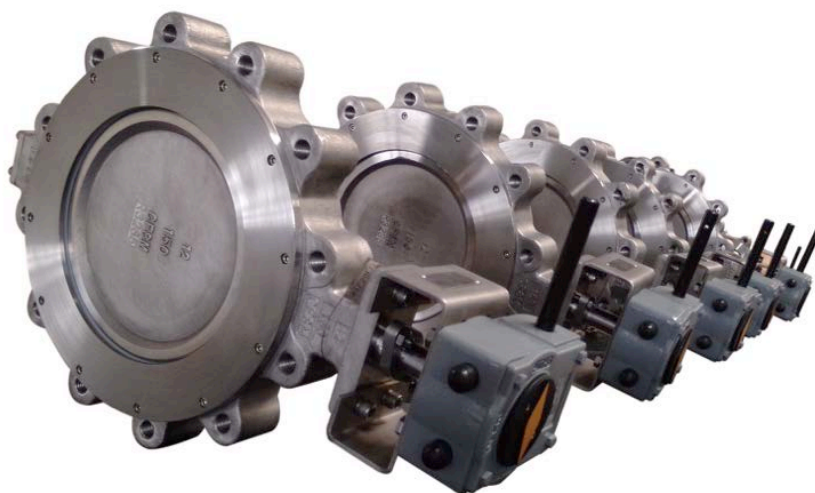




VALVE MANUFACTURER FOR INDUSTRIAL AND WATER APPLICATIONS



BUTTERFLY VALVES HIGH PERFORMANCE

Pressure : PN10 ~ PN40 / Class 150 ~ 300 | **Size :** Basic Type : 2" ~ 48" (50mm ~ 1200mm)

Fire Safety Type : 2" ~ 60" (50 ~ 1500mm) | **Temperature :** -196°C ~ +650°C

По вопросам продаж и поддержки обращайтесь:

ROBVALVE

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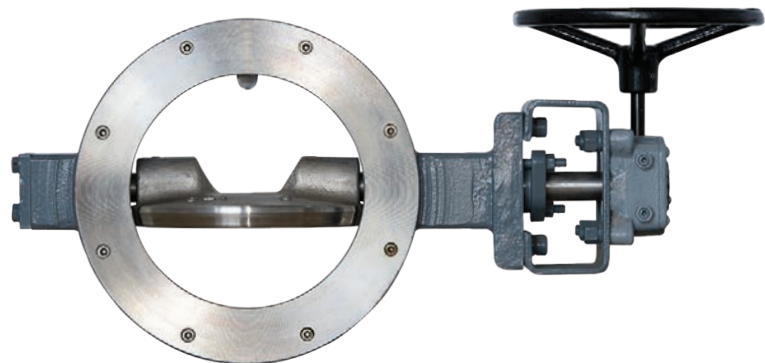
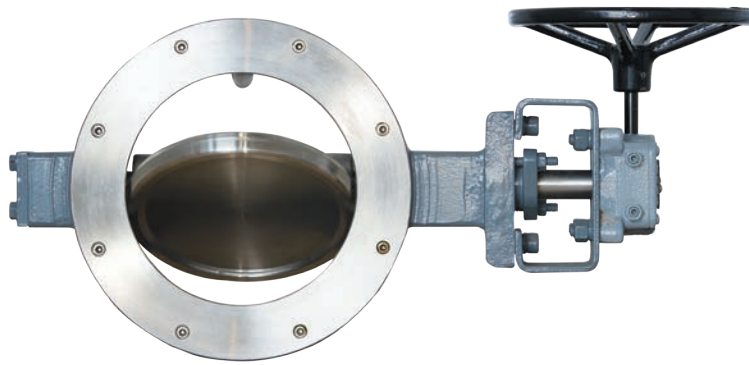
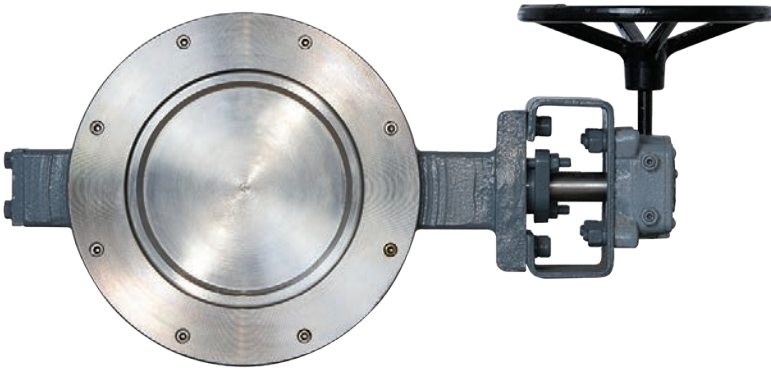
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Тюмень (3452)66-21-18
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Хабаровск (4212)92-98-04
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Ярославль (4852)69-52-93

эл. почта: rvb@nt-rt.ru || сайт: <http://robvalve.nt-rt.ru>

| Valve Definition | | Service | Connection Type | Working Pressure | Size | Eventual Options |
|--|-----------------------|---------------------------------|-------------------|--|-----------------|---|
| Valve Type | | | | | | |
| BUV2 High Performance Butterfly Valve | 1 - Basic Type | 1 - Standard Temperature | WA - Wafer | C01 - CL150 016 - PN16 025 - PN25 | 02 - 2" | Body Material |
| | | 1 - Standard Temperature | LU - Lug | C03 - CL300 040 - PN40 | 12 - 12" | Inside Parts Material Actuation |



OVERVIEW

PAGES 4-5

| | |
|--------------------------------------|--------|
| Basic Parameters | PAGE 4 |
| Applications | PAGE 4 |
| Using for Special Working Conditions | PAGE 5 |

