

PRODUCT APPLICATION

Beize always adhere to the flexible marketing strategy, actively carries out marketing work by regarding the customer as the center, implement the strategy of regional sales. The good quality and strict quality management system ensure the efficient and standard running from the production manufacturing to products selling. The professional technical team and considerate after-sale service meet the requirements of all the customers in domestic and abroad well, and the products are widely used in power stations, chemical industries, petroleum, pharmaceutical, and other fields.



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Summary of Functions

Triple eccentric metal seal butterfly valve designs in triple offset construction. The laminated seal or metal to metal seal makes the valve can be used for high temperature and high pressure working condition with long service life and energy saving. The triple eccentric metal seal butterfly valve is designed as a device to shut-off or regulate the working medium flow and widely installed in industrial pipelines with corrosive medium in metallurgy, iron and steel industry, power plant, petroleum, chemical industry, heat supply, inflammable gas, municipal water supply and drainage and etc.

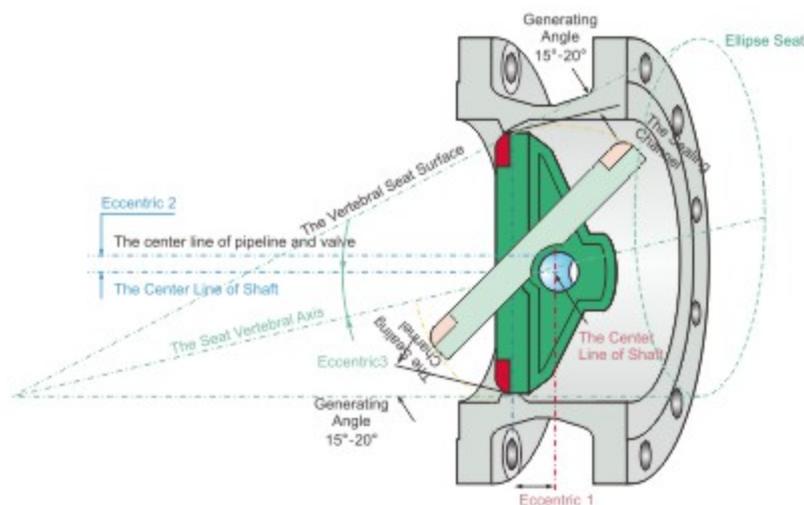
As the latest technology achievement, triple eccentric butterfly valves provide a variety of connections to meet different face to face dimensions, such as wafer type, lug type, flanged type, ring-joint type, butt-welded type and jacketed type. It is suitable for acid, alkali and other corrosive medium at both high and low temperature due to wide material selection. Especially in large-diameter butterfly valve, it is continuously replacing the shut-off valves such as gate valve and ball valve with its advantage of zero leakage; meanwhile it is also continuously replacing the regulating valves such as globe valve with its excellent performance in regulation and control.

Products Features and Merits

- High performance triple eccentric patented sealing system.
 - Laminated seat valve: Zero leakage sealing in bi-directional (As per DIN class I or ANSI Class VI).
 - Integral seat valve: Bi-directional tight sealing (As per ANSI Class V)
- Excellent isolation and control function for gas and liquid.
- Welded stainless steel or stellite body seat is specially designed for long service life.
- No friction, wear and stagnation on the seat during the opening and closing. (Compression only)
- The seal ring is easy to be replaced and adjusted.
- Applicable to harsh working condition such as high temperature, high pressure and corrosive conditions.
- The metal to metal seal ring is suitable for +600°C.
- Self-compensating for temperature variances.
- Low operation torque and reliable shut off torque.
- Natural fire safe design.
- The disc sealing ring compress along the circumference uniformly just as the effect of welding, to make the seal ring bend as spring. The resilient seal make sure the sealing performance is compliance with API 598 standard - Zero leakage for liquid or gas of the resilient seat valves. The resiliency of the seal makes the disc remain closing tight seal in the thermal cycle just as shown in below figure.

The Principle of Triple Eccentric

- Eccentric 1:** The shaft is placed behind the seat center line, so that the sealing ring can closely contact the whole seat.
- Eccentric 2:** The center line of shaft is deviated from the center line of the pipeline and valve, so that it can be avoid the interference of valve opening and closing.
- Eccentric 3:** Seat cone axis is deviated from the centerline of the valve shaft, so the friction can be eliminated during the closing and opening process, and realizes the uniform compression sealing around the entire seat.



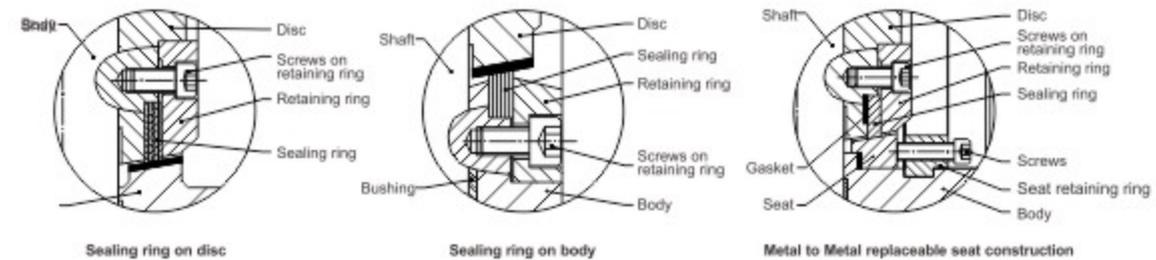
Construction Feature

Laminated disc sealing

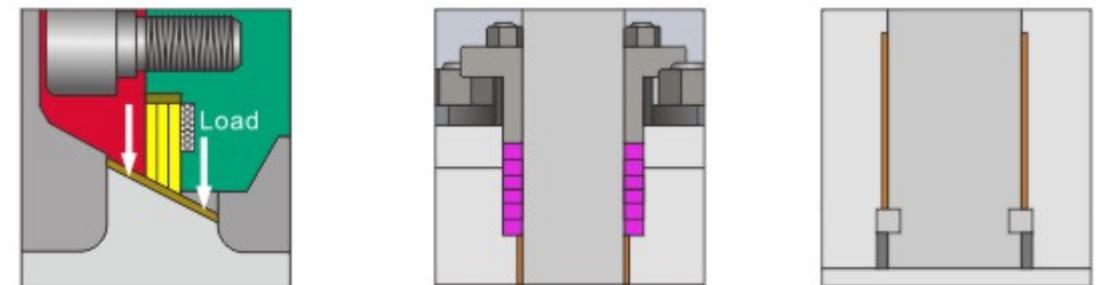
Seating force is generated by the torque during closing and works uniformly around the entire circumference. The resilient seal flexes and keeps the original shape of the valve seat. Compression force works uniformly along the circumference to realize two-way tightness shut off. The elasticity of the seal allows the valve body and disc to be contacted or expanded to avoid the risk of blockage due to temperature fluctuations. This sealing construction is able to be adjusted and aligned by itself.

There Are Various Sealing Construction To Meet Different Requirements.

- Normal Type:** The laminated sealing ring is fixed to the disc, easy to be replaced and adjusted, suitable for most of working condition.
- Seal on body construction:** The sealing ring is fixed to the body, during the opening, the sealing ring won't move with the disc, so that the sealing ring is not easy to be damaged. When the requested face to face is short, the seal on body construction is more suitable than seal on disc construction, for the seal on disc construction, and the thickness of disc is increased, and the outside surface of disc and retaining ring will stick out from the flange sealing surface.
- Replaceable seat type:** Both the seat on body and the sealing ring on disc can be replaceable, it's easy to be repaired and replaced, the maintenance cost is reduced.



Disc Sealing Ring



Seating force is generated by the torque during closing and works uniformly around the entire circumference. The resilient seal flexes and keeps the original shape of the valve seat. Compression force works uniformly along the circumference to realize two-way tightness shut off. The elasticity of the seal allows the valve body and disc to be contacted or expanded to avoid the risk of blockage due to temperature fluctuations. This sealing construction is able to be adjusted and aligned by itself.

Low leakage shaft seal (0-20ppm), the polishing of shaft is 8RMS, and the polishing of the OD (outer diameter) of the stuffing box is 32 RMS, it can provide dynamic load to extend the service life without maintenance and the packing is easy to be adjusted.

Stem blow protection: In accordance with API 609 standard, double protection to prevent valve shaft blow out.

Part and Material

The Valve Explosion Figure

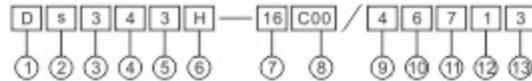


Part and Material

Basic Configuration of Parts and Materials

| Item No. | Part Name | Carbon steel | Stainless Steel | Low Temperature Steel | High Temperature Steel |
|----------|--------------------------|-------------------|-------------------|-----------------------|------------------------|
| 1 | Screw for bottom cover | 8.8/B7 | B8 | B8/L7 | B7/B8/B16 |
| 2 | Bottom cover | A105 | 304 | 304/LF2 | F11/304 |
| 3 | Gasket | 304+Graphite | 304+Graphite | 304+Graphite | 304+Graphite |
| 4 | Clamping ring | 1035 | 304 | 304 | 304 |
| 5 | Lower bushing | SF-1 | SF-1S/C95200 | SF-1S/C95200 | 304+N |
| 6 | Body | WCB | CF8 | LCB/LC1 | WC6/C5 |
| 7 | Sealing ring | 304+Graphite | 304+Graphite | 304+Graphite | 304+Graphite |
| 8 | Retaining ring | A105 | 304 | 304/LF2 | F11/304 |
| 9 | Screws on retaining ring | 8.8/B7 | B8 | B8/L7 | B7/B8/B16 |
| 10 | Upper Bushing | SF-1 | SF-1S/C95200 | SF-1S/C95200 | 304+N |
| 11 | Packing | Flexible Graphite | Flexible Graphite | Flexible Graphite | Flexible Graphite |
| 12 | Studs for gland | 8.8/B7 | B8 | B8/L7 | B7/B8/B16 |
| 13 | Packing gland | WCB | CF8 | CF8/LF2 | F11/CF8 |
| 14 | Yoke | WCB | WCB/CF8 | WCB/CF8 | WCB/CF8 |
| 15 | Shaft | 410/420 | 304/17-4PH | 410/17-4PH | 304/XM-19 |
| 16 | Disc | WCB | CF8 | LCB/LC1 | WC6/C5 |
| 17 | Pin | 410/420 | 304/17-4PH | 410/17-4PH | 304/XM-19 |

Model Designations



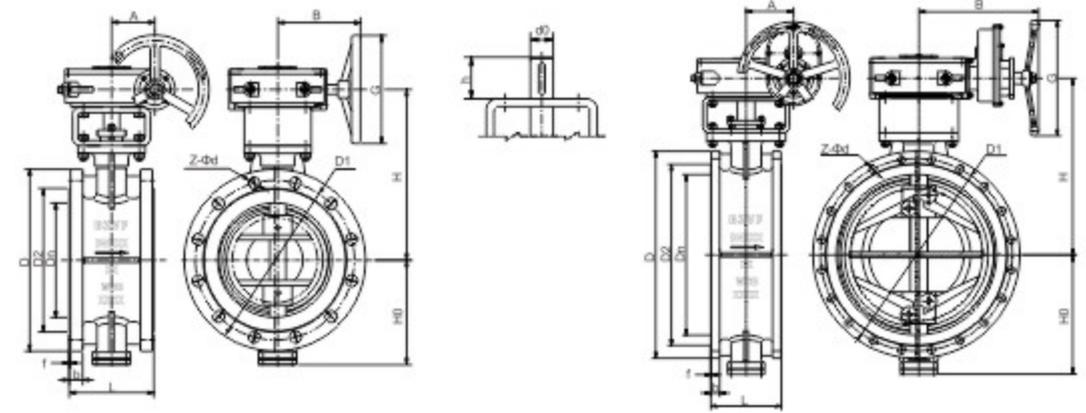
- ① Valve Type: D Butterfly valve
- ② Sealing direction: s Bi-directional Uni-directional (No Marking)
- ③ Operation way: 3 Worm gear 6 Pneumatic actuator 7 Hydraulic actuator 9 Electric actuator
- ④ Connection: 4 Flange 6 Butt-welded 7 Wafer 3 Lug
- ⑤ Construction: 1 Concentric 2 Double Eccentric 3 Triple Eccentric
- ⑥ Seat Material: H Alloy Steel Y Hard Alloy T Copper Alloy W Body Material
- ⑦ Pressure: PN 6~100bar ANSI 150LB~600LB
- ⑧ Body Material: Q00:450-10, C00:WCB, C10:LCB, I01:WC6, I02:WC9, P00:CF8
P01:CF3, R00:CF8M, R01:CF3M
- ⑨ Disc Material: 1:QT450-10, 2:CF8, 3:CF8M, 4:WCB, 5:LCB
- ⑩ Shaft Material: 2:304, 3:316, 5:17-4PH, 6:410
- ⑪ Sealing material: 1:304, 2:316, 5:STL, 7:13Cr
- ⑫ Metal sealing ring material: 1:304, 2:316, 3:13Cr, 4:316L, 6:F51
- ⑬ Nonmetallic material laminated seal ring material: 1:PTFE, 2:RPTFE, 3:Graphite, N:No marking

