in water, energy, chemistry, and heavy industry sectors. Active accros Europe!

European Partners & Collaborations



We collaborate with renowned European manufacturers, recognized for their expertise and exceptional production quality. These partnerships enable us to deliver tailored solutions that meet the highest industry standards. At Flowrates, we oversee every step, from engineering to delivery, to provide valves perfectly suited to your specific needs.

Certification ISO 9001 / (ISO 9001 certification)

Certification européenne CE-PED / (European CE-PED certification)

Certification de sécurité SIL3 / (SIL3 safety certification)

Certification anti-incendie API 607 / (API 607 fire certification)

Certification ATEX anti-explosion / (ATEX explosion-proof certification)

Certification d'hygiène alimentaire US FDA / (US FDA food hygiene certification)

Certifications eau potable ACS / Kiwa / DVGW / (Drinking water certifications ACS / Kiwa / DVGW)

ISO 14901 : Exigences et méthodes d'essai pour les revêtements époxy / (ISO 14901 requirements and test methods for epoxy coatings)











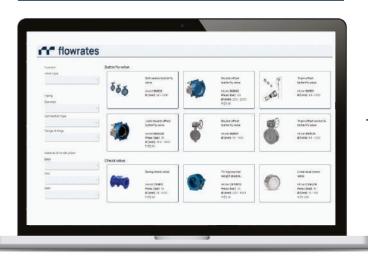




Our commitment to innovation, our passion for precision



Your valve configurator Visit our webshop and find:





Our Documentation



Our Technical Sheets



Speed: accelerated responses to requests.



Personalization: configure the valve to each need.



Support: technical support in real-time video.



Our 3D plans



Reliability: After-sales service, Technical support



User area: Order tracking. Easy recommendations and discounts.

Feel free to contact our team for any information or price requests!



By Flowrates we:

Our teams are trained and dedicated to help you selects the right equipement to improve your operations.

- High-performance solutions, tested and certified
- Order standard solutions instantly, with controlled pricing
- Create added value with dedicated sales representatives
- We carefull study your process to improve it's operation

Production



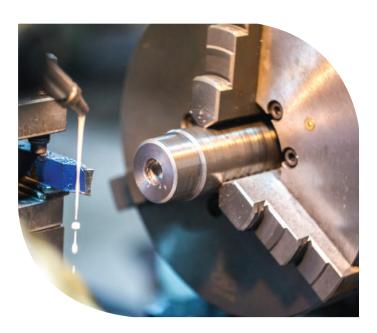
Through our trusted partners, we handle all

types of customized assembly, mounting, and machining. This includes pneumatic actuators, solenoid valves, manual override systems, electric actuators, positioners, limit switches, special seals,





Butterfly valve under assembly, prior to welding and coating application



Welding valve's bodies



Assembling







All manufacturing is carried out by skilled and passionate technicians.

Adaptation of actuators (pneumatic, electric)

Assembly of solenoid valves, limit switches

Manual emergency controls

Positioners, special seals, and much more

Quality Control Test Benches







Material Inspection, Dimensional Control, Leak Tests per EN12266-1. and API598 Torque Control and Operational Testing Painting thickness controls





100% of the valves are tested as per EN12266-1 or AP1598 standards

Conception Design Development Innovation 3D Drawings for Customers Projects

Butterfly Valves





Up to 150 bar

-30°C to 140 °C Soft seated

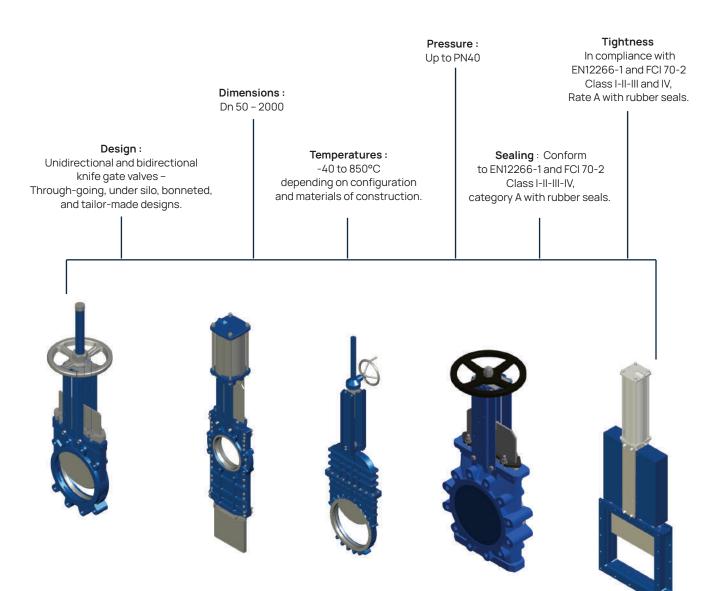
-50°C to 280°C Double excentric

-196°C to 850°C Triple excentric

Leak test acc. to: EN 12266-1 rate A - B / API 598 ANSI/FCI 70-2 Class IV - V and VI

