

# CENTERLINE

## Butterfly Valves Series VIA/RS



**CRANE**®

# CENTERLINE Butterfly Valves

## Series VIA/RS

### The preferred Industrial Valves for Critical Applications and Processes

#### Areas of application:

CENTERLINE Butterfly Valves Series VIA/RS are reliable, maintenance-free shutoff and control valves with permanently gas-tight seal. This valve has proved itself as a leakage-free and corrosion-resistant valve in various applications under most difficult operating conditions.

The safety and reliability of a valve is especially important when used for aggressive media – all components within the CENTERLINE Butterfly Valves Series VIA/RS have been designed accordingly.

#### Product features:

- Concentric design
- Soft seat design
- No pins needed to attach the disc to the shaft, only 2 parts in contact with the medium
- Replaceable body lining with firm back-up ring
- Permanently tight closure
- Optimum operation under vacuum conditions
- Standardized head flange for actuator adaption
- Materials for almost all media
- Short face-to-face dimension
- Maintenance-free version
- Blow-out proof shaft
- Direct mounting of actuators without any additional brackets

Over 70,000 Butterfly Valves Series VIA/RS are installed in 60 power generation sites and many sugar refineries worldwide. Used on the most arduous conditions, this is proof of the Series VIA/RS durability and reliability when in operation.

#### Main areas of application:

- Paper industry
- Sugar industry
- Power generation plants
- Chemical and petrochemical industry
- Steel industry
- Automotive industry
- Energy supply
- Shipbuilding industry
- Breweries
- Cement plants

#### Applications:

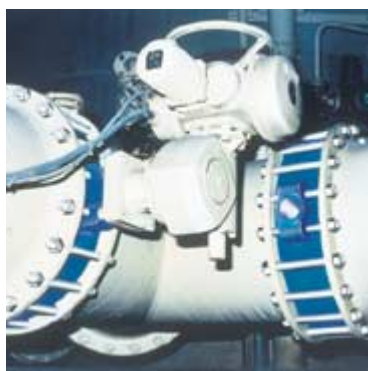
- Hot and cooling water
- Air-conditioning systems
- Drinking water systems
- Flue-gas desulphurisation
- Compressed air systems
- Vacuum systems
- Purification plants
- Sewage treatment plants
- Gas systems





**Technical data:**

- DN 40 – 1200
- PN 6, 10, 16, ANSI 150
- Temperature range from -34°C (-29°F) to +150°C (+302°F)
- Tightness in accordance with DIN 3230-T3, leakage rate 1
- Face-to-face dimension in accordance with EN 558-1, series 20
- Mounting flange in accordance with ISO 5211
- Shaft end DN 50 – 300 with square in accordance with DIN 3337
- Insulation in accordance with heating system regulation possible
- DVGW – gas approval
- Quality assurance in accordance with ISO 9001





# Design features

## Corrosion resistance

With CENTERLINE Butterfly Valves Series VIA/RS only 2 parts of the valve come into contact with the medium. This means that neither the body nor mechanical parts such as the shaft are subject to the danger of corrosion.

The only two parts in contact with the medium are the body lining and the disc. These are available in a selection of materials so that a suitable corrosion resistant combination can be chosen for almost any application.

## Permanently tight closure

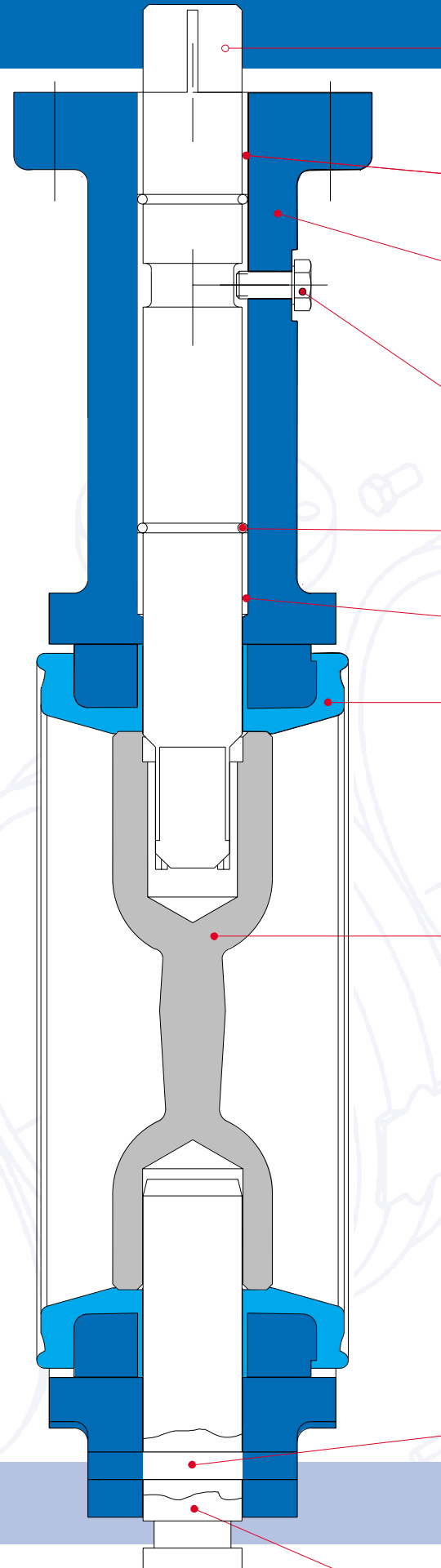
CENTERLINE Butterfly Valves seal absolutely liquid and gas-tight in both flow directions due to their centric design.

The disc presses with a defined, uniform compression into the elastic body lining over the entire circumference of 360°. The power transmission between shaft and disc is accomplished by a square and enables axial movement and automatic centering of the disc. Excess stress and wear of the elastomer are avoided.

## Elastic body lining

The replaceable body lining consists of a reinforced back-up ring, on which the elastic seat material is vulcanized. When mounting the valve between the pipe flanges this stable seat cannot be displaced or pushed out. When the valve closes a stretching and bulging of the elastomer in front of the closing disc is avoided.

The fixed connection between elastomer and back-up ring enables the application of the valve even under vacuum or high flow velocities. The slightly protruding sealing lip of the body lining constitutes at the same time the flange seal.



1

2

3

4

5

2

6

7

- 1 Shaft
- 2 Bearing bush
- 3 Body
- 4 Shaft lock
- 5 Citclip
- 6 Body lining  
(with vulcanized back-up ring)
- 7 Disc
- 8 Dowelling
- 9 Lower Stem

8

9



### Maintenance-free operation

The shafts of the CENTERLINE Butterfly Valves Series VIA/RS are mounted in self-lubricating DU bearing bushes so that there is no need for maintenance even after a long operating period.

### Shaft lock

All CENTERLINE Butterfly Valves Series VIA/RS feature a lock at the valve neck avoiding a blowing-out of the shaft during the valves operations life.

### Actuator mounting

All CENTERLINE Butterfly Valves Series VIA/RS feature a mounting in accordance with ISO 5211 for the mounting of hand lever, gear, pneumatic REVO or other automatic actuators.

A conversion – even during operation – from manual to automatic actuator and reverse is possible without any difficulties.

### Actuator adaptation

CENTERLINE Butterfly Valves Series VIA/RS are available for 3 closing pressures (operating pressures) – 3.5 bar (51 psi), 10 bar (145 psi) and 16 bar (232 psi). The actuator size can be selected individually against the pipeline pressure available, so that with lower pipeline pressures even smaller actuators can be utilised due to the lower torque's.



# Versions available

With the proven modular system, CENTERLINE Butterfly Valves Series VIA/RS can be directly equipped with a variety of actuators. Available ex stock, various manual actuators together with those from the REVO pneumatic range can be fitted and assembled quickly to meet your needs. A number of accessories including three way version and shaft extensions are also available. Contact your local stockist for more information.



**Wafer body  
with centering lugs**

DN 50 - 300  
PN 6, 10, 16  
ANSI 150

**Wafer body**

DN 50 - 600  
PN 6, 10, 16  
ANSI 150

**Lug-type body**

DN 50 - 600  
PN 6, 10, 16  
ANSI 150

# Standards considered



**Lug-type body**  
**Flange body**

DN 700 - 1200  
PN 10, 16  
MSS-SP44

|                         |                                                                                                            |
|-------------------------|------------------------------------------------------------------------------------------------------------|
| Design:                 | EN 593                                                                                                     |
| Face-to-face dimension: | EN 558-1, Series 20<br>(previously DIN 3202-K1)<br>ISO 5752-short                                          |
| Head flange:            | ISO 5211                                                                                                   |
| Shaft end:              | DIN 3337-square<br>(only for DN 40-300)                                                                    |
| Flange connection:      | EN 1092-1,<br>EN 1759-1,<br>ANSI B16.5, Class 150<br>MSS-SP 44                                             |
| Testing:                | DIN 3230-T3, leakage rate 1                                                                                |
| Identification:         | EN 19<br>MSS SP-25<br>CE in accordance<br>with PED 97/23 EG                                                |
| Quality assurance:      | ISO 9001                                                                                                   |
| Approvals:              | DVGW<br>Lloyds Register<br>Det Norske Veritas<br>American Bureau of Shipping<br>Leybold Systems Vakuumtest |





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We reserve the right for all technical modifications



# CENTERLINE-Butterfly Valves Series VIA/RS

## Model Numbers DN 40-1200

RS/DB-0002-GB/09.01/GP

| <u>A</u> | <u>M</u> | <u>G</u> | <u>D</u> | <u>1</u> | <u>E</u> | <u>1</u> | <u>0</u> | <u>0</u> | <u>H</u> |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 1        | 2        | 3        | 4        | 5        | 6        | 7        | 8        | 9        | 10       |

### 1. Series:

A = Series VIA/RS

### 2. Size:

|                |                |
|----------------|----------------|
| G = 040 (1,5") | U = 350 (14")  |
| H = 050 (2")   | V = 400 (16")  |
| K = 065 (2,5") | W = 450 (18")  |
| L = 080 (3")   | X = 500 (20")  |
| M = 100 (4")   | Y = 600 (24")  |
| N = 125 (5")   | Z = 700 (28")  |
| P = 150 (6")   | 2 = 800 (32")  |
| R = 200 (8")   | 3 = 900 (36")  |
| S = 250 (10")  | 4 = 1000 (40") |
| T = 300 (12")  | 7 = 1200 (48") |

