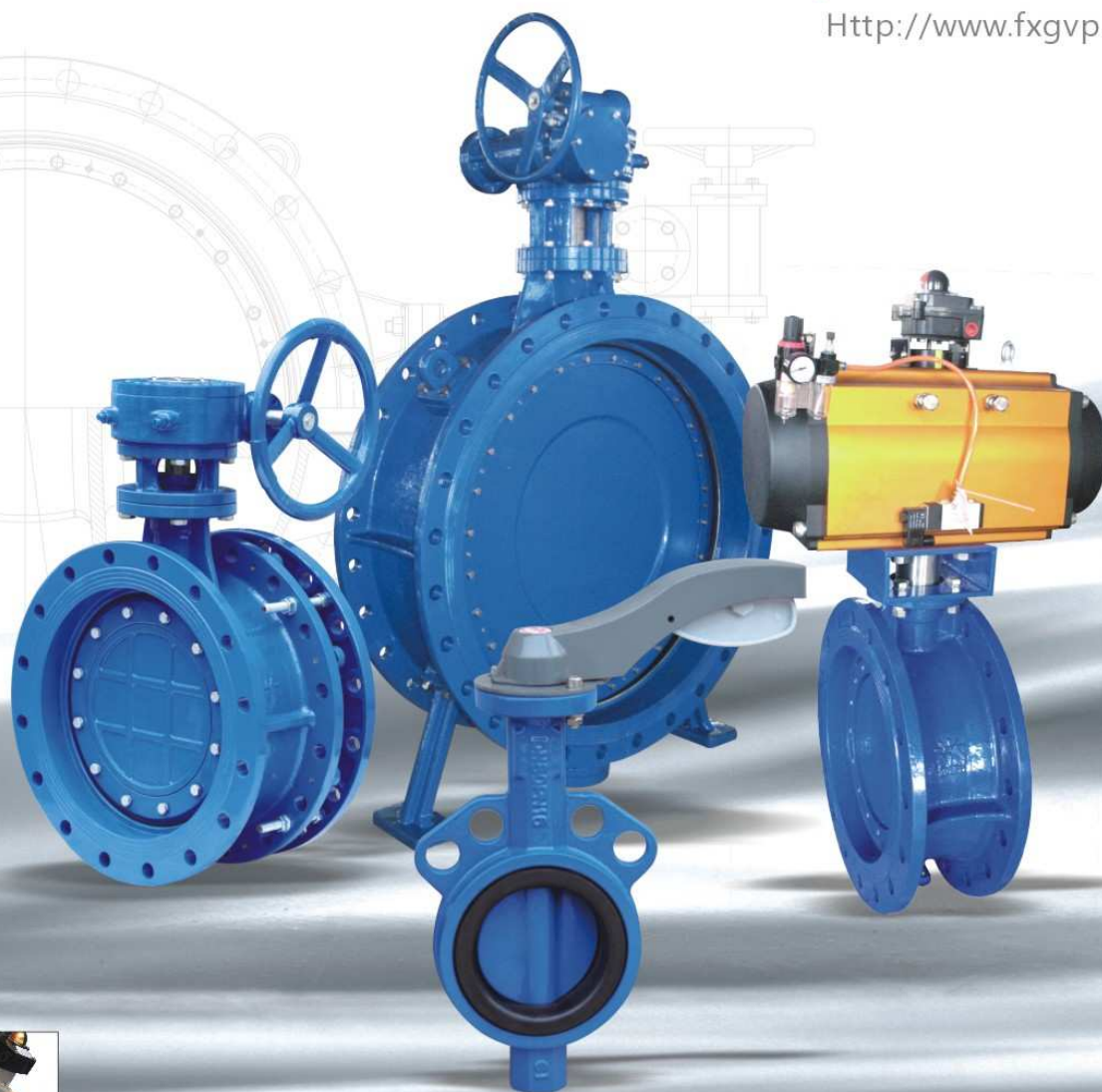


# GVP<sup>®</sup> VALVE

## Butterfly Valve Series

[Http://www.fxgvp.com](http://www.fxgvp.com)



- Double Eccentric Flange Butterfly Valves
- Wafer Butterfly Valves
- Lug Butterfly Valves
- Flange Butterfly Valves



**安徽方兴实业股份有限公司**  
ANHUI FANGXING INDUSTRIAL CO., LTD.

## BRIEF INTRODUCTION

Anhui Fangxing Industrial Co., Ltd, with over 20 years of valve manufacturing history since 1994, is a professional enterprise specialized in R&D, manufacturing and sales of valves and pipe-fittings, covering an area of more than 100,000 square meters with 88 million yuan of registered capital. Under the company are five subsidiaries including Fangxing International Trade Co., Fangxing Casting Co., Yongxing Casting Co., Zhenqing Logistics Co. etc., and it possesses two self-owned brands named "GVP" and "Fangxing", with more than 200 employees. In addition, our company has set up the provincial technology R&D center and equipped with precise production, machining and testing equipments, with annual output of 200,000 valves and 10,000 tons of castings, which ensures Fangxing as the leading manufacturing enterprise of water supply valves in China, as well as Anhui key production and export enterprise of mechanical and electrical products.

Fangxing owns the manufacturing license qualification of pressure pipeline equipment, and is the licensed enterprise to manufacture national water-saving and water sanitation security products. We strictly execute the international 6S on-site management system and quality control system, and participated to formulate Chinese national standard "resilient seated gate valve for water supply system", successively passed ISO9001 quality management system certification, ISO14001 Environment Management System Certification, OHSAS18001 Occupational Health Management System Certification, and our main products passed CE European Conformity Certification, Britain WRAS Water Regulations Advisory Scheme, French ACS Sanitation Conformity Certification, Russian GOST National Quality System Certification as well as EN1074 Type Approval Certification.

We provide high quality valves and pipe fittings to the water industrial systems of the world based on the international standard and first-class quality.





## PRODUCTION AND EQUIPMENT

Quality is the life of the enterprise, the company carries forward the enterprise culture and implements quality guarantee system internally, and transmits enterprise spirit and establishes brand conception externally, to ensure product quality, our company has been equipped with first class production and inspection equipment.



# COMPANY QUALIFICATION

Honor originates from devotion , every recognized certificate concentrates struggling efforts of FANGXING personnel , and every honor is our golden card and passport ,they are our road signs and our experiences..