Knife Gate Valves







Pressure:

< 0.5 bar

< 3.0 bar (with PED Directives)

TightnessClass I - II - III - IV acc. to
FCI 70-2 or 100% by air injection

Dimensions:

DN200 to 5000 ou 200x200 - 5000x5000 and above

Design:

Damper - Butterfly - Guillotine -CNC Machined - Welded construction multi-louver - split body -100% tightness by air system

Temperatures:

-40 to 1050°C depending on configuration and materials of construction.







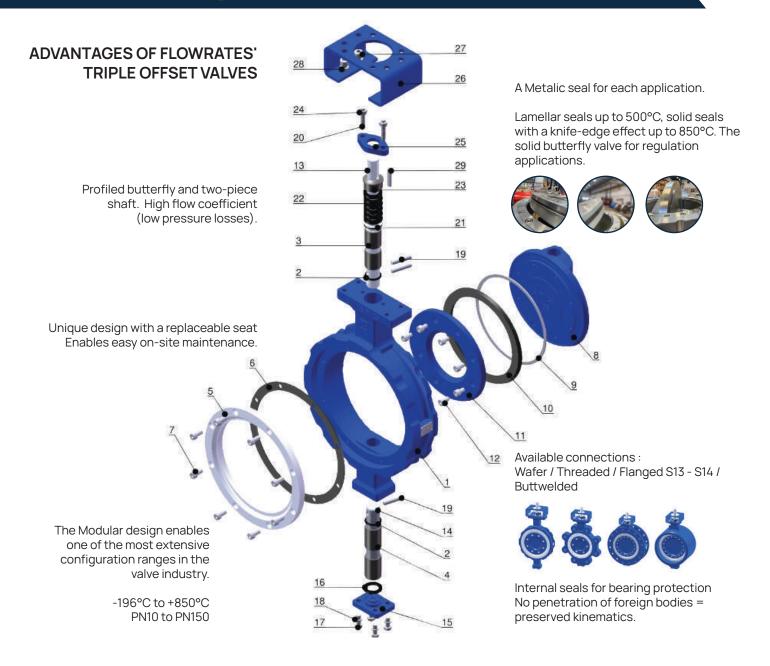






Triple Offset Butterfly Valve





Energy | Chemistry | Industry | Petrochemicals | Cryogenics | Desalination | Powders

Advantages of Triple Offset Technology:

No risk of gasket seizing between the disc and seat. NO FRICTION = NO WEAR = EXTENDED LIFESPAN No retention zones.

No friction-induced torque at opening = smaller actuators









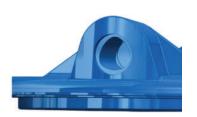






Double offset valve water applications







Hydrodynamic disc design, minimizing turbulence and optimizing flow.



ROKO connection, a disc-to-shaft linkage that eliminates mechanical play and vibrations.



Manual IP68 gearbox, providing complete protection against immersion.





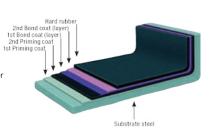




Epoxy coating compliant with sanitary standards across various European countries.

Two-way sealing One-piece, glue-free seal design, EN681-1 compliant Easy seal access and replacement

Hard Rubber Ebonite lining This coating can be applied for seawater applications And abrasive scenarios.















Hydroelectric applications (overspeed valve).







Knife Gate Valves





Aluminum Pneumatic Actuators

Compatible across the entire range. Available with Namur base and ISO mounting plate.

Visual Position Indicator

Oblong slots designed for the installation of inductive limit switch sensors.

Bolted Gland Follower with Nylon Lock Nut Tightenable during operation. A combination of packing materials and options ensures perfect atmospheric sealing.

Monoblock Body in Ductile Iron or CF8M

Resistant to deformation and abrasion, with a 150µm epoxy coating for enhanced abrasion resistance.













