



GEMÜ R487 Victoria
manually operated



GEMÜ R481 Victoria
pneumatically operated



GEMÜ R488 Victoria
motorized

The latest generation of butterfly valves GEMÜ R480 Victoria series

Areas of application

Chemical processes
Industrial water treatment
Surface finishing
Power generation and environmental systems
Mechanical engineering and processing industries
Pharmaceutical, biotechnology and cosmetics industries
Foodstuffs and beverages

Features

Low torques due to PTFE-coated bushes
Sealed without drops or bubbles forming,
acc. to EN 12266-1/P12, leakage rate A
Liner material is easy to read when installed
Sleek disc design for optimized Kv values
Robust body coating comparable with ISO 12944-6 C5, min.
layer thickness of 250 µm

GEMÜ R480 Victoria series

Soft seated metal butterfly valves

Description

The GEMÜ R480 Victoria series of soft seated butterfly valves made of metal is available in nominal sizes DN 25 to 600 and in standardized installation lengths ISO 5752/20, EN 558-1/20 and API 609 category A (DIN 3202 K1) in wafer, lug and U section body versions.

There are various actuator types available:

- With bare shaft: GEMÜ R480 Victoria
- Pneumatic: GEMÜ R481 Victoria
- Manual: GEMÜ R487 Victoria
- Motorized: GEMÜ R488 Victoria

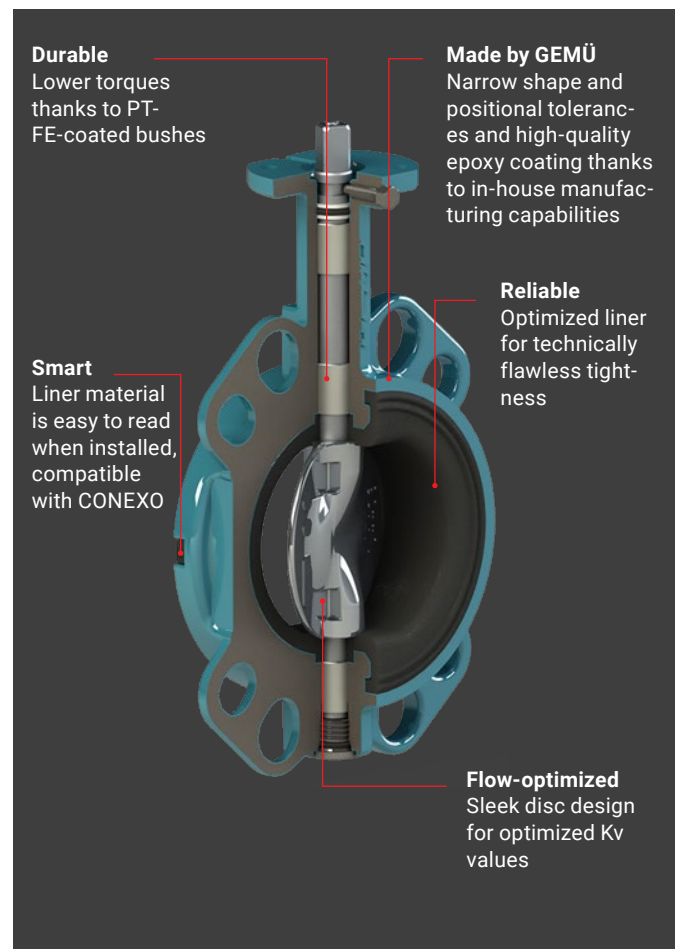
Technical specifications

- **Max. operating pressure*:**
0 to 16 bar
- **Media temperature*:**
-10 to 160 °C, low temperatures on request
- **Ambient temperature*:**
-10 to 70 °C
- **Nominal sizes*:**
DN 25 to 600
- **Body configurations:**
Wafer | Lug | U section
- **Connection types:**
Flange
- **Connection standards:**
ANSI | AS | BS | DIN | EN | ISO | JIS
- **Body material:**
EN-GJS-400-15, SG iron |
EN-GJS-400-18-LT, SG iron
- **Body coating:**
Epoxy
- **Liner materials:**
EPDM | FKM | NBR | SBR (abrasion resistant) | Silicone
- **Disc materials:**
1.4408, investment casting material |
1.4408, polished investment casting material |
1.4469, duplex investment casting material |
EN-GJS-400-15, SG iron material
- **Disc coating*:**
Epoxy | Halar®¹ | Rilsan®²
- **Conformities:**
ACS (Certificate of Sanitary Conformity) | ASME GEMÜ B31.3 | ATEX | Belgaqua | DNV GL | DVGW Gas | DVGW Drinking water | EAC | FDA | Functional safety | NSF | Oxygen | TA Luft (German Clean Air Act) | Regulation (EC) No. 1935/2004 | WRAS

* depending on version and/or operating parameters

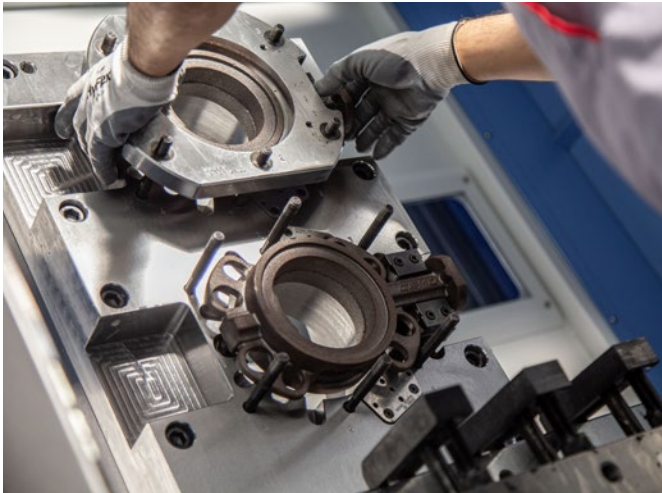
¹ Rilsan® is a registered trademark of Arkema