Standard

| Design & Manufacture | Flange Connection | Face to Face Dimension | Test & Inspection |
|----------------------|------------------------|------------------------|-------------------|
| JB/T 8527 | GB/T 9113 | GB/T 12221 | GB/T 13927 |
| API 609 | ASME B16.5 ASME B16.47 | API 609 ASME B16.10 | API 598 |
| EN 593 | EN 1092 | EN 558 | EN 12266-1 |
| ISO 10631 | ISO 7005 | ISO 5752 | ISO 5208 |

Scope of Application

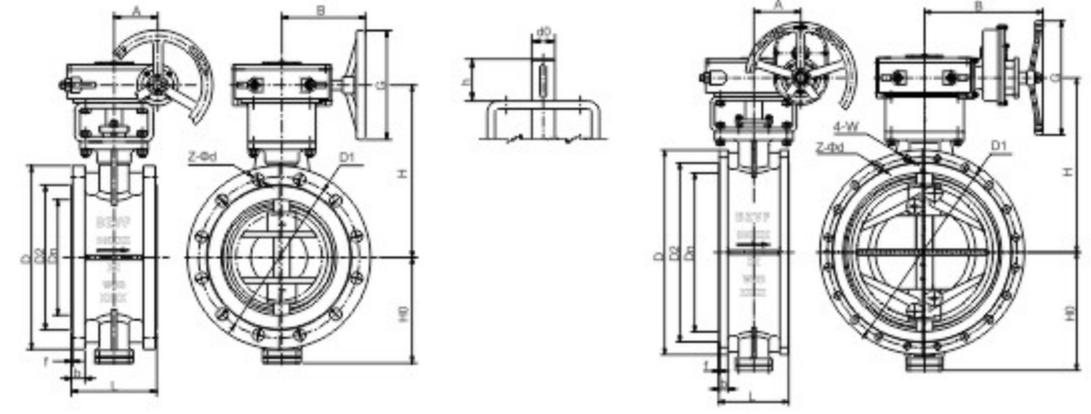
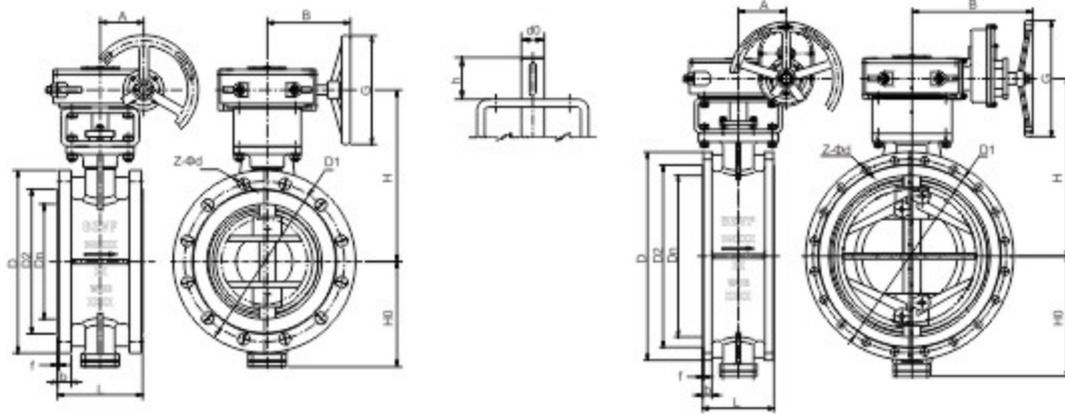
Nominal Diameter: 2" ~160" (DN50~4000)
Nominal Pressure: 150LB ~ 600LB (PN10~100)
Suitable Temperature: -180°C ~700°C
Connection: Wafer, Lug, Flange, Butt-welded
Applicable Medium: fresh water, sea water, sewage, air, steam, food, pharmaceutical, oil and various kinds of Oil, acid, alkali, salt and other weak corrosive medium, etc



Connection Dimensions D343H-10C DN50~DN2000

| DN | L | Flange Dimensions | | | | | | Overall Dimensions | | | The Dimensions of Top Flange | | | Weight (Kg) | | |
|------|-----|-------------------|------|------|---|----|--------|--------------------|------|-----|------------------------------|-----|---------|-------------|-----|------|
| | | D | D1 | D2 | f | b | Z-Φd | H0 | H | A | B | G | ISO5211 | | d0 | h |
| 50 | 108 | 165 | 125 | 102 | 3 | 18 | 4-Φ18 | 82.5 | 195 | 50 | 144 | 180 | F07 | 16 | 35 | 16 |
| 65 | 112 | 185 | 145 | 122 | 3 | 18 | 8-Φ18 | 92.5 | 215 | 50 | 144 | 180 | F07 | 16 | 35 | 17 |
| 80 | 114 | 200 | 160 | 138 | 3 | 20 | 8-Φ18 | 100 | 215 | 50 | 144 | 180 | F07 | 16 | 35 | 18 |
| 100 | 127 | 220 | 180 | 158 | 3 | 20 | 8-Φ18 | 110 | 235 | 50 | 144 | 180 | F07 | 18 | 40 | 21 |
| 125 | 140 | 250 | 210 | 188 | 3 | 22 | 8-Φ18 | 125 | 290 | 63 | 200 | 300 | F10 | 22 | 45 | 34 |
| 150 | 140 | 285 | 240 | 212 | 3 | 22 | 8-Φ22 | 180 | 310 | 63 | 200 | 300 | F10 | 25 | 50 | 43 |
| 200 | 152 | 340 | 295 | 268 | 3 | 24 | 8-Φ22 | 202 | 360 | 80 | 230 | 350 | F12 | 30 | 60 | 58 |
| 250 | 165 | 395 | 350 | 320 | 3 | 26 | 12-Φ22 | 235 | 395 | 80 | 230 | 350 | F12 | 35 | 70 | 72 |
| 300 | 178 | 445 | 400 | 370 | 4 | 26 | 12-Φ22 | 265 | 425 | 125 | 260 | 400 | F14 | 40 | 80 | 105 |
| 350 | 190 | 505 | 460 | 430 | 4 | 26 | 16-Φ22 | 305 | 475 | 125 | 260 | 400 | F14 | 45 | 90 | 154 |
| 400 | 216 | 565 | 515 | 482 | 4 | 26 | 16-Φ26 | 335 | 520 | 125 | 260 | 400 | F16 | 50 | 100 | 202 |
| 450 | 222 | 615 | 565 | 532 | 4 | 28 | 20-Φ26 | 365 | 550 | 125 | 260 | 400 | F16 | 50 | 100 | 231 |
| 500 | 229 | 670 | 620 | 585 | 4 | 28 | 20-Φ26 | 405 | 610 | 160 | 290 | 500 | F25 | 55 | 110 | 318 |
| 600 | 267 | 780 | 725 | 685 | 5 | 34 | 20-Φ30 | 450 | 655 | 160 | 290 | 500 | F25 | 60 | 120 | 490 |
| 700 | 292 | 895 | 840 | 800 | 5 | 34 | 24-Φ30 | 520 | 725 | 200 | 418 | 600 | F25 | 70 | 130 | 715 |
| 800 | 318 | 1015 | 950 | 905 | 5 | 36 | 24-Φ33 | 605 | 795 | 200 | 418 | 600 | F30 | 80 | 130 | 1000 |
| 900 | 330 | 1115 | 1050 | 1005 | 5 | 38 | 28-Φ33 | 655 | 885 | 263 | 510 | 700 | F30 | 90 | 160 | 1240 |
| 1000 | 410 | 1230 | 1160 | 1110 | 5 | 38 | 28-Φ36 | 715 | 950 | 263 | 510 | 700 | F30 | 100 | 170 | 1496 |
| 1200 | 470 | 1455 | 1380 | 1330 | 5 | 44 | 32-Φ39 | 840 | 1125 | 333 | 550 | 800 | F35 | 120 | 190 | 2218 |
| 1400 | 530 | 1675 | 1590 | 1535 | 5 | 48 | 36-Φ42 | 980 | 1275 | 333 | 550 | 800 | F35 | 140 | 200 | 2674 |
| 1600 | 600 | 1915 | 1820 | 1760 | 5 | 52 | 40-Φ48 | 1125 | 1470 | 374 | 590 | 900 | F40 | 160 | 220 | 3409 |
| 1800 | 670 | 2115 | 2020 | 1960 | 5 | 56 | 44-Φ48 | 1240 | 1585 | 374 | 590 | 900 | F40 | 180 | 230 | 4735 |
| 2000 | 760 | 2325 | 2230 | 2170 | 5 | 60 | 48-Φ48 | 1380 | 1720 | 374 | 590 | 900 | F48 | 200 | 230 | 6967 |

Note: 1. The above dimensions are normal data, and the flange dimensions are made according to EN1092-1, but it also can be made according to different requirements.
 2. For restricted by length, for inquired specifications not listed, please contact us.
 3. The operation can be Worm gear, pneumatic actuator, electric actuator and hydraulic actuator, ect.