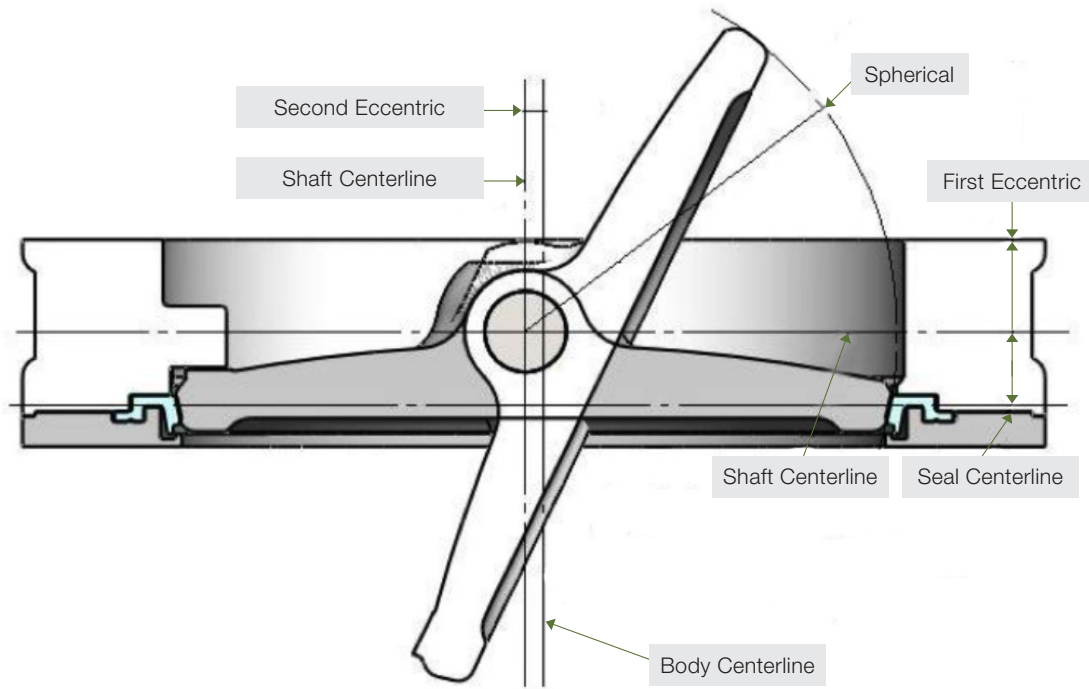
BUY21 BASIC TYPE

PAGES 6-14

| | |
|-----------------------|------------|
| Design Standards | PAGE 6 |
| Design Features | PAGE 6 |
| Valve Structure | PAGE 7 |
| Parts Materials List* | PAGE 8 |
| Main Structure | PAGES 9-14 |
| Flow Parameters | PAGES 15 |



Double eccentric structure design is adopted on the high performance butterfly valve. In the design, the spindle offsets the center of the seal face to form the first eccentric and the spindle offsets from the center line of the pipeline to form the second eccentric. The combination of two eccentric will generate cam effect as the disc screw in or out, making it possible to separate the disc from seat by very small torque. There is almost no friction between the disc and seat during switches, and that will lower the operation torque and extend service life. With these advantages, high performance butterfly valve can be used for various kinds of working conditions and medium.



Basic Parameters

Size Range : BUV21

Basic Type : Connections PN10, PN16 or PN 25 or Class 150 - 2" ~ 48" (50mm ~ 1200mm)
Connections PN40 or Class 300 - 2" ~ 24" (50mm ~ 600mm)

BUV22 Fire Safety Type : Connections PN 10, PN 16 or PN 25 or Class 150 - 2" ~ 60" (50mm ~ 1500mm)
Connections PN 40 or Class 300 - 2"~ 60" (50mm ~ 1500mm)

Connection Type : wafer, lug

Working Temperature : -196 °C ~ 650 °C (-321°F ~ 1202°F)

Drive Type : manual, worm gear, pneumatic, electric

Applicable Medium : corrosive chemical media, water, gas, acid, alkali, steam, pharmaceutical.

For other fluids, please contact us.

Applications

High performance butterfly valve is mainly used in the following industries :

- Industrial facilities, machinery, natural gas
- High temperature water, condensate water
- Chemical medicine, food production
- Paper industry, shipbuilding, power plant, automation equipment
- Household water, sea water desalination

Using for Special Working Conditions

For fire protection conditions

With the fire protection design, the valve can meet the special requirements of this working condition. Its superior performance can effectively avoid potential fire safety hazards in petroleum and petrochemical industries.

For high temperature condition

High Temperature Fire Protection Type High Performance Butterfly Valve can work normally at high temperature up to +1500°F (+815 °C). So this product is widely used in oil/ gas processing, power industry, steam/ hot gas related industry, chemical industry, etc.

For liquefied natural gas industry (LNG)

Natural gas shall be stored and transported in liquid in LNG industry, and our products can meet cryogenic requirements by using Low Temperature Fire Protection Type High Performance Butterfly Valve.

For acid gas

The valve used in such severe condition need full preparation, choosing the right structure and the materials. And all these should be conform to the NACE standard.

For steam industry

The valve is suitable for high temperature and high pressure water, condensate water, cooling water, etc. To these medium, we recommend the RPTFE seat.

For abrasive condition

The valve materials need to be chosen very carefully to meet the strict standard of abrasive condition. For example, when the valve is in sodium hydroxide or Potassium hydroxide, we would recommend to use stainless steel.

For chlorine medium

High performance butterfly valve from Robvalve can control liquid or gaseous chlorine medium reliably in the pipelines, and the unique seat design ensures no leakage. The valve is suitable for conveying chlorine media containing water by using special materials. With special cleaning, the valve can be protected from reaction with chlorine or other substances.

For oxygen industry

All the parts are processed specially (cleaned, assembled, tested and packaged) to ensure the burrs, sharp edges, dirt, grease and other contaminants have been removed, avoid the internal risk caused by the reaction between oxygen and grease or other impurities.

For anti-sulfur conditions

The valve is reliable and safe, conforming to the NACE MR0103 standard. The metal materials must have the resistance to sulfide stress cracking to work this condition, such as in petroleum and natural gas industry.

Note : For other special conditions and requirements, please contact us.

