

# Butterfly valves with pneumatic rotary actuator

## Series BUW6, BULG/C



|                       |                                                                                                                                                                                                                                                                                                                                                          |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Design type           | Wafer-type or lug-type butterfly valve with two-piece shaft, floating disc, torque transmission via spline, shaft secured against blow-out by circlip                                                                                                                                                                                                    |
| Function              | double-acting or single-acting Version                                                                                                                                                                                                                                                                                                                   |
| Connection            | Flanges according to EN1092 or rather ANSI150                                                                                                                                                                                                                                                                                                            |
| Flange type           | Sandwich mounting version: PN10/PN16/ANSI150<br>Flanged version DN40...DN150: PN10/PN16, DN200...DN300: PN10                                                                                                                                                                                                                                             |
| Overall length        | according to EN558-1R20                                                                                                                                                                                                                                                                                                                                  |
| Materials             | Actuator: Hard anodized aluminium, Pinion, nickel-plated steel, Piston guide POM, Seals NBR<br>Butterfly valve Housing Ductile iron EN-GJS-400-15 epoxy-coated 40...60µm, Disc Galvanized steel (DN50...100), Ductile iron EN-GJS-400-15 zinc-plated (DN125...500) or rather Stainless steel 1.4408, Shaft Stainless steel 1.4016 (non-media-contacting) |
| Seal ring             | EPDM interchangeable, additional seals see table "Cuff materials"                                                                                                                                                                                                                                                                                        |
| 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     | lubricating or non-degreasing gaseous and liquid media that do not attack the materials used, other media on request                                                                                                                                                                                                                                     |
| Medium temperature    | 10...+200°C<br>additionally depending on the seal material - see table "Seal materials"                                                                                                                                                                                                                                                                  |
| Ambient temperature   | -20...+85°C                                                                                                                                                                                                                                                                                                                                              |
| Operating pressure    | see table<br>Flanged version: Installation without mating flange max. 6bar<br>Vacuum: -0,97bar                                                                                                                                                                                                                                                           |
| Control medium        | filtered and lubricated or non-lubricated compressed air                                                                                                                                                                                                                                                                                                 |
| Control pressure      | 5,5...8bar, Adaptation to lower pilot pressures on request                                                                                                                                                                                                                                                                                               |
| Flow direction        | any                                                                                                                                                                                                                                                                                                                                                      |
| Mounting type         | Installation in rigid piping system between two flanges according to EN1092, form 01, 11, 32, 34                                                                                                                                                                                                                                                         |
| Mounting position     | any                                                                                                                                                                                                                                                                                                                                                      |
| Special version       | Disc Hastelloy or Monel, Pinion in stainless steel, Ambient temperatures from -40...+85°C or rather -20...+150°C, Nominal sizes up to DN500, ATEX II 2 GD Ex h X - ATEX II 2 G/D c T6                                                                                                                                                                    |
| Accessories           | assembled manual, pneumatic or electric control valve<br>electrical end position feedback, Positioner in I/P or P/P Version<br>Adjustment of the switching speed, intermediate disengageable gearbox for manual operation                                                                                                                                |