## WE ARE

- Member of China Valves Association
- Anhui Famous Brand
- "Class AA company" of Chinese Customs
- High-tech Enterprise
- Accredited Technical Center

## WE ARE APPROVED BY

- ISO9001
- ISO14001
- OHSAS 18001
- CE
- EN1074
- WRAS
- ACS
- GOST



**WRAS** **CE**





## TEST & INSPECTION FACILITIES



01



02



03



04



05



06



07



08



09

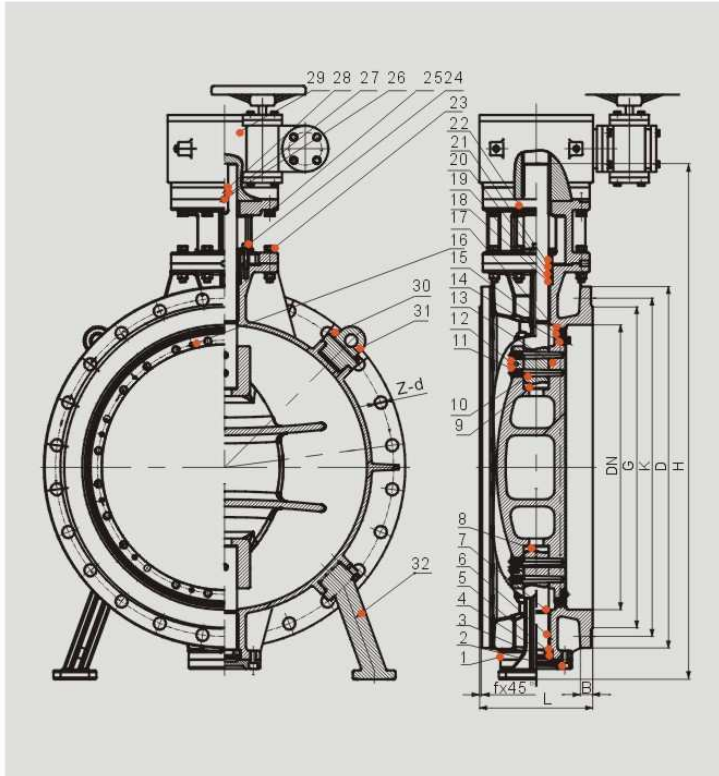


10



## DOUBLE ECCENTRIC FLANGE BUTTERFLY VALVES

DN100-DN1800 (DIN/BS)



## APPLICATION STANDARDS

- ⊙ Design standard: GB12238, BS5155, EN593 and API609
- ⊙ Face to face: according to EN558-1 series 13, EN558-1 series 14, AWWA C504
- ⊙ Flange drilling: according to EN1092 PN10-16
- ⊙ Size scope: DN100-DN1800
- ⊙ Working temperature : NBR 0-70℃, EPDM 0-80℃
- ⊙ Working pressure: PN10-16
- ⊙ Suitable medium: Water
- ⊙ Coating Epoxy coating with thickness  $\geq 250\mu\text{m}$



## DOUBLE ECCENTRIC FLANGE BUTTERFLY VALVES

## PARTS LIST

| No. | Part name                       | Material            |
|-----|---------------------------------|---------------------|
| 1   | Body                            | Ductile iron+2Cr13  |
| 2   | Bottom cover                    | A3 steel            |
| 3   | Bolt                            | 304                 |
| 4   | "O"ring                         | NBR                 |
| 5   | Split collar                    | HPb59-1             |
| 6   | Bushing                         | A3 Steel            |
| 7   | "O"ring                         | NBR                 |
| 8   | Lower stem                      | 2Cr13               |
| 9   | Upper stem                      | 2Cr13               |
| 10  | Taper pins with internal thread | 2Cr13               |
| 11  | Washer                          | 2Cr13               |
| 12  | Bolt                            | 201                 |
| 13  | Disc                            | Ductile iron        |
| 14  | Disc clamp                      | Ductile iron        |
| 15  | Bolt, Spring washer, Washer     | 304, 304, 65Mn, 304 |
| 16  | Bolt                            | 201                 |

| No. | Part name                        | Material            |
|-----|----------------------------------|---------------------|
| 17  | Seal ring                        | NBR/EPDM            |
| 18  | Retaining ring                   | PTFE                |
| 19  | "V"Ring                          | NBR                 |
| 20  | Washer                           | PTFE                |
| 21  | Cover                            | Ductile iron        |
| 22  | Inspection port                  | Ductile iron        |
| 23  | Bolt, Spring washer, Washer, Nut | 304, 65Mn, 304, 316 |
| 25  | Bolt, washer,                    | 304, 304            |
| 24  | Bolt, Spring washer, Washer      | 304, 65Mn, 304      |
| 26  | Cylindrical Pin                  | 2Cr13               |
| 27  | Flat Pin                         | 45# Steel           |
| 28  | Flat Pin                         | 45# Steel           |
| 29  | Actuator                         | IP65                |
| 30  | Bolt, washer                     | 304, 304            |
| 31  | Liftring                         | Ductile iron        |
| 32  | Foot                             | Ductile iron        |

## DIMENSIONS

| Size |        | L     |       |      | D    |      | K    |      | G    |      | f | n-ϕ d   |         | b    |      |
|------|--------|-------|-------|------|------|------|------|------|------|------|---|---------|---------|------|------|
|      |        | Long  | Short | AWWA |      |      |      |      |      |      |   | PN10    | PN16    | PN10 | PN16 |
|      | DN     | F4/14 | 13    | C504 | PN10 | PN16 | PN10 | PN16 | PN10 | PN16 |   |         |         |      |      |
| 4"   | DN100  | 190   | 127   | 127  | 220  |      | 180  |      | 156  |      | 3 | 8-ϕ 19  |         | 19   |      |
| 5"   | DN125  | 200   | 140   |      | 250  |      | 210  |      | 184  |      | 3 | 8-ϕ 19  |         | 19   |      |
| 6"   | DN150  | 210   | 140   | 127  | 285  |      | 240  |      | 211  |      | 3 | 8-ϕ 23  |         | 19   |      |
| 8"   | DN200  | 230   | 152   | 152  | 340  |      | 295  |      | 266  |      | 3 | 8-ϕ 23  | 12-ϕ 23 | 20   |      |
| 10"  | DN250  | 250   | 165   | 203  | 395  | 405  | 350  | 355  | 319  |      | 3 | 12-ϕ 23 | 12-ϕ 28 | 22   |      |
| 12"  | DN300  | 270   | 178   | 203  | 445  | 460  | 400  | 410  | 370  |      | 4 | 12-ϕ 23 | 12-ϕ 28 | 24.5 |      |
| 14"  | DN350  | 290   | 190   | 203  | 505  | 520  | 460  | 470  | 429  |      | 4 | 16-ϕ 23 | 16-ϕ 28 | 24.5 | 26.5 |
| 16"  | DN400  | 310   | 216   | 203  | 565  | 580  | 515  | 525  | 480  |      | 4 | 16-ϕ 28 | 16-ϕ 31 | 24.5 | 28   |
| 18"  | DN450  | 330   | 222   | 203  | 615  | 640  | 565  | 585  | 530  | 548  | 4 | 20-ϕ 28 | 20-ϕ 31 | 25.5 | 30   |
| 20"  | DN500  | 350   | 229   | 203  | 670  | 715  | 620  | 650  | 582  | 609  | 4 | 20-ϕ 28 | 20-ϕ 34 | 26.5 | 31.5 |
| 24"  | DN600  | 390   | 267   | 203  | 780  | 840  | 725  | 770  | 682  | 720  | 5 | 20-ϕ 31 | 20-ϕ 37 | 30   | 36   |
| 28"  | DN700  | 430   | 292   | -    | 895  | 910  | 840  |      | 794  |      | 5 | 24-ϕ 31 | 24-ϕ 37 | 32.5 | 39.5 |
| 32"  | DN800  | 470   | 318   | -    | 1015 | 1025 | 950  |      | 901  |      | 5 | 24-ϕ 34 | 24-ϕ 41 | 35   | 43   |
| 36"  | DN900  | 510   | 330   | 305  | 1115 | 1125 | 1050 |      | 1001 |      | 5 | 28-ϕ 34 | 28-ϕ 41 | 37.5 | 46.5 |
| 40"  | DN1000 | 550   | 410   | -    | 1230 | 1255 | 1160 | 1170 | 1112 |      | 5 | 28-ϕ 37 | 28-ϕ 44 | 40   | 50   |
| 48"  | DN1200 | 630   | 470   | 381  | 1455 | 1485 | 1380 | 1390 | 1328 |      | 5 | 32-ϕ 41 | 32-ϕ 50 | 45   | 57   |
| 56"  | DN1400 | -     | 530   | -    | -    | 1675 | -    | 1590 | 1530 |      | 5 | -       | 48-ϕ 49 | -    | 46   |
| 64"  | DN1600 | -     | 600   | -    | -    | 1915 | -    | 1820 | 1750 |      | 5 | -       | 44-ϕ 49 | -    | 49   |
| 72"  | DN1800 | -     | 670   | -    | -    | 2115 | -    | 2020 | 1950 |      | 5 | -       | 40-ϕ 49 | -    | 53   |



