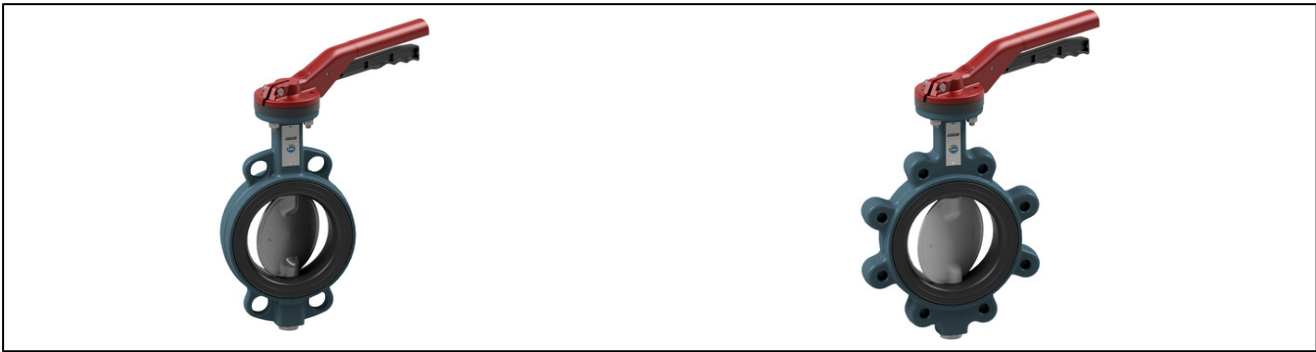


butterfly valve series BUW1, BUL1



| | |
|-----------------------|---|
| design | wafer respectively lug type butterfly valve with two-piece shaft, shaft is protected against blow out by circlip |
| actuation | DN50...DN150 hand lever aluminum, 10 positions, by rotating the mounting adapter 2 positions DN200...DN300 hand lever aluminum, 10 positions |
| connection | flange according to EN1092 |
| form of flange | wafer type and lug type DN40...DN300: PN6 |
| length | according to EN558-1R20 |
| materials | body ductile iron EN-GJS-400-15 epoxy coated 40...60µm, disc zinc plated steel (DN50...100), ductile iron EN-GJS-400-15 zinc plated (DN125...300) respectively stainless steel AISI 316, shaft stainless steel AISI 430 (not wetted) hand lever aluminum gear box cast iron |
| liner | demountable, see table "liner materials" |
| stem sealing | through the body liner to avoid the contact to the body. in addition an o-ring below the top flange protect the shaft from outside dust and emission of the media. |
| Sealing at the flange | without additional sealings (body liner as direct seal) |
| application | solids, group 1 and 2 liquids and gases acc. to PED 2014/68/EU and which do not affect the used materials. |
| medium temperature | -10...+200°C additionally dependent on the liner material - see table "liner material" |
| operating pressure | 0...6bar, lug type installation without counter flange see table "pressure stability" |
| flow direction | any |
| type of fixing | installed into rigid pipework between two flanges according to EN1092 form 01, 11, 32, 34 |
| mounting position | when used for solids shaft horizontal, for all other applications any |
| special versions | gear box, diameter until DN800, ATEX II 2 GD Ex h X |

type code

| | | BU | W | 1 | -050 | -D | S | C | S | -L | -A |
|---|---|----|---|---|------|----|---|----|---|----|----|
| butterfly valve | | | | | | | | | | | |
| flanged type | lug | | L | | | | | | | | |
| | wafer | | W | | | | | | | | |
| operating pressure/flange mounting | 6bar...PN6 | | | 1 | | | | | | | |
| nominal diameter | 40mm | | | | 040 | | | | | | |
| | 50mm | | | | 050 | | | | | | |
| | 65mm | | | | 065 | | | | | | |
| | 80mm | | | | 080 | | | | | | |
| | 100mm | | | | 100 | | | | | | |
| | 125mm | | | | 125 | | | | | | |
| | 150mm | | | | 150 | | | | | | |
| | 200mm | | | | 200 | | | | | | |
| | 250mm | | | | 250 | | | | | | |
| | 300mm | | | | 300 | | | | | | |
| body | EN-GJS-400-15 | | | | | D | | | | | |
| disc | stainless steel AISI 316 | | | | | | S | | | | |
| | EN-GJS-400-15 zinc plated | | | | | | P | | | | |
| | steel zinc plated | | | | | | U | | | | |
| liner | NBR carboxylated | | | | | | | C | | | |
| | EPDM | | | | | | | E | | | |
| | hypalone | | | | | | | H | | | |
| | NBR | | | | | | | N | | | |
| | polyurethane | | | | | | | P1 | | | |
| | silicone | | | | | | | S | | | |
| | FKM | | | | | | | V | | | |
| | EPDM-white | | | | | | | W | | | |
| | EPDM HT | | | | | | | X | | | |
| shaft | stainless steel AISI 430 (blank position) | | | | | | | | | | |
| | stainless steel AISI 316 | | | | | | | S | | | |
| actuation | bare shaft | | | | | | | | | B | |
| | gear box | | | | | | | | | G | |
| | hand lever aluminum 10 positions | | | | | | | | | L | |
| | hand lever aluminum adjustable | | | | | | | | | R | |
| special versions | ATEX | | | | | | | | | | A |
| | free of oil and grease | | | | | | | | | | G |
| | silicone-free | | | | | | | | | | S |