Connection Dimensions D343H-16C DN50~DN2000

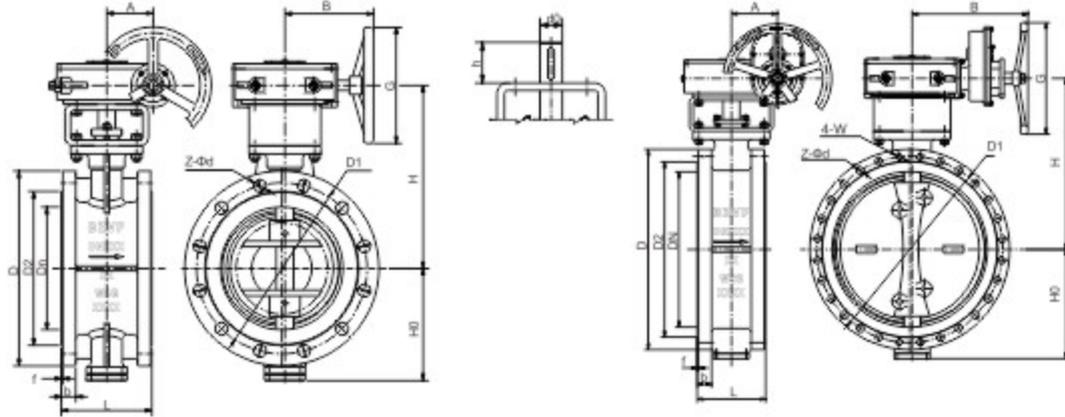
| DN | L | Flange Dimensions | | | | | | | Overall Dimensions | | | | | The Dimensions of Top Flange | | | Weight (Kg) |
|------|-----|-------------------|------|------|---|----|--------|------|--------------------|-----|-----|-----|---------|------------------------------|-----|------|-------------|
| | | D | D1 | D2 | f | b | Z-φd | H0 | H | A | B | G | ISO5211 | d0 | h | | |
| 50 | 108 | 165 | 125 | 102 | 3 | 18 | 4-φ18 | 82.5 | 195 | 50 | 144 | 180 | F07 | 16 | 35 | 16 | |
| 65 | 112 | 185 | 145 | 122 | 3 | 18 | 8-φ18 | 92.5 | 215 | 50 | 144 | 180 | F07 | 16 | 35 | 17 | |
| 80 | 114 | 200 | 160 | 138 | 3 | 20 | 8-φ18 | 100 | 215 | 50 | 144 | 180 | F07 | 16 | 35 | 19 | |
| 100 | 127 | 220 | 180 | 158 | 3 | 20 | 8-φ18 | 110 | 235 | 50 | 144 | 180 | F07 | 18 | 40 | 21.5 | |
| 125 | 140 | 250 | 210 | 188 | 3 | 22 | 8-φ18 | 125 | 290 | 63 | 200 | 300 | F10 | 22 | 45 | 35 | |
| 150 | 140 | 285 | 240 | 212 | 3 | 22 | 8-φ22 | 180 | 310 | 63 | 200 | 300 | F10 | 25 | 50 | 45 | |
| 200 | 152 | 340 | 295 | 268 | 3 | 24 | 12-φ22 | 202 | 360 | 80 | 230 | 350 | F12 | 30 | 60 | 60 | |
| 250 | 165 | 405 | 355 | 320 | 3 | 26 | 12-φ26 | 235 | 395 | 80 | 230 | 350 | F12 | 35 | 70 | 75 | |
| 300 | 178 | 460 | 410 | 378 | 4 | 28 | 12-φ26 | 265 | 425 | 125 | 260 | 400 | F14 | 40 | 80 | 110 | |
| 350 | 190 | 520 | 470 | 438 | 4 | 30 | 16-φ26 | 305 | 475 | 125 | 260 | 400 | F14 | 45 | 90 | 160 | |
| 400 | 216 | 580 | 525 | 490 | 4 | 32 | 16-φ30 | 335 | 520 | 125 | 260 | 400 | F16 | 50 | 100 | 210 | |
| 450 | 222 | 640 | 585 | 550 | 4 | 40 | 20-φ30 | 365 | 550 | 125 | 260 | 400 | F16 | 50 | 100 | 241 | |
| 500 | 229 | 715 | 650 | 610 | 4 | 44 | 20-φ33 | 405 | 610 | 160 | 290 | 500 | F25 | 55 | 110 | 350 | |
| 600 | 267 | 840 | 770 | 725 | 5 | 54 | 20-φ36 | 445 | 685 | 200 | 418 | 600 | F25 | 70 | 130 | 510 | |
| 700 | 292 | 910 | 840 | 795 | 5 | 40 | 24-φ36 | 520 | 725 | 200 | 418 | 600 | F30 | 80 | 130 | 730 | |
| 800 | 318 | 1025 | 950 | 900 | 5 | 42 | 24-φ39 | 605 | 795 | 263 | 510 | 700 | F30 | 90 | 160 | 1030 | |
| 900 | 330 | 1125 | 1050 | 1000 | 5 | 44 | 28-φ39 | 655 | 885 | 263 | 510 | 700 | F30 | 100 | 170 | 1349 | |
| 1000 | 410 | 1255 | 1170 | 1115 | 5 | 46 | 28-φ42 | 715 | 950 | 263 | 510 | 700 | F35 | 110 | 170 | 1560 | |
| 1200 | 470 | 1485 | 1390 | 1330 | 5 | 52 | 32-φ48 | 840 | 1125 | 333 | 550 | 800 | F35 | 130 | 200 | 2315 | |
| 1400 | 530 | 1685 | 1590 | 1530 | 5 | 58 | 36-φ48 | 980 | 1275 | 333 | 550 | 800 | F40 | 150 | 200 | 2900 | |
| 1600 | 600 | 1930 | 1820 | 1750 | 5 | 64 | 40-φ56 | 1125 | 1470 | 374 | 590 | 900 | F40 | 180 | 230 | 3500 | |
| 1800 | 670 | 2130 | 2020 | 1950 | 5 | 68 | 44-φ56 | 1240 | 1585 | 453 | 635 | 900 | F48 | 210 | 240 | 4970 | |
| 2000 | 760 | 2345 | 2230 | 2150 | 5 | 70 | 48-φ62 | 1380 | 1720 | 453 | 635 | 900 | F60 | 230 | 250 | 7315 | |

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 2. For restricted by length, for inquired specifications not listed, please contact us.
 3. The operation can be Worm gear , pneumatic actuator, electric actuator and hydraulic actuator, ect.

Connection Dimensions D343H-25C DN50~DN1600

| DN | L | Flange Dimensions | | | | | | | | Overall Dimensions | | | | | The Dimensions of Top Flange | | | Weight (Kg) |
|------|-----|-------------------|------|------|---|----|--------|-------|-------|--------------------|-----|-----|-----|---------|------------------------------|-----|------|-------------|
| | | D | D1 | D2 | f | b | Z-φd | 4-W | H0 | H | A | B | G | ISO5211 | d0 | h | | |
| 50 | 108 | 165 | 125 | 102 | 3 | 20 | 4-φ18 | - | 82.5 | 195 | 50 | 144 | 180 | F07 | 16 | 35 | 17 | |
| 65 | 112 | 185 | 145 | 122 | 3 | 22 | 8-φ18 | - | 92.5 | 215 | 50 | 144 | 180 | F07 | 16 | 35 | 18 | |
| 80 | 114 | 200 | 160 | 138 | 3 | 24 | 8-φ18 | - | 100 | 215 | 50 | 144 | 180 | F07 | 16 | 35 | 20 | |
| 100 | 127 | 235 | 190 | 162 | 3 | 24 | 8-φ22 | - | 117.5 | 235 | 50 | 144 | 180 | F07 | 18 | 40 | 23 | |
| 125 | 140 | 270 | 220 | 188 | 3 | 26 | 8-φ26 | - | 135 | 290 | 63 | 200 | 300 | F10 | 22 | 45 | 38 | |
| 150 | 140 | 300 | 250 | 218 | 3 | 28 | 8-φ26 | - | 180 | 310 | 63 | 200 | 300 | F10 | 25 | 50 | 49 | |
| 200 | 152 | 360 | 310 | 278 | 3 | 30 | 8-φ26 | 4-M24 | 185 | 370 | 80 | 230 | 350 | F12 | 30 | 60 | 64 | |
| 250 | 165 | 425 | 370 | 335 | 3 | 32 | 8-φ30 | 4-M27 | 215 | 397 | 80 | 230 | 350 | F12 | 35 | 70 | 81 | |
| 300 | 178 | 485 | 430 | 395 | 4 | 34 | 12-φ30 | 4-M27 | 250 | 455 | 125 | 260 | 400 | F14 | 40 | 80 | 144 | |
| 350 | 190 | 555 | 490 | 450 | 4 | 38 | 12-φ33 | 4-M30 | 285 | 495 | 125 | 260 | 400 | F14 | 45 | 90 | 172 | |
| 400 | 216 | 620 | 550 | 505 | 4 | 40 | 12-φ36 | 4-M33 | 330 | 535 | 125 | 260 | 400 | F16 | 50 | 100 | 272 | |
| 450 | 222 | 670 | 600 | 555 | 4 | 46 | 16-φ36 | 4-M33 | 345 | 560 | 160 | 290 | 500 | F25 | 55 | 110 | 322 | |
| 500 | 229 | 730 | 660 | 615 | 4 | 48 | 16-φ36 | 4-M33 | 390 | 620 | 160 | 290 | 500 | F25 | 60 | 120 | 370 | |
| 600 | 267 | 845 | 770 | 720 | 5 | 58 | 16-φ39 | 4-M36 | 445 | 685 | 200 | 418 | 600 | F25 | 70 | 130 | 571 | |
| 700 | 292 | 960 | 875 | 820 | 5 | 50 | 20-φ42 | 4-M39 | 545 | 750 | 263 | 510 | 700 | F30 | 90 | 160 | 808 | |
| 800 | 318 | 1085 | 990 | 930 | 5 | 54 | 20-φ48 | 4-M45 | 625 | 870 | 263 | 510 | 700 | F30 | 100 | 170 | 1288 | |
| 900 | 330 | 1185 | 1090 | 1030 | 5 | 58 | 24-φ48 | 4-M45 | 685 | 965 | 263 | 510 | 700 | F35 | 110 | 170 | 1519 | |
| 1000 | 410 | 1320 | 1210 | 1140 | 5 | 62 | 24-φ56 | 4-M52 | 755 | 1040 | 333 | 550 | 800 | F35 | 120 | 190 | 1787 | |
| 1200 | 470 | 1530 | 1420 | 1350 | 5 | 70 | 28-φ56 | 4-M52 | 860 | 1180 | 333 | 550 | 800 | F35 | 140 | 200 | 2510 | |
| 1400 | 530 | 1755 | 1640 | 1560 | 5 | 76 | 32-φ62 | 4-M56 | 1020 | 1365 | 374 | 590 | 900 | F40 | 160 | 220 | 3203 | |
| 1600 | 600 | 1975 | 1860 | 1780 | 5 | 84 | 36-φ62 | 4-M56 | 1190 | 1580 | 374 | 590 | 900 | F48 | 180 | 230 | 4025 | |

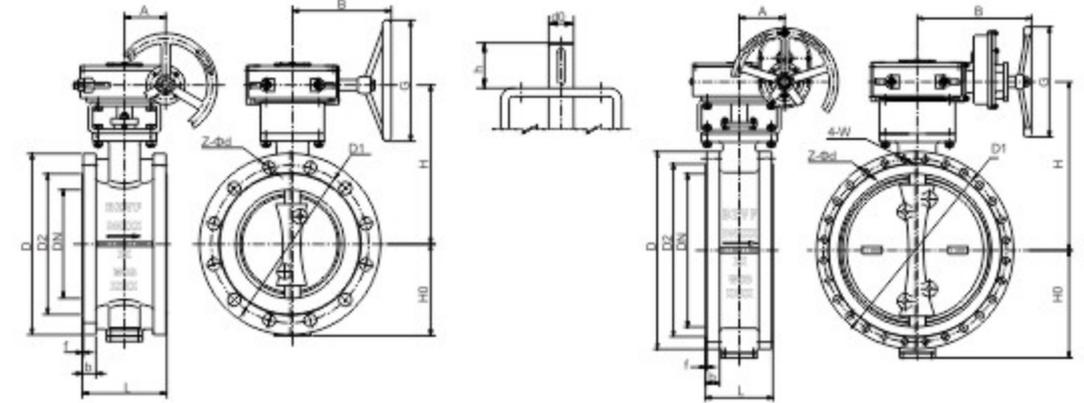
Note: 1. The above dimensions are normal data, and the flange dimensions are made according to EN1092-1, but it also can be made according to different requirements.
 2. For restricted by length, for inquired specifications not listed, please contact us.
 3. The operation can be Worm gear , pneumatic actuator, electric actuator and hydraulic actuator, ect.