## SAFETY

The reliability of top seal has been enhanced by using the double sealing of "O" ring and "V" rings. The "O" ring is located between the stem and the body to ensure the first sealing performance. The second seal is combined by V-shaped seal rings which achieve sealing requirements by the extrusion of the gland.

There is yoke between the body and operator. Once the leakage occurs in the top, the valves can be repaired without taking apart the gear-boxes or actuators. In this case, we just need to tighten the bolts of the gland, or remove the gland and add new "V" ring, the problem can be solved.

After the valves pass the test, the cylindrical pin is punched between the yoke and top flange to fix the position. This ensures the stability of the quality.



The disc is fixed with taper pins, the taper pins were fixed on the disc with shim and bolts. This effectively prevents the taper pin from loosening, and ensures that the connection of the disc and the stem was more stable.



The body is sealed by stainless steel body seat and rubber sealing ring of the disc. The high hardness and good resistance of attrition of the stainless steel seat ensure the long service life of the valves.





## ENVIRONMENTAL-FRIENDLY

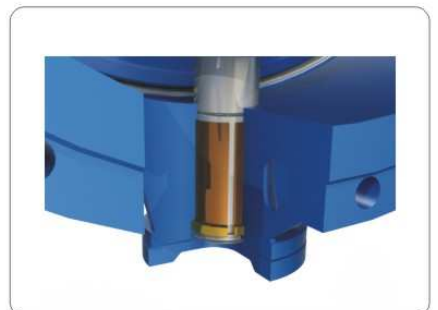
The rubber sealing ring of the disc is fixed in the groove by two sets of bolts and one retainer ring. The rubber ring is extruded and deformed by adjusting the first set of the bolts to form the seal with the body seat, and the second set of bolts were used to maintain the deformation of the sealing ring. In the use, if there was the leakage in the body seat, the two sets of bolts can be adjusted to seal.



There are four connecting devices around the body, the body feet and hoisting rings can be mounted on these devices. It's easy to install the valves vertically or horizontally by changing the installation position of the body feet and the hoisting rings.

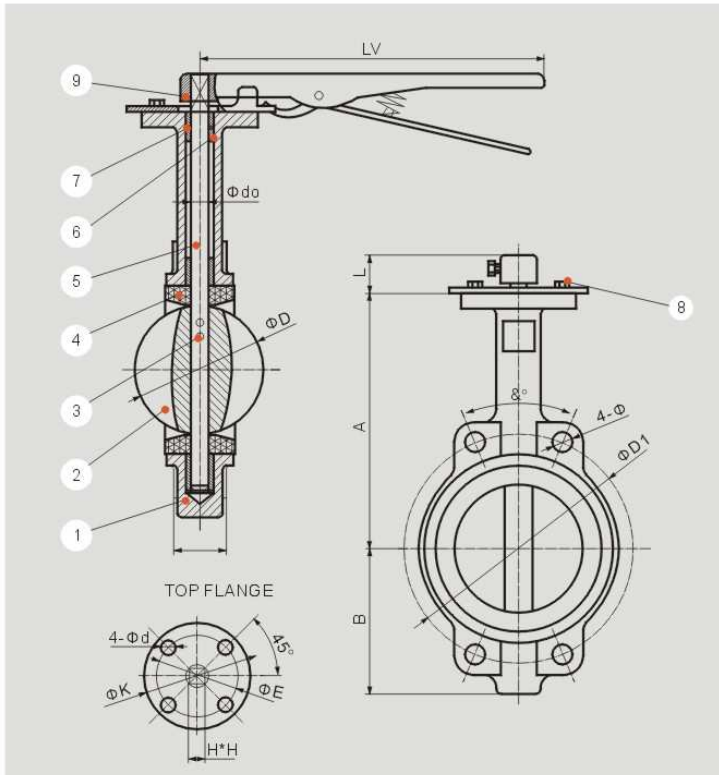


There are two "O" rings in the bottom seal, one is between the body and stem, another is between the body and bottom seal. The sealing performance is improved with double protection.



## WAFER BUTTERFLY VALVES

### DN50-DN1200 (DIN/BS)



### APPLICATION STANDARDS

- Design standard: EN593/API609
- Face to face: according to EN558-1 series 20
- Flange drilling: according to EN1092 PN10-16
- Size scope: DN40-DN1200 (DIN/BS)
- Working temperature: NBR 0-70°C, EPDM 0-80°C
- Working pressure: PN10-16
- Suitable medium: Water
- Coating: Epoxy coating with thickness  $\geq 250\mu\text{m}$

### PARTS LIST

| No. | Part Name      | Material                             |
|-----|----------------|--------------------------------------|
| 1   | Body           | Cast Iron/Ductile Iron               |
| 2   | Disc           | Ductile Iron/SS304                   |
| 3   | Pin            | Stainless steel                      |
| 4   | Seat           | EPDM                                 |
| 5   | Stem           | 2Cr13                                |
| 6   | Bushing        | P.T.F.E.                             |
| 7   | O- ring        | NBR                                  |
| 8   | Indicator      | Carbon steel                         |
| 9   | Lever/Gear-box | Malleable iron/Ductile iron/Aluminum |



# WAFER BUTTERFLY VALVES

## DIMENSIONS

## DN50-300

| DN  | A   | B   | C    | D     | Lo  | do    | ISD5211 | L  | K   | E   | 4-Φd  | 4-Φ   | D1  | α°  | HxH   |
|-----|-----|-----|------|-------|-----|-------|---------|----|-----|-----|-------|-------|-----|-----|-------|
| 50  | 161 | 80  | 42   | 52.9  | 266 | 12.6  | F07     | 30 | 90  | 70  | 4-Φ10 | 4-Φ18 | 125 | 90° | 9x9   |
| 65  | 175 | 89  | 44.7 | 64.5  | 266 | 12.6  | F07     | 30 | 90  | 70  | 4-Φ10 | 4-Φ18 | 145 | 90° | 9x9   |
| 80  | 181 | 95  | 45.2 | 78.8  | 266 | 12.6  | F07     | 30 | 90  | 70  | 4-Φ10 | 4-Φ18 | 160 | 45° | 11x11 |
| 100 | 200 | 114 | 52   | 104   | 266 | 15.77 | F07     | 30 | 90  | 70  | 4-Φ10 | 4-Φ18 | 180 | 45° | 11x11 |
| 125 | 213 | 127 | 54.5 | 123.3 | 266 | 18.92 | F07     | 30 | 90  | 70  | 4-Φ10 | 4-Φ18 | 210 | 45° | 14x14 |
| 150 | 226 | 139 | 55.8 | 155.1 | 266 | 18.92 | F07     | 30 | 90  | 70  | 4-Φ10 | 4-Φ22 | 240 | 45° | 14x14 |
| 200 | 260 | 175 | 60.6 | 202.5 | 355 | 22.1  | F10     | 40 | 125 | 102 | 4-Φ12 | 4-Φ22 | 295 | 30° | 17x17 |
| 250 | 292 | 203 | 65.6 | 250.5 | 505 | 28.45 | F10     | 40 | 125 | 102 | 4-Φ12 | 4-Φ26 | 355 | 30° | 22x22 |
| 300 | 337 | 242 | 76.9 | 301.6 | 505 | 31.6  | F10     | 40 | 140 | 102 | 4-Φ12 | 4-Φ26 | 410 | 30° | 22x22 |