## Type code

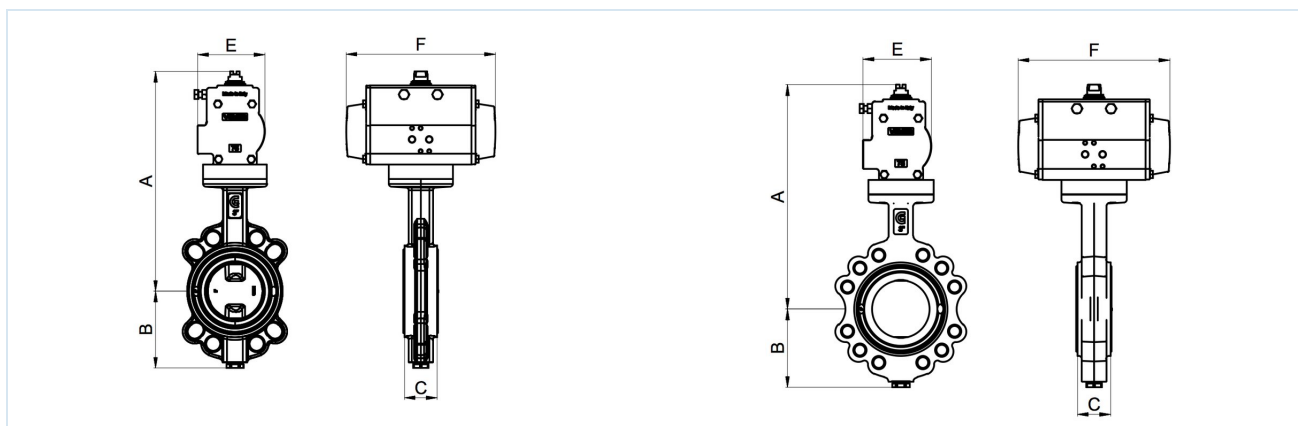
|                                             |                                      |     |   |   |      |    |   |   |   |    |   |   |   |   |
|---------------------------------------------|--------------------------------------|-----|---|---|------|----|---|---|---|----|---|---|---|---|
| <b>Butterfly valve</b>                      |                                      | BU  | W | 6 | -050 | -D | S | E | S | -D | 3 | 1 | - | A |
| <b>Flange version</b>                       | Flange connection                    | L   |   |   |      |    |   |   |   |    |   |   |   |   |
|                                             | Sandwich plate                       | W   |   |   |      |    |   |   |   |    |   |   |   |   |
| <b>Operating pressure / Flange mounting</b> | 6bar...PN10/16/A150                  | 2   |   |   |      |    |   |   |   |    |   |   |   |   |
|                                             | 16bar...PN10/16/A150                 | 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 |   |   |      |    |   |   |   |    |   |   |   |   |
| <b>Body</b>                                 | Aluminium                            |     |   |   |      | A  |   |   |   |    |   |   |   |   |
|                                             | Aluminium bronze                     |     |   |   |      | B  |   |   |   |    |   |   |   |   |
|                                             | Steel                                |     |   |   |      | C  |   |   |   |    |   |   |   |   |
|                                             | GJS400-15                            |     |   |   |      | D  |   |   |   |    |   |   |   |   |
|                                             | Stainless steel                      |     |   |   |      | S  |   |   |   |    |   |   |   |   |
| <b>Disc</b>                                 | Aluminium bronze                     |     |   |   |      | N  |   |   |   |    |   |   |   |   |
|                                             | GJS400-15 zinc-plated                |     |   |   |      | P  |   |   |   |    |   |   |   |   |
|                                             | Stainless steel 1.4408               |     |   |   |      | S  |   |   |   |    |   |   |   |   |
|                                             | Steel zinc-plated                    |     |   |   |      | U  |   |   |   |    |   |   |   |   |
| <b>Seal ring</b>                            | NBR carboxyl-containing              |     |   |   |      | C  |   |   |   |    |   |   |   |   |
|                                             | EPDM                                 |     |   |   |      | E  |   |   |   |    |   |   |   |   |
|                                             | Hypalon                              |     |   |   |      | H  |   |   |   |    |   |   |   |   |
|                                             | NBR                                  |     |   |   |      | N  |   |   |   |    |   |   |   |   |
|                                             | Silicone                             |     |   |   |      | S  |   |   |   |    |   |   |   |   |
|                                             | FKM                                  |     |   |   |      | V  |   |   |   |    |   |   |   |   |
|                                             | EPDM-white                           |     |   |   |      | W  |   |   |   |    |   |   |   |   |
|                                             | EPDM HT                              |     |   |   |      | X  |   |   |   |    |   |   |   |   |
| <b>Shaft</b>                                | Stainless steel 1.4016 (Leave blank) |     |   |   |      |    |   |   |   |    |   |   |   |   |
|                                             | Stainless steel 1.4401               |     |   |   |      | S  |   |   |   |    |   |   |   |   |
| <b>Actuation</b>                            | double-acting Actuator               |     |   |   |      |    |   |   | D |    |   |   |   |   |
|                                             | single-acting Actuator               |     |   |   |      |    |   |   | S |    |   |   |   |   |
| <b>Control pressure / Medium pressure</b>   | 5,5bar / 16bar                       |     |   |   |      |    |   |   |   |    | 1 |   |   |   |
|                                             | 5,5bar / 10bar                       |     |   |   |      |    |   |   |   |    | 2 |   |   |   |
| <b>Medium</b>                               | Water                                |     |   |   |      |    |   |   |   |    |   | 1 |   |   |
|                                             | Gases or other liquids               |     |   |   |      |    |   |   |   |    |   | 2 |   |   |
|                                             | degreasing media                     |     |   |   |      |    |   |   |   |    |   | 3 |   |   |
| <b>Special versions</b>                     | ATEX                                 |     |   |   |      |    |   |   |   |    |   |   | A |   |
|                                             | oil- and grease-free                 |     |   |   |      |    |   |   |   |    |   |   | G |   |
|                                             | silicone-free                        |     |   |   |      |    |   |   |   |    |   |   | S |   |