Design Standards

Design and Manufacturing Standard : API 609, MSS SP-68, BS EN 593

Temperature & Pressure Class Standard : ASME B16.34

Fire Resistance Standard : API 607, BS EN ISO 10497

Driving Flange Standard : BS EN ISO 5211

Connection Flange Standard : ASME B16.5, ASME B16.47, ISO 7005, EN 1092

Face to Face Standard : API 609, MSS SP-68, ISO 5752, BS EN 558

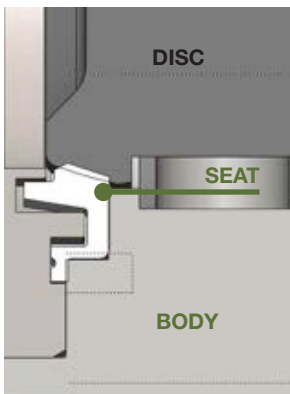
Inspection & Testing Standard : API 598, MSS SP-61, ISO 5208

Valve Marking Standard : MSS SP-25

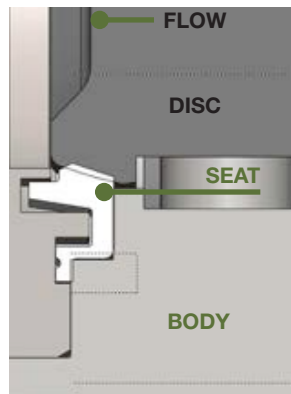
Design Features

Unique Seat Design

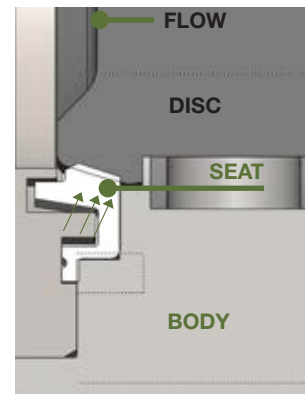
- Optimized lip-type seat can automatically compensate for temperature and pressure variations, it has self-regulating capacity, and its sealing performance is safe and reliable
- The users can replace the seat just by taking down the segment on site, without dismantling the valve plate and shaft, which can reduce the maintenance cost and extend the service life
- Bidirectional bubble-free, zero leakage sealing



The seat is slightly deformed as the valve closed. And this deformation inspired seat to maintain a lasting sealing with the edges of disc.



The disc is pushed to the seat as the pressure applied to the non-pressure side of the ring. And it will be more and more tightly closed as the disc is close to the spherical seat. The contact between the lip edge and bottom groove of pressing ring can limit excessive movement of the seat.



The pressure is transferred to the underneath of lip edge when the pressure comes to the pressing ring side, and this can further increase the sealing force between disc and seat.

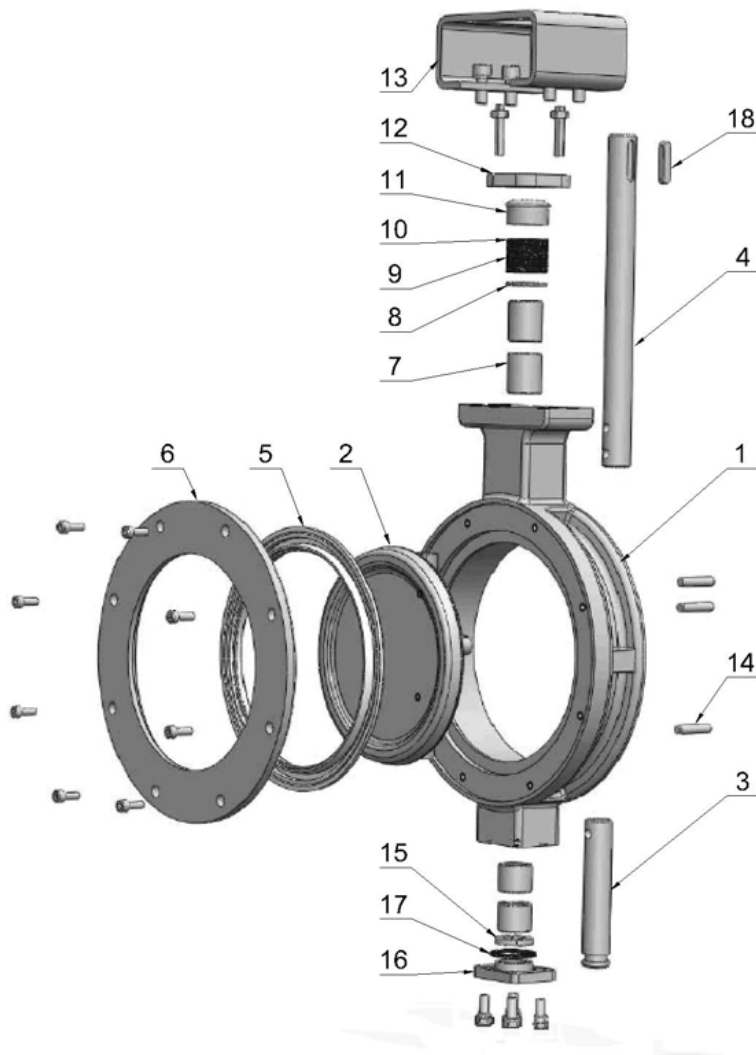
Blowout proof structure : There is a split collar under the end of shaft to maintain the stem positioning and prevent the shaft blown out due to the breakage of connection pin.

Optimized disc design : The spherical design of the disc can ensure the disc intensity, provide maximum medium flow, increase the flow capacity and Cv value.

Convenient packing adjustment design : It can complete the adjustment and packing replacement without removing the drive device. Packing gland is made of two parts to avoid shaft jamming caused by offset.

Terminal services : Both the ends of lug type high performance butterfly valve can be used to the pipeline terminals under the working temperature & pressure, and achieve bi-directional sealing under the rated pressure.

Valve Structure



Parts Materials List*

| NO. | Name | Carbon Steel Body | Stainless Steel Body |
|-----|---------------------------|--|-------------------------------------|
| | | Parts Materials | Parts Materials |
| 1 | Body | ASTM A216 WCB | ASTM A351 CF8M |
| 2 | Disc | ASTM A351 CF8M | ASTM A351 CF8M |
| 3 | Shaft | 17-4PH | 17-4PH |
| 4 | Seat | See the Table of Seat Materials below | |
| 5 | Seat gland | ASTM A276 316 | ASTM A276 316 |
| 6 | Bushing | ASTM A276 316/ ASTM A276 316+ENP | ASTM A276 316/ ASTM A276 316+ENP |
| 7 | Packing Washer | ASTM A276 304 | ASTM A276 316 |
| 8 | Packing | See the below Table of Packing Materials below | |
| 9 | Braided Packing | See the Table of Braided Packing Materials below | |
| 10 | Packing Bushing | ASTM A276 304 | ASTM A276 316 |
| 11 | Packing Gland | ASTM A216 WCB | ASTM A351 CF8M |
| 12 | Yoke | A105 | ASTM A276 304 |
| 13 | Cylindrical Pin | 17-4PH | 17-4PH |
| 14 | Split Collar | ASTM A276 304 | ASTM A276 316 |
| 15 | Bottom Cover | ASTM A216 WCB | ASTM A351 CF8M |
| 16 | Bottom Cover Sealing Ring | Flexible Graphite | Flexible Graphite |
| 17 | Key | ASTM A276 420 | |
| 18 | Bolt, Screw, Stud | ASTM A193 B7/ASTM A193 B8/ASTM A193 B8M | |
| 19 | Nut | ASTM A194 2H/ASTM A194 8/ASTM A194 8M | |

| Parts | Optional materials |
|-----------------|---------------------------------------|
| Seat | PTFE/RPTFE/ UHMWPE |
| Packing | Flexible Graphite /PTFE/RPTFE |
| Braided Packing | Braided Flexible Graphite /PTFE/RPTFE |

Note : We only list some common materials in the list and we can provide other special materials according to customers' requirement for special working conditions.