## DIMENSIONS

## DN350-600

| DN  | A   | B   | C    | D     | d0    | IS05211 | L  | K   | E   | 4-Φd  | D1  | n-Φ    | α°   | HxH   |
|-----|-----|-----|------|-------|-------|---------|----|-----|-----|-------|-----|--------|------|-------|
| 350 | 368 | 267 | 76.5 | 333.3 | 31.6  | F10     | 45 | 140 | 102 | 4-Φ12 | 470 | 4-Φ26  | 22.5 | 22x22 |
| 400 | 400 | 309 | 86.5 | 389.6 | 33.15 | F14     | 52 | 197 | 140 | 4-Φ18 | 528 | 4-Φ30  | 22.5 | 27x27 |
| 450 | 422 | 328 | 102  | 440.5 | 38    | F14     | 52 | 197 | 140 | 4-Φ18 | 585 | 4-Φ30  | 18   | 27x27 |
| 500 | 480 | 361 | 127  | 491.6 | 41.15 | F14     | 65 | 197 | 140 | 4-Φ18 | 650 | 4-Φ33  | 18   | 36x36 |
| 600 | 562 | 459 | 152  | 592.5 | 50.65 | F16     | 70 | 276 | 165 | 4-Φ22 | 770 | 20-Φ36 | 18   | --    |

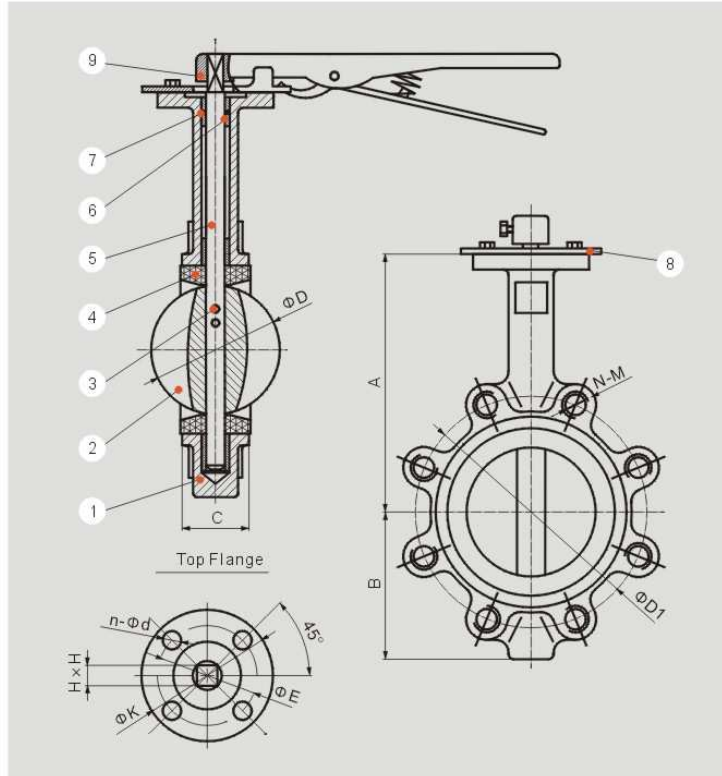
## DIMENSIONS

## DN700-1200

| DN   | A   | B   | C   | D      | d0    | IS0521 | L   | G    | F1  | F2  | F3  | F4  | F5  | H   | ΦD1  | n-Φ   | 4-M   | ΦK  | ΦE  | 8-Φd  | Jx2 |
|------|-----|-----|-----|--------|-------|--------|-----|------|-----|-----|-----|-----|-----|-----|------|-------|-------|-----|-----|-------|-----|
| 700  | 624 | 520 | 163 | 695    | 63.35 | F25    | 100 | 895  | 165 | 162 | 189 | 183 | 244 | 157 | 840  | 20-36 | 4-M33 | 300 | 254 | 8-Φ18 | 18  |
| 750  | 660 | 539 | 167 | 744.4  | 63.35 | F25    | 110 | 984  | 165 | 162 | 189 | 183 | 244 | 157 | 900  | 20-36 | 4-M33 | 300 | 254 | 8-Φ18 | 18  |
| 800  | 672 | 591 | 188 | 794.7  | 63.35 | F25    | 110 | 1015 | 165 | 162 | 199 | 183 | 244 | 157 | 950  | 20-39 | 4-M36 | 300 | 254 | 8-Φ18 | 18  |
| 900  | 720 | 656 | 203 | 865    | 75    | F25    | 118 | 1115 | 215 | 196 | 220 | 215 | 270 | 235 | 1050 | 24-39 | 4-M36 | 300 | 254 | 8-Φ18 | 20  |
| 1000 | 800 | 721 | 216 | 965    | 85    | F25    | 142 | 1230 | 215 | 196 | 220 | 215 | 270 | 235 | 1170 | 24-42 | 4-M39 | 300 | 254 | 8-Φ18 | 20  |
| 1200 | 941 | 846 | 276 | 1160.6 | 105   | F30    | 154 | 1455 | 215 | 295 | 214 | 310 | 458 | 310 | 1390 | 28-48 | 4-M45 | 350 | 298 | 8-Φ22 | 28  |

## LUG BUTTERFLY VALVES

DN50-DN1200



## PARTS LIST

| No. | Part Name      | Material                              |
|-----|----------------|---------------------------------------|
| 1   | Body           | Cast Iron/Ductile Iron                |
| 2   | Disc           | Ductile Iron/SS304                    |
| 3   | Pin            | Stainless steel                       |
| 4   | Seat           | EPDM                                  |
| 5   | Stem           | 2Cr13                                 |
| 6   | Bushing        | P.T.F.E.                              |
| 7   | O-ring         | EPDM                                  |
| 8   | Indicator      | Carbon steel                          |
| 9   | Lever/Gear-box | Malleable iron/Ductile iron/ Aluminum |