### 3. Disc Material and Shutoff Pressure:

|                                                             |         |
|-------------------------------------------------------------|---------|
| B = Stainless steel <sup>6)</sup>                           | 3,5 bar |
| G = Stainless steel                                         | 10 bar  |
| S = Stainless steel                                         | 16 bar  |
| C = Ductile iron, nickel-plated <sup>2)</sup> <sup>6)</sup> | 3,5 bar |
| H = Ductile iron, nickel-plated <sup>2)</sup>               | 10 bar  |
| T = Ductile iron, nickel-plated <sup>2)</sup>               | 16 bar  |
| A = Aluminium bronze <sup>6)</sup>                          | 3,5 bar |
| F = Aluminium bronze                                        | 10 bar  |
| R = Aluminium bronze                                        | 16 bar  |
| K = ECTFE, coated                                           | 10 bar  |
| L = Rilsan, coated <sup>2)</sup>                            | 10 bar  |
| P = Hostalen-GUR <sup>3)</sup>                              | 10 bar  |
| N = Duplex                                                  | 10 bar  |
| M = Hastelloy                                               | 10 bar  |

### 4. Pressure Class:

| Body Design                          | DN<br>PN   | 40-<br>150 | 200-<br>450 | 500-<br>600 | 700-<br>1200 |
|--------------------------------------|------------|------------|-------------|-------------|--------------|
| Wafer body                           | PN 6*      | A          | A           | -           | -            |
|                                      | PN 10      | -          | -           | B           | -            |
|                                      | PN 16      | -          | -           | C           | -            |
|                                      | PN 10/16   | D          | D           | -           | -            |
|                                      | ANSI 150** | N          | N           | N           | -            |
|                                      | MSS-SP 44  | -          | -           | -           | -            |
| Lug-type<br>body/<br>Flanged<br>body | PN10       | -          | B           | B           | B            |
|                                      | PN16       | -          | C           | C           | C            |
|                                      | PN 10/16   | D          | -           | -           | -            |
|                                      | ANSI 150** | N          | N           | N           | -            |
|                                      | MSS-SP 44  | -          | -           | -           | S            |

\* DN50-300 only GG

\*\* not DN40

<sup>1)</sup> further versions available on request

<sup>2)</sup> not DN40-150

<sup>3)</sup> only DN50-800

<sup>4)</sup> Registered trademark or trade name

<sup>5)</sup> with centering lugs, not DN40

<sup>6)</sup> not DN50-80

### 5. Body Design / Material:

|                                    |                   |
|------------------------------------|-------------------|
| 1 = Wafer body GGG40               | (only DN40-600)   |
| 2 = Wafer body GG25 <sup>*5)</sup> | (only DN40-300)   |
| 5 = Lug body GGG40                 |                   |
| 7 = Lug body GS-C25                | (only DN40-600)   |
| 8 = Flanged body GGG40             | (only DN700-1200) |

### 6. Body Liner Material:

|     |                              |
|-----|------------------------------|
| B = | NBR (Buna-N <sup>4)</sup> )  |
| C = | HNBR (only DN40-600)         |
| E = | EPDM                         |
| F = | EPDM-H with KTW-approval     |
| H = | CSM (Hypalon <sup>4)</sup> ) |
| V = | FPM (Viton <sup>4)</sup> )   |

### 7. Shaft Material:

|     |                     |
|-----|---------------------|
| 1 = | Cr steel (standard) |
| 2 = | CrNi steel          |

### 8. + 9. Design <sup>1)</sup>:

|      |                                                                                                                                                                     |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 00 = | Standard                                                                                                                                                            |
| UD = | Pressure and leak test BA/BN acc. to DIN 3230-T3 as well as material certification for body approved acc. to EN 10204- 3.1B                                         |
| UG = | Pressure and leak test BA/BN acc. to DIN 3230-T3 as well as material certification for body approved acc. to EN 10204- 3.1B as well as separate KKS head flange tag |

### 10. Actuation <sup>1)</sup>:

|     |                                       |
|-----|---------------------------------------|
| F = | bare shaft                            |
| G = | Gear operator with hand wheel         |
| H = | 10 pos. hand lever (only up to DN200) |

Each CENTERLINE Butterfly Valve Series VIA/RS has a name plate with the model number stamped on. This number is complete to such an extent that it specifies each detail of the valve. It can be taken from the model numbering system above.

#### Ordering example:

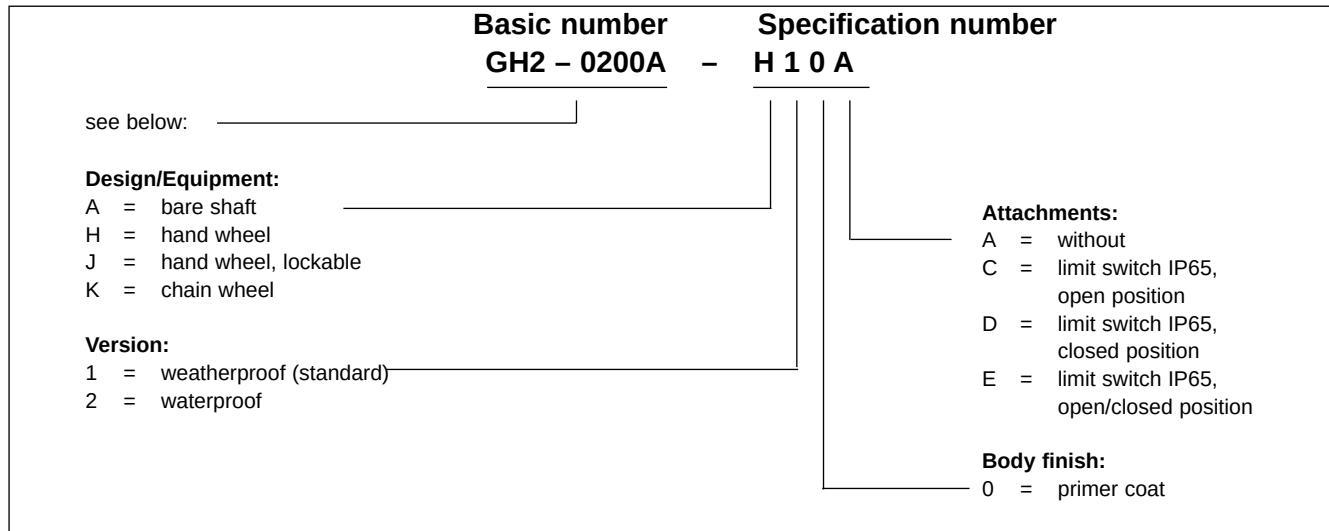
CENTERLINE Butterfly Valve Series VIA/RS, DN 100, PN10/16, shutoff pressure of 10 bar, wafer body GGG40, shaft made of Cr steel, stainless steel disc, body liner EPDM, with 10 pos. hand lever

**Modell Number: AMGD1E100H**

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# Model Numbers for Gear Operators

The model number of the gear operator is composed of a basic number and a specification number. The basic number is to be taken from the table below. The specification number is based on the following code:



## Basic numbers for gear operators

| CENTERLINE Valve Series VIA/RS |                         | Gear Operator | CENTERLINE Valve Series VIA/RS |                  | Gear Operator |
|--------------------------------|-------------------------|---------------|--------------------------------|------------------|---------------|
| DN                             | Shutoff pressure        | Basic number  | DN                             | Shutoff pressure | Basic number  |
| 40-100                         | 3,5 bar, 10 bar, 16 bar | GH2-0100A-    | 700                            | 3,5 bar, 10 bar  | GH2-0700B-    |
| 125-200                        | 3,5 bar, 10 bar, 16 bar | GH2-0200A-    | 800                            | 16 bar           | GH2-0800A-    |
| 250-300                        | 16 bar                  | GH2-0300A-    |                                | 10 bar           | GH2-0800B-    |
|                                | 3,5 bar, 10 bar,        | GH2-0300B-    |                                | 3,5 bar          | GH2-0800C-    |
| 350-400                        | 3,5 bar, 10 bar, 16 bar | GH2-0500B-    | 900                            | 16 bar           | GH2-0900A-    |
| 450-500                        | 16 bar                  | GH2-0500A-    |                                | 10 bar           | GH2-0900B-    |
|                                | 3,5 bar, 10 bar         | GH2-0500B-    |                                | 3,5 bar          | GH2-0900C-    |
| 600                            | 16 bar                  | GH2-0600A-    | 1000                           | 3,5 bar, 10 bar  | GH2-1000A-    |
|                                | 3,5 bar, 10 bar         | GH2-0600B-    | 1200                           | 3,5 bar, 10 bar  | GH2-1200B-    |
| 700                            | 16 bar                  | GH2-0700A-    |                                |                  |               |

## Selection table hand lever/gear operator

The following table is a recommendation

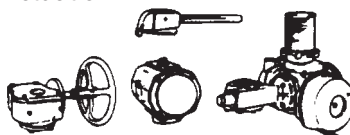
| Shutoff pressure | 40-125                                                                                                                                                                                                                  | 150 | DN 200 | 250 | 300-1200 |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|--------|-----|----------|
| 16 bar           | <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border-bottom: 1px solid black; width: 40%;"></div> <div style="border-bottom: 1px solid black; width: 40%;"></div> </div> |     |        |     |          |
| 10 bar           |                                                                                                                                                                                                                         |     |        |     |          |
| 3,5 bar          |                                                                                                                                                                                                                         |     |        |     |          |

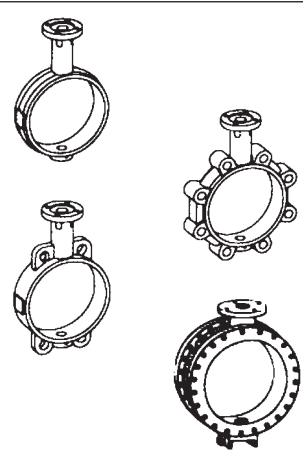
Hand lever up to DN200, gear operator available from DN40 on

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# CENTERLINE-Butterfly Valves Series RS