## Seal materials

| Material                                                            | Medium temperature* | Application examples                                    |
|---------------------------------------------------------------------|---------------------|---------------------------------------------------------|
| EPDM                                                                | -10 (-35)*...+130°C | Hot water, Cold water, neutral gases and liquids        |
| EPDM-white                                                          | -10 (-30)*...+130°C | Granules                                                |
| EPDM HT                                                             | -10 (-40)*...+150°C | Steam, Hot water, Cold water, neutral gases and liquids |
| FKM                                                                 | -10 (-20)*...+200°C | Gasoline, Diesel, Oils                                  |
| NBR                                                                 | -10 (-25)*...+100°C | Cold water, Air, neutral gases and liquids              |
| NBR carboxyl-containing                                             | -10 (-25)*...+100°C | abrasive media such as sand, cement                     |
| Neoprene, Silicone, Hypalon and Natural rubber available on request |                     |                                                         |
| *lower Medium temperatures on request                               |                     |                                                         |



## Dimensions



### Butterfly valves with double-acting actuator, Control pressure 5,5...8bar, Seal ring EPDM

| Nominal size DN[mm] | max. Operating pressure Water [bar] | max. Operating pressure other media [bar]** | A   | B   | C  | E   | F   | Actuator type | Kv value [m³/h] | Type Sandwich plate | Weight [approx. kg] | Type Flange connection | Weight [approx. kg] |
|---------------------|-------------------------------------|---------------------------------------------|-----|-----|----|-----|-----|---------------|-----------------|---------------------|---------------------|------------------------|---------------------|
| 40                  | 16                                  | 10                                          | 263 | 75  | 33 | 81  | 164 | PAD063        | 116             | BUW6-040-D.E-D..    | 4                   | BULG-040-D.E-D..       | 5                   |
| 50                  | 16                                  | 10                                          | 271 | 81  | 43 | 81  | 164 | PAD063        | 116             | BUW6-050-D.E-D..    | 4,6                 | BULG-050-D.E-D..       | 5,5                 |
| 65                  | 16                                  | 10                                          | 277 | 98  | 46 | 81  | 164 | PAD063        | 257             | BUW6-065-D.E-D..    | 5,5                 | BULG-065-D.E-D..       | 7,1                 |
| 80                  | 16                                  | 10                                          | 309 | 110 | 46 | 95  | 210 | PAD075        | 508             | BUW6-080-D.E-D..    | 6,9                 | BULG-080-D.E-D..       | 9                   |
| 100                 | 16                                  | 10                                          | 338 | 128 | 52 | 106 | 241 | PAD085        | 925             | BUW6-100-D.E-D..    | 10                  | BULG-100-D.E-D..       | 12,1                |
| 125                 | 16                                  | 10                                          | 351 | 140 | 56 | 106 | 241 | PAD085        | 1492            | BUW6-125-D.E-D..    | 11,2                | BULG-125-D.E-D..       | 13,7                |
| 150                 | 16                                  | 10                                          | 380 | 155 | 56 | 123 | 275 | PAD100        | 2168            | BUW6-150-D.E-D..    | 14,7                | BULG-150-D.E-D..       | 17,1                |
| 200                 | 16 (10)*                            | 10                                          | 465 | 190 | 60 | 148 | 372 | PAD125        | 3838            | BUW6-200-D.E-D..    | 24,9                | BULC-200-D.E-D..       | 37,9                |
| 250                 | 16 (10)*                            | 10                                          | 517 | 220 | 68 | 164 | 435 | PAD140        | 5010            | BUW6-250-D.E-D..    | 38,7                | BULC-250-D.E-D..       | 50,7                |
| 300                 | 16 (10)*                            | 10                                          | 571 | 247 | 78 | 186 | 500 | PAD160        | 9233            | BUW6-300-D.E-D..    | 53,9                | BULC-300-D.E-D..       | 70,9                |