## APPLICATION STANDARDS

- Working pressure: PN 10/16
- Working pressure: NBR 0-70°C EPDM 0-80°C

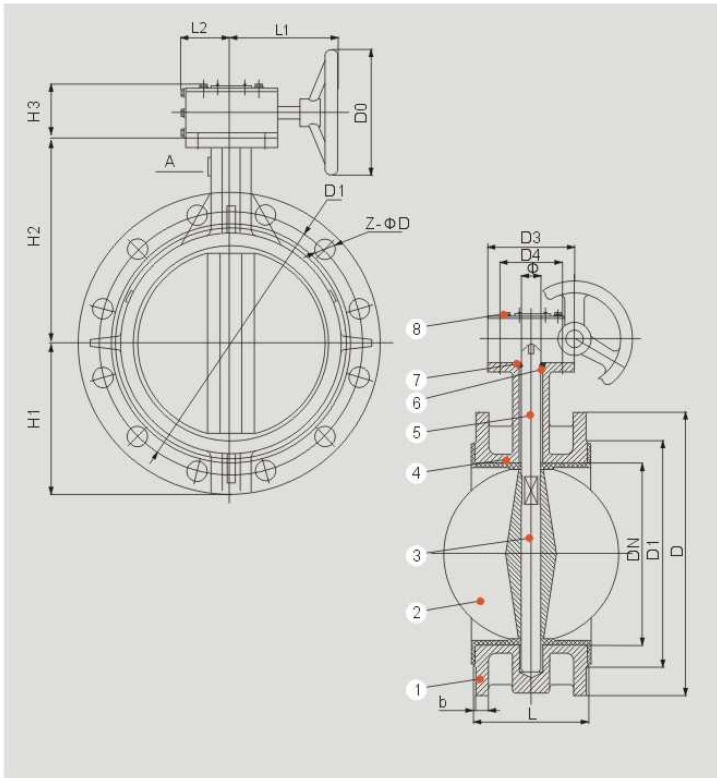
- Design standard: EN1171: 2002
- Face to face is according to: DIN 3202 K1
- Flange drilled is according to: EN1092:1997-PN10/16.

## DIMENSIONS

| DN   | A   | B   | C    | D     | ISO5211 | n-φd  | K   | E   | D1   |      | N-M    |        |
|------|-----|-----|------|-------|---------|-------|-----|-----|------|------|--------|--------|
|      |     |     |      |       |         |       |     |     | PN10 | PN16 | PN10   | PN16   |
| 50   | 161 | 80  | 42   | 52.9  | F07     | 4-φ9  | 90  | 70  | 125  |      | 4-M16  |        |
| 65   | 175 | 89  | 44.7 | 64.5  | F07     | 4-φ9  | 90  | 70  | 145  |      | 4-M16  |        |
| 80   | 181 | 95  | 45.2 | 78.8  | F07     | 4-φ9  | 90  | 70  | 160  |      | 8-M16  |        |
| 100  | 200 | 114 | 52   | 104   | F07     | 4-φ9  | 90  | 70  | 180  |      | 8-M16  |        |
| 125  | 213 | 127 | 55.4 | 123.3 | F07     | 4-φ9  | 90  | 70  | 210  |      | 8-M16  |        |
| 150  | 226 | 139 | 55.8 | 155.1 | F07     | 4-φ9  | 90  | 70  | 240  |      | 8-M20  |        |
| 200  | 260 | 175 | 60.6 | 202.5 | F10     | 4-φ12 | 125 | 102 | 295  |      | 8-M20  | 12-M20 |
| 250  | 292 | 203 | 65.6 | 250.5 | F10     | 4-φ12 | 125 | 102 | 355  |      | 12-M20 | 12-M24 |
| 300  | 337 | 242 | 76.9 | 301.6 | F10     | 4-φ12 | 125 | 102 | 410  |      | 12-M20 | 12-M24 |
| 350  | 368 | 267 | 76.5 | 333.3 | F10     | 4-φ12 | 125 | 102 | 470  |      | 16-M20 | 16-M24 |
| 400  | 400 | 309 | 86.5 | 389.6 | F14     | 4-φ18 | 197 | 140 | 525  |      | 16-M24 | 16-M27 |
| 450  | 422 | 328 | 102  | 440.5 | F14     | 4-φ18 | 197 | 140 | 585  |      | 20-M24 | 20-M27 |
| 500  | 480 | 361 | 127  | 491.6 | F14     | 4-φ18 | 197 | 140 | 650  |      | 20-M24 | 20-M30 |
| 600  | 562 | 459 | 152  | 592.5 | F14     | 4-φ18 | 197 | 140 | 770  |      | 20-M27 | 20-M33 |
| 700  | 624 | 520 | 163  | 695   | F25     | 8-φ18 | 300 | 254 | 840  |      | 24-M27 | 24-M33 |
| 750  | 660 | 539 | 167  | 745   | F25     | 8-φ18 | 300 | 254 | 900  |      | 24-M30 | 24-M33 |
| 800  | 672 | 591 | 188  | 795   | F25     | 8-φ18 | 300 | 254 | 950  |      | 24-M30 | 24-M36 |
| 900  | 720 | 656 | 203  | 865   | F25     | 8-φ18 | 300 | 254 | 1050 |      | 28-M30 | 28-M36 |
| 1000 | 800 | 721 | 216  | 965   | F25     | 8-φ18 | 300 | 254 | 1160 | 1170 | 28-M33 | 28-M39 |
| 1200 | 941 | 864 | 276  | 1180  | F30     | 8-φ22 | 350 | 298 | 1380 | 1390 | 32-M36 | 32-M45 |

## FLANGE BUTTERFLY VALVES

## DN50-DN1400



## PARTS LIST

| No. | Part Name | Material               |
|-----|-----------|------------------------|
| 1   | Body      | Cast Iron/Ductile Iron |
| 2   | Disc      | Ductile Iron/SS304     |
| 3   | Pin       | Stainless steel        |
| 4   | Seat      | EPDM                   |
| 5   | Stem      | 2Cr13                  |
| 6   | Bushing   | P.T.F.E.               |
| 7   | O-ring    | EPDM                   |
| 8   | Indicator | Carbon steel           |

## APPLICATION STANDARDS

- Design standard: EN593/API609
- Face to face according to EN558-1 series 13, EN558-1 series 14, AWWA C504
- Flange end drilling is according to EN1092 PN10-16, ASME B 16.1-16.5
- Size scope: DN50-DN1400

- Working temperature : NBR 0-70℃, EPDM 0-120℃
- Working pressure: PN10-16, Class 125-150
- Suitable medium: Water
- Coating: Epoxy coating with thickness  $\geq 250\mu\text{m}$