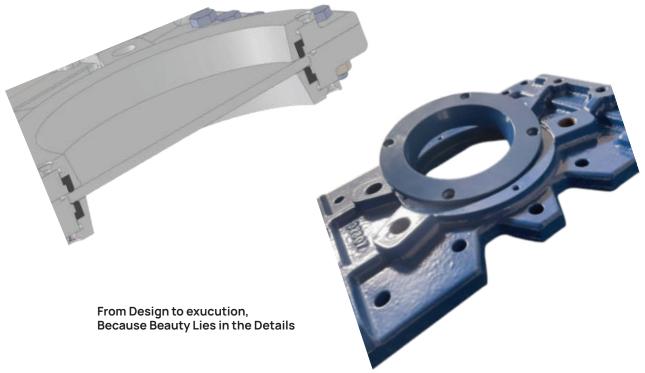


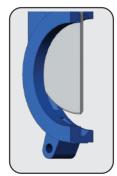




Knife Gate Valves











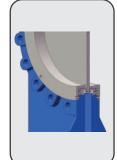
Soft seated



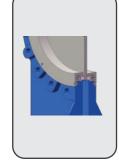
Reinforced seat



Dynamic O-ring back seat



Spring loaded dynamic O-ring



Spring loaded Dynamic Metal seat

Packing material temperature range

Material	Temperature range		
PTFE	0 to 180°C		
Graphite	-10 to 650°C		

Body material temperature range

Material	Temperature range
Cast iron	-15 to 250°C
Ductile iron	-30 to 350°C
Carbon steel	-29 to 425°C
Stainless steel	-196 to 600°C

Attention: all temperatures given are indicative. Please consult for extreme temperature application







Product properties:

range of diameters: Ø 50 mm – Ø 10 000 mm Available rectangular design, multi-louver, split body, air injection

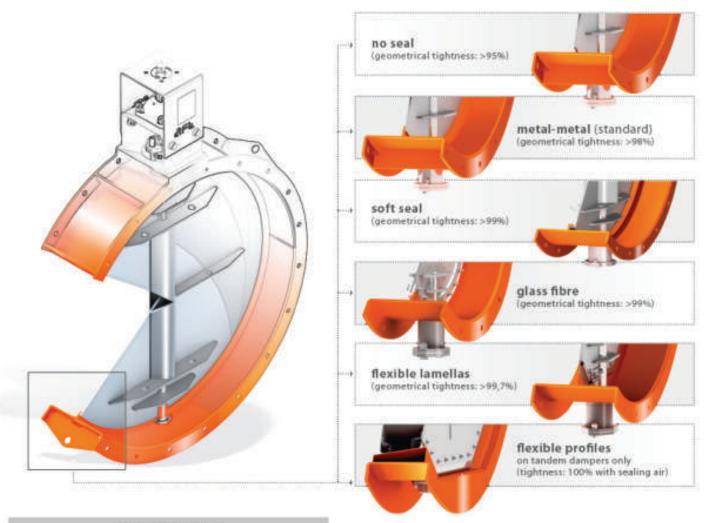
Connection to duct:

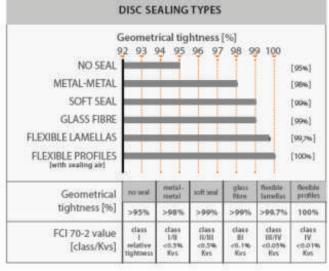
- by fanges acc. to DIN 24154
- by fanges acc. to PN6, PN10, PN16 (acc EN1092-1)
- custom-made acc. to customer requirements (ANSI/ GOST / OTHER)
- welding-ends

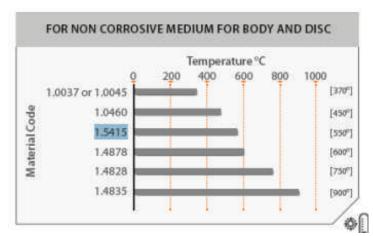
Design and working parameters:

- design pressure < 0,5 bar
- design pressure < 3,0 bar (with PED Directive)
 design temperature -30°C do +750°C (max up to 1100°C)
- other temperatures on request, possibility to use isolation, concrete or ceramic lining etc