Connection Dimensions D343H-40C DN50~DN1400

| DN | L | Flange Dimensions | | | | | | | Overall Dimensions | | | | | The Dimensions of Top Flange | | | Weight (Kg) |
|------|-----|-------------------|------|------|---|----|--------|-------|--------------------|------|-----|-----|-----|------------------------------|-----|-----|-------------|
| | | D | D1 | D2 | f | b | Z-φd | 4-W | H0 | H | A | B | G | ISO5211 | d0 | h | |
| 50 | 150 | 165 | 125 | 102 | 3 | 20 | 4-φ18 | - | 82.5 | 195 | 50 | 144 | 180 | F07 | 16 | 35 | 19 |
| 65 | 170 | 185 | 145 | 122 | 3 | 22 | 8-φ18 | - | 92.5 | 210 | 50 | 144 | 180 | F07 | 16 | 35 | 20 |
| 80 | 180 | 200 | 160 | 138 | 3 | 24 | 8-φ18 | - | 100 | 230 | 50 | 144 | 180 | F07 | 18 | 40 | 23 |
| 100 | 190 | 235 | 190 | 162 | 3 | 24 | 8-φ22 | - | 117.5 | 250 | 50 | 144 | 180 | F07 | 18 | 40 | 26 |
| 125 | 200 | 270 | 220 | 188 | 3 | 26 | 8-φ26 | - | 135 | 295 | 63 | 200 | 300 | F10 | 22 | 45 | 43 |
| 150 | 210 | 300 | 250 | 218 | 3 | 28 | 8-φ26 | - | 215 | 340 | 80 | 230 | 350 | F12 | 30 | 60 | 64 |
| 200 | 230 | 375 | 320 | 285 | 3 | 34 | 12-φ30 | - | 220 | 390 | 80 | 230 | 350 | F12 | 35 | 70 | 74 |
| 250 | 250 | 450 | 385 | 345 | 3 | 38 | 8-φ33 | 4-M30 | 265 | 485 | 125 | 260 | 400 | F14 | 40 | 80 | 119 |
| 300 | 270 | 515 | 450 | 310 | 4 | 42 | 12-φ33 | 4-M30 | 290 | 490 | 125 | 260 | 400 | F14 | 45 | 90 | 165 |
| 350 | 290 | 580 | 510 | 465 | 4 | 46 | 12-φ36 | 4-M33 | 310 | 540 | 125 | 260 | 400 | F16 | 50 | 100 | 259 |
| 400 | 310 | 660 | 585 | 535 | 4 | 50 | 12-φ39 | 4-M36 | 340 | 620 | 160 | 290 | 500 | F25 | 60 | 120 | 325 |
| 450 | 330 | 685 | 610 | 560 | 4 | 57 | 16-φ39 | 4-M36 | 390 | 645 | 200 | 418 | 600 | F25 | 70 | 130 | 366 |
| 500 | 350 | 755 | 670 | 615 | 4 | 57 | 16-φ42 | 4-M39 | 415 | 670 | 200 | 418 | 600 | F25 | 70 | 130 | 444 |
| 600 | 390 | 890 | 795 | 735 | 5 | 72 | 16-φ48 | 4-M45 | 500 | 740 | 263 | 510 | 700 | F30 | 90 | 160 | 661 |
| 700 | 430 | 995 | 900 | 840 | 5 | 64 | 20-φ48 | 4-M45 | 580 | 900 | 263 | 510 | 700 | F30 | 110 | 170 | 1096 |
| 800 | 470 | 1140 | 1030 | 960 | 5 | 72 | 20-φ56 | 4-M52 | 665 | 975 | 333 | 550 | 800 | F35 | 130 | 200 | 1492 |
| 900 | 510 | 1250 | 1140 | 1070 | 5 | 76 | 24-φ56 | 4-M52 | 690 | 1010 | 333 | 550 | 800 | F35 | 140 | 200 | 1823 |
| 1000 | 550 | 1360 | 1250 | 1180 | 5 | 80 | 24-φ56 | 4-M52 | 755 | 1090 | 333 | 550 | 800 | F40 | 150 | 200 | 2198 |
| 1200 | 630 | 1575 | 1460 | 1380 | 5 | 88 | 28-φ62 | 4-M56 | 950 | 1365 | 374 | 590 | 900 | F40 | 170 | 220 | 3087 |
| 1400 | 710 | 1795 | 1680 | 1600 | 5 | 98 | 32-φ62 | 4-M56 | 1090 | 1475 | 374 | 590 | 900 | F48 | 200 | 230 | 3940 |

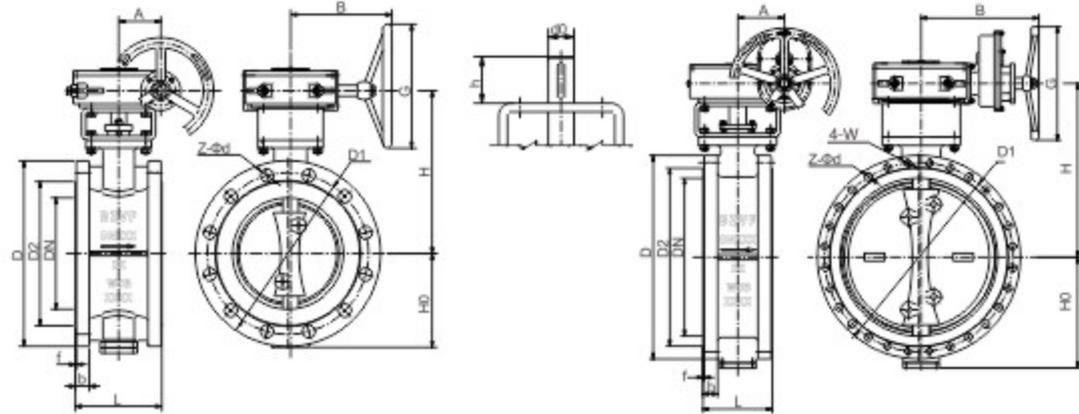
Note: 1. The above dimensions are normal data, and the flange dimensions are made according to EN1092-1, but it also can be made according to different requirements.
 2. For restricted by length, for inquired specifications not listed, please contact us.
 3. The operation can be Worm gear , pneumatic actuator, electric actuator and hydraulic actuator, ect.



Connection Dimensions D343H-63C DN50~DN1200

| DN | L | Flange Dimensions | | | | | | | Overall Dimensions | | | | | The Dimensions of Top Flange | | | Weight (Kg) |
|------|-----|-------------------|------|------|---|-----|--------|---------|--------------------|------|-----|-----|-----|------------------------------|-----|-----|-------------|
| | | D | D1 | D2 | f | b | Z-φd | 4-W | H0 | H | A | B | G | ISO5211 | d0 | h | |
| 50 | 150 | 180 | 135 | 102 | 3 | 26 | 4-φ22 | - | 90 | 195 | 50 | 144 | 180 | F07 | 16 | 35 | 22 |
| 65 | 170 | 205 | 160 | 122 | 3 | 26 | 8-φ22 | - | 102.5 | 210 | 50 | 144 | 180 | F07 | 16 | 35 | 23 |
| 80 | 180 | 215 | 170 | 138 | 3 | 28 | 8-φ22 | - | 107.5 | 230 | 50 | 144 | 180 | F07 | 18 | 40 | 26 |
| 100 | 190 | 250 | 200 | 162 | 3 | 30 | 8-φ26 | - | 125 | 250 | 63 | 200 | 300 | F10 | 22 | 45 | 30 |
| 125 | 200 | 295 | 240 | 188 | 3 | 34 | 8-φ30 | - | 147.5 | 295 | 63 | 200 | 300 | F10 | 25 | 50 | 50 |
| 150 | 210 | 345 | 280 | 218 | 3 | 36 | 8-φ33 | - | 215 | 340 | 80 | 230 | 350 | F12 | 30 | 60 | 73 |
| 200 | 230 | 415 | 345 | 285 | 3 | 42 | 12-φ36 | - | 220 | 410 | 80 | 230 | 350 | F12 | 35 | 70 | 86 |
| 250 | 250 | 470 | 400 | 345 | 3 | 46 | 8-φ36 | 4-M33 | 265 | 505 | 125 | 260 | 400 | F14 | 45 | 90 | 134 |
| 300 | 270 | 530 | 460 | 410 | 4 | 52 | 12-φ36 | 4-M33 | 300 | 525 | 160 | 290 | 500 | F25 | 55 | 110 | 251 |
| 350 | 290 | 600 | 525 | 465 | 4 | 56 | 12-φ39 | 4-M36 | 310 | 540 | 160 | 290 | 500 | F25 | 60 | 120 | 290 |
| 400 | 310 | 670 | 585 | 535 | 4 | 60 | 12-φ42 | 4-M39 | 335 | 650 | 200 | 418 | 600 | F25 | 70 | 130 | 390 |
| 500 | 350 | 800 | 705 | 615 | 4 | 68 | 16-φ48 | 4-M45 | 415 | 730 | 263 | 510 | 700 | F30 | 90 | 160 | 508 |
| 600 | 390 | 930 | 820 | 735 | 5 | 76 | 16-φ56 | 4-M52 | 490 | 770 | 263 | 510 | 700 | F30 | 90 | 160 | 918 |
| 700 | 430 | 1045 | 935 | 840 | 5 | 84 | 20-φ56 | 4-M52 | 580 | 890 | 263 | 510 | 700 | F30 | 110 | 170 | 1425 |
| 800 | 470 | 1165 | 1050 | 960 | 5 | 92 | 24-φ62 | 4-M56 | 665 | 925 | 333 | 550 | 800 | F35 | 130 | 200 | 1940 |
| 900 | 510 | 1285 | 1170 | 1070 | 5 | 98 | 24-φ62 | 4-M56 | 700 | 1035 | 333 | 550 | 800 | F35 | 140 | 200 | 2370 |
| 1000 | 550 | 1415 | 1290 | 1180 | 5 | 108 | 24-φ70 | 4-M64 | 755 | 1150 | 333 | 550 | 800 | F40 | 150 | 200 | 2858 |
| 1200 | 630 | 1665 | 1530 | 1380 | 5 | 126 | 28-φ78 | 4-M72X6 | 860 | 1330 | 374 | 590 | 900 | F40 | 180 | 230 | 4014 |

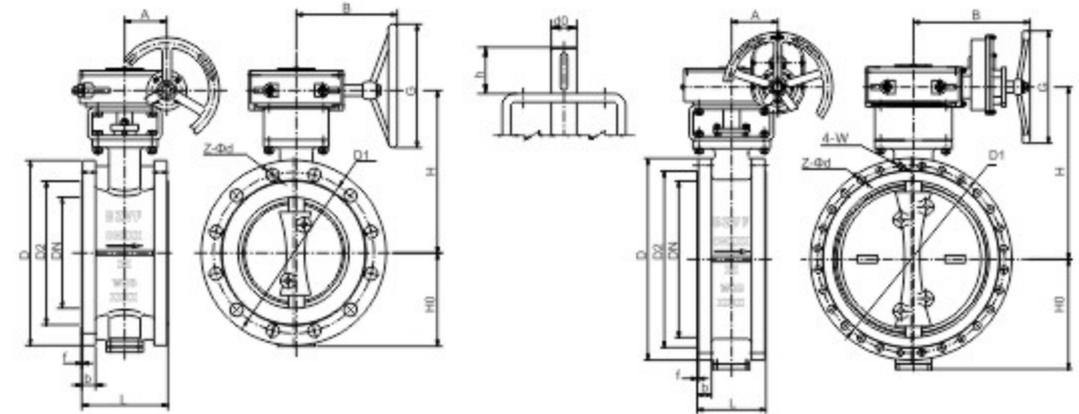
Note: 1. The above dimensions are normal data, and the flange dimensions are made according to EN1092-1, but it also can be made according to different requirements.
 2. For restricted by length, for inquired specifications not listed, please contact us.
 3. The operation can be Worm gear , pneumatic actuator, electric actuator and hydraulic actuator, ect.