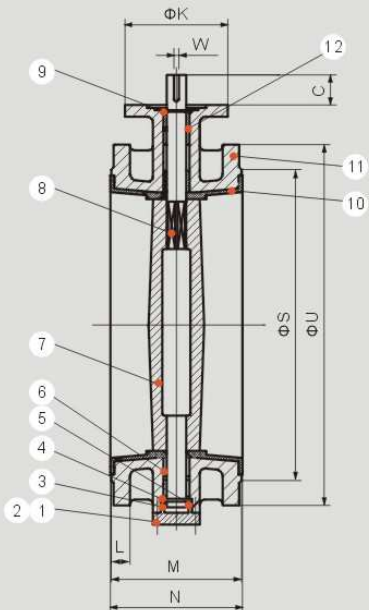
## DIMENSIONS

| DN   | L   | L1  | D    |      | D1   |      | D3  | D4  | H1  | H2  | H3  | b  | Z-φd  |       |
|------|-----|-----|------|------|------|------|-----|-----|-----|-----|-----|----|-------|-------|
|      |     |     | 1.0  | 1.6  | 1.0  | 1.6  |     |     |     |     |     |    | 1.0   | 1.6   |
| 50   | 108 | 160 | 165  | 165  | 125  | 125  | 70  | 50  | 83  | 130 | 60  | 18 | 4-18  | 4-18  |
| 65   | 112 | 160 | 185  | 185  | 145  | 145  | 70  | 50  | 93  | 140 | 60  | 18 | 4-18  | 4-18  |
| 80   | 114 | 160 | 200  | 200  | 160  | 160  | 70  | 50  | 100 | 150 | 60  | 20 | 8-18  | 8-18  |
| 100  | 127 | 160 | 220  | 220  | 180  | 180  | 90  | 70  | 110 | 165 | 60  | 20 | 8-18  | 8-18  |
| 125  | 140 | 160 | 250  | 250  | 210  | 210  | 90  | 70  | 123 | 180 | 60  | 22 | 8-18  | 8-18  |
| 150  | 140 | 160 | 285  | 285  | 240  | 240  | 90  | 70  | 143 | 200 | 60  | 22 | 8-22  | 8-22  |
| 200  | 152 | 210 | 340  | 340  | 295  | 295  | 125 | 102 | 171 | 230 | 72  | 24 | 8-22  | 12-22 |
| 250  | 165 | 210 | 390  | 405  | 350  | 355  | 125 | 102 | 203 | 270 | 72  | 24 | 12-22 | 12-26 |
| 300  | 178 | 210 | 440  | 460  | 400  | 410  | 150 | 125 | 230 | 320 | 758 | 26 | 12-22 | 12-26 |
| 350  | 190 | 210 | 500  | 520  | 460  | 470  | 150 | 125 | 260 | 350 | 75  | 26 | 16-22 | 16-26 |
| 400  | 216 | 320 | 565  | 580  | 515  | 525  | 175 | 140 | 300 | 390 | 126 | 28 | 16-26 | 16-30 |
| 450  | 222 | 320 | 615  | 640  | 565  | 585  | 175 | 140 | 335 | 428 | 126 | 30 | 20-26 | 20-30 |
| 500  | 229 | 320 | 670  | 715  | 620  | 650  | 210 | 165 | 373 | 450 | 126 | 32 | 20-26 | 20-33 |
| 600  | 267 | 340 | 780  | 840  | 725  | 770  | 210 | 165 | 430 | 520 | 127 | 34 | 20-30 | 20-36 |
| 700  | 292 | 380 | 895  | 910  | 840  | 840  | 300 | 254 | 470 | 600 | 167 | 36 | 24-30 | 24-36 |
| 800  | 318 | 380 | 1015 | 1025 | 950  | 950  | 300 | 254 | 523 | 662 | 167 | 36 | 24-30 | 24-39 |
| 900  | 330 | 400 | 1115 | 1125 | 1050 | 1050 | 300 | 254 | 589 | 710 | 193 | 40 | 28-33 | 28-39 |
| 1000 | 410 | 400 | 1230 | 1255 | 1160 | 1170 | 300 | 254 | 656 | 780 | 193 | 42 | 28-36 | 28-42 |
| 1200 | 470 | 440 | 1405 | 1485 | 1340 | 1390 | 300 | 254 | 732 | 840 | 205 | 46 | 32-37 | 32-49 |
| 1400 | 530 | 440 | 1630 | 1685 | 1560 | 1590 | 300 | 254 | 840 | 905 | 212 | 50 | 36-37 | 36-49 |



## U TYPE BUTTERFLY VALVES

DN50-DN1200



## APPLICATION STANDARDS

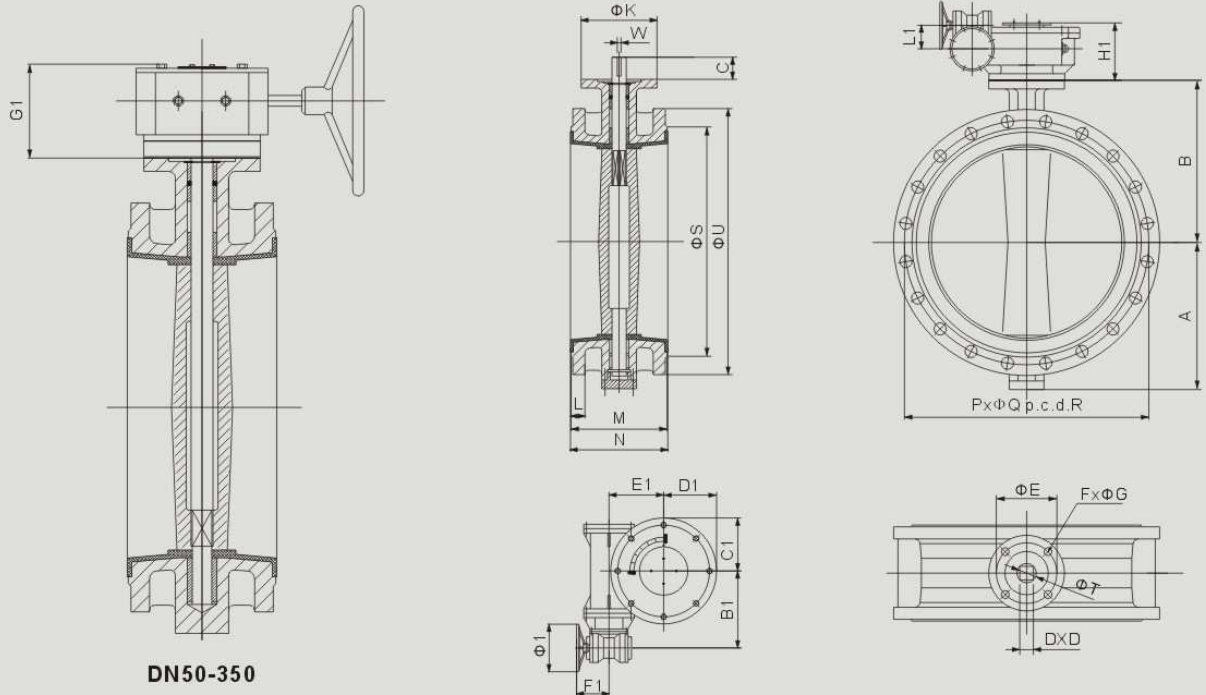
- ⊙ Design code: En593
- ⊙ Inspection & test: EN12266-1
- ⊙ End standard: BS 4504 Pn16
- ⊙ Face to Face: EN558-1
- ⊙ Size scope: 50-1200mm
- ⊙ Nominal Pressure: 1.6MPa
- ⊙ Shell test(water): 2.4MPa
- ⊙ Sealing test (water): 1.76MPa
- ⊙ Working temperature: 10-120℃

## PARTS LIST

| No. | Part Name     | Material        |
|-----|---------------|-----------------|
| 1   | Hex, bolt     | Carbon steel    |
| 2   | Spring gasket | Spring steel    |
| 3   | O ring        | EPDM            |
| 4   | Gasket        | Stainless steel |
| 5   | End plate     | Ductile Iron    |
| 6   | Bushing       | PTFE            |
| 7   | Disc          | Ductile Iron    |
| 8   | Shaft         | SS 410          |
| 9   | Seat          | EPDM            |
| 10  | Body          | Ductile Iron    |
| 11  | O ring        | EPDM            |

