

## Butterfly valve Series BUW4/BUW6/BULG/C-DVGW



|                       |                                                                                                                                                                                                                                      |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Design type           | Wafer butterfly valve with two-piece shaft, Shaft secured against blow-out by circlip                                                                                                                                                |
| Actuation             | Hand lever Aluminium, 10 Indexing positions, by turning the mounting adapter 2 Indexing positions, lockable version<br>Manual gearbox Grey cast iron EN-GJL-250, infinitely variable                                                 |
| Connection            | Flanges according to EN1092                                                                                                                                                                                                          |
| Flange type           | Sandwich mounting version: BUW6 DN40...DN200 PN10/PN16/ANSI150, BUW4 DN250...DN500 PN10/PN16/ANSI150<br>Flanged version: BULG DN40...DN150: PN10/PN16, BULC DN200...DN500: PN10                                                      |
| Overall length        | according to EN558-1 series 20 (DIN3202-K1)                                                                                                                                                                                          |
| Materials             | Housing Ductile iron EN-GJS-400-15 epoxy-coated 40...60µm, Disc Stainless steel 1.4408, Shaft Stainless steel 1.4016 (non-media-contacting)<br>Hand lever Aluminium<br>Manual gearbox Grey cast iron EN-GJL-250, infinitely variable |
| Seal ring             | NBR, interchangeable                                                                                                                                                                                                                 |
| Spindle seal          | Via the housing lining, so that contact with the housing is avoided. Additionally, an O-ring below the head flange protects the shaft against dust ingress from outside and medium leakage from inside.                              |
| Sealing at the flange | without additional seals (Housing lining seals directly)                                                                                                                                                                             |
| Application range     | Fuel gases according to G260                                                                                                                                                                                                         |
| Medium temperature    | -10...+60°C (-10...+120°C on request)                                                                                                                                                                                                |
| Ambient temperature   | -10...+60°C                                                                                                                                                                                                                          |
| Operating pressure    | BUW6 - DN40...DN200: 0...16bar, BUW4 - DN250...DN500: 0...10bar<br>BULG - DN40...DN150: 0...16bar, BULC - DN200...DN500: 0...10bar                                                                                                   |
| Flow direction        | any                                                                                                                                                                                                                                  |
| Mounting type         | Installation in rigid piping system between two flanges according to EN1092, form 01, 11, 32, 34<br>Flanged version Installation without mating flange not permitted                                                                 |
| Mounting position     | any                                                                                                                                                                                                                                  |
| Approvals             | Gas approval DIN EN13774, TA-Luft, SIL 3                                                                                                                                                                                             |
| Special versions      | ATEX II 2 GD Ex h X                                                                                                                                                                                                                  |



## Type code

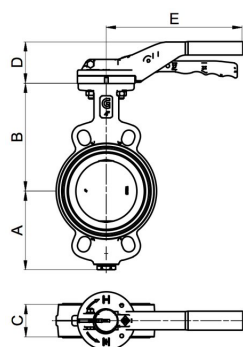
|                                             |                                            | BU  | W | 6 | -050 | -D | S | D | S | -L | -A |
|---------------------------------------------|--------------------------------------------|-----|---|---|------|----|---|---|---|----|----|
| <b>Butterfly valve</b>                      |                                            |     |   |   |      |    |   |   |   |    |    |
| <b>Flange version</b>                       | Flange connection                          | L   |   |   |      |    |   |   |   |    |    |
|                                             | Sandwich plate                             | W   |   |   |      |    |   |   |   |    |    |
| <b>Operating pressure / Flange mounting</b> | 10bar...PN10/16/ANSI150                    | 4   |   |   |      |    |   |   |   |    |    |
|                                             | 16bar...PN10/16/AANSI150                   | 6   |   |   |      |    |   |   |   |    |    |
|                                             | 10bar...PN10                               | C   |   |   |      |    |   |   |   |    |    |
|                                             | 16bar...PN10/16                            | G   |   |   |      |    |   |   |   |    |    |
| <b>Nominal size</b>                         | 40mm                                       | 040 |   |   |      |    |   |   |   |    |    |
|                                             | 50mm                                       | 050 |   |   |      |    |   |   |   |    |    |
|                                             | 65mm                                       | 065 |   |   |      |    |   |   |   |    |    |
|                                             | 80mm                                       | 080 |   |   |      |    |   |   |   |    |    |
|                                             | 100mm                                      | 100 |   |   |      |    |   |   |   |    |    |
|                                             | 125mm                                      | 125 |   |   |      |    |   |   |   |    |    |
|                                             | 150mm                                      | 150 |   |   |      |    |   |   |   |    |    |
|                                             | 200mm                                      | 200 |   |   |      |    |   |   |   |    |    |
|                                             | 250mm                                      | 250 |   |   |      |    |   |   |   |    |    |
|                                             | 300mm                                      | 300 |   |   |      |    |   |   |   |    |    |
|                                             | 350mm                                      | 350 |   |   |      |    |   |   |   |    |    |
|                                             | 400mm                                      | 400 |   |   |      |    |   |   |   |    |    |
|                                             | 450mm                                      | 450 |   |   |      |    |   |   |   |    |    |
|                                             | 500mm                                      | 500 |   |   |      |    |   |   |   |    |    |
| <b>Body</b>                                 | EN-GJS-400-15                              |     |   |   |      | D  |   |   |   |    |    |
| <b>Disc</b>                                 | Stainless steel 1.4408                     |     |   |   |      |    | S |   |   |    |    |
| <b>Seal ring</b>                            | NBR-DVGW                                   |     |   |   |      |    |   | D |   |    |    |
| <b>Shaft</b>                                | Stainless steel 1.4016 (Leave blank)       |     |   |   |      |    |   |   |   |    |    |
|                                             | Stainless steel 1.4401                     |     |   |   |      |    |   | S |   |    |    |
| <b>Actuation</b>                            | free shaft                                 |     |   |   |      |    |   |   | B |    |    |
|                                             | Gearbox                                    |     |   |   |      |    |   |   | G |    |    |
|                                             | Hand lever Aluminium 10 Indexing positions |     |   |   |      |    |   |   | L |    |    |
|                                             | Hand lever Aluminium adjustable            |     |   |   |      |    |   |   | R |    |    |
| <b>Special versions</b>                     | ATEX                                       |     |   |   |      |    |   |   |   | A  |    |