## Possible Combinations

| Component                                                                           | Version                           | DN       | Material                        |
|-------------------------------------------------------------------------------------|-----------------------------------|----------|---------------------------------|
|    | Hand lever, 10 positions          | 40-200   | -                               |
|                                                                                     | Hand lever, infinitely adjustable | 40-200   | -                               |
|                                                                                     | Gear operator                     | 40-1200  | -                               |
|                                                                                     | Pneumatic Revo actuator           | 40-1200  | -                               |
|                                                                                     | Hydraulic actuator                | 40-1200  | -                               |
|                                                                                     | Electric actuator                 | 40-1200  | -                               |
|    | -                                 | 40-1200  | Chromium steel                  |
|                                                                                     |                                   | 40-1200  | Stainless steel                 |
|    | -                                 | 40-1200  | NBR                             |
|                                                                                     |                                   | 40-1200  | HNBR                            |
|                                                                                     |                                   | 40-1200  | EPDM                            |
|                                                                                     |                                   | 40-1200  | FPM                             |
|                                                                                     |                                   | 40-600   | CSM                             |
|                                                                                     |                                   | 40-1200  | EPDM-H                          |
|   | -                                 | 200-600  | Ductile iron, nickel-plated     |
|                                                                                     |                                   | 40-1200  | Stainless steel                 |
|                                                                                     |                                   | 40-700   | Aluminium bronze                |
|                                                                                     |                                   | 200-1200 | GGG-Rilsan coated <sup>1)</sup> |
|                                                                                     |                                   | 40-1200  | GGG-ECTFE coated <sup>1)</sup>  |
|                                                                                     |                                   | 40-600   | Hastelloy-C <sup>1) 2)</sup>    |
|                                                                                     |                                   | 700-1200 | Hastelloy-C22C <sup>1) 2)</sup> |
|                                                                                     |                                   | 40-1200  | Super Duplex <sup>1)</sup>      |
|  | -                                 | 40-1200  | Chromium steel                  |
|                                                                                     |                                   | 40-700   | Stainless steel                 |

| Body                                                                                | Version                               | Material            | DN 40-300                              | DN 350-600                             | DN 700-900          | DN 1000-1200  |
|-------------------------------------------------------------------------------------|---------------------------------------|---------------------|----------------------------------------|----------------------------------------|---------------------|---------------|
|  | <b>Wafer body</b>                     | GGG-40              | PN 10/16/ANSI 150                      | PN 10/16/ANSI 150                      | -                   | -             |
|                                                                                     | <b>Lug body <sup>4)</sup></b>         | GGG-40<br>GS-C25    | PN 10/16/ANSI 150<br>PN 10/16/ANSI 150 | PN 10/16/ANSI 150<br>PN 10/16/ANSI 150 | PN 16/MSS-SP44<br>- | MSS-SP44<br>- |
|                                                                                     | <b>Wafer body with centering lugs</b> | GG 25 <sup>3)</sup> | PN 6/10/16                             | -                                      | -                   | -             |
|                                                                                     | <b>Flanged body</b>                   | GGG 40              | -                                      | -                                      | PN 10               | PN 10/16      |

<sup>1)</sup> only for shutoff pressure of 10 bar

<sup>2)</sup> or equivalent

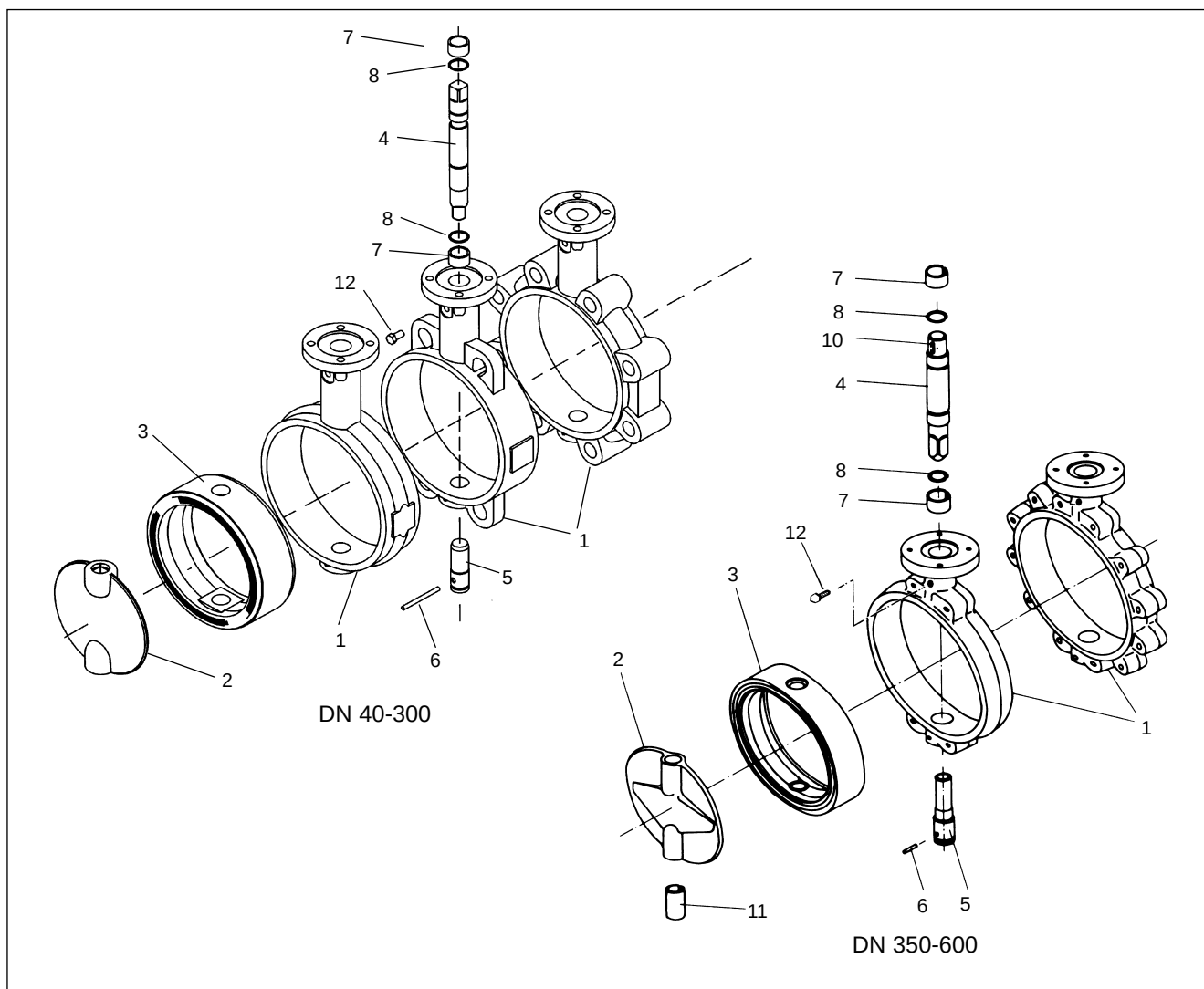
<sup>3)</sup> DN 40 only wafer body, not PN 6

<sup>4)</sup> Through hole thread

# CENTERLINE-Butterfly Valves Series VIA/RS

## Material Selection DN 40-600

RS/DB-0004-GB/10.01/GP



|                                      | Component             | Material specification                                   | Material no.                 |
|--------------------------------------|-----------------------|----------------------------------------------------------|------------------------------|
| Parts not in contact with the medium | Body (1)              | EN-GJL-250 <sup>1)</sup><br>EN-GJS-400-15<br>GP 240 GH   | JL-1040<br>JS-1030<br>1.0619 |
|                                      | Shaft (4) and Pin (5) | Chromium steel X20Cr13<br>Stainless steel X5CrNiMo 18/10 | 1.4021<br>1.4401             |
|                                      | Roll pin (6)          | Spring steel, galvanized                                 |                              |
|                                      | Bushing (7)           | DU/ plastics <sup>2)</sup>                               |                              |
|                                      | Retaining ring (8)    | Spring steel, galvanized                                 |                              |
|                                      | Key (10)              | Steel                                                    |                              |
|                                      | Bushing (11)          | Bronze                                                   |                              |
|                                      | Screw (12)            | Galvanized steel                                         |                              |

<sup>1)</sup> only wafer body with centering lugs (DN50-300) <sup>2)</sup> according to the manufacturer's choice



|                                         | Component      | Material specification                                                                          | Material no.     | Temperature range                                             |
|-----------------------------------------|----------------|-------------------------------------------------------------------------------------------------|------------------|---------------------------------------------------------------|
| <b>Parts in contact with the medium</b> | Disc (2)       | Ductile iron, nickel-plated GGG-40-gal Ni <sup>1)</sup>                                         | JS-1030          | -10 °C, top temperature limited by body liner                 |
|                                         |                | Ductile iron, VIADUR-coated <sup>1)</sup>                                                       | JS-1030          | -10 °C bis +80 °C                                             |
|                                         |                | Ductile iron, ECTFE-coated                                                                      | JS-1030          | -10 °C, top temperature limited by body liner                 |
|                                         |                | Ductile iron, Hostalen Gur lined                                                                | UHMWPE           | -10 °C bis +70 °C                                             |
|                                         |                | Aluminium bronze G-CuAl 10Ni                                                                    | 2.0975.01        | limited by body liner                                         |
|                                         |                | Stainless steel, according to manufacturer's choice<br>G-X5CrNiMo 19-11-2<br>G-X5CrNiMoNb 18/10 | 1.4408<br>1.4581 | limited by body liner                                         |
|                                         |                | Duplex steel<br>G-X2CrNiMoCuN 27 77 43                                                          | 9.4517           | limited by body liner                                         |
|                                         |                | Hastelloy C*<br>G-NiMo16Cr                                                                      | 2.4883           | limited by body liner                                         |
|                                         | Body liner (3) | EPDM<br>(ethylene-propylene-terpolymer)                                                         |                  | -34 °C to +120 °C                                             |
|                                         |                | EPDM-H<br>(ethylene-propylene-terpolymer)                                                       |                  | -34 °C to +140 °C<br>(with KTW-approval)                      |
|                                         |                | NBR (perbunane)<br>(copolymer of acrylonitrile-butadiene rubber)                                |                  | -20 °C to +80 °C<br>(up to 100°C with intermittend operation) |
|                                         |                | HNBR<br>(hydrogenated acrylonitrile-butadiene rubber)                                           |                  | -20 °C to +120 °C                                             |
|                                         |                | FPM (Viton)*<br>(copolymer of vinyl fluoride)                                                   |                  | -5 °C to +150 °C                                              |
|                                         |                | CSM (Hypalon)<br>(chlorine-sulfonated polyethylene)                                             |                  | -20 °C to +80 °C<br>(up to 100°C with intermittend operation) |