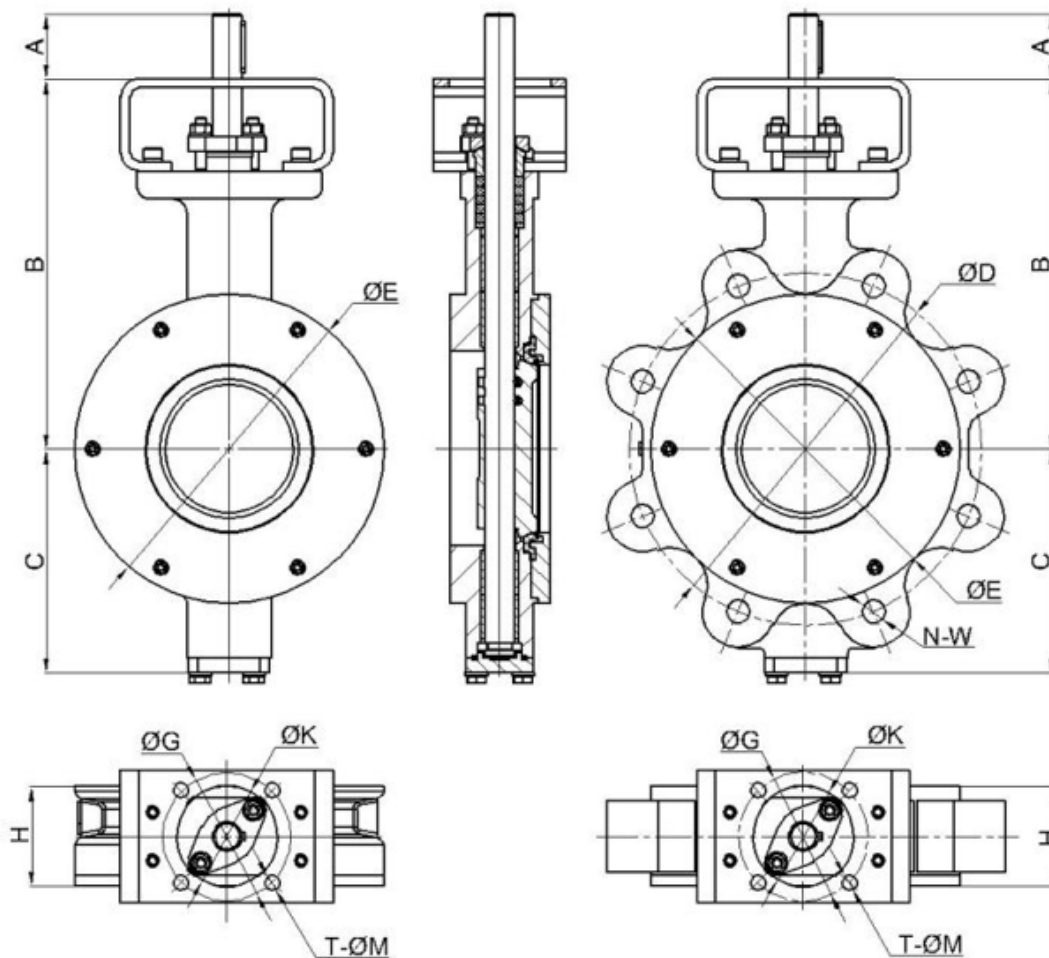
Robvalve has the right to modify the content without notice.

BUY21 BASIC TYPE



Main Structure

2" ~ 4" - Wafer and Lug Type - 25 Bars



Face to Face Standard : API 609;

Flanges Drilling Standard : Connections PN10 or PN16 or PN25 or Class 150

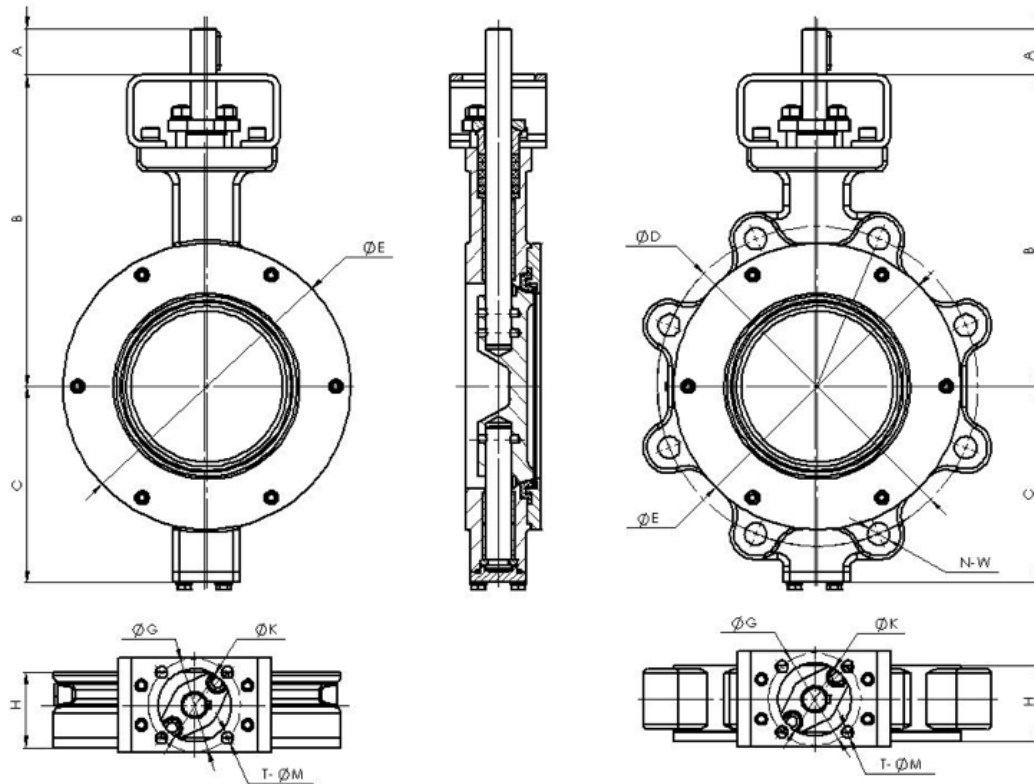
| Size | | Flange size | Dimensions (mm) | | | | | | | | | | | Weight* (Kg) | | Torque* (N.m) |
|------|------|-------------|-----------------|-----|-----|-----|----|----|------|----|-------|---|-----------|--------------|------|---------------|
| DN | inch | | A | B | C | E | G | K | T-ØM | H | D | N | W | Wafer | Lug | |
| 50 | 2 | F05 | 30 | 157 | 85 | 98 | 50 | 35 | 4-Ø7 | 43 | 120.7 | 4 | 5/8-11UNC | 3.4 | 4.3 | 32 |
| 65 | 2.5 | F05 | 30 | 172 | 97 | 117 | 50 | 35 | 4-Ø7 | 47 | 139.7 | 4 | 5/8-11UNC | 4.5 | 6.1 | 35 |
| 80 | 3 | F05 | 30 | 187 | 109 | 128 | 50 | 35 | 4-Ø7 | 48 | 152.4 | 4 | 5/8-11UNC | 5.4 | 6.8 | 39 |
| 100 | 4 | F07 | 35 | 200 | 121 | 167 | 70 | 55 | 4-Ø9 | 54 | 190.5 | 8 | 5/8-11UNC | 8.2 | 11.5 | 60 |