## U TYPE BUTTERFLY VALVES

## DIMENSIONS



|        | A   | B   | C   | K   | E   | F | G  | P  | Q  | R    | L    | M   | N   | S    | U    | D       | W  | T       |
|--------|-----|-----|-----|-----|-----|---|----|----|----|------|------|-----|-----|------|------|---------|----|---------|
| DN50   | 83  | 120 | 32  | 65  | 50  | 4 | 7  | 4  | 19 | 125  | 19   | 108 | 111 | 165  | 99   | 9 × 9   |    | Φ 12.6  |
| DN65   | 93  | 130 | 32  | 65  | 50  | 4 | 7  | 4  | 19 | 145  | 19   | 112 | 115 | 185  | 118  | 9 × 9   |    | Φ 12.6  |
| DN80   | 100 | 145 | 32  | 65  | 50  | 4 | 7  | 8  | 19 | 160  | 19   | 114 | 117 | 200  | 132  | 9 × 9   |    | Φ 12.6  |
| DN100  | 114 | 155 | 32  | 90  | 70  | 4 | 10 | 8  | 19 | 180  | 19   | 127 | 130 | 220  | 156  | 11 × 11 |    | Φ 15.77 |
| DN125  | 125 | 170 | 32  | 90  | 70  | 4 | 10 | 8  | 19 | 210  | 19   | 140 | 143 | 250  | 184  | 14 × 14 |    | Φ 18.92 |
| DN150  | 143 | 190 | 32  | 90  | 70  | 4 | 10 | 8  | 23 | 240  | 19   | 140 | 143 | 285  | 211  | 14 × 14 |    | Φ 18.92 |
| DN200  | 170 | 205 | 45  | 125 | 102 | 4 | 12 | 12 | 23 | 295  | 20   | 152 | 155 | 340  | 266  | 17 × 17 |    | Φ 22.1  |
| DN250  | 198 | 262 | 45  | 120 | 102 | 4 | 12 | 12 | 28 | 355  | 22   | 165 | 168 | 405  | 319  | 22 × 22 |    | Φ 28.45 |
| DN300  | 223 | 280 | 45  | 125 | 102 | 4 | 12 | 12 | 28 | 410  | 24.5 | 178 | 182 | 460  | 370  | 22 × 22 |    | Φ 31.6  |
| DN350  | 270 | 310 | 45  | 125 | 102 | 4 | 12 | 12 | 28 | 470  | 26.5 | 190 | 194 | 520  | 429  | 22 × 22 |    | Φ 31.6  |
| DN400  | 315 | 260 | 72  | 175 | 140 | 4 | 18 | 18 | 31 | 525  | 28   | 216 | 220 | 580  | 480  |         | 12 | Φ 37.9  |
| DN450  | 340 | 375 | 72  | 175 | 140 | 4 | 18 | 18 | 31 | 585  | 30   | 222 | 227 | 640  | 548  |         | 12 | Φ 42.86 |
| DN500  | 355 | 430 | 77  | 175 | 140 | 4 | 18 | 18 | 34 | 650  | 31.5 | 229 | 234 | 715  | 609  |         | 12 | Φ 45.72 |
| DN600  | 410 | 500 | 82  | 210 | 165 | 4 | 23 | 23 | 37 | 770  | 36   | 267 | 272 | 840  | 720  |         | 16 | Φ 53.98 |
| DN700  | 478 | 560 | 82  | 300 | 254 | 8 | 18 | 18 | 37 | 840  | 39.5 | 292 | 299 | 910  | 794  |         | 18 | Φ 63.35 |
| DN800  | 529 | 620 | 82  | 300 | 254 | 8 | 18 | 18 | 41 | 950  | 43   | 318 | 325 | 1025 | 901  |         | 18 | Φ 63.35 |
| DN900  | 584 | 665 | 118 | 300 | 254 | 8 | 18 | 18 | 41 | 1050 | 46.5 | 330 | 337 | 1125 | 1001 |         | 20 | Φ 75    |
| DN1000 | 657 | 735 | 140 | 300 | 254 | 8 | 18 | 18 | 44 | 1170 | 50   | 410 | 417 | 1255 | 1112 |         | 22 | Φ 85    |
| DN1200 | 779 | 917 | 150 | 350 | 298 | 8 | 22 | 22 | 50 | 1390 | 57   | 470 | 478 | 1485 | 1328 |         | 28 | Φ 105   |

## HIGH PERFORMANCE BUTTERFLY VALVE (WAFLR/LUG)

## TECHNICAL DATA

## Structure is double offset

\*Size: DN50(1.5")-DN600(24")

\*Nominal Pressure: PN10/PN16/PN20

\*Working Temperature: -10°C-+180°C

\*suitable Mediums: Corrosive fluid

\*Generally, gear operator.

\*All of DN50(1.5")-DN600(24") also can be with electric operator &amp; pneumatic according to the clients' requirements.

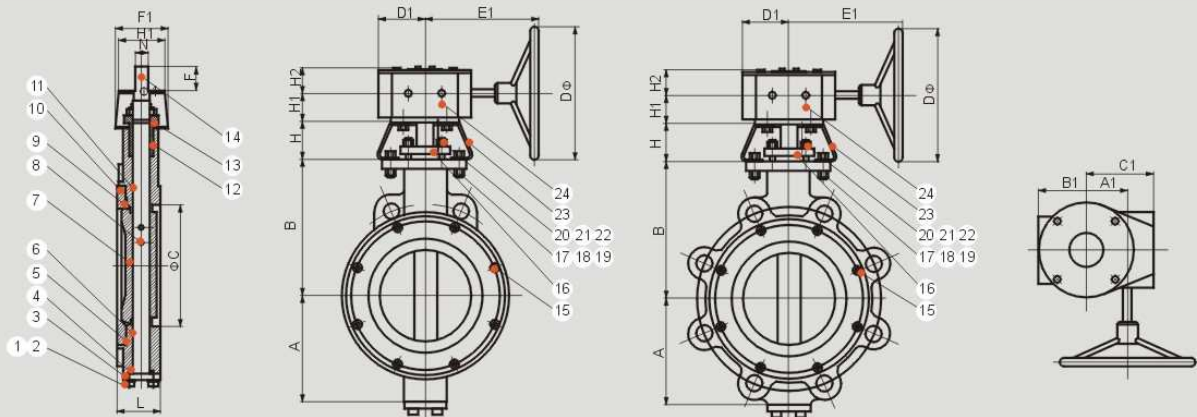
## STANDARD

\*Design &amp; Manufacture acc. to API309, MSS SP-67 BS5155, BS EN593.