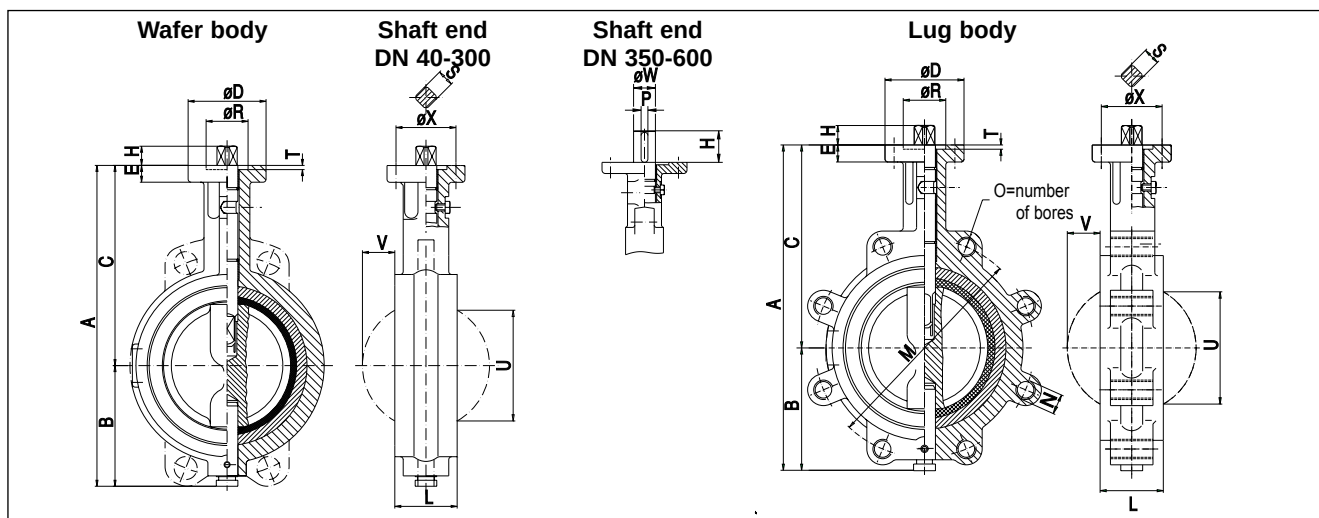
\* or equivalent

<sup>1)</sup> only DN 200-600

# CENTERLINE-Butterfly Valves Series VIA/RS

## Dimensions/ Weights DN 40-600

RS/DB-0006-GB/10.01/GP



### Dimensions in mm, bare shaft

| Mea-<br>sure-<br>ment | Pressure<br>class | Size                    |           |           |          |           |            |           |           |              |            |              |            |            |            |                        |
|-----------------------|-------------------|-------------------------|-----------|-----------|----------|-----------|------------|-----------|-----------|--------------|------------|--------------|------------|------------|------------|------------------------|
|                       |                   | 40 <sup>3)</sup><br>1½" | 50<br>2"  | 65<br>2½" | 80<br>3" | 100<br>4" | 125<br>5"  | 150<br>6" | 200<br>8" | 250<br>10"   | 300<br>12" | 350<br>14"   | 400<br>16" | 450<br>18" | 500<br>20" | 600<br>24"             |
| A <sup>1)</sup>       |                   | 202                     | 202       | 225       | 240      | 268       | 292        | 320       | 386       | 462          | 542        | 627          | 677        | 743        | 793        | 934                    |
| A <sup>2)</sup>       |                   | 202                     | 202       | 225       | 251      | 286       | 314        | 342       | 401       | 462          | 542        | -            | -          | -          | -          | -                      |
| B                     |                   | 72                      | 72        | 79        | 86       | 101       | 112        | 125       | 156       | 192          | 242        | 277          | 302        | 341        | 366        | 424                    |
| C <sup>1)</sup>       |                   | 130                     | 130       | 146       | 154      | 167       | 180        | 195       | 230       | 270          | 300        | 350          | 375        | 402        | 427        | 510                    |
| C <sup>2)</sup>       |                   | 130                     | 130       | 146       | 165      | 185       | 202        | 217       | 245       | 270          | 300        | -            | -          | -          | -          | -                      |
| D <sup>4)</sup>       |                   | 65                      |           |           |          |           | 90         |           |           | 125          |            | 175          |            |            |            | 210                    |
| E <sup>4)</sup>       |                   | 14                      |           |           |          |           | 15         |           |           | 18           |            | 23           |            |            |            | 25                     |
| H <sup>4)</sup>       |                   | 16                      |           |           |          |           | 19         |           |           | 24           |            | 65           |            |            |            | 80                     |
| L <sup>4)</sup>       |                   | 43                      | 43        | 46        |          | 52        | 56         |           | 60        | 68           | 78         | 78           | 102        | 114        | 127        | 154                    |
| M                     | PN 10             | 110                     | 125       | 145       | 160      | 180       | 210        | 240       | 295       | 350          | 400        | 460          | 515        | 565        | 620        | 725                    |
| M                     | PN 16             | 110                     | 125       | 145       | 160      | 180       | 210        | 240       | 295       | 355          | 410        | 470          | 525        | 585        | 650        | 770                    |
| M                     | ANSI 150          | -                       | 120,7     | 139,7     | 152,4    | 190,5     | 215,9      | 241,3     | 298,5     | 362          | 431,3      | 476,3        | 539,8      | 577,9      | 635        | 749,3                  |
| N                     | PN 10             | M 16                    |           |           |          |           |            | M 20      |           | M 20         |            |              | M 24       |            |            | M 27                   |
| N                     | PN 16             | M 16                    |           |           |          |           |            | M 20      |           | M 24         |            |              | M 27       |            | M 30       | M 33                   |
| N                     | ANSI 150          | -                       | ⅝"-11 UNC |           |          |           | ¾"-10 UNC  |           |           | ⅞"-9 UNC     |            | 1"-8 UNC     |            | 1⅛"-7 UNC  |            | 1¼"-7<br>UNC           |
| O                     | PN 10             | 4                       |           |           | 8        |           |            | 8         |           | 12           |            | 16           |            | 20         |            |                        |
| O                     | PN 16             | 4                       |           |           | 8        |           |            | 12        |           | 12           |            | 16           |            | 20         |            |                        |
| O                     | ANSI 150          | -                       | 4         |           |          | 8         |            |           | 12        |              |            | 16           |            | 20         |            |                        |
| P                     |                   | -                       |           |           |          |           |            |           |           |              |            | 14           |            |            |            | 20                     |
| R                     |                   | Ø35                     |           |           |          |           | Ø55        |           |           | Ø70          |            | Ø100         |            |            |            | Ø130                   |
| S <sup>4)</sup>       |                   | □14-0,1                 |           |           |          |           | □17-0,1    |           |           | □22-0,1      |            | -            |            |            |            |                        |
| T                     |                   | 3,5                     |           |           |          |           |            |           |           |              |            | 5            |            |            |            | 7                      |
| U                     |                   | 39                      | 39        | 56        | 71       | 93        | 117        | 144       | 191       | 240          | 291        | 327          | 371        | 423        | 472        | 575                    |
| V                     |                   | 7                       | 7         | 13        | 19       | 27        | 37         | 49        | 70        | 90           | 111        | 129          | 141        | 162        | 181        | 221                    |
| W                     |                   | -                       |           |           |          |           |            |           |           |              |            | Ø45          |            |            |            | Ø70                    |
| X                     |                   | Ø50/4 x Ø7              |           |           |          |           | Ø70/4 x Ø9 |           |           | Ø102/4 x Ø11 |            | Ø140/4 x Ø18 |            |            |            | Ø165/4<br>x Ø22<br>F16 |
|                       |                   | F05                     |           |           |          |           | F07        |           |           | F10          |            | F14          |            |            |            |                        |

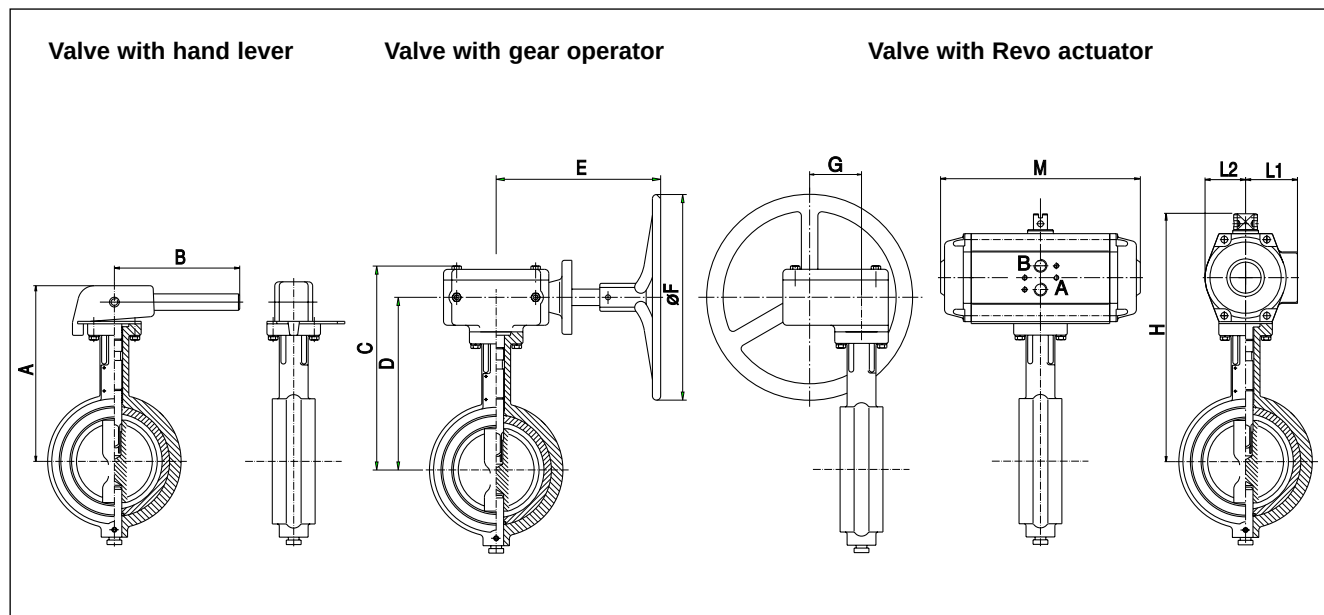
<sup>1)</sup> Body made of GGG/GS-C <sup>2)</sup> Body made of GG <sup>3)</sup> Inner parts DN 50 <sup>4)</sup> Dimensions in accordance with DIN/ISO

### Weights in kg

| Bare shaft<br>valve | Size |     |     |     |     |      |      |      |      |      |     |     |     |     |     |  |
|---------------------|------|-----|-----|-----|-----|------|------|------|------|------|-----|-----|-----|-----|-----|--|
|                     | 40   | 50  | 65  | 80  | 100 | 125  | 150  | 200  | 250  | 300  | 350 | 400 | 450 | 500 | 600 |  |
| Wafer body*         | 2,2  | 2,2 | 2,8 | 3,4 | 4,7 | 6,8  | 7,6  | 11,5 | 19,6 | 31,2 | 50  | 72  | 92  | 111 | 195 |  |
| Lug body            | 3,4  | 3,4 | 4,0 | 4,8 | 6,9 | 10,6 | 11,4 | 15,9 | 26,0 | 38,2 | 60  | 92  | 108 | 151 | 245 |  |