*Notes : The torque values are without security coefficient. The weight values listed above are for reference.

Operating gear : If the customers have asked for specified operation gear, Robvalve can carry out in accordance with the customers' designated assembly. If there are no special requirements, we will choose Robvalve's device by default.

Main Structure

5" ~ 12" - Wafer and Lug Type - 25 Bars



Face to Face Standard : API 609;

Flanges Drilling Standard : Connections PN10 or PN16 or PN25 or Class 150

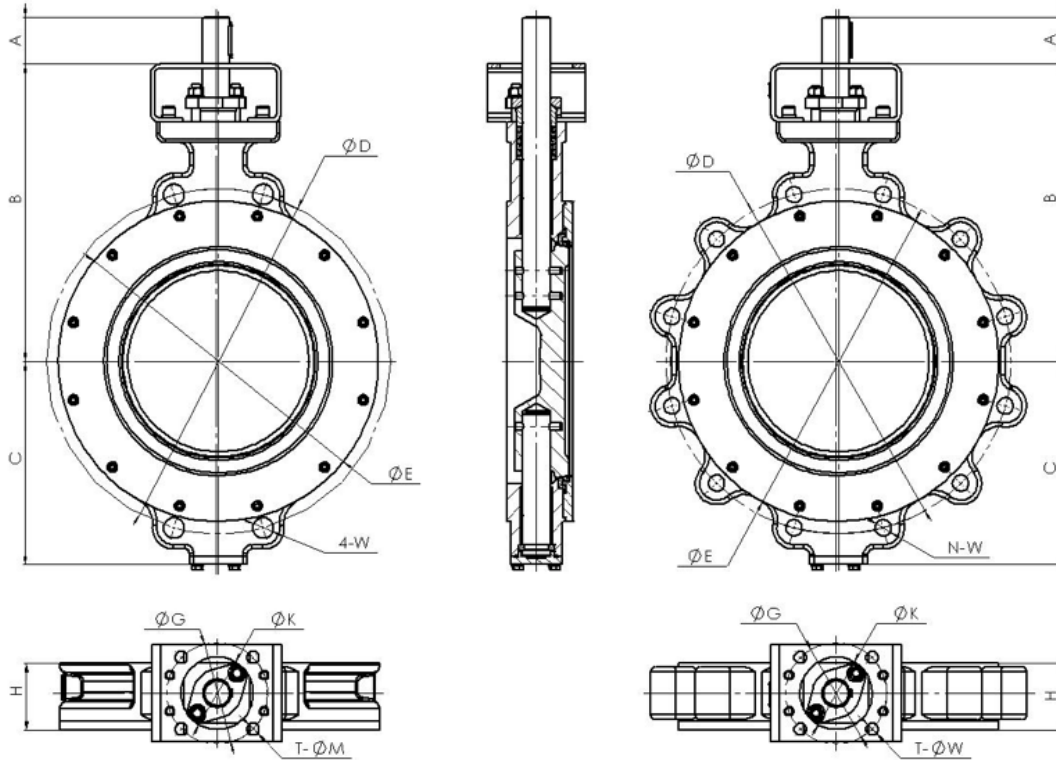
| Size | | Flange size | Dimension (mm) | | | | | | | | | | Weight*(Kg) | | Torque* (N.M) | |
|------|------|-------------|----------------|-----|-----|-----|-----|----|-------|----|-------|----|-------------|-------|---------------|-----|
| DN | inch | | A | B | C | E | G | K | T-ØM | H | D | N | W | Wafer | | Lug |
| 125 | 5 | F07 | 35 | 218 | 135 | 190 | 70 | 55 | 4-Ø9 | 57 | 215.9 | 8 | 3/4-10UNC | 10.5 | 14.6 | 85 |
| 150 | 6 | F07 | 35 | 235 | 148 | 216 | 70 | 55 | 4-Ø9 | 57 | 241.3 | 8 | 3/4-10UNC | 13 | 17 | 95 |
| 200 | 8 | F10 | 45 | 283 | 179 | 272 | 102 | 70 | 4-Ø11 | 64 | 298.5 | 8 | 3/4-10UNC | 22 | 28.5 | 160 |
| 250 | 10 | F12 | 55 | 328 | 212 | 332 | 125 | 85 | 4-Ø13 | 71 | 362 | 12 | 7/8-9UNC | 33.8 | 44.7 | 270 |
| 300 | 12 | F12 | 55 | 377 | 255 | 400 | 125 | 85 | 4-Ø13 | 81 | 431.8 | 12 | 7/8-9UNC | 53.6 | 71.7 | 410 |

*Notes : The torque values are without security coefficient. The weight values listed above are for reference.

Operating gear : If the customers have asked for specified operation gear, Robvalve can carry out in accordance with the customers' designated assembly. If there are no special requirements, we will choose Robvalve's device by default.