\*Face to Face acc. to DIN3202, APL609, MSS SP-67, BS5155 BS EN558, ISO5752

\*Top Flange acc. To ISO5211

\*Pressure test acc. To DIN2501, ANSI125/150, AS219, BS4504, BS10D &amp; E, JIS10K



## WAFLR/LUG DN50-DN300

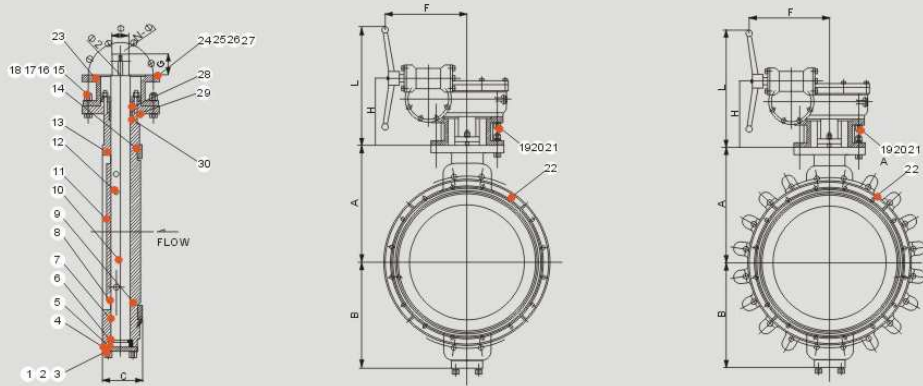
| Item | Part Name     | Materials                        | Item | Part Name     | Materials                       |
|------|---------------|----------------------------------|------|---------------|---------------------------------|
| 1    | Bolt          | Carbon steel                     | 13   | Washer        | Spring steel                    |
| 2    | Spring washer | Spring steel                     | 14   | Shaft         | SS410/SS431/SS304 /SS316/17-4PH |
| 3    | Washer        | Stainless steel                  | 15   | Bolt          | Stainless steel                 |
| 4    | "O"ring       | VITON                            | 16   | Out gland cap | CF8M                            |
| 5    | Body          | WCB/CF8/CF8M                     | 17   | Washer        | Stainless steel                 |
| 6    | Bushing       | Fiber glass composite back RPTFE | 18   | Nut           | Stainless steel                 |
| 7    | Disc          | CF8/CF8M/Duplex steel            | 19   | Bolt          | Stainless steel                 |
| 8    | Pin           | SS410/SS431/SS304 /SS316/17-4PH  | 20   | Stud          | Stainless steel                 |
| 9    | Seat          | RPTFE                            | 21   | Washer        | Stainless steel                 |
| 10   | Seat retainer | WCB/CF8/CF8M                     | 22   | Nut           | Stainless steel                 |
| 11   | Bushing       | Fiber glass composite back RPTFE | 23   | Support       | ASTMA216 WCB                    |
| 12   | Packing       | PTFE                             | 24   | Gear box      |                                 |

|       | A   | B   | H  | C   | F  | N  | Φ     | L  | H1 | H2 | A1  | B1  | C1  | D1  | E1  | ΦD  | F1  | H1 |
|-------|-----|-----|----|-----|----|----|-------|----|----|----|-----|-----|-----|-----|-----|-----|-----|----|
| DN50  | 70  | 105 | 55 | 55  | 32 | 10 | 14.3  | 43 | 36 | 25 | 45  | 55  | 68  | 68  | 157 | 200 | 58  | 70 |
| DN65  | 80  | 115 | 55 | 70  | 32 | 10 | 14.3  | 48 | 36 | 25 | 45  | 55  | 68  | 68  | 157 | 200 | 58  | 70 |
| DN80  | 90  | 125 | 55 | 86  | 32 | 10 | 14.3  | 48 | 36 | 25 | 45  | 55  | 68  | 68  | 157 | 200 | 58  | 70 |
| DN100 | 120 | 155 | 55 | 110 | 32 | 12 | 15.77 | 54 | 36 | 25 | 45  | 55  | 68  | 68  | 157 | 200 | 76  | 80 |
| DN125 | 140 | 165 | 65 | 130 | 32 | 14 | 18.92 | 57 | 46 | 34 | 63  | 76  | 103 | 103 | 210 | 300 | 95  | 76 |
| DN150 | 150 | 180 | 65 | 160 | 32 | 14 | 18.92 | 57 | 46 | 34 | 63  | 76  | 103 | 103 | 210 | 300 | 95  | 76 |
| DN200 | 170 | 205 | 65 | 210 | 45 | 17 | 22.1  | 64 | 46 | 36 | 78  | 82  | 118 | 118 | 189 | 300 | 95  | 95 |
| DN250 | 210 | 250 | 65 | 260 | 45 | 22 | 28.45 | 73 | 46 | 36 | 78  | 82  | 118 | 118 | 189 | 300 | 115 | 95 |
| DN300 | 250 | 285 | 65 | 310 | 45 | 22 | 31.6  | 81 | 50 | 50 | 138 | 148 | 143 | 143 | 240 | 300 | 127 | 95 |



## HIGH PERFORMANCE BUTTERFLY VALVES

## WAFLER/LUG DN50-DN600



| Item | Part Name       | Materials                        | Item | Part Name     | Materials       |
|------|-----------------|----------------------------------|------|---------------|-----------------|
| 1    | Bolt            | Carbon steel                     | 16   | Spring washer | Spring steel    |
| 2    | Spring washer   | Spring steel                     | 17   | Washer        | Stainless steel |
| 3    | Washer          | Stainless steel                  | 18   | Nut           | Stainless steel |
| 4    | End cover       | WCB/ CF8/ CF8M                   | 19   | Stud          | Stainless steel |
| 5    | "O"ring         | VITON                            | 20   | Washer        | Stainless steel |
| 6    | Shaft retaining | SS316                            | 21   | Spring washer | Spring steel    |
| 7    | Bushing         | Fiber glass composite back RPTFE | 22   | Bolt          | Stainless steel |
| 8    | Thrust washer   | SS316                            | 23   | Support       | ASTMA216 WCB    |
| 9    | Seat            | RPTFE                            | 24   | Nut           | Spring steel    |
| 10   | Shaft           | SS410/SS431/SS304 /SS316/17-4PH  | 25   | Stud          | Stainless steel |
| 11   | Disc            | CF8/CF8M/Duplex steel            | 26   | Washer        | Stainless steel |
| 12   | Pin             | SS410/SS431/SS304 /SS316/17-4PH  | 27   | Spring washer | Spring steel    |
| 13   | Body            | WCB/ CF8/CF8M                    | 28   | Out gland cap | CF8M            |
| 14   | Seat retainer   | WCB/ CF8/CF8M                    | 29   | Packing       | PTFE            |
| 15   | Bolt            | Stainless steel                  | 30   | Washer        | Stainless steel |

Note: "It is only general materials in left table, if need to other special materials, please contact our sales department"

"In order to keep the policy of "co-ntinual improvement of product" we are entitled to keep improvement in design, material quality, size and specifications etc Forgive for on further notice"

|       | A   | B   | C   | L   | F   | H   | Φ     | G  | K  |     | Φ 2 | N-Φ 1 |
|-------|-----|-----|-----|-----|-----|-----|-------|----|----|-----|-----|-------|
| DN350 | 340 | 310 | 92  | 428 | 278 | 250 | 45.72 | 62 | 12 | F14 | 140 | 4-18  |
| DN400 | 380 | 350 | 102 | 428 | 278 | 250 | 50.62 | 72 | 16 | F14 | 140 | 4-18  |
| DN450 | 400 | 370 | 114 | 452 | 306 | 257 | 53.98 | 72 | 16 | F16 | 165 | 4-22  |
| DN500 | 450 | 400 | 127 | 452 | 306 | 257 | 63.35 | 82 | 18 | F16 | 165 | 4-22  |
| DN600 | 490 | 464 | 154 | 493 | 362 | 280 | 75    | 82 | 20 | F25 | 254 | 8-18  |

Note: "It is only one standard data in left dimensions table, if need to other standards, please contact our sales department"

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