\*Pressure in brackets is valid for flanged version

\*\*lubricating or non-degreasing gaseous and liquid media that do not attack the materials used



## Butterfly valves with single-acting actuator, Control pressure 5,5...8bar, Seal ring EPDM

| Nominal size<br>DN[mm] | max.<br>Operating<br>pressure<br>Water [bar] | max.<br>Operating<br>pressure<br>other media<br>[bar]** | A   | B   | C  | E   | F   | Actuator<br>type | Kv<br>value<br>[m³/h] | Type<br>Sandwich<br>plate | Weight<br>[approx.<br>kg] | Type<br>Flange<br>connection | Weight<br>[approx.<br>kg] |
|------------------------|----------------------------------------------|---------------------------------------------------------|-----|-----|----|-----|-----|------------------|-----------------------|---------------------------|---------------------------|------------------------------|---------------------------|
| 40                     | 16                                           | 10                                                      | 295 | 75  | 33 | 106 | 241 | PAS0855          | 116                   | BUW6-040-<br>D.E-S..      | 7,1                       | BULG-040-<br>D.E-S..         | 7,9                       |
| 50                     | 16                                           | 10                                                      | 303 | 81  | 43 | 106 | 241 | PAS0855          | 116                   | BUW6-050-<br>D.E-S..      | 7,7                       | BULG-050-<br>D.E-S..         | 8,6                       |
| 65                     | 16                                           | 10                                                      | 309 | 98  | 46 | 106 | 241 | PAS0855          | 257                   | BUW6-065-<br>D.E-S..      | 8,6                       | BULG-065-<br>D.E-S..         | 10,2                      |
| 80                     | 16                                           | 10                                                      | 371 | 110 | 46 | 137 | 333 | PAS1155          | 508                   | BUW6-080-<br>D.E-S..      | 15,6                      | BULG-080-<br>D.E-S..         | 17,7                      |
| 100                    | 16                                           | 10                                                      | 386 | 128 | 52 | 137 | 333 | PAS1155          | 925                   | BUW6-100-<br>D.E-S..      | 17,6                      | BULG-100-<br>D.E-S..         | 19,7                      |
| 125                    | 16                                           | 10                                                      | 411 | 140 | 56 | 148 | 372 | PAS1255          | 1492                  | BUW6-125-<br>D.E-S..      | 21,4                      | BULG-125-<br>D.E-S..         | 23,9                      |
| 150                    | 16                                           | 10                                                      | 473 | 155 | 56 | 186 | 500 | PAS1605          | 2168                  | BUW6-150-<br>D.E-S..      | 38,7                      | BULG-150-<br>D.E-S..         | 41,1                      |
| 200                    | 16 (10)*                                     | 10                                                      | 568 | 190 | 60 | 217 | 579 | PAS2005          | 3838                  | BUW6-200-<br>D.E-S..      | 69,1                      | BULC-200-<br>D.E-S..         | 82,1                      |
| 250                    | 16 (10)*                                     | 10                                                      | 598 | 220 | 68 | 217 | 579 | PAS2005          | 5010                  | BUW6-250-<br>D.E-S..      | 77,1                      | BULC-250-<br>D.E-S..         | 89,1                      |
| 300                    | 16 (10)*                                     | 10                                                      | 675 | 247 | 78 | 249 | 690 | PAS2305          | 9233                  | BUW6-300-<br>D.E-S..      | 103,1                     | BULC-300-<br>D.E-S..         | 120,1                     |

\*Pressure in brackets is valid for flanged version

\*\*lubricating or non-degreasing gaseous and liquid media that do not attack the materials used

Illustrations non-binding

Design, dimensional and material changes reserved

Armatures / Valves, butterfly valves and gate valves - automatically operated / Butterfly valves - pneumatically operated / Butterfly valve with pneumatic actuator Series BULG-D, BULC-D

Version 9

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MADE IN EUROPE

+43 512 52076

austria@stasto.eu

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