Main Structure

14" ~ 30" - Wafer and Lug Type - 25 Bars



Face to Face Standard : API 609;

Flange Drilling Standard : Connections PN10 or PN16 or PN25 or Class 150

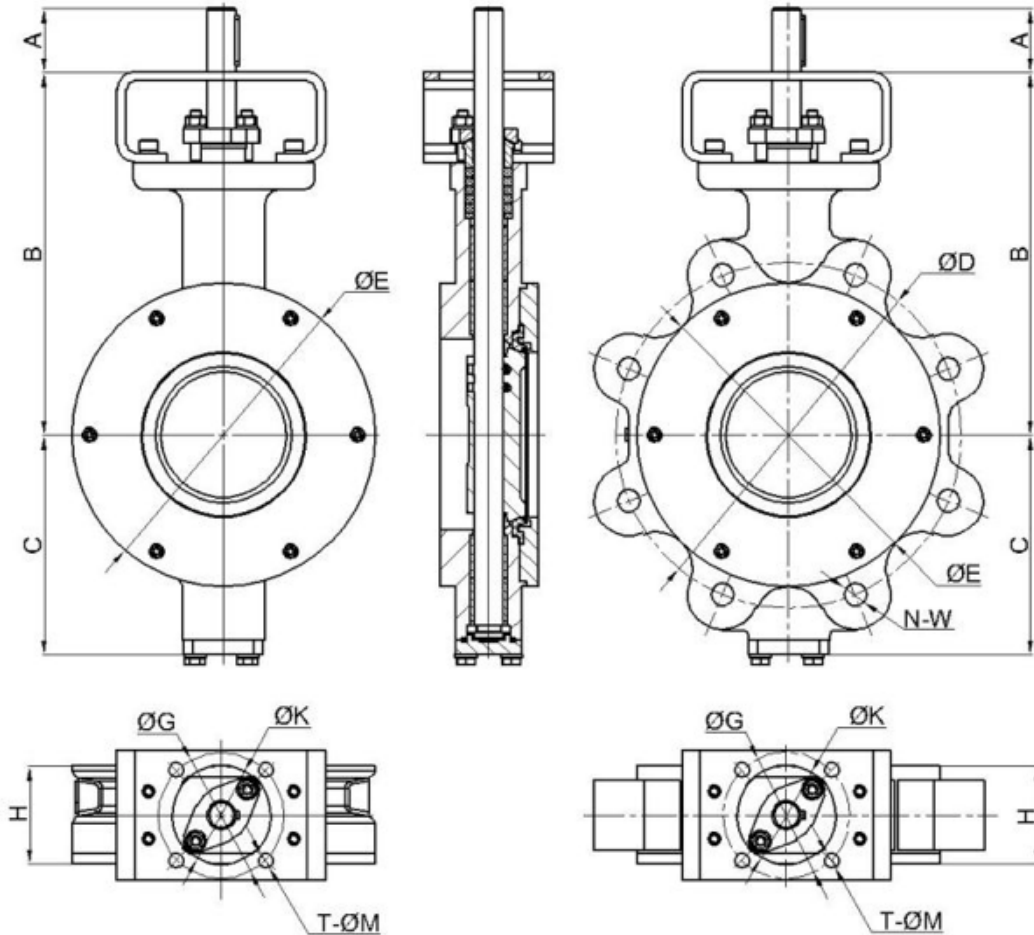
| Size | | Flange size | Dimension (mm) | | | | | | | | | | | Weight*(Kg) | | Torque* (N.M) |
|------|------|-------------|----------------|-----|-----|-----|-----|-----|-------|-----|-------|----|----------|-------------|-----|---------------|
| DN | inch | | A | B | C | E | G | K | T-ØM | H | D | N | W | Wafer | Lug | |
| 350 | 14 | F14 | 65 | 410 | 281 | 442 | 140 | 100 | 4-Ø17 | 92 | 476.3 | 12 | 1-8UNC | 80 | 97 | 675 |
| 400 | 16 | F16 | 80 | 462 | 315 | 504 | 165 | 130 | 4-Ø22 | 102 | 539.8 | 16 | 1-8UNC | 110 | 136 | 995 |
| 450 | 18 | F16 | 80 | 490 | 338 | 540 | 165 | 130 | 4-Ø22 | 114 | 577.9 | 16 | 11/8-8UN | 135 | 163 | 1300 |
| 500 | 20 | F16 | 80 | 526 | 376 | 597 | 165 | 130 | 4-Ø22 | 127 | 635 | 20 | 11/8-8UN | 176 | 217 | 1865 |
| 600 | 24 | F25 | 110 | 610 | 430 | 708 | 254 | 200 | 8-Ø18 | 154 | 749.3 | 20 | 11/4-8UN | 282 | 346 | 2780 |
| 750 | 30 | F25 | 110 | 790 | 530 | 865 | 254 | 200 | 8-Ø18 | 191 | 914.4 | 28 | 11/4-8UN | 527 | 662 | 4250 |

*Notes : The torque values are without security coefficient. The weight values listed above are for reference.

Operating gear : If the customers have asked for specified operation gear, Robvalve can carry out in accordance with the customers' designated assembly. If there are no special requirements, we will choose Robvalve's device by default.

Main Structure

2" ~ 4" - Wafer and Lug Type - 50 Bars



Face to Face Standard : API 609;