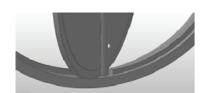




Operating temperature:	-40°C to +1000°C, according to the combination of material selected
Operating pressure :	< 0,5 bar
Velocity of flow:	25m/s for gases
Leakage rate:	 Swing trough leakage 1-2% of Kvs Step seat leakage < 0.5% of Kvs Step seat and seal, leakage < 0.05% of Kvs









Body	Disc	Shaft	Shaft bearings	Shaft packing	Bolting mat.
P265GH(3E0) up to 350°C	P265GH	1.4057 (AISI 431)	1.4301 (AISI 304)	Graphite	8.8
16Mo3 up to 500°C	16Mo3	1.4301 (AISI 304)	1,4305	Graphite	10,9
1.4301(11E0) up to 500°C	1.4301 (AISI 304)	1.4301 (AISI 304)	1.4571 (AISI 316Ti)	Grafite	12.9
1.4404(13E0) up to 600°C	1.4404 (AISI 316)	1.4404 (AISI 316)	1.4571 (AISI 316Ti)	Textilie – sklo + Ceramic	12.9

Double offset Butterfly valve

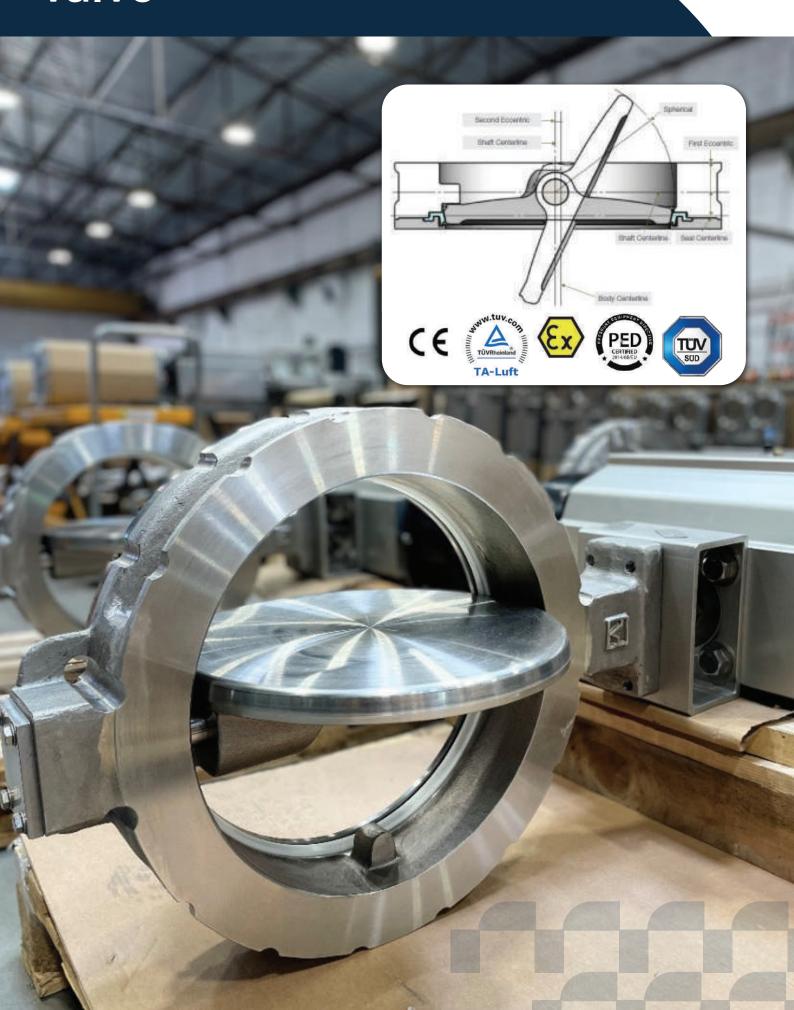




- Bidirectional bubble-free, zero leakage sealing
- Optimized seat
- Automatic compensation of temperature and pressure variations
- Safe and reliable sealing performance
- Easy access to the seat, simplified maintenance operations
- Shut-off and control of gaseous and liquid media
- Seat available in R-PTFE and pure PTFE
- Seat variants: soft seat (R-PTFE) up to 230°C
- Optimal lifespan, even with high-frequency operations

Double offset Butterfly valve





CONTROL VALVES



NEEDLE VALVES

Also called Plunger Valves

Needle and plunger valves can be used in many different applications with a need for flow or pressure regulation. In water treatment and distribution, dams, reservoirs, power plants and industry needle

Valves are used for:

Flow control

Pressure regulation

Pump start

Turbine by-pass

Discharge

Reservoir inlets

Air regulation

Desalination plants

Product properties:

DN80 to 2000 mm

PN10 to PN40 standard and up to PN100

 $T^{o}\ range: 0^{o}C$ - $70^{o}C\ standard/$ 180°C with Fpm seals

Epoxy coating FBE 250µm drinking water approved

Gaskets are made in PUR for high resistance to abrasion

Hydraulic tests as per EN 1074-5 and EN 12266

EN558 Series 15







Automatic control valve



Automatic control valves enable continuous and precise regulation of hydraulic networks. Thanks to their modular design, they adapt to various functions such as pressure management, overpressure protection and flow control, thus ensuring increased sustainability and optimum efficiency of the systems.

"Water is a precious resource that we must protect. We must secure access to water for future generations and a growing population "

Available functions:

Flow control
Upstream pressure control
Downstream pressure control
Altimetric control
Relief valve function

Product properties:

DN50 to 1400 mm PN10 to PN25

Temperature from 0°C to 70°C

Epoxy coating (FBE 200 μ m) approved for drinking water according to EN 14901 - Calculation note written and delivered with each valve on sizing software.

EN 558 Series 1









Steel production sites – Dunkirk France Isolation and control valves for high temperature air and fumes

DN1000 - DN350 - DN250 - DN80

+650°C - sealing requirement

Flowrates solution:

To solve our client's problems, Flowrates proposed a triple eccentric valve with a solid seal, capable of withstanding the 650°C of the client's process while ensuring perfect sealing, increasing the combustion cycle and reducing scale deposits in the installation.



Chemical Plant – Italy Reactor Isolation Process for Solvents and Powders

Client Constraints:

Handling of powders, adhesives, and solvents Vacuum resistance ATEX compliance High maneuvering frequency

Flowrates Solution:

To meet these stringent requirements, Flowrates supplied triple-offset butterfly valves with monobloc discs and a nitrided hardening treatment to ensure long-term abrasion resistance. The metallic sealing and valve geometry guarantee perfect vacuum tightness and reliable performance under high maneuvering frequencies.

Specifications:

PN16 / DN300

Solid metal ring butterfly valve with nitrided surface Compliance with PED, ATEX, and certified by TÜV Rheinland Vacuum pressure resistance up to -1 bar with flawless sealing







Industrial Site:

Sugar factory High temperature and high pressure steam networks Customer constraints: large valves up to PN100

Flowrates Solution:

Production of triple eccentric valves with lamellar graphite seats, a double flange design according to EN 556 Series 14. Produced, tested and delivered within 14 weeks to meet our customer's technical shutdown. A satisfied customer, a perfectly sealed installation.





Design: Trough going knife gate valve with silo shape and bonnet

Specifications: DN300 / PN10 / CE PED / ATEC/ TA LUFT / SIL Certification

Features : Flushing holes, dynamic seat, tightness and security for

Application: Important Petrochemical plant in the Netherlands and build for a French Engineering company.





Paper Production Site in France

Process: Isolation and control of flows for loaded and demineralized water.

Client Constraints: Abrasion, corrosion, and precision in flow regulation.

Flowrates Solution:

We provided a complete set of knife gate valves entirely made of 316 stainless steel, equipped with backup seals and through-going blade designs to ensure tightness and manage solid particles effectively. All valves were fitted with detachable flanges for easier maintenance over time. For regulation, we supplied double-offset butterfly valves with reinforced PTFE seals to withstand demineralized water.

Certifications: PED / ATEX / Regulation / Corrosion Resistance





Pumping Station - Italy

Process: Creation of a retention basin with penstocks and a pumping station.

Client Constraints: Velocity and pressure.

Flowrates Solution:

We supplied an overspeed valve with a hydraulic counterweight, serving as a critical safety component for the process. The aerial and underground pipelines are secured by double-offset butterfly valves featuring ROKO shaft technology, which eliminates vibrations and disturbances, even under high pressure and high flow velocity conditions.





Industrial Site - France

Process: By-pass of a smoke circuit for waste heat recovery.

Client Constraints: High temperature, abrasion, and the need for strong sealing.

Flowrates Solution:

We supplied a set of T-shaped damper valves equipped with an air purge system to create a pressurized barrier, ensuring 100% tightness.

Specifications: DN500 / 450°C / Flexible Inconel Lamellas with an Air barrier system with a Fan





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Let's keep in touch