\* version with centering lugs made of GG25 up to DN300

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## Dimensions in mm\*, with actuations

| Measurement     | Size |     |     |       |     |     |     |     |     |     |     |     |     |     |     |
|-----------------|------|-----|-----|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                 | 40   | 50  | 65  | 80    | 100 | 125 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 600 |
| A <sup>1)</sup> | 181  | 181 | 197 | 205   | 218 | 231 | 246 | 281 | -   | -   | -   | -   | -   | -   | -   |
| A <sup>2)</sup> | 181  | 181 | 197 | 216   | 236 | 253 | 268 | 296 | -   | -   | -   | -   | -   | -   | -   |
| B               | 200  | 200 | 200 | 200   | 200 | 240 | 240 | 240 | -   | -   | -   | -   | -   | -   | -   |
| C <sup>1)</sup> | 206  | 206 | 222 | 230   | 243 | 256 | 271 | 306 | 346 | 376 | 437 | 462 | 489 | 514 | 616 |
| C <sup>2)</sup> | 206  | 206 | 222 | 241   | 261 | 278 | 293 | 321 | 346 | 376 | -   | -   | -   | -   | -   |
| D <sup>1)</sup> | 172  | 172 | 188 | 196   | 209 | 222 | 237 | 272 | 312 | 342 | 402 | 427 | 454 | 479 | 560 |
| D <sup>2)</sup> | 172  | 172 | 188 | 207   | 227 | 244 | 259 | 287 | 312 | 342 | -   | -   | -   | -   | -   |
| E               | 230  | 230 | 230 | 230   | 230 | 230 | 230 | 230 | 230 | 230 | 285 | 285 | 285 | 285 | 366 |
| F               | 200  | 200 | 200 | 200   | 200 | 250 | 250 | 250 | 250 | 250 | 400 | 400 | 400 | 400 | 610 |
| G               | 65   | 65  | 65  | 65    | 65  | 65  | 65  | 65  | 65  | 65  | 96  | 96  | 96  | 96  | 123 |
| H <sup>1)</sup> | 216  | 216 | 232 | 266,5 | 308 | 321 | 361 | 396 | 456 | 486 | 652 | 677 | 704 | 729 | 962 |
| H <sup>2)</sup> | 216  | 216 | 232 | 277,5 | 326 | 343 | 383 | 411 | 456 | 486 | -   | -   | -   | -   | -   |
| L1              | 38   | 38  | 38  | 52,5  | 67  | 67  | 79  | 79  | 94  | 94  | 135 | 135 | 135 | 135 | 211 |
| L2              | 33   | 33  | 33  | 41    | 55  | 55  | 67  | 67  | 78  | 78  | 119 | 119 | 119 | 119 | 211 |
| M               | 175  | 175 | 175 | 205   | 214 | 214 | 267 | 267 | 355 | 355 | 388 | 388 | 510 | 510 | 533 |

\* Dimensions apply to valves PN 10/16 Δ p 10 bar, Revo actuator, double-acting at 5 bar air supply

<sup>1)</sup> Body made of GGG/GS-C

<sup>2)</sup> Body made of GG

## Weights in kg\*\*

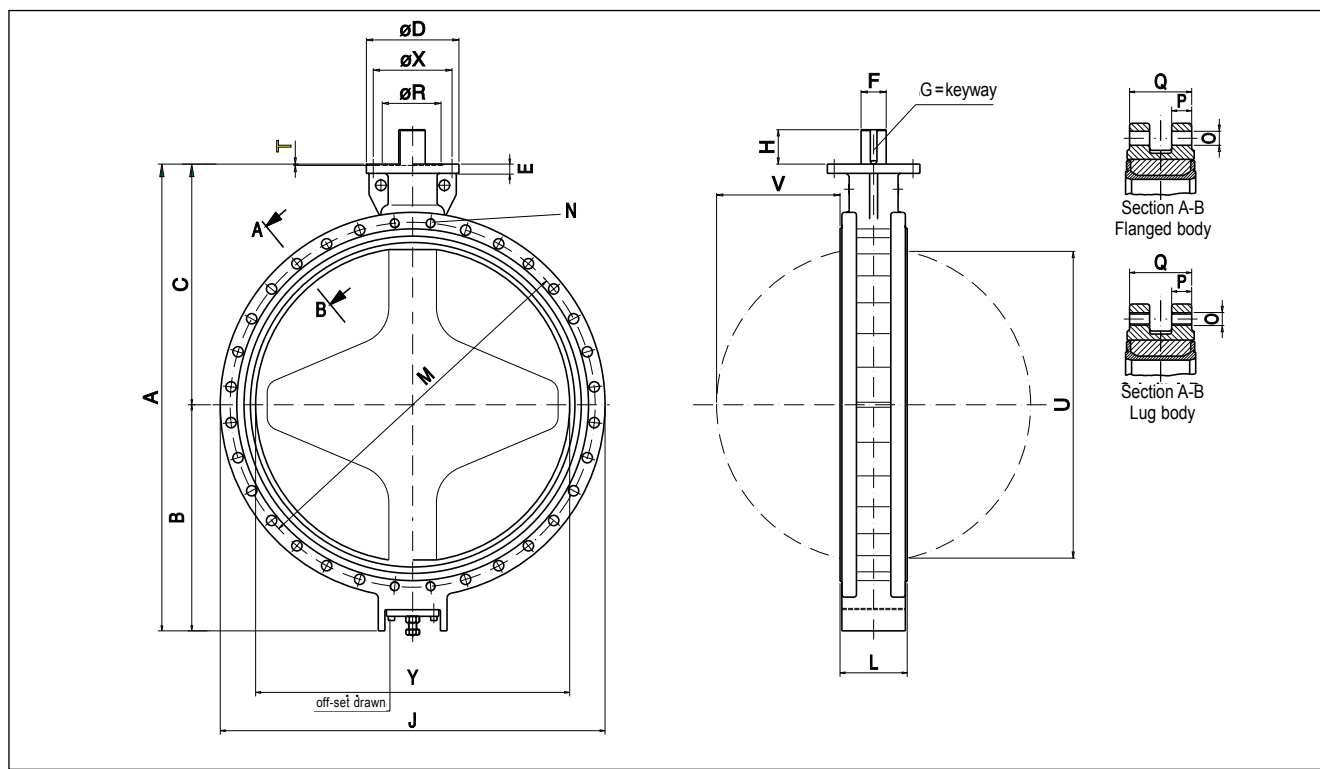
| Valve with    | Size |      |      |      |      |      |      |      |      |      |      |       |       |       |       |
|---------------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|
|               | 40   | 50   | 65   | 80   | 100  | 125  | 150  | 200  | 250  | 300  | 350  | 400   | 450   | 500   | 600   |
| Hand lever    | 3,8  | 3,8  | 4,4  | 4,6  | 5,9  | 8,5  | 9,5  | 13,6 | 24,5 | 35,9 | -    | -     | -     | -     | -     |
| Gear operator | 10,2 | 10,2 | 10,8 | 11,0 | 12,3 | 14,8 | 15,8 | 19,9 | 27,6 | 39,0 | 66,8 | 88,8  | 108,8 | 127,8 | 230,0 |
| Revo actuator | 4,3  | 4,3  | 4,9  | 5,6  | 8,1  | 10,6 | 11,4 | 19,4 | 31,2 | 43,2 | 76,0 | 104,0 | 129,0 | 148,0 | 318,0 |

\*\* Weights apply to valves with wafer body

**CRANE**<sup>®</sup>

# CENTERLINE-Butterfly Valves Series VIA/RS

## Dimensions/ Weights DN 700-1200



RS/DB-0007-GB/10.01/GP

### Dimensions in mm, bare shaft end

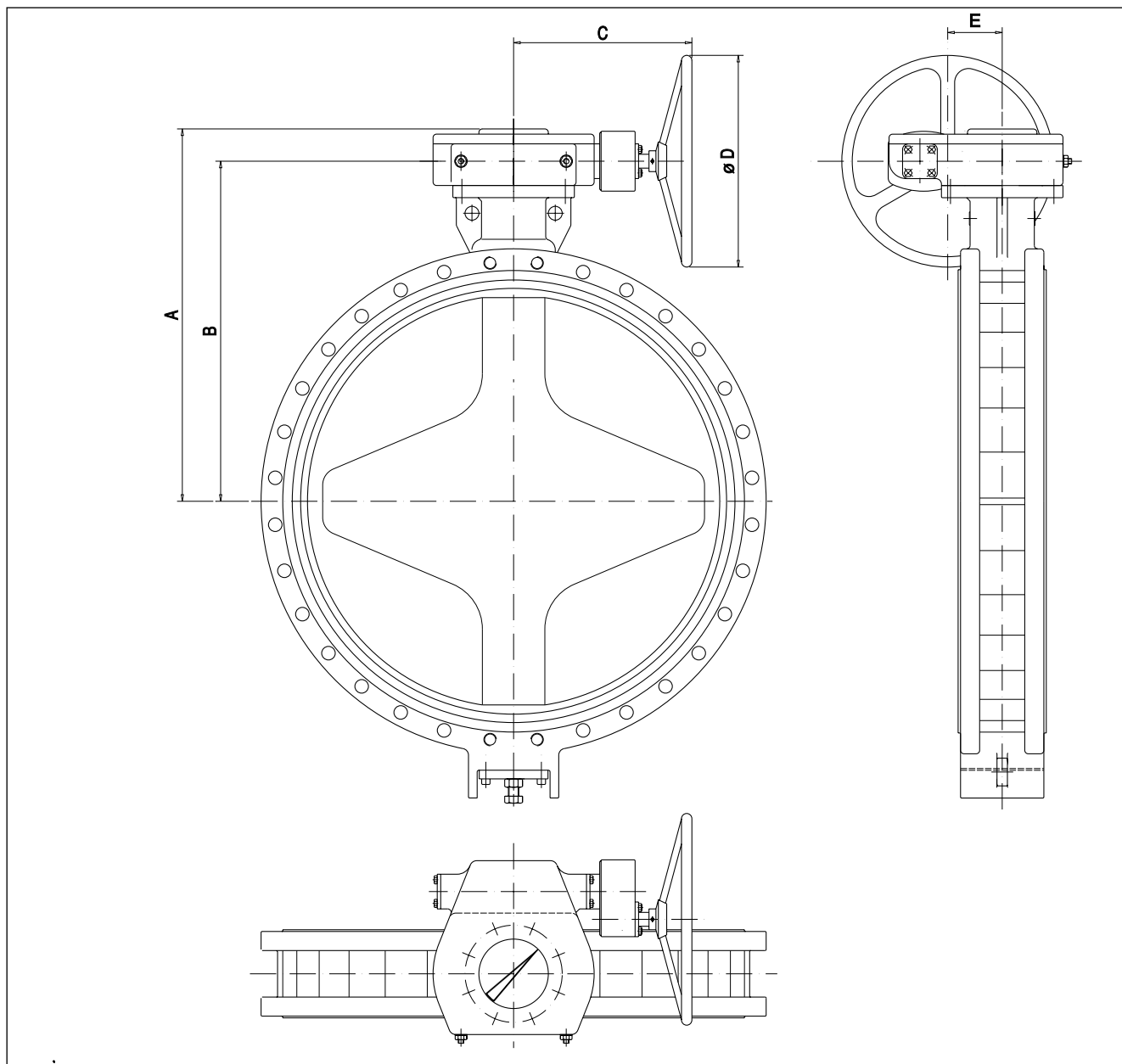
| Mea-<br>sure-<br>ment | Pressure-<br>class | 700<br>28"            | 800<br>32"      | 900<br>36"      | 1000<br>40"        | 1200<br>48"     |
|-----------------------|--------------------|-----------------------|-----------------|-----------------|--------------------|-----------------|
| A                     |                    | 1065                  | 1200            | 1330            | 1540               | 1765            |
| B                     |                    | 515                   | 580             | 640             | 750                | 855             |
| C                     |                    | 550                   | 620             | 690             | 790                | 910             |
| D <sup>3)</sup>       |                    | ø300                  |                 |                 | ø350               |                 |
| E                     |                    | 25                    |                 |                 | 35                 |                 |
| F                     |                    | ø70                   | ø75             | ø85             | ø90                | ø95             |
| G                     |                    | 20 x 115              | 20 x 115        | 22 x 115        | 25 x 130           | 25 x 130        |
| H                     |                    | 110                   |                 |                 | 130                |                 |
| J                     | PN10               | 910                   | 1025            | 1125            | 1230               | 1455            |
|                       | PN16               | 910                   | 1025            | 1125            | 1255               | 1485            |
| L <sup>3)</sup>       |                    | 165                   | 190             | 203             | 216                | 254             |
| M                     | PN10               | ø840                  | ø950            | ø1050           | ø1160              | ø1380           |
|                       | PN16               | ø840                  | ø950            | ø1050           | ø1170              | ø1390           |
| N                     | PN10               | 2x4xM27x35 deep       | 2x4xM30x43 deep | 2x4xM30x43 deep | 2x4xM33x48 deep    | 2x4xM36x48 deep |
|                       | PN16               | 2x4xM33x40 deep       | 2x4xM36x43 deep | 2x4xM36x43 deep | 2x4xM39x48 deep    | 2x4xM45x48 deep |
| O <sup>1)</sup>       | PN16               | 2 x 20 x M33          | 2 x 20 x M36    | 2 x 24 x M36    |                    |                 |
| O <sup>2)</sup>       | PN10               | 2 x 20 x ø30          | 2 x 20 x ø33    | 2 x 24 x ø33    | 2 x 24 x ø36       | 2 x 28 x ø39    |
|                       | PN16               | 2 x 20 x ø30          | 2 x 20 x ø33    | 2 x 24 x ø33    | 2 x 24 x ø42       | 2 x 28 x ø48    |
| R <sup>3)</sup>       |                    | ø200                  |                 |                 | ø230               |                 |
| T                     |                    | 5                     |                 |                 |                    |                 |
| U                     |                    | 669                   | 766             | 865             | 965                | 1160            |
| V                     |                    | 262                   | 300             | 343             | 387                | 467             |
| X                     |                    | ø254/8 x ø 17,5 (F25) |                 |                 | ø298/8 x ø 22(F30) |                 |
| Y                     |                    | 686                   | 786             | 885             | 986                | 1186            |
| P                     |                    | 45                    | 50              | 50              | 50                 | 55              |
| Q                     |                    | 155                   | 180             | 190             | 206                | 244             |