Flange Drilling Standard : Connections PN40 or Class 300

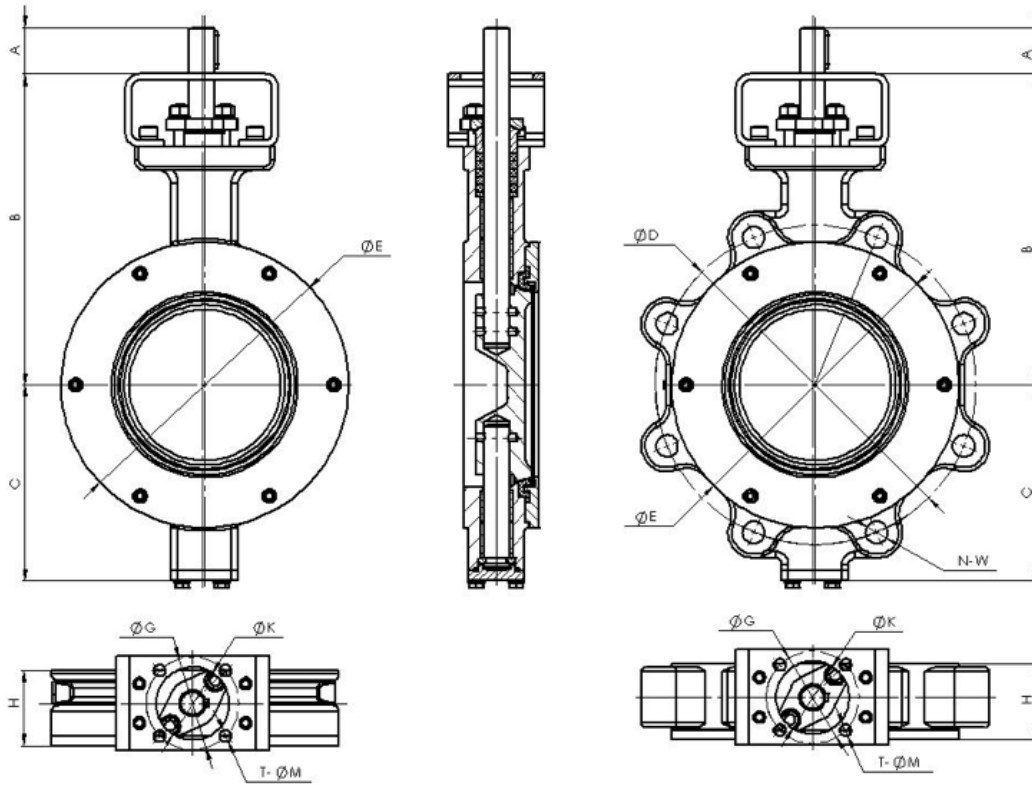
| Size | | Flange type | Dimensions (mm) | | | | | | | | | | | Weight* (Kg) | | Torque* |
|------|------|-------------|-----------------|-----|-----|-----|----|----|------|----|-------|---|-----------|--------------|------|---------|
| DN | inch | | A | B | C | E | G | K | T-ØM | H | D | N | W | Wafer | Lug | (N.M) |
| 50 | 2 | F05 | 30 | 157 | 85 | 98 | 50 | 35 | 4-Ø7 | 43 | 127 | 8 | 5/8-11UNC | 3.4 | 5.3 | 45 |
| 65 | 2.5 | F05 | 30 | 172 | 97 | 117 | 50 | 35 | 4-Ø7 | 47 | 149.2 | 8 | 3/4-10UNC | 4.5 | 7.4 | 49 |
| 80 | 3 | F05 | 30 | 187 | 109 | 128 | 50 | 35 | 4-Ø7 | 48 | 168.3 | 8 | 3/4-10UNC | 5.4 | 9.3 | 52 |
| 100 | 4 | F07 | 35 | 200 | 121 | 167 | 70 | 55 | 4-Ø9 | 54 | 200 | 8 | 3/4-10UNC | 8.2 | 13.8 | 80 |

*Notes : The torque values are without security coefficient. The weight values listed above are for reference.

Operating gear : If the customers have asked for specified operation gear, Robvalve can carry out in accordance with the customers' designated assembly. If there are no special requirements, we will choose Robvalve's device by default.

Main Structure

5" ~ 8" - Wafer and Lug Type - 50 Bars



Face to Face Standard : API 609;

Flange Drilling Standard : Connections PN40 or Class 300

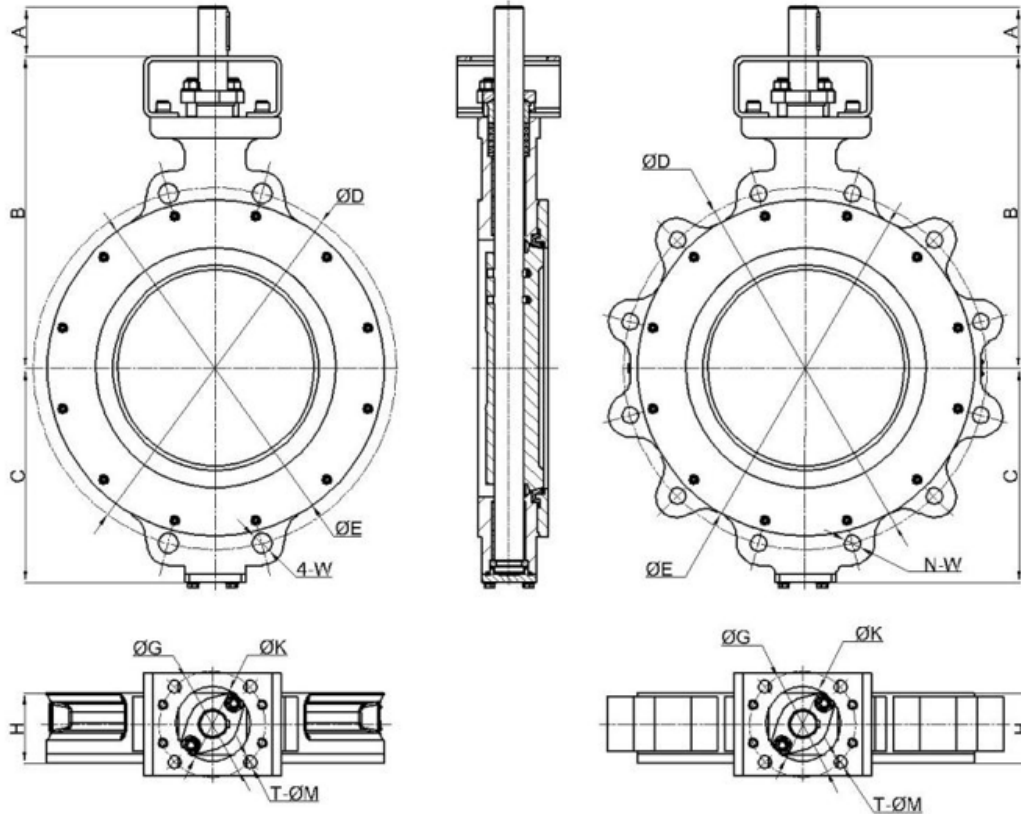
| Size | | Flange type | Dimensions (mm) | | | | | | | | | | | Weight*(Kg) | | Torque* |
|------|------|-------------|-----------------|-----|-----|-----|-----|----|-------|----|-------|----|-----------|-------------|------|---------|
| DN | inch | | A | B | C | E | G | K | T-ØM | H | D | N | W | Wafer | Lug | (N.M) |
| 125 | 5 | F07 | 35 | 231 | 146 | 190 | 70 | 55 | 4-Ø9 | 59 | 235 | 8 | 3/4-10UNC | 13.4 | 18.2 | 115 |
| 150 | 6 | F07 | 35 | 260 | 170 | 216 | 70 | 55 | 4-Ø9 | 59 | 269.9 | 12 | 3/4-10UNC | 17.2 | 25 | 140 |
| 200 | 8 | F10 | 45 | 298 | 189 | 272 | 102 | 75 | 4-Ø11 | 73 | 330.2 | 12 | 7/8-9UNC | 27 | 34 | 230 |

*Notes : The torque values are without security coefficient. The weight values listed above are for reference.