liner material

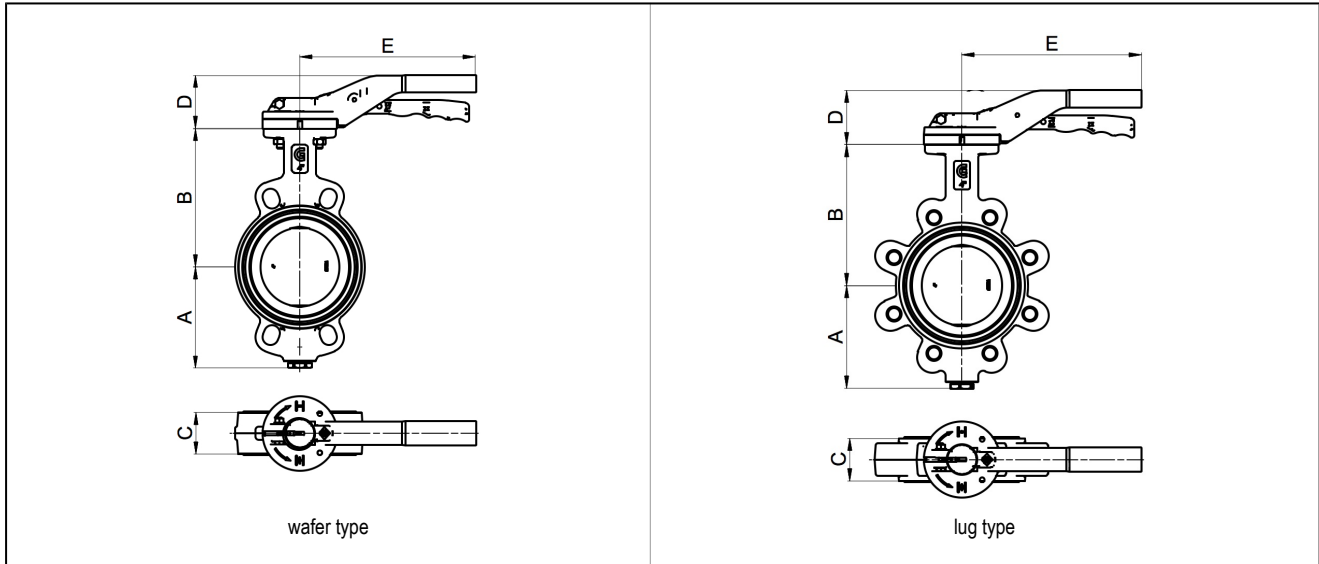
| material | medium temperature | examples of use |
|------------------|---------------------|---|
| EPDM | -10 (-35)*...+130°C | hot water, cold water, neutral gases and liquids |
| EPDM-white | -10 (-30)*...+130°C | granulate material |
| EPDM HT | -10 (-30)*...+150°C | steam, hot water, cold water, neutral gases and liquids |
| FKM | -10 (-20)*...+200°C | petrol, diesel, oils |
| NBR | -10 (-25)*...+100°C | cold water, air, neutral gases and liquids |
| NBR carboxylated | -10 (-25)*...+100°C | abrasive media as sand, cement |
| polyurethane | -10 (-25)*...+90°C | abrasive media as sand, cement |

neoprene, silicone, hypalone and natural rubber are available on request
*lower medium temperatures on request

pressure stability

| type | jammed between two flanges | end armature without counter flange |
|------------|----------------------------|-------------------------------------|
| wafer type | 6bar | - |
| lug type | 6bar | 4bar |

dimensions



| nominal diameter DN [mm] | A | B | C | D | E | stem square diagonal [mm] | flange ISO 5211 | weight [app. kg] | |
|-----------------------------|-----|-----|----|----|-----|------------------------------|--------------------|---------------------|------|
| | | | | | | | | wafer | lug |
| 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 |

kv value [m³/h]

| nominal diameter DN [mm] | Opening angle of the butterfly valve | | | | | | | | |
|-----------------------------|--------------------------------------|-----|-----|-----|------|------|------|------|------|
| | 10° | 20° | 30° | 40° | 50° | 60° | 70° | 80° | 90° |
| 40 | - | 0,9 | 6,1 | 15 | 29 | 53 | 92 | 115 | 116 |
| 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 |

illustrations are non-binding
all designs, configurations, measurements and materials are subject to change without prior notice