<sup>1)</sup> Lug body

<sup>2)</sup> Flanged body

<sup>3)</sup> Dimensions in accordance with DIN/ISO

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**Dimensions in mm, (valve with gear operator \*)**

| Measurement | 700<br>28" | 800<br>32" | Size<br>900<br>36" | 1000<br>40" | 1200<br>48" |
|-------------|------------|------------|--------------------|-------------|-------------|
| A           | 678        | 748        | 849                | 954         | 1074        |
| B           | 616        | 686        | 754                | 860         | 980         |
| C           | 497        | 497        | 529                | 551         | 551         |
| D           | 610        | 610        | 610                | 610         | 610         |
| E           | 138        | 138        | 181                | 237         | 237         |

\* for valves  $\Delta p$  10 bar

**Weights in kg**

| Measurement                             | 700<br>28" | 800<br>32" | Size<br>900<br>36" | 1000<br>40" | 1200<br>48" |
|-----------------------------------------|------------|------------|--------------------|-------------|-------------|
| flanged/lug body<br>bare shaft          | 450        | 550        | 700                | 900         | 1350        |
| flanged/ lug body<br>with gear operator | 515        | 615        | 808                | 1069        | 1519        |



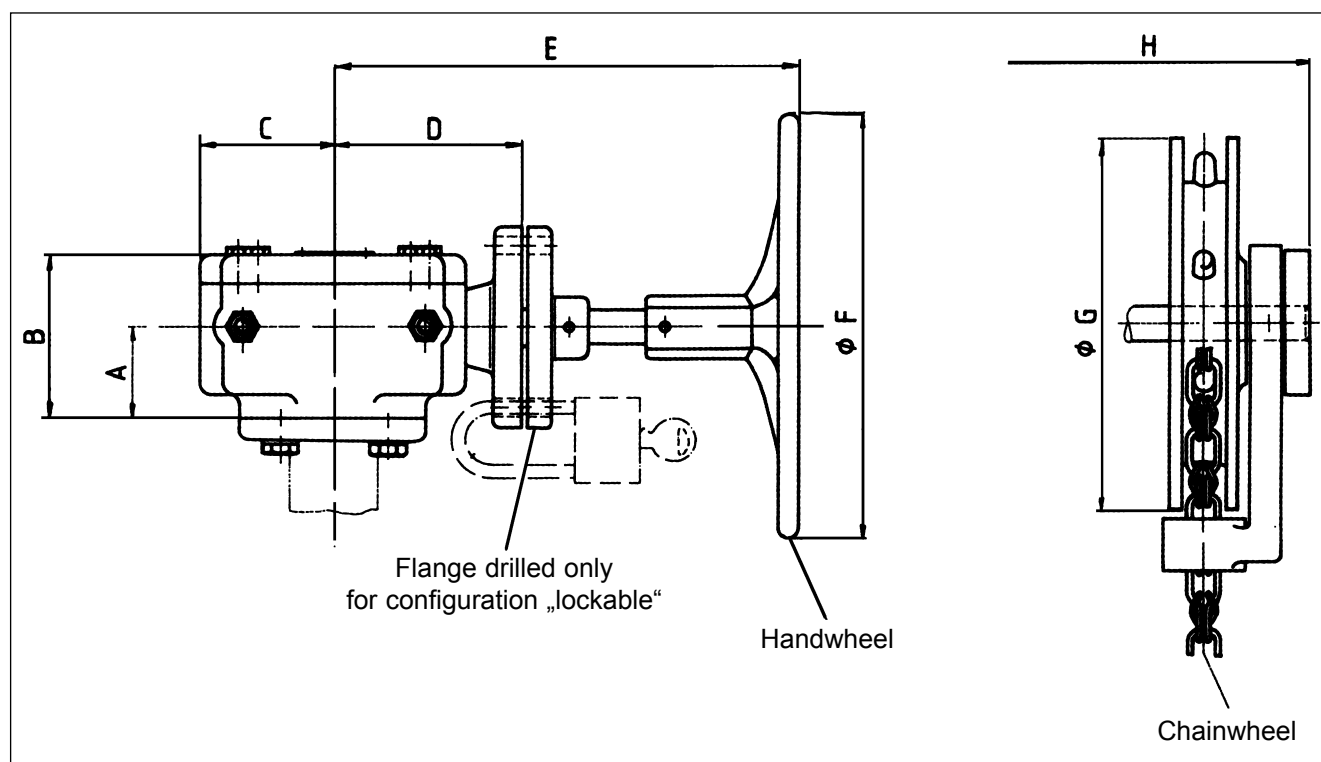
# CENTERLINE-Butterfly Valves Series VIA/RS

## Gear Operators for Butterfly Valves DN 40-1200

### Model Numbers and Weights

| Valve   |                      | Gear operator with handwheel |           | Gear operator with lockable handwheel |           | Gear operator with chainwheel |           |
|---------|----------------------|------------------------------|-----------|---------------------------------------|-----------|-------------------------------|-----------|
| DN      | Shutoff pressure bar | Model                        | Weight kg | Model                                 | Weight kg | Model                         | Weight kg |
| 40-100  | 3,5-16               | GH2-0100A-H10A               | 7,8       | GH2-0100A-J10A                        | 8,0       | GH2-0100A-K10A                | 7,7       |
| 125-200 | 3,5-16               | GH2-0200A-H10A               | 8,0       | GH2-0200A-J10A                        | 8,2       | GH2-0200A-K10A                | 7,7       |
| 250-300 | 3,5-10               | GH2-0300B-H10A               | 10,8      | GH2-0300B-J10A                        | 10,4      | GH2-0300B-K10A                | 7,7       |
| 250-300 | 16                   | GH2-0300A-H10A               | 19,6      | GH2-0300A-J10A                        | 19,8      | GH2-0300A-K10A                | 16,6      |
| 350-400 | 3,5-16               | GH2-0500B-H10A               | 16,8      | GH2-0500B-J10A                        | 17,4      | GH2-0500B-K10A                | 21,2      |
| 450-500 | 3,5-10               | GH2-0500B-H10A               | 16,8      | GH2-0100B-J10A                        | 17,4      | GH2-0500B-K10A                | 21,2      |

Article number for chain: 6104010. When ordering specify length.