² Halar® is a registered trademark of Solvay



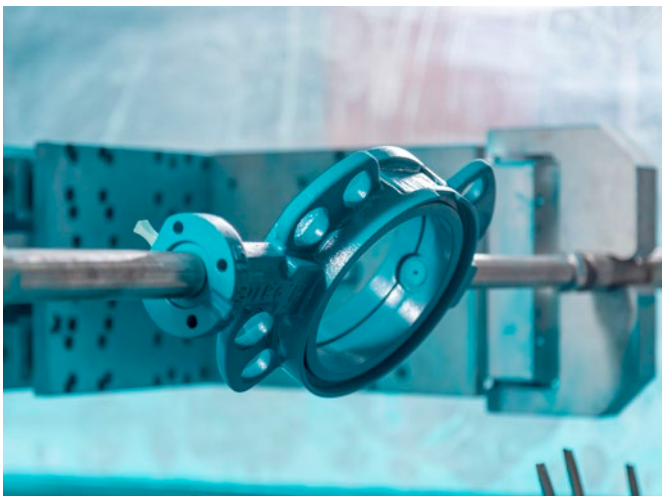
In-house production expertise For greater safety and flexibility

With the help of state-of-the-art robot technology and a sophisticated transport system, the unmachined parts for our butterfly valves are produced in-house, from the initial milling right through to the high-quality coating. The in-house machining of our butterfly valves gives us much more control over processes that are essential to quality.



Fully automated mechanical machining for narrow shape and positional tolerances

All butterfly valve bodies are milled in one clamping position in our highly automated valve production facilities at GEMÜ Valves China. This allows us to achieve narrow shape and positional tolerances.



High-quality coating for robust valves

Using the whirl-sintering method, we coat the butterfly valve body evenly with epoxy powder. The powder suspended in the air melts onto the preheated butterfly valve body and forms a robust and resistant surface.

- High level of corrosion protection comparable with ISO 12944-6 C5
- Layer thickness of at least 250 µm
- Consistent coating, even in the liner area



How we produce the butterfly valves GEMÜ R480 Victoria








Available actuators

Selection

Pneumatic actuators

| | | | |
|---------------------------------------|---|--|---|
| |  |  |  |
| | GEMÜ GDR/GSR basic actuator | GEMÜ ADA/ASR for universal use | GEMÜ DR/SC premium actuator for demanding applications |
| Range of functions | | | |
| Position feedback | ● | ● | ● |
| Open/close non-corrosive environment | ● | ● | ● |
| Open/close corrosive environment | ○ | ○ | ● |
| Control application | ○ | ○ | ● |
| Actuators with anticlockwise rotation | ● | ● | ● |
| Spare parts/maintenance | ● | ● | ● |
| ATEX | ● | ● | ● |

Motorized actuators

| | | | | | |
|---------------------------|---|---|--|---|---|
| |  |  |  |  |  |
| | GEMÜ 9428 | GEMÜ J4C | GEMÜ RP | GEMÜ PF | GEMÜ AQ |
| Range of functions | | | | | |
| Non-corrosive environment | ● | ● | ● | ● | ● |
| Corrosive environment C5 | ○ | ○ | – | ● | ● |
| Protected outdoor areas | ● | ○ | ● | ● | ● |
| Unprotected outdoor areas | – | – | ● | ● | ● |
| Positioning application | – | ○ | ○ | ● | ● |
| Frequent switching cycles | ● | ○ | ○ | ○ | ○ |
| Fail-safe option | – | ● | – | – | ○ |

- Extremely suitable
- Conditionally suitable
- Not suitable

Always find the appropriate configuration

The GEMÜ modular system adjusted to applications

| | Application | Typical media | To be taken into consideration | Disc material | Liner material | Approval |
|-----------------|--|--|--|---|----------------|--|
| Water treatment | Drinking water | Raw water | Drinking water and food approvals | 1.4408, investment casting or EN-GJS-400-15, Rilsan® SG iron coated | EPDM | ACS (Certificate of Sanitary Conformity), DVWG Water, Belgaqua, FDA, WRAS (UK Water Regulations Advisory Scheme) |
| | Swimming pools | Chlorinated water (<5 ppm active chlorine) | Increased torques | 1.4408, investment casting | EPDM | |
| | Ballast water | Sea water | Corrosion | 1.4469, super duplex | NBR | DNV-GL ship approval |
| | Ultra-filtration, ion exchangers/ DI water | Acids/alkalis/ sodium hypochloride as cleaning agent | Chemical resistance | 1.4408, investment casting, Halar® coated | EPDM | |
| | Heating and cooling systems | Heating and cooling water, glycol | Temperature, mounting kit or dew point barrier | 1.4408, investment casting or EN-GJS-400-15, SG iron epoxy coated | EPDM | |
| | Chemical processes | Chemically corrosive media | Chemical resistance | 1.4408, investment casting, Halar® | FKM | |
| | Heat supply | Steam/hot water | Temperature | 1.4408, investment casting | EPDM SHT | |
| | Gas engineering | Natural gas, biogas | Gas approval | 1.4408, investment casting | NBR | DVGW (German Technical and Scientific Association for Gas and Water) Gas |
| | Bulk materials | Lime, sand, granules | Silo discharge (no pneumatic conveyance) | 1.4408, 1.4469 investment casting, super duplex | AB/P SBR | |