Operating gear : If the customers have asked for specified operation gear, Robvalve can carry out in accordance with the customers' designated assembly. If there are no special requirements, we will choose Robvalve's device by default.

Main Structure

10" ~ 24" - Wafer and Lug Type - 50 Bars



Face to Face Standard : API 609;

Flange Drilling Standard : Connections PN40 or Class 300

| Size | | | Flange type | Dimensions (mm) | | | | | | | | | | Weight*(Kg) | | Torque* (N.M) |
|------|------|-----|-------------|-----------------|-----|-----|-----|-----|-------|------|-------|----|----------|-------------|-------|---------------|
| DN | inch | | | A | B | C | E | G | K | T-ØM | H | D | N | W | Wafer | |
| 250 | 10 | F12 | 55 | 355 | 237 | 332 | 125 | 85 | 4-Ø13 | 83 | 387.4 | 16 | 1-8UNC | 51 | 71 | 425 |
| 300 | 12 | F12 | 65 | 395 | 275 | 400 | 125 | 85 | 4-Ø13 | 92 | 450.8 | 16 | 11/8-8UN | 78 | 107 | 650 |
| 350 | 14 | F16 | 80 | 435 | 306 | 442 | 165 | 130 | 4-Ø22 | 117 | 514.4 | 20 | 11/8-8UN | 116 | 180 | 1300 |
| 400 | 16 | F16 | 80 | 487 | 340 | 504 | 165 | 130 | 4-Ø22 | 133 | 571.5 | 20 | 11/4-8UN | 158 | 236 | 1735 |
| 450 | 18 | F25 | 80 | 525 | 375 | 540 | 254 | 200 | 8-Ø18 | 149 | 628.6 | 24 | 11/4-8UN | 215 | 327 | 2200 |
| 500 | 20 | F25 | 110 | 565 | 405 | 597 | 254 | 200 | 8-Ø18 | 159 | 685.8 | 24 | 11/4-8UN | 265 | 426 | 2950 |
| 600 | 24 | F25 | 110 | 660 | 480 | 708 | 254 | 200 | 8-Ø18 | 181 | 812.8 | 24 | 11/2-8UN | 423 | 654 | 4300 |

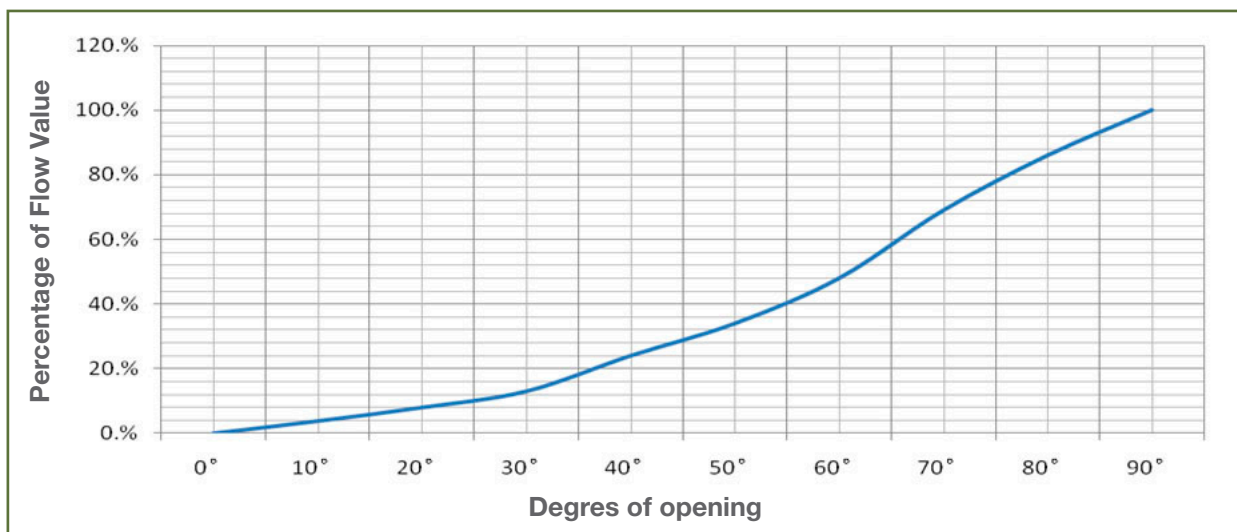
Notes : The torque values are without security coefficient. The weight values listed above are for reference.

Operating gear : If the customers have asked for specified operation gear, Robvalve can carry out in accordance with the customers' designated assembly. If there are no special requirements, we will choose Robvalve's device by default.

BUY21 Basic Type Flow Parameters

The following chart shows all the flow coefficient of BUY21 butterfly valves. CV value indicates the water flow through full opened valve per minute under the conditions that differential pressure is 1 pound per square inch (0.07bar), temperature is 60°F (15.6°C). Its unit is gallons per minute.

| Valve Size | | Classe 150 | | Classe 300 | |
|------------|------|------------|-------|------------|-------|
| DN | inch | Cv | Kv | Cv | Kv |
| 50 | 2 | 80 | 70 | 80 | 70 |
| 65 | 2.5 | 85 | 75 | 85 | 75 |
| 80 | 3 | 175 | 150 | 175 | 150 |
| 100 | 4 | 420 | 360 | 420 | 360 |
| 125 | 5 | 690 | 590 | 690 | 590 |
| 150 | 6 | 1150 | 990 | 1150 | 990 |
| 200 | 8 | 2310 | 1980 | 1900 | 1650 |
| 250 | 10 | 3470 | 2970 | 3310 | 2850 |
| 300 | 12 | 5360 | 4600 | 5000 | 4280 |
| 350 | 14 | 6100 | 5230 | 5500 | 4750 |
| 400 | 16 | 8400 | 7200 | 7300 | 6300 |
| 450 | 18 | 11100 | 9500 | 9800 | 8400 |
| 500 | 20 | 14700 | 12600 | 12000 | 10300 |
| 600 | 24 | 22700 | 19500 | 19500 | 16700 |





По вопросам продаж и поддержки обращайтесь:

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