### Dimensions

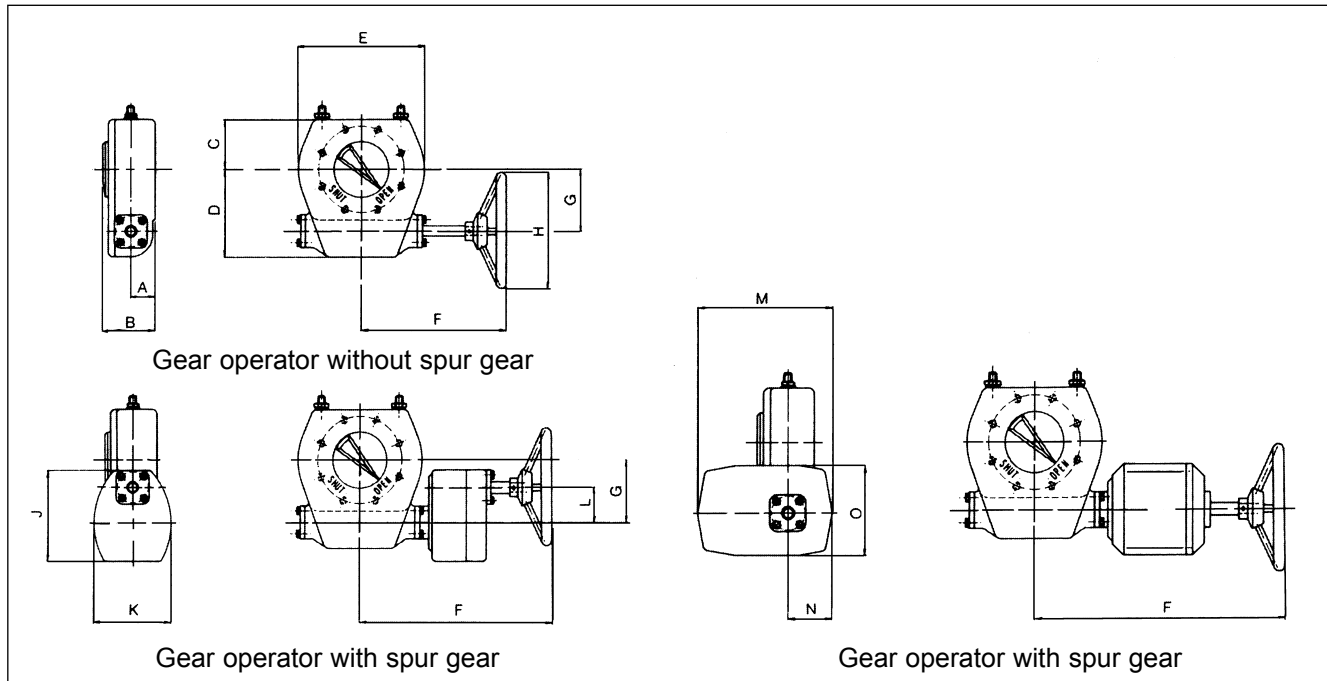
| Gear operator model | Handwheel turns for 90° | Dimensions in mm |    |     |     |     |     |     |     |     |    |    |
|---------------------|-------------------------|------------------|----|-----|-----|-----|-----|-----|-----|-----|----|----|
|                     |                         | A                | B  | C   | D   | E   | F   | G   | H   | K   | L  | M  |
| GH2-0100A           | 10                      | 42               | 76 | 64  | 92  | 230 | 200 | 265 | 184 | 184 | 65 | 45 |
| GH2-0200A           | 10                      | 42               | 76 | 64  | 92  | 230 | 250 | 265 | 184 | 184 | 65 | 45 |
| GH2-0300B           | 10                      | 42               | 76 | 64  | 92  | 230 | 250 | 265 | 184 | 184 | 65 | 45 |
| GH2-0300A           | 19                      | 52               | 87 | 100 | 134 | 282 | 400 | 365 | 212 | 242 | 96 | 64 |
| GH2-0500B           | 19                      | 52               | 87 | 100 | 134 | 282 | 400 | 365 | 212 | 242 | 96 | 64 |

RS/DB-0008-GB/02.03/GP

**CRANE**

## Model Numbers and Weights

| Valve   |                      | Gear operator with handwheel |           | Valve |                      | Gear operator with handwheel |           |
|---------|----------------------|------------------------------|-----------|-------|----------------------|------------------------------|-----------|
| DN      | Shutoff pressure bar | Model                        | Weight Kg | DN    | Shutoff pressure bar | Model                        | Weight kg |
| 450/500 | 16                   | GH2-0500A-H10A               | 32        | 800   | 16                   | GH2-0800A-H10A               | 169       |
| 600     | 3,5-10               | GH2-0600B-H10A               | 32        | 900   | 3,5                  | GH2-0900C-H10A               | 65        |
|         | 16                   | GH2-0600A-H10A               | 65        |       | 10                   | GH2-0900B-H10A               | 108       |
| 700     | 3,5-10               | GH2-0700B-H10A               | 65        |       | 16                   | GH2-0900A-H10A               | 169       |
|         | 16                   | GH2-0700A-H10A               | 108       | 1000  | 3,5-16               | GH2-1000A-H10A               | 169       |
| 800     | 3,5                  | GH2-0800C-H10A               | 65        | 1200  | 3,5-10               | GH2-1200B-H10A               | 169       |
|         | 10                   | GH2-0800B-H10A               | 65        |       | 16                   | GH2-1200A-H10A               | 262       |



## Dimensions

| Gear operator Model | Handwheel turns for 90° | Dimensions in mm |     |     |     |     |     |     |     |     |     |    |     |    |     |
|---------------------|-------------------------|------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|----|-----|
|                     |                         | A                | B   | C   | D   | E   | F   | G   | H   | J   | K   | L  | M   | N  | O   |
| GH2-0500A/0600B     | 17                      | 50               | 106 | 114 | 178 | 252 | 366 | 123 | 610 | -   | -   | -  | -   | -  | -   |
| GH2-0600A           | 43                      | 66               | 128 | 155 | 195 | 310 | 497 | 138 | 610 | 210 | 171 | 78 | -   | -  | -   |
| GH2-0700B           | 43                      | 66               | 128 | 155 | 195 | 310 | 497 | 138 | 610 | 210 | 171 | 78 | -   | -  | -   |
| GH2-0700A           | 63                      | 63,5             | 159 | 140 | 251 | 356 | 529 | 181 | 610 | 210 | 171 | 84 | -   | -  | -   |
| GH2-0800C           | 43                      | 66               | 128 | 175 | 195 | 310 | 497 | 138 | 610 | 210 | 171 | 78 | -   | -  | -   |
| GH2-0800B           | 45                      | 66               | 128 | 155 | 195 | 310 | 497 | 138 | 610 | 210 | 171 | 84 | -   | -  | -   |
| GH2-0800A           | 75                      | 70               | 164 | 175 | 326 | 463 | 551 | 237 | 610 | 210 | 171 | 84 | -   | -  | -   |
| GH2-0900C           | 45                      | 66               | 128 | 155 | 195 | 310 | 497 | 138 | 610 | 210 | 171 | 84 | -   | -  | -   |
| GH2-0900B           | 63                      | 63,5             | 159 | 140 | 251 | 356 | 529 | 181 | 610 | 210 | 171 | 84 | -   | -  | -   |
| GH2-0900A           | 75                      | 70               | 164 | 175 | 326 | 463 | 551 | 237 | 610 | 210 | 171 | 84 | -   | -  | -   |
| GH2-1000A           | 75                      | 70               | 164 | 175 | 326 | 463 | 551 | 237 | 610 | 210 | 171 | 84 | -   | -  | -   |
| GH2-1200B           | 75                      | 70               | 164 | 175 | 326 | 463 | 551 | 237 | 610 | 210 | 171 | 84 | -   | -  | -   |
| GH2-1200A           | 188                     | 83               | 175 | 178 | 400 | 565 | 655 | 292 | 610 | -   | -   | -  | 284 | 94 | 188 |

**CRANE**

# CENTERLINE-Butterfly Valves Series RS

## Spare parts DN 40-1200 Replaceable Seat Ring

| Body liner |                        |
|------------|------------------------|
| Material   | Identity code          |
| EPDM       | 9E-000B <sup>*1)</sup> |
| EPDM-H     | 8L                     |
| NBR        | 8N                     |
| HNBR       | 8H                     |
| FPM        | 8F                     |
| CSM        | 8C                     |

| Size |      | Article number   |
|------|------|------------------|
| 40   | 1,5" | KS1A0040-XX-0000 |
| 50   | 2"   | KS1A0050-XX-0000 |
| 65   | 2,5" | KS1A0065-XX-0000 |
| 80   | 3"   | KS1A0080-XX-0000 |
| 100  | 4"   | KS1A0100-XX-0000 |
| 125  | 5"   | KS1A0125-XX-0000 |
| 150  | 6"   | KS1A0150-XX-0000 |
| 200  | 8"   | KS1A0200-XX-0000 |
| 250  | 10"  | KS1A0250-XX-0000 |
| 300  | 12"  | KS1A0300-XX-0000 |
| 350  | 14"  | KS1A0350-XX-0000 |
| 400  | 16"  | KS1A0400-XX-0000 |
| 450  | 18"  | KS1A0450-XX-0000 |
| 500  | 20"  | KS1A0500-XX-0000 |
| 600  | 24"  | KS1A0600-XX-0000 |
| 700  | 28"  | KS1A0700-XX-0000 |
| 800  | 32"  | KS1A0800-XX-0000 |
| 900  | 36"  | KS1A0900-XX-0000 |
| 1000 | 40"  | KS1A1000-XX-0000 |
| 1200 | 48"  | KS1A1200-XX-0000 |

"XX" in the article number is to be replaced by the identity code listed for the material. Example:

Body liner DN 200 made of NBR: KS1A0200-8N-0000

<sup>\*1)</sup> only DN 40–250, for DN 300–1200 8L is to be specified  
Inner part DN 40 equal DN 50



RS/DB-0009-GB/07.04/GP

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# CENTERLINE-Butterfly Valves Series VIA/RS