Connection Dimensions D343H-100C DN50~DN800

| DN | L | Flange Dimensions | | | | | | | | Overall Dimensions | | | | | The Dimensions of Top Flange | | | Weight (Kg) |
|-----|-----|-------------------|------|-----|---|-----|--------|-------|-------|--------------------|-----|-----|-----|---------|------------------------------|-----|------|-------------|
| | | D | D1 | D2 | f | b | Z-φd | 4-W | H0 | H | A | B | G | ISO5211 | d0 | h | | |
| 50 | 150 | 195 | 145 | 102 | 3 | 30 | 4-φ26 | - | 97.5 | 195 | 50 | 144 | 180 | F07 | 16 | 35 | 26 | |
| 65 | 170 | 220 | 170 | 122 | 3 | 34 | 8-φ26 | - | 110 | 210 | 50 | 144 | 180 | F07 | 16 | 35 | 28 | |
| 80 | 180 | 230 | 180 | 138 | 3 | 36 | 8-φ26 | - | 115 | 270 | 50 | 144 | 180 | F07 | 18 | 40 | 31 | |
| 100 | 190 | 265 | 210 | 162 | 3 | 40 | 8-φ30 | - | 132.5 | 285 | 63 | 200 | 300 | F10 | 25 | 50 | 35 | |
| 125 | 200 | 315 | 250 | 188 | 3 | 40 | 8-φ33 | - | 157.5 | 305 | 80 | 230 | 350 | F12 | 30 | 60 | 58 | |
| 150 | 210 | 355 | 290 | 218 | 3 | 44 | 8-φ33 | 4-M30 | 215 | 410 | 80 | 230 | 350 | F12 | 35 | 70 | 84 | |
| 200 | 230 | 430 | 360 | 285 | 3 | 52 | 8-φ36 | 4-M33 | 220 | 425 | 125 | 260 | 400 | F14 | 45 | 90 | 125 | |
| 250 | 250 | 505 | 430 | 345 | 3 | 60 | 8-φ39 | 4-M36 | 265 | 505 | 125 | 260 | 400 | F16 | 50 | 100 | 153 | |
| 300 | 270 | 585 | 500 | 410 | 4 | 68 | 12-φ42 | 4-M39 | 295 | 545 | 160 | 290 | 500 | F25 | 60 | 120 | 281 | |
| 350 | 290 | 655 | 560 | 465 | 4 | 74 | 12-φ48 | 4-M45 | 335 | 570 | 200 | 418 | 600 | F25 | 70 | 130 | 328 | |
| 400 | 310 | 715 | 620 | 535 | 4 | 78 | 12-φ48 | 4-M45 | 390 | 620 | 200 | 418 | 600 | F30 | 80 | 130 | 443 | |
| 500 | 350 | 870 | 760 | 615 | 4 | 94 | 16-φ56 | 4-M52 | 450 | 760 | 263 | 510 | 700 | F30 | 100 | 160 | 584 | |
| 600 | 390 | 990 | 875 | 735 | 5 | 101 | 16-φ62 | 4-M56 | 550 | 850 | 333 | 550 | 800 | F35 | 120 | 190 | 1056 | |
| 700 | 430 | 1145 | 1020 | 840 | 5 | 120 | 20-φ70 | 4-M64 | 630 | 945 | 333 | 550 | 800 | F35 | 140 | 200 | 1640 | |
| 800 | 470 | 1265 | 1140 | 960 | 5 | 130 | 20-φ70 | 4-M64 | 740 | 1100 | 374 | 590 | 900 | F40 | 170 | 220 | 2230 | |

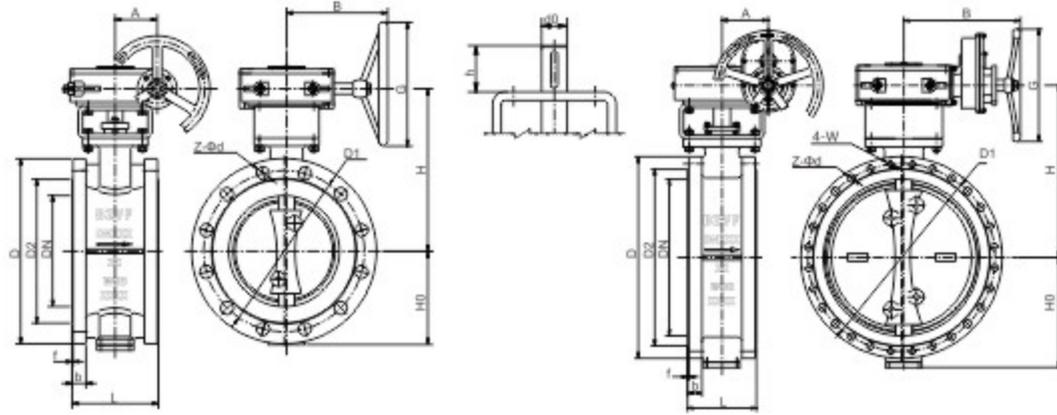
Note: 1. The above dimensions are normal data, and the flange dimensions are made according to EN1092-1, but it also can be made according to different requirements.
 2. For restricted by length, for inquired specifications not listed, please contact us.
 3. The operation can be Worm gear , pneumatic actuator, electric actuator and hydraulic actuator, ect.



Connection Dimensions D343H-150C 2"-60"

| DN | L | Flange Dimensions | | | | | | | | Overall Dimensions | | | | | The Dimensions of Top Flange | | | Weight (Kg) |
|-----|-----|-------------------|--------|------|---|-----|--------|--------------|-------|--------------------|-----|-----|-----|---------|------------------------------|-----|------|-------------|
| | | D | D1 | D2 | f | b | Z-φd | 4-W | H0 | H | A | B | G | ISO5211 | d0 | h | | |
| 2 | 108 | 150 | 120.7 | 92 | 2 | 19 | 4-φ19 | - | 75 | 195 | 50 | 144 | 180 | F07 | 16 | 35 | 16 | |
| 2.5 | 112 | 180 | 139.7 | 105 | 2 | 23 | 4-φ19 | - | 90 | 215 | 50 | 144 | 180 | F07 | 16 | 35 | 17 | |
| 3 | 114 | 190 | 152.4 | 127 | 2 | 24 | 4-φ19 | - | 95 | 215 | 50 | 144 | 180 | F07 | 16 | 35 | 19 | |
| 4 | 127 | 230 | 190.5 | 157 | 2 | 24 | 8-φ19 | - | 115 | 235 | 50 | 144 | 180 | F07 | 18 | 40 | 21 | |
| 5 | 140 | 255 | 216 | 186 | 2 | 24 | 8-φ22 | - | 127.5 | 290 | 63 | 200 | 300 | F10 | 22 | 45 | 35 | |
| 6 | 140 | 280 | 241.3 | 216 | 2 | 26 | 8-φ22 | - | 180 | 310 | 63 | 200 | 300 | F10 | 25 | 50 | 45 | |
| 8 | 152 | 345 | 298.5 | 270 | 2 | 29 | 8-φ22 | - | 202 | 360 | 80 | 230 | 350 | F12 | 30 | 60 | 60 | |
| 10 | 165 | 405 | 362 | 324 | 2 | 30 | 12-φ25 | - | 235 | 395 | 80 | 230 | 350 | F12 | 35 | 70 | 75 | |
| 12 | 178 | 485 | 431.8 | 381 | 2 | 32 | 8-φ25 | 4-7/8-8UNC | 250 | 455 | 125 | 260 | 400 | F14 | 40 | 80 | 144 | |
| 14 | 190 | 535 | 476.3 | 413 | 2 | 35 | 8-φ29 | 4-1-8UNC | 285 | 495 | 125 | 260 | 400 | F14 | 45 | 90 | 172 | |
| 16 | 216 | 595 | 539.8 | 470 | 2 | 37 | 12-φ29 | 4-1-8UNC | 330 | 535 | 125 | 260 | 400 | F16 | 50 | 100 | 272 | |
| 18 | 222 | 635 | 578 | 533 | 2 | 40 | 16-φ32 | - | 365 | 550 | 160 | 290 | 500 | F25 | 55 | 110 | 241 | |
| 20 | 229 | 700 | 635 | 584 | 2 | 43 | 20-φ32 | - | 405 | 610 | 160 | 290 | 500 | F25 | 60 | 120 | 350 | |
| 24 | 267 | 815 | 749.3 | 692 | 2 | 48 | 16-φ35 | 4-1-1/4-8UNC | 445 | 685 | 200 | 418 | 600 | F25 | 70 | 130 | 571 | |
| 28 | 292 | 925 | 863.6 | 800 | 2 | 72 | 24-φ35 | 4-1-1/4-8UNC | 545 | 785 | 263 | 510 | 700 | F30 | 90 | 160 | 808 | |
| 32 | 318 | 1060 | 977.6 | 914 | 2 | 81 | 24-φ41 | 4-1-1/2-8UNC | 625 | 870 | 263 | 510 | 700 | F30 | 100 | 170 | 1288 | |
| 36 | 330 | 1170 | 1085.8 | 1022 | 2 | 91 | 28-φ41 | 4-1-1/2-8UNC | 685 | 965 | 263 | 510 | 700 | F35 | 110 | 170 | 1519 | |
| 40 | 410 | 1290 | 1200.2 | 1124 | 2 | 91 | 32-φ41 | 4-1-1/2-8UNC | 755 | 1040 | 333 | 550 | 800 | F35 | 120 | 190 | 1787 | |
| 48 | 470 | 1510 | 1422.4 | 1359 | 2 | 108 | 40-φ41 | 4-1-1/2-8UNC | 860 | 1180 | 333 | 550 | 800 | F35 | 140 | 200 | 2510 | |
| 56 | 530 | 1745 | 1651 | 1575 | 2 | 124 | 44-φ48 | 4-1-3/4-8UNC | 1020 | 1365 | 374 | 590 | 900 | F40 | 160 | 220 | 3203 | |
| 60 | 530 | 1855 | 1759 | 1676 | 2 | 132 | 48-φ48 | 4-1-3/4-8UNC | 1080 | 1465 | 374 | 590 | 900 | F48 | 170 | 230 | 4955 | |

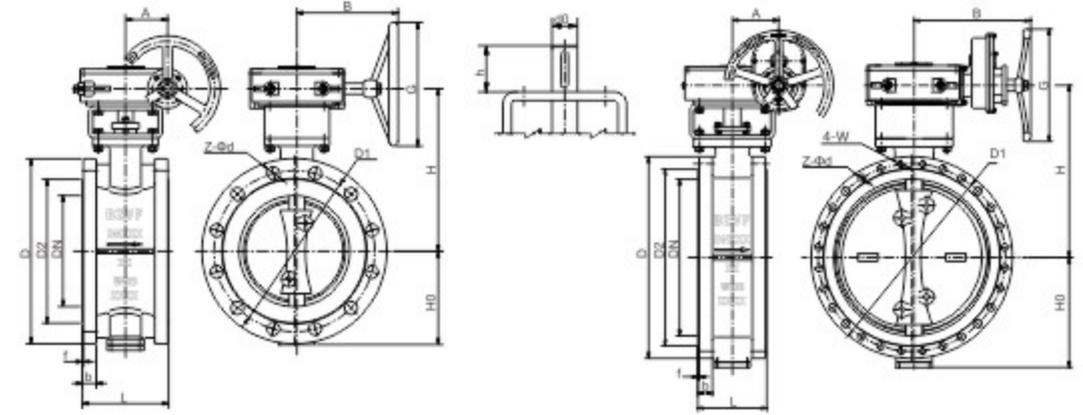
Note: 1. The above dimensions are normal data, but it also can be made according to different requirements.
 2. For restricted by length, for inquired specifications not listed, please contact us.
 3. The operation can be Worm gear , pneumatic actuator, electric actuator and hydraulic actuator, ect.



Connection Dimensions D343H-300C 2"-56"