## Pressure resistance

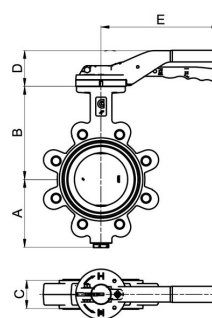
| Type                      | clamped between two flanges               | End fitting without Counter flange |
|---------------------------|-------------------------------------------|------------------------------------|
| Sandwich mounting version | DN50...DN200: 16bar, DN250...DN500: 10bar | -                                  |
| Flanged version           | DN50...DN150: 16bar, DN200...DN500: 10bar | -                                  |



## Dimensions with Hand lever



Sandwich mounting version

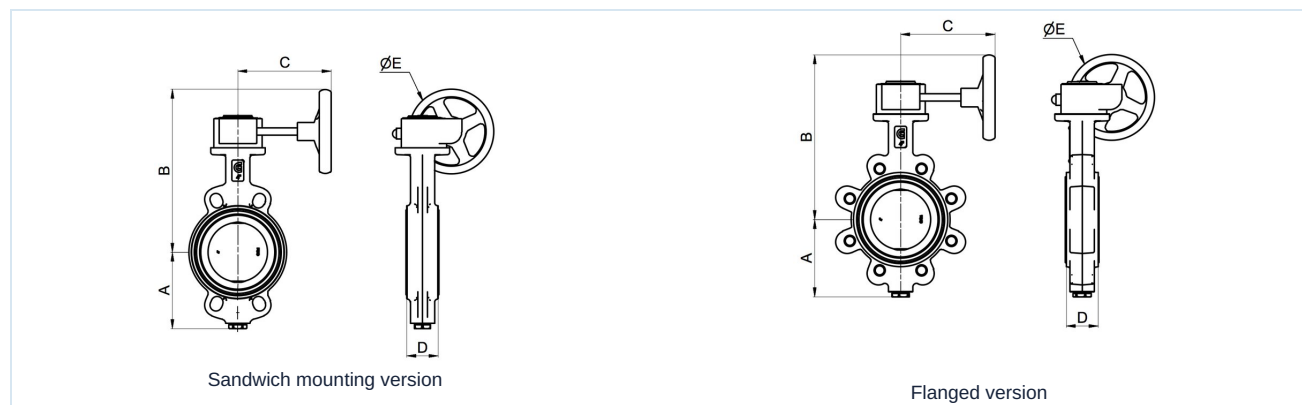


Flanged version

| Nominal size<br>DN [mm] | A   | B   | C  | D  | E   | Square spindle diagonal<br>[mm] | Flange<br>ISO 5211 | Weight<br>[approx. kg] |                   |
|-------------------------|-----|-----|----|----|-----|---------------------------------|--------------------|------------------------|-------------------|
|                         |     |     |    |    |     |                                 |                    | Sandwich plate         | Flange connection |
| 40                      | 75  | 130 | 33 | 67 | 220 | 11                              | F07                | 2,8                    | 3,6               |
| 50                      | 81  | 138 | 43 | 67 | 220 | 11                              | F07                | 3,4                    | 4,3               |
| 65                      | 98  | 144 | 46 | 67 | 220 | 11                              | F07                | 4,3                    | 5,9               |
| 80                      | 110 | 158 | 46 | 67 | 220 | 11                              | F07                | 4,6                    | 6,7               |
| 100                     | 128 | 173 | 52 | 67 | 220 | 11                              | F07                | 6,6                    | 8,7               |
| 125                     | 140 | 186 | 56 | 67 | 275 | 14                              | F07                | 7,9                    | 10,4              |
| 150                     | 155 | 202 | 56 | 67 | 275 | 14                              | F07                | 9,8                    | 12,2              |
| 200                     | 190 | 240 | 60 | 76 | 340 | 17                              | F10                | 15                     | 28                |
| 250                     | 220 | 270 | 68 | 76 | 340 | 22                              | F10                | 23                     | 35                |
| 300                     | 247 | 300 | 78 | 76 | 340 | 22                              | F10                | 33                     | 50                |