## Spare Parts DN 40-1200

### Discs

| DN  | Shutoff Pressure bar | GGG ni. pltd.      | Stainless Steel    | Alu-Bronze         | Hastelloy-C        | Material Hastelloy-C22C | Duplex             | ECTFE coated       | VIADUR coated      | Hostalen GUR lined |
|-----|----------------------|--------------------|--------------------|--------------------|--------------------|-------------------------|--------------------|--------------------|--------------------|--------------------|
| 50  | 16                   |                    | KD1B0050<br>3HW000 | KD1B0050<br>4CP000 |                    |                         |                    |                    |                    |                    |
|     | 10                   |                    | KD1B0050<br>3HW000 | KD1B0050<br>4CN000 | KD1B0050<br>4AN000 |                         | KD1B0050<br>4DN000 | KD1B0050<br>1BS03E |                    | KD1B0050<br>1BNB3B |
| 65  | 16                   |                    | KD1B0065<br>3HW000 | KD1B0065<br>4CP000 |                    |                         |                    |                    |                    |                    |
|     | 10                   |                    | KD1B0065<br>3HW000 | KD1B0065<br>4CN000 | KD1B0065<br>4AN000 |                         | KD1B0065<br>4DN000 | KD1B0065<br>1BS03E |                    | KD1B0065<br>1BNB3B |
| 80  | 16                   |                    | KD1B0080<br>3HW000 | KD1B0080<br>4CP000 |                    |                         |                    |                    |                    |                    |
|     | 10                   |                    | KD1B0080<br>3HW000 | KD1B0080<br>4CN000 | KD1B0080<br>4AN000 |                         | KD1B0080<br>4DN000 | KD1B0080<br>1BS03E |                    | KD1B0080<br>1BNB3B |
| 100 | 16                   |                    | KD1B0100<br>3HP000 | KD1B0100<br>4CP000 |                    |                         |                    |                    |                    |                    |
|     | 10                   |                    | KD1B0100<br>3HN000 | KD1B0100<br>4CN000 | KD1B0100<br>4AN000 |                         | KD1B0100<br>4DN000 | KD1B0100<br>1BS03E |                    | KD1B0100<br>1BNB3B |
|     | 3,5                  |                    | KD1B0100<br>3HM000 |                    |                    |                         |                    |                    |                    |                    |
| 125 | 16                   |                    | KD1B0125<br>3HP000 | KD1B0125<br>4CP000 |                    |                         |                    |                    |                    |                    |
|     | 10                   |                    | KD1B0125<br>3HN000 | KD1B0125<br>4CN000 | KD1B0125<br>4AN000 |                         | KD1B0125<br>4DN000 | KD1B0125<br>1BS03E |                    | KD1B0125<br>1BNB3B |
|     | 3,5                  |                    | KD1B0125<br>3HM000 |                    |                    |                         |                    |                    |                    |                    |
| 150 | 16                   |                    | KD1B0150<br>3HP000 | KD1B0150<br>4CP000 |                    |                         |                    |                    |                    |                    |
|     | 10                   |                    | KD1B0150<br>3HN000 | KD1B0150<br>4CN000 | KD1B0150<br>4AN000 |                         | KD1B0150<br>4DN000 | KD1B0150<br>1BS03E |                    | KD1B0150<br>1BNB3B |
|     | 3,5                  |                    | KD1B0150<br>3HM000 |                    |                    |                         |                    |                    |                    |                    |
| 200 | 16                   | KD1A0200<br>1BP03N | KD1A0200<br>3AP000 | KD1A0200<br>4CP000 |                    |                         |                    |                    |                    |                    |
|     | 10                   | KD1A0200<br>1BN03N | KD1A0200<br>3AN000 | KD1A0200<br>4CN000 | KD1A0200<br>4AN000 |                         | KD1A0200<br>4DN000 | KD1A0200<br>1BS03E | KD1A0200<br>1BS03M | KD1A0200<br>1BNB3B |
|     | 3,5                  | KD1A0200<br>1BM03N | KD1A0200<br>3AM000 |                    |                    |                         |                    |                    |                    |                    |
| 250 | 16                   | KD1A0250<br>1BP03N | KD1A0250<br>3AP000 | KD1A0250<br>4CP000 |                    |                         |                    |                    |                    |                    |
|     | 10                   | KD1A0250<br>1BN03N | KD1A0250<br>3AN000 | KD1A0250<br>4CN000 | KD1A0250<br>4AN000 |                         | KD1A0250<br>4DN000 | KD1A0250<br>1BS03E | KD1A0250<br>1BS03M | KD1A0250<br>1BNB3B |
|     | 3,5                  | KD1A0250<br>1BM03N | KD1A0250<br>3AM000 |                    |                    |                         |                    |                    |                    |                    |
| 300 | 16                   | KD1A0300<br>1BP03N | KD1A0300<br>3AP000 | KD1A0300<br>4CP000 |                    |                         |                    |                    |                    |                    |
|     | 10                   | KD1A0300<br>1BN03N | KD1A0300<br>3AN000 | KD1A0300<br>4CN000 | KD1A0300<br>4AN000 |                         | KD1A0300<br>4DN000 | KD1A0300<br>1BS03E | KD1A0300<br>1BS03M | KD1A0300<br>1BNB3B |
|     | 3,5                  | KD1A0300<br>1BM03N | KD1A0300<br>3AM000 |                    |                    |                         |                    |                    |                    |                    |

DN 40 discs as DN 50

Other sizes see back page

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**CRANE**

| DN   | Shutoff<br>Pressure<br>bar | GGG<br>ni. pltd.   | Stainless<br>Steel | Alu-Bronze         | Hastelloy-<br>C    | Material<br>Hastelloy-<br>C22C | Duplex             | ECTFE<br>coated    | VIADUR<br>coated   | Hostalen<br>GUR<br>lined |
|------|----------------------------|--------------------|--------------------|--------------------|--------------------|--------------------------------|--------------------|--------------------|--------------------|--------------------------|
| 350  | 16                         | KD1A0350<br>1BP03N | KD1A0350<br>3AP000 | KD1A0350<br>4CP000 |                    |                                |                    |                    |                    |                          |
|      | 10                         | KD1A0350<br>1BN03N | KD1A0350<br>3AN000 | KD1A0350<br>4CN000 | KD1A0350<br>4AN000 |                                | KD1A0350<br>4DN000 | KD1A0350<br>1BS03E | KD1A0350<br>1BS03M | KD1A02350<br>1BNB3B      |
|      | 3,5                        | KD1A0350<br>1BM03N | KD1A0350<br>3AM000 |                    |                    |                                |                    |                    |                    |                          |
| 400  | 16                         | KD1A0400<br>1BP03N | KD1A0400<br>3AP000 | KD1A0400<br>4CP000 |                    |                                |                    |                    |                    |                          |
|      | 10                         | KD1A0400<br>1BN03N | KD1A0400<br>3AN000 | KD1A0400<br>4CN000 | KD1A0400<br>4AN000 |                                | KD1A0400<br>4DN000 | KD1A0400<br>1BS03E | KD1A0400<br>1BS03M | KD1A0400<br>1BNB3B       |
|      | 3,5                        | KD1A0400<br>1BM03N | KD1A0400<br>3AM000 |                    |                    |                                |                    |                    |                    |                          |
| 450  | 16                         | KD1A0450<br>1BP03N | KD1A0450<br>3AP000 | KD1A0450<br>4CP000 |                    |                                |                    |                    |                    |                          |
|      | 10                         | KD1A0450<br>1BN03N | KD1A0450<br>3AN000 | KD1A0450<br>4CN000 | KD1A0450<br>4AN000 |                                | KD1A0450<br>4DN000 | KD1A0450<br>1BS03E | KD1A0450<br>1BS03M | KD1A0450<br>1BNB3B       |
|      | 3,5                        | KD1A0450<br>1BM03N | KD1A0450<br>3AM000 |                    |                    |                                |                    |                    |                    |                          |
| 500  | 16                         | KD1A0500<br>1BP03N | KD1A0500<br>3AP000 | KD1A0500<br>4CP000 |                    |                                |                    |                    |                    |                          |
|      | 10                         | KD1A0500<br>1BN03N | KD1A0500<br>3AN000 | KD1A0500<br>4CN000 | KD1A0500<br>4AN000 |                                | KD1A0500<br>4DN000 | KD1A0500<br>1BS03E | KD1A0500<br>1BS03M | KD1A0500<br>1BNB3B       |
|      | 3,5                        | KD1A0500<br>1BM03N | KD1A0500<br>3AM000 |                    |                    |                                |                    |                    |                    |                          |
| 600  | 16                         | KD1A0600<br>1BP03N | KD1A0600<br>3AP000 | KD1A0600<br>4CP000 |                    |                                |                    |                    |                    |                          |
|      | 10                         | KD1A0600<br>1BN03N | KD1A0600<br>3AN000 | KD1A0600<br>4CN000 | KD1A0600<br>4AN000 |                                | KD1A0600<br>4DN000 | KD1A0600<br>1BS03E | KD1A0600<br>1BS03M | KD1A0600<br>1BNB3B       |
|      | 3,5                        | KD1A0600<br>1BM03N | KD1A0600<br>3AM000 |                    |                    |                                |                    |                    |                    |                          |
| 700  | 10                         | KD1A0700<br>1BN03N | KD1A0700<br>3AN000 |                    |                    | KD1A0700<br>4HN000             | KD1A0700<br>4DN000 | KD1A0700<br>1BS03E | KD1A0700<br>1BS03M | KD1A0700<br>1BNB3B       |
| 800  | 10                         | KD1A0800<br>1BN03N | KD1A0800<br>3AN000 |                    |                    | KD1A0800<br>4HN000             | KD1A0800<br>4DN000 | KD1A0800<br>1BS03E | KD1A0800<br>1BS03M | KD1A0800<br>1BNB3B       |
| 900  | 10                         | KD1A0900<br>1BN03N | KD1A0900<br>3AN000 |                    |                    | KD1A0900<br>4HN000             | KD1A0900<br>4DN000 | KD1A0900<br>1BS03E | KD1A0900<br>1BS03M | KD1A0900<br>1BNB3B       |
| 1000 | 10                         | KD1A1000<br>1BN03N | KD1A1000<br>3AN000 |                    |                    | KD1A1000<br>4HN000             | KD1A1000<br>4DN000 | KD1A1000<br>1BS03E | KD1A1000<br>1BS03M |                          |
| 1200 | 10                         | KD1A1200<br>1BN03N | KD1A1200<br>3AN000 |                    |                    | KD1A1200<br>4HN000             | KD1A1200<br>4DN000 | KD1A1200<br>1BS03E | KD1A1200<br>1BS03M |                          |

**CRANE**®

# CENTERLINE-Butterfly Valves Series VIA/RS

## Chemical Resistance of the Seat

The following Seat Material/Fluid combinations are based on practical experience. The materials quoted may not be suitable for all line media over the entire temperature range. Chemical resistance of the seat can be affected by fluid concentration, temperature,

pressure, flow rate and ventilation. Therefore the suitability of any seat material/fluid combination cannot be guaranteed. If in doubt, the suitability should be checked by testing under the required operating conditions.

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| Valve seat material                                                   | Resistant against                                                                                                                                                                                                                                                                                                               | Temperature range                                                    |
|-----------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| NBR (Perbunan)*<br>Acrylonitrile<br>Butadiene Rubber                  | Petroleum, grease, alcohol, glycol, propane, butane, diesel fuels, compressed air, latex and many other media.                                                                                                                                                                                                                  | -20 °C to +80 °C<br>or up to +110°C<br>for intermittent operation    |
| HNBR (Therban)*<br>Hydrogenated<br>Acrylonitrile<br>Butadiene Rubber  | Petroleum, grease, alcohol, glycol, propane, butane, diesel fuels, alkalis, salts, amines, ammonia, many other media. Highly polluted media with high velocity, abrasive media.                                                                                                                                                 | -20 °C up to +120 °C                                                 |
| EPDM<br>Ethylene Propylene<br>Terpolymer                              | Ozone, phosphate, ester, ketones, alcohols, glycols, dilute-sulphuric acid, alkaline solutions in general, treated water (with caustic soda, sodium sulphite, chlorine), hot water and steam (it is attacked by hydrocarbonaceous solutions and oils, chlorinated hydrocarbons, turpentine and all other petroleum based oils). | -34 °C up to +120 °C                                                 |
| EPDM-H                                                                | As EPDM including drinking water approval (KTW/DVGW).                                                                                                                                                                                                                                                                           | -34 °C up to +140 °C                                                 |
| CSM (Hypalon)*<br>Chlorosulphonated<br>Polyethylene<br>Fluorelastomer | Sodium chloride, chromic acid, nitric and hydrofluoric acid, sulphuric acid, hydrocarbon oils, salts, chlorine bleaches and others.                                                                                                                                                                                             | -20 °C up to +80 °C<br>or up to +100°C<br>for intermittent operation |
| FPM (Viton)*<br>Fluorelastomer                                        | Strong and weak mineral acids, aliphatic hydrocarbons, aromatic phenolic and halogenated hydrocarbons, ester of aromatic acids, aliphatic acids, phosphoric acids, phosphoric ester, aromatic ethers, aliphatic ethers, ozone, chlorine and hypochlorite. (Viton* is not suitable for dry heat, hot water and steam).           | -20 °C up to +150 °C                                                 |

\* Trademark or Tradename

**CRANE**  
®