| DN | L | Flange Dimensions | | | | | | | Overall Dimensions | | | | | The Dimensions of Top Flange | | | Weight (Kg) |
|-----|-----|-------------------|--------|------|---|-------|--------|-------------|--------------------|------|-----|-----|-----|------------------------------|-----|-----|-------------|
| | | D | D1 | D2 | f | b | Z-φd | 4-W | H0 | H | A | B | G | ISO5211 | d0 | h | |
| 2 | 150 | 165 | 127 | 92 | 2 | 23 | 8-φ19 | - | 82.5 | 195 | 50 | 144 | 180 | F07 | 16 | 35 | 19 |
| 2.5 | 170 | 190 | 149.2 | 105 | 2 | 26 | 8-φ22 | - | 95 | 210 | 50 | 144 | 180 | F07 | 16 | 35 | 20 |
| 3 | 180 | 210 | 168.3 | 127 | 2 | 29 | 8-φ22 | - | 105 | 230 | 50 | 144 | 180 | F07 | 18 | 40 | 23 |
| 4 | 190 | 255 | 200 | 157 | 2 | 32 | 8-φ22 | - | 127.5 | 250 | 50 | 144 | 180 | F07 | 18 | 40 | 26 |
| 5 | 200 | 280 | 235 | 186 | 2 | 35 | 8-φ22 | - | 140 | 295 | 63 | 200 | 300 | F10 | 22 | 45 | 43 |
| 6 | 210 | 320 | 270 | 216 | 2 | 37 | 12-φ22 | - | 215 | 340 | 80 | 230 | 350 | F12 | 30 | 60 | 64 |
| 8 | 230 | 380 | 330.2 | 270 | 2 | 42 | 12-φ25 | - | 220 | 390 | 80 | 230 | 350 | F12 | 35 | 70 | 74 |
| 10 | 250 | 445 | 387.4 | 324 | 2 | 48 | 12-φ29 | 4-1-8UNC | 265 | 485 | 125 | 260 | 400 | F14 | 40 | 80 | 119 |
| 12 | 270 | 520 | 450.8 | 381 | 2 | 51 | 12-φ32 | 4-1 1/8-8UN | 290 | 490 | 125 | 260 | 400 | F14 | 45 | 90 | 165 |
| 14 | 290 | 585 | 514.4 | 413 | 2 | 54 | 16-φ32 | 4-1 1/8-8UN | 310 | 540 | 125 | 260 | 400 | F16 | 50 | 100 | 259 |
| 16 | 310 | 650 | 571.5 | 470 | 2 | 58 | 16-φ35 | 4-1 1/4-8UN | 340 | 620 | 160 | 290 | 500 | F25 | 60 | 120 | 325 |
| 18 | 330 | 710 | 628.6 | 533 | 2 | 61 | 20-φ35 | 4-1 1/4-8UN | 390 | 645 | 200 | 418 | 600 | F25 | 70 | 130 | 366 |
| 20 | 350 | 775 | 685.8 | 584 | 2 | 64 | 20-φ35 | 4-1 1/4-8UN | 415 | 670 | 200 | 418 | 600 | F25 | 70 | 130 | 444 |
| 24 | 390 | 915 | 812.8 | 692 | 2 | 70 | 20-φ41 | 4-1 1/2-8UN | 500 | 740 | 263 | 510 | 700 | F30 | 90 | 160 | 661 |
| 28 | 430 | 1035 | 939.8 | 800 | 2 | 86 | 24-φ44 | 4-1 1/8-8UN | 580 | 900 | 263 | 510 | 700 | F30 | 110 | 170 | 1096 |
| 32 | 470 | 1150 | 1054 | 914 | 2 | 99 | 24-φ51 | 4-1 7/8-8UN | 665 | 975 | 333 | 550 | 800 | F35 | 130 | 200 | 1492 |
| 36 | 510 | 1270 | 1168.4 | 1022 | 2 | 105 | 28-φ54 | 4-2-8UN | 690 | 1010 | 333 | 550 | 800 | F35 | 140 | 200 | 2128 |
| 40 | 550 | 1240 | 1155.7 | 1086 | 2 | 115 | 28-φ44 | 4-1 1/8-8UN | 755 | 1090 | 333 | 550 | 800 | F40 | 150 | 200 | 2502 |
| 48 | 630 | 1465 | 1371.6 | 1302 | 2 | 134 | 28-φ51 | 4-1 7/8-8UN | 950 | 1365 | 374 | 590 | 900 | F40 | 170 | 220 | 3514 |
| 56 | 710 | 1710 | 1600.2 | 1518 | 2 | 154.5 | 24-φ60 | 4-2 1/4-8UN | 1090 | 1475 | 374 | 590 | 900 | F48 | 200 | 230 | 4484 |

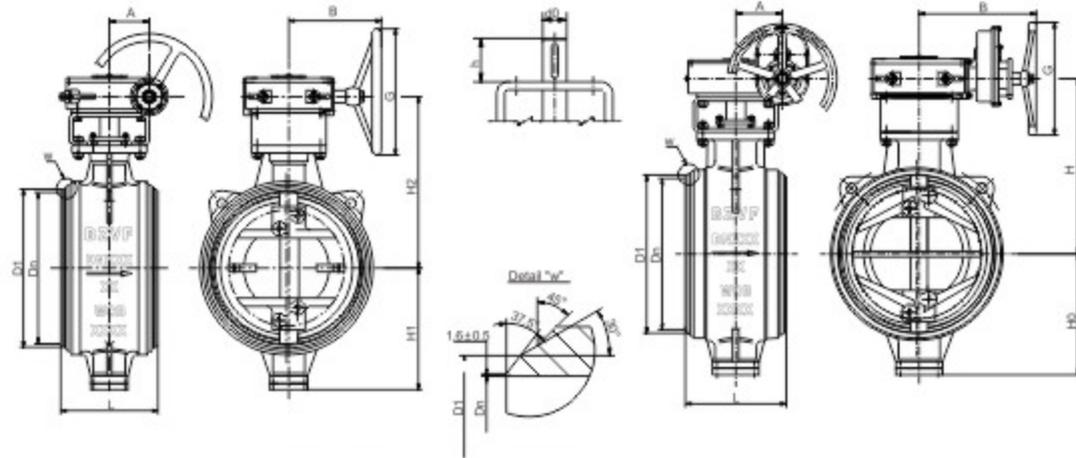
Note: 1. The above dimensions are normal data, but it also can be made according to different requirements.
2. For restricted by length, for inquired specifications not listed, please contact us.
3. The operation can be Worm gear , pneumatic actuator, electric actuator and hydraulic actuator, ect.



Connection Dimensions D343H-600C 2"-40"

| DN | L | Flange Dimensions | | | | | | | Overall Dimensions | | | | | The Dimensions of Top Flange | | | Weight (Kg) |
|-----|-----|-------------------|--------|------|---|-------|--------|-------------|--------------------|------|-----|-----|-----|------------------------------|-----|-----|-------------|
| | | D | D1 | D2 | f | b | Z-φd | 4-W | H0 | H | A | B | G | ISO5211 | d0 | h | |
| 2 | 150 | 165 | 127 | 92 | 7 | 32.5 | 8-φ19 | - | 82.5 | 195 | 50 | 144 | 180 | F07 | 16 | 35 | 26 |
| 2.5 | 170 | 190 | 149.2 | 105 | 7 | 36 | 8-φ22 | - | 95 | 210 | 50 | 144 | 180 | F07 | 16 | 35 | 28 |
| 3 | 180 | 210 | 168.3 | 127 | 7 | 39 | 8-φ22 | - | 105 | 270 | 50 | 144 | 180 | F07 | 18 | 40 | 35 |
| 4 | 190 | 275 | 216 | 157 | 7 | 45 | 8-φ25 | - | 137.5 | 285 | 63 | 200 | 300 | F10 | 25 | 50 | 58 |
| 5 | 200 | 330 | 266.7 | 186 | 7 | 51.5 | 8-φ29 | - | 165 | 305 | 80 | 230 | 350 | F12 | 30 | 60 | 84 |
| 6 | 210 | 355 | 292 | 216 | 7 | 55 | 12-φ29 | 4-1-8UNC | 200 | 410 | 80 | 230 | 350 | F12 | 35 | 70 | 125 |
| 8 | 230 | 420 | 349.2 | 270 | 7 | 63 | 12-φ32 | 4-1 1/8-8UN | 220 | 425 | 125 | 260 | 400 | F14 | 45 | 90 | 153 |
| 10 | 250 | 510 | 431.8 | 324 | 7 | 70.5 | 16-φ35 | 4-1 1/4-8UN | 265 | 505 | 125 | 260 | 400 | F16 | 50 | 100 | 281 |
| 12 | 270 | 560 | 489 | 381 | 7 | 74 | 20-φ35 | 4-1 1/4-8UN | 295 | 545 | 160 | 290 | 500 | F25 | 60 | 120 | 328 |
| 14 | 290 | 605 | 527 | 413 | 7 | 77 | 20-φ38 | 4-1 1/8-8UN | 335 | 570 | 200 | 418 | 600 | F25 | 70 | 130 | 443 |
| 16 | 310 | 685 | 603.2 | 470 | 7 | 83 | 20-φ41 | 4-1 1/2-8UN | 390 | 620 | 200 | 418 | 600 | F30 | 80 | 130 | 512 |
| 18 | 330 | 745 | 654 | 533 | 7 | 90 | 20-φ44 | 4-1 1/8-8UN | 425 | 685 | 263 | 510 | 700 | F30 | 90 | 150 | 612 |
| 20 | 350 | 815 | 724 | 584 | 7 | 96 | 24-φ44 | 4-1 1/8-8UN | 450 | 760 | 263 | 510 | 700 | F30 | 100 | 160 | 925 |
| 24 | 390 | 940 | 838.2 | 692 | 7 | 109 | 24-φ51 | 4-1 7/8-8UN | 550 | 850 | 333 | 550 | 800 | F35 | 120 | 190 | 1535 |
| 28 | 430 | 1075 | 965.2 | 800 | 7 | 118 | 28-φ54 | 4-2-8UN | 630 | 945 | 333 | 550 | 800 | F35 | 140 | 200 | 2090 |
| 32 | 470 | 1195 | 1079.5 | 914 | 7 | 124.5 | 28-φ60 | 4-2 1/4-8UN | 740 | 1100 | 374 | 590 | 900 | F40 | 170 | 220 | 2978 |
| 36 | 510 | 1315 | 1193.8 | 1022 | 7 | 131 | 28-φ67 | 4-2 1/2-8UN | 800 | 1165 | 374 | 590 | 900 | F40 | 180 | 230 | 3510 |
| 40 | 550 | 1320 | 1212.8 | 1111 | 7 | 166 | 32-φ60 | 4-2 1/4-8UN | 890 | 1290 | 374 | 590 | 900 | F48 | 200 | 230 | 4920 |

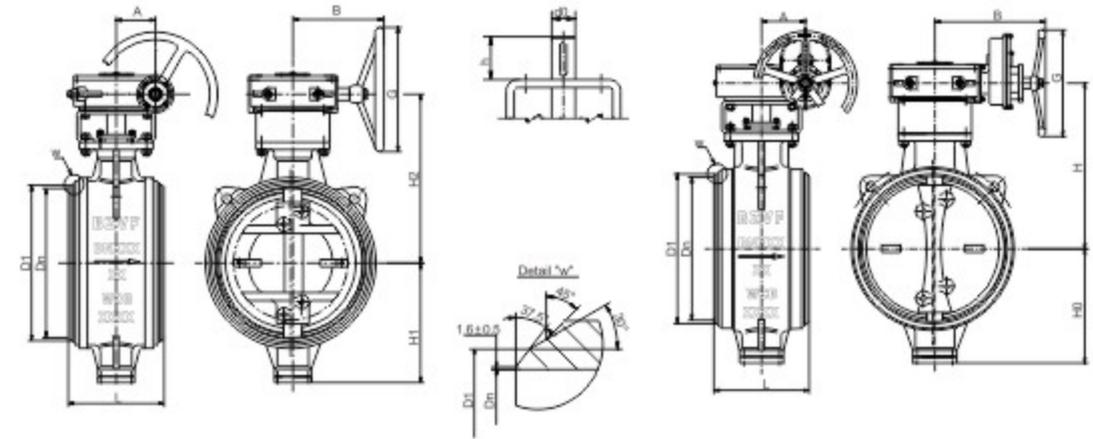
Note: 1. The above dimensions are normal data, but it also can be made according to different requirements.
2. For restricted by length, for inquired specifications not listed, please contact us.
3. The operation can be Worm gear , pneumatic actuator, electric actuator and hydraulic actuator, ect.