## Dimensions with Handwheel gearbox



| Nominal size<br>DN [mm] | A   | B   | C   | D   | E   | Spindle type    | Spindle dimension<br>[mm] | Flange<br>ISO 5211 | Weight<br>[approx. kg] |                   |
|-------------------------|-----|-----|-----|-----|-----|-----------------|---------------------------|--------------------|------------------------|-------------------|
|                         |     |     |     |     |     |                 |                           |                    | Sandwich plate         | Flange connection |
| 40                      | 75  | 257 | 158 | 33  | 200 | Square diagonal | 11                        | F07                | 4,8                    | 5,6               |
| 50                      | 81  | 265 | 158 | 43  | 200 | Square diagonal | 11                        | F07                | 5,4                    | 6,3               |
| 65                      | 98  | 271 | 158 | 46  | 200 | Square diagonal | 11                        | F07                | 6,9                    | 8,5               |
| 80                      | 110 | 285 | 158 | 46  | 200 | Square diagonal | 11                        | F07                | 7,2                    | 9,3               |
| 100                     | 128 | 300 | 158 | 52  | 200 | Square diagonal | 11                        | F07                | 9,2                    | 11,3              |
| 125                     | 140 | 313 | 158 | 56  | 200 | Square diagonal | 14                        | F07                | 10,5                   | 13                |
| 150                     | 155 | 329 | 158 | 56  | 200 | Square diagonal | 14                        | F07                | 12,3                   | 14,6              |
| 200                     | 190 | 369 | 217 | 60  | 200 | Square diagonal | 17                        | F10                | 18,6                   | 31,6              |
| 250                     | 220 | 461 | 282 | 68  | 300 | Square diagonal | 22                        | F10                | 26,7                   | 38,7              |
| 300                     | 247 | 541 | 282 | 78  | 400 | Square diagonal | 22                        | F10                | 34,4                   | 51,4              |
| 350                     | 280 | 572 | 282 | 78  | 400 | Parallel key    | 35/10                     | F12                | 52,9                   | 73                |
| 400                     | 305 | 597 | 282 | 102 | 400 | Parallel key    | 40/12                     | F12                | 77,6                   | 93                |
| 450                     | 343 | 642 | 282 | 114 | 400 | Parallel key    | 45/12                     | F14                | 124                    | 184               |
| 500                     | 366 | 664 | 282 | 127 | 400 | Parallel key    | 45/12                     | F16                | 154                    | 194               |

## Kv value [m³/h]

| Nominal size<br>DN [mm] | Opening angle of the disc |     |      |      |      |      |       |       |       |
|-------------------------|---------------------------|-----|------|------|------|------|-------|-------|-------|
|                         | 10°                       | 20° | 30°  | 40°  | 50°  | 60°  | 70°   | 80°   | 90°   |
| 40/50                   | -                         | 0,9 | 6,1  | 15   | 29   | 53   | 92    | 115   | 116   |
| 65                      | -                         | 2,5 | 11   | 27   | 51   | 90   | 161   | 240   | 257   |
| 80                      | -                         | 5,2 | 21   | 49   | 91   | 156  | 283   | 457   | 508   |
| 100                     | -                         | 9,5 | 39   | 88   | 159  | 269  | 487   | 815   | 925   |
| 125                     | -                         | 15  | 69   | 148  | 262  | 434  | 768   | 1303  | 1492  |
| 150                     | -                         | 23  | 112  | 228  | 394  | 641  | 1097  | 1861  | 2168  |
| 200                     | -                         | 110 | 211  | 405  | 679  | 1085 | 1788  | 3043  | 3838  |
| 250                     | 21                        | 156 | 310  | 591  | 988  | 1591 | 2715  | 4768  | 5010  |
| 300                     | 49                        | 280 | 381  | 742  | 1252 | 2059 | 3744  | 6831  | 9233  |
| 350                     | 123                       | 315 | 661  | 1184 | 2008 | 3225 | 5195  | 9301  | 10792 |
| 400                     | 161                       | 412 | 863  | 1547 | 2620 | 4202 | 6775  | 12142 | 14082 |
| 450                     | 199                       | 511 | 1069 | 1916 | 3248 | 5218 | 8412  | 15048 | 17840 |
| 500                     | 246                       | 630 | 1320 | 2366 | 4010 | 6442 | 10377 | 18578 | 22024 |

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Design, dimensional and material changes reserved

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Version 13

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