Connection Dimensions D363H-10/16C DN80~DN1800

| DN | NPS | L | Dimensions of But-welded | | Overall Dimensions | | | | | The Dimensions of Top Flange | | | Weight (Kg) |
|------|-----|-----|--------------------------|------|--------------------|------|-----|-----|-----|------------------------------|-----|-----|-------------|
| | | | Dn | D1 | H0 | H | A | B | G | ISO5211 | d0 | h | |
| 80 | 3" | 180 | 82 | 91 | 85 | 225 | 50 | 144 | 180 | F07 | 16 | 35 | 18 |
| 100 | 4" | 190 | 106 | 117 | 100 | 245 | 50 | 144 | 180 | F07 | 18 | 40 | 20 |
| 125 | 5" | 200 | 132 | 144 | 170 | 290 | 63 | 200 | 300 | F10 | 22 | 45 | 32 |
| 150 | 6" | 210 | 159 | 172 | 180 | 310 | 63 | 200 | 300 | F10 | 25 | 50 | 41 |
| 200 | 8" | 230 | 206 | 223 | 205 | 360 | 80 | 230 | 350 | F12 | 30 | 60 | 56 |
| 250 | 10" | 250 | 259 | 278 | 235 | 395 | 80 | 230 | 350 | F12 | 35 | 70 | 69 |
| 300 | 12" | 270 | 308 | 329 | 265 | 425 | 125 | 260 | 400 | F14 | 40 | 80 | 101 |
| 350 | 14" | 290 | 340 | 362 | 305 | 475 | 125 | 260 | 400 | F14 | 45 | 90 | 148 |
| 400 | 16" | 310 | 388 | 413 | 335 | 520 | 125 | 260 | 400 | F16 | 50 | 100 | 193 |
| 450 | 18" | 330 | 439 | 464 | 365 | 550 | 125 | 260 | 400 | F16 | 50 | 100 | 221 |
| 500 | 20" | 350 | 488 | 516 | 405 | 615 | 160 | 290 | 500 | F25 | 55 | 110 | 306 |
| 600 | 24" | 390 | 589 | 619 | 465 | 665 | 200 | 418 | 600 | F25 | 70 | 130 | 469 |
| 700 | 28" | 430 | 693 | 721 | 540 | 730 | 200 | 418 | 600 | F30 | 80 | 130 | 684 |
| 800 | 32" | 470 | 793 | 825 | 625 | 865 | 263 | 510 | 700 | F30 | 90 | 160 | 954 |
| 900 | 36" | 510 | 894 | 927 | 690 | 930 | 263 | 510 | 700 | F30 | 100 | 170 | 1293 |
| 1000 | 40" | 550 | 996 | 1029 | 755 | 1030 | 263 | 510 | 700 | F35 | 110 | 170 | 1431 |
| 1200 | 48" | 630 | 1194 | 1235 | 880 | 1165 | 333 | 550 | 800 | F35 | 130 | 200 | 2121 |
| 1400 | 56" | 710 | 1394 | 1440 | 1010 | 1335 | 333 | 550 | 800 | F40 | 150 | 200 | 2553 |
| 1600 | 64" | 790 | 1594 | 1640 | 1125 | 1470 | 374 | 590 | 900 | F40 | 180 | 230 | 3409 |
| 1800 | 72" | 870 | 1794 | 1840 | 1240 | 1585 | 453 | 635 | 900 | F48 | 210 | 240 | 4735 |

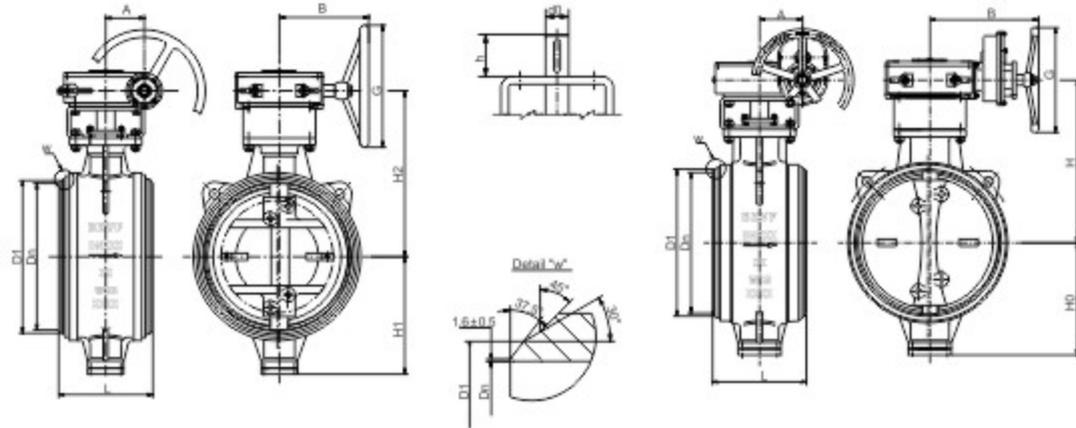
Note: 1. The above dimensions are normal data, and the dimensions of butt-welded end are made according to EN 12627, but it also can be made according to different requirements.
 2. For restricted by length, for inquired specifications not listed, please contact us.
 3. The operation can be Worm gear , pneumatic actuator, electric actuator and hydraulic actuator, ect.



Connection Dimensions D363H-25C DN80~DN1600 D363H-150C 3"-64"

| DN | NPS | L | Dimensions of But-welded | | Overall Dimensions | | | | | The Dimensions of Top Flange | | | Weight (Kg) |
|------|-----|-----|--------------------------|------|--------------------|------|-----|-----|-----|------------------------------|-----|-----|-------------|
| | | | Dn | D1 | H0 | H | A | B | G | ISO5211 | d0 | h | |
| 80 | 3" | 180 | 78 | 91 | 85 | 225 | 50 | 144 | 180 | F07 | 16 | 35 | 19 |
| 100 | 4" | 190 | 102 | 117 | 100 | 245 | 50 | 144 | 180 | F07 | 18 | 40 | 21 |
| 125 | 5" | 200 | 128 | 144 | 170 | 290 | 63 | 200 | 300 | F10 | 22 | 45 | 35 |
| 150 | 6" | 210 | 154 | 172 | 180 | 310 | 63 | 200 | 300 | F10 | 25 | 50 | 45 |
| 200 | 8" | 230 | 203 | 223 | 205 | 360 | 80 | 230 | 350 | F12 | 30 | 60 | 60 |
| 250 | 10" | 250 | 255 | 278 | 235 | 395 | 80 | 230 | 350 | F12 | 35 | 70 | 74 |
| 300 | 12" | 270 | 305 | 329 | 265 | 425 | 125 | 260 | 400 | F14 | 40 | 80 | 134 |
| 350 | 14" | 290 | 337 | 362 | 305 | 475 | 125 | 260 | 400 | F14 | 45 | 90 | 159 |
| 400 | 16" | 310 | 387 | 413 | 335 | 520 | 125 | 260 | 400 | F16 | 50 | 100 | 253 |
| 450 | 18" | 330 | 438 | 464 | 365 | 550 | 160 | 290 | 500 | F25 | 55 | 110 | 300 |
| 500 | 20" | 350 | 489 | 516 | 405 | 615 | 160 | 290 | 500 | F25 | 60 | 120 | 344 |
| 600 | 24" | 390 | 591 | 619 | 465 | 665 | 200 | 418 | 600 | F25 | 70 | 130 | 526 |
| 700 | 28" | 430 | 686 | 721 | 540 | 760 | 263 | 510 | 700 | F30 | 90 | 160 | 740 |
| 800 | 32" | 470 | 787 | 825 | 625 | 865 | 263 | 510 | 700 | F30 | 100 | 170 | 1187 |
| 900 | 36" | 510 | 889 | 927 | 690 | 965 | 263 | 510 | 700 | F35 | 110 | 170 | 1395 |
| 1000 | 40" | 550 | 990 | 1029 | 755 | 1040 | 333 | 550 | 800 | F35 | 120 | 190 | 1645 |
| 1200 | 48" | 630 | 1194 | 1235 | 880 | 1165 | 333 | 550 | 800 | F35 | 140 | 200 | 2296 |
| 1400 | 56" | 710 | 1394 | 1440 | 1010 | 1355 | 374 | 590 | 900 | F40 | 160 | 220 | 2936 |
| 1600 | 64" | 790 | 1594 | 1640 | 1190 | 1580 | 374 | 590 | 900 | F48 | 180 | 230 | 3818 |

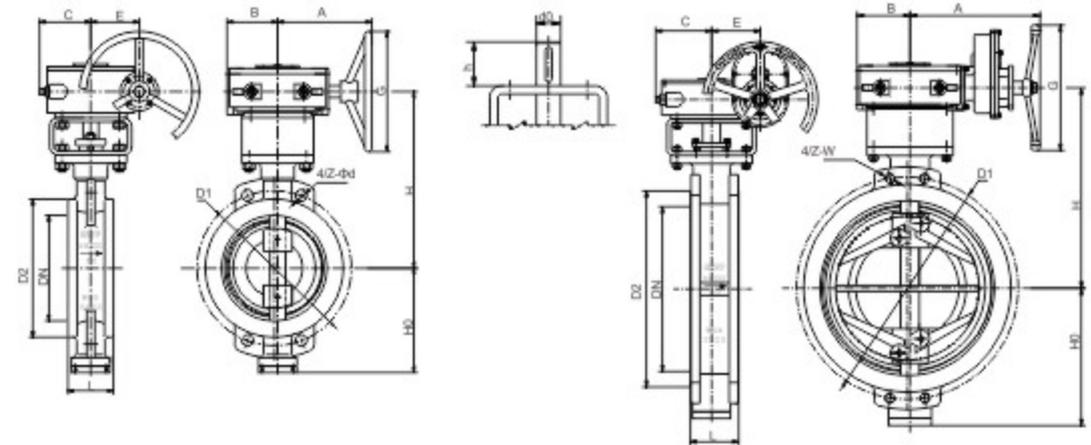
Note: 1. The above dimensions are normal data, and the dimensions of butt-welded end are made according to EN 12627, but it also can be made according to different requirements.
 2. For restricted by length, for inquired specifications not listed, please contact us.
 3. The operation can be Worm gear , pneumatic actuator, electric actuator and hydraulic actuator, ect.



Connection Dimensions D363H-40C DN80~DN900 D363H-300C 3"~36"

| DN | NPS | L | Dimensions of But-welded | | Overall Dimensions | | | | | The Dimensions of Top Flange | | | Weight (Kg) |
|-----|-----|-----|--------------------------|-----|--------------------|------|-----|-----|-----|------------------------------|-----|-----|-------------|
| | | | Dn | D1 | H0 | H | A | B | G | ISO5211 | d0 | h | |
| 80 | 3" | 180 | 78 | 91 | 85 | 225 | 50 | 144 | 180 | F07 | 18 | 40 | 21 |
| 100 | 4" | 190 | 102 | 117 | 100 | 245 | 50 | 144 | 180 | F07 | 18 | 40 | 24 |
| 125 | 5" | 200 | 128 | 144 | 170 | 290 | 63 | 200 | 300 | F10 | 22 | 45 | 40 |
| 150 | 6" | 210 | 154 | 172 | 180 | 310 | 80 | 230 | 350 | F12 | 30 | 60 | 59 |
| 200 | 8" | 230 | 203 | 223 | 205 | 360 | 80 | 230 | 350 | F12 | 35 | 70 | 68 |
| 250 | 10" | 250 | 255 | 278 | 235 | 395 | 125 | 260 | 400 | F14 | 40 | 80 | 111 |
| 300 | 12" | 270 | 305 | 329 | 265 | 425 | 125 | 260 | 400 | F14 | 45 | 90 | 153 |
| 350 | 14" | 290 | 337 | 362 | 305 | 475 | 125 | 260 | 400 | F16 | 50 | 100 | 243 |
| 400 | 16" | 310 | 387 | 413 | 340 | 620 | 160 | 290 | 500 | F25 | 60 | 120 | 303 |
| 450 | 18" | 330 | 438 | 464 | 390 | 645 | 200 | 418 | 600 | F25 | 70 | 130 | 340 |
| 500 | 20" | 350 | 489 | 516 | 415 | 670 | 200 | 418 | 600 | F25 | 70 | 130 | 412 |
| 600 | 24" | 390 | 591 | 619 | 500 | 740 | 263 | 510 | 700 | F30 | 90 | 160 | 607 |
| 700 | 28" | 430 | 686 | 721 | 580 | 900 | 263 | 510 | 700 | F30 | 110 | 170 | 1013 |
| 800 | 32" | 470 | 787 | 825 | 665 | 975 | 333 | 550 | 800 | F35 | 130 | 200 | 1370 |
| 900 | 36" | 510 | 889 | 927 | 690 | 1010 | 333 | 550 | 800 | F35 | 140 | 200 | 1674 |

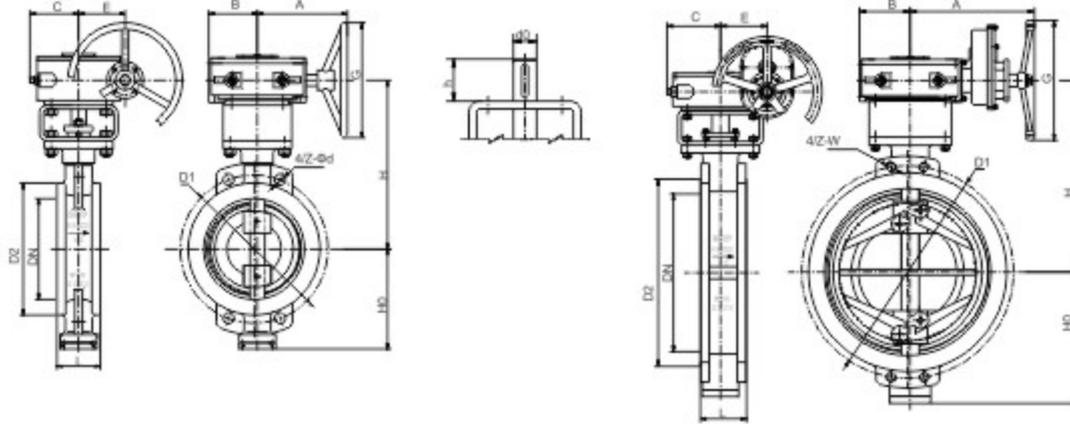
Note: 1. The above dimensions are normal data, and the dimensions of butt-welded end are made according to EN 12627, but it also can be made according to different requirements.
 2. For restricted by length, for inquired specifications not listed, please contact us.
 3. The operation can be Worm gear , pneumatic actuator, electric actuator and hydraulic actuator, ect.



Connection Dimensions D373H-10C DN80~DN1400

| DN | L | Flange Dimensions | | | Overall Dimensions | | | | | | The Dimensions of Top Flange | | | Weight (Kg) | |
|------|-----|-------------------|------|-------------|--------------------|------|-----|-----|-----|-----|------------------------------|---------|-----|-------------|------|
| | | D1 | D2 | Z-Φd(W) | H0 | H | A | B | C | E | G | ISO5211 | d0 | | h |
| 80 | 64 | 160 | 138 | 8-Φ18(M16) | 105 | 215 | 144 | 56 | 56 | 50 | 180 | F07 | 16 | 35 | 15 |
| 100 | 64 | 180 | 158 | 8-Φ18(M16) | 117 | 225 | 144 | 56 | 56 | 50 | 180 | F07 | 18 | 40 | 17 |
| 125 | 70 | 210 | 188 | 8-Φ18(M16) | 135 | 290 | 200 | 75 | 96 | 63 | 300 | F10 | 22 | 45 | 24.5 |
| 150 | 76 | 240 | 212 | 8-Φ22(M20) | 165 | 315 | 200 | 75 | 96 | 63 | 300 | F10 | 25 | 50 | 30 |
| 200 | 89 | 295 | 268 | 8-Φ22(M20) | 200 | 360 | 230 | 90 | 120 | 80 | 350 | F12 | 30 | 60 | 45 |
| 250 | 114 | 350 | 320 | 12-Φ22(M20) | 235 | 395 | 230 | 90 | 120 | 80 | 350 | F12 | 35 | 70 | 63 |
| 300 | 114 | 400 | 370 | 12-Φ22(M20) | 265 | 425 | 260 | 152 | 165 | 125 | 400 | F14 | 40 | 80 | 82 |
| 350 | 127 | 460 | 430 | 16-M20 | 300 | 480 | 260 | 152 | 165 | 125 | 400 | F14 | 45 | 90 | 140 |
| 400 | 140 | 515 | 482 | 16-M24 | 330 | 505 | 260 | 152 | 165 | 125 | 400 | F16 | 50 | 100 | 170 |
| 450 | 152 | 565 | 532 | 20-M24 | 360 | 540 | 260 | 152 | 165 | 125 | 400 | F16 | 50 | 100 | 196 |
| 500 | 152 | 620 | 585 | 20-M24 | 400 | 575 | 290 | 180 | 198 | 160 | 500 | F25 | 55 | 110 | 280 |
| 600 | 154 | 725 | 685 | 20-M27 | 454 | 685 | 290 | 180 | 198 | 160 | 500 | F25 | 60 | 120 | 362 |
| 700 | 165 | 840 | 800 | 24-M27 | 545 | 755 | 418 | 200 | 215 | 200 | 600 | F25 | 70 | 130 | 430 |
| 800 | 190 | 950 | 905 | 24-M30 | 575 | 825 | 418 | 200 | 215 | 200 | 600 | F30 | 80 | 130 | 535 |
| 900 | 203 | 1050 | 1005 | 28-M30 | 655 | 960 | 510 | 235 | 270 | 263 | 700 | F30 | 90 | 160 | 708 |
| 1000 | 216 | 1160 | 1110 | 28-M33 | 725 | 1015 | 510 | 235 | 270 | 263 | 700 | F30 | 100 | 170 | 1090 |
| 1200 | 254 | 1380 | 1330 | 32-M36 | 860 | 1150 | 550 | 275 | 335 | 333 | 800 | F35 | 120 | 190 | 1455 |
| 1400 | 279 | 1590 | 1530 | 36-M39 | 995 | 1345 | 550 | 275 | 335 | 333 | 800 | F35 | 140 | 200 | 1750 |

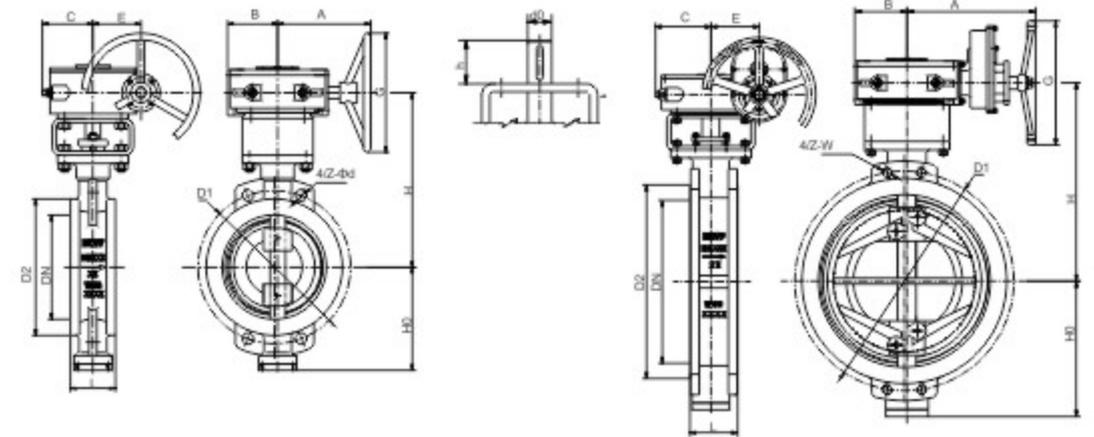
Note: 1. The above dimensions are normal data, and the flange dimensions are made according to EN1092-1, but it also can be made according to different requirements.
 2. For restricted by length, for inquired specifications not listed, please contact us.
 3. The operation can be Worm gear , pneumatic actuator, electric actuator and hydraulic actuator, ect.



Connection Dimensions D373H-16C DN80~DN1400

| DN | L | Flange Dimensions | | | Overall Dimensions | | | | | | | The Dimensions of Top Flange | | | Weight (Kg) |
|------|-----|-------------------|------|---------|--------------------|------|-----|-----|-----|-----|-----|------------------------------|-----|-----|-------------|
| | | D1 | D2 | Z-Φd(W) | H0 | H | A | B | C | E | G | ISO5211 | d0 | h | |
| 80 | 64 | 160 | 138 | 8-Φ18 | 105 | 215 | 144 | 56 | 56 | 50 | 180 | F07 | 16 | 35 | 15 |
| 100 | 64 | 180 | 158 | 8-Φ18 | 117 | 225 | 144 | 56 | 56 | 50 | 180 | F07 | 18 | 40 | 17 |
| 125 | 70 | 210 | 188 | 8-Φ18 | 135 | 290 | 200 | 75 | 96 | 63 | 300 | F10 | 22 | 45 | 24.5 |
| 150 | 76 | 240 | 212 | 8-Φ22 | 165 | 315 | 200 | 75 | 96 | 63 | 300 | F10 | 25 | 50 | 30 |
| 200 | 89 | 295 | 268 | 12-Φ22 | 200 | 360 | 230 | 90 | 120 | 80 | 350 | F12 | 30 | 60 | 45 |
| 250 | 114 | 355 | 320 | 12-Φ26 | 235 | 395 | 230 | 90 | 120 | 80 | 350 | F12 | 35 | 70 | 63 |
| 300 | 114 | 410 | 378 | 12-Φ26 | 265 | 425 | 260 | 152 | 165 | 125 | 400 | F14 | 40 | 80 | 82 |
| 350 | 127 | 470 | 438 | 16-M24 | 300 | 480 | 260 | 152 | 165 | 125 | 400 | F14 | 45 | 90 | 140 |
| 400 | 140 | 525 | 490 | 16-M27 | 330 | 505 | 260 | 152 | 165 | 125 | 400 | F16 | 50 | 100 | 170 |
| 450 | 152 | 585 | 550 | 20-M27 | 360 | 540 | 260 | 152 | 165 | 125 | 400 | F16 | 50 | 100 | 196 |
| 500 | 152 | 650 | 610 | 20-M30 | 400 | 575 | 290 | 180 | 198 | 160 | 500 | F25 | 55 | 110 | 280 |
| 600 | 154 | 770 | 725 | 20-M33 | 454 | 685 | 418 | 200 | 215 | 200 | 600 | F25 | 70 | 130 | 362 |
| 700 | 165 | 840 | 795 | 24-M33 | 545 | 755 | 418 | 200 | 215 | 200 | 600 | F30 | 80 | 130 | 430 |
| 800 | 190 | 950 | 900 | 24-M36 | 575 | 825 | 510 | 235 | 270 | 263 | 700 | F30 | 90 | 160 | 535 |
| 900 | 203 | 1050 | 1000 | 28-M36 | 655 | 960 | 510 | 235 | 270 | 263 | 700 | F30 | 100 | 170 | 708 |
| 1000 | 216 | 1170 | 1115 | 28-M39 | 725 | 1015 | 510 | 235 | 270 | 263 | 700 | F35 | 110 | 170 | 1090 |
| 1200 | 254 | 1390 | 1330 | 32-M45 | 860 | 1150 | 550 | 275 | 335 | 333 | 800 | F35 | 130 | 200 | 1455 |
| 1400 | 279 | 1590 | 1530 | 36-M45 | 995 | 1345 | 550 | 275 | 335 | 333 | 800 | F40 | 150 | 200 | 1750 |

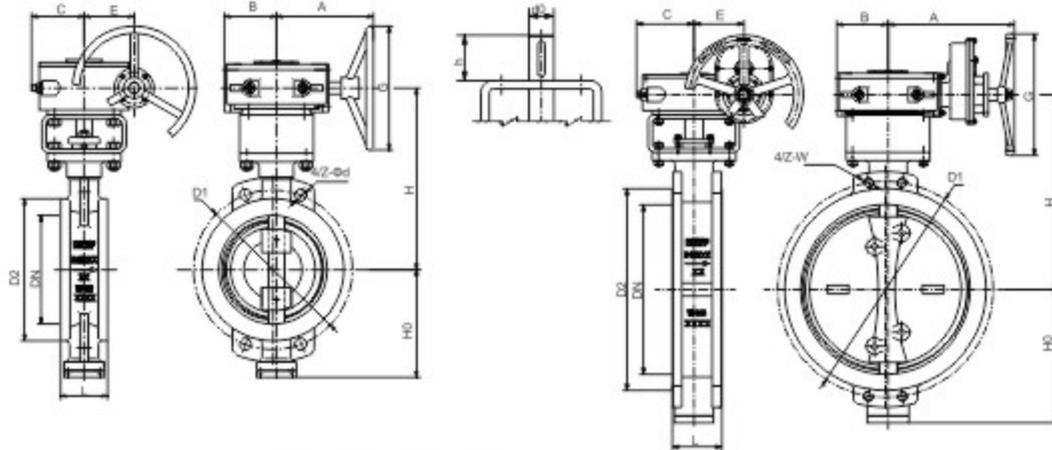
Note: 1. The above dimensions are normal data, and the flange dimensions are made according to EN1092-1, but it also can be made according to different requirements.
2. For restricted by length, for inquired specifications not listed, please contact us.
3. The operation can be Worm gear , pneumatic actuator, electric actuator and hydraulic actuator, ect.



Connection Dimensions D373H-25C DN80~DN1400

| DN | L | Flange Dimensions | | | Overall Dimensions | | | | | | | The Dimensions of Top Flange | | | Weight (Kg) |
|------|-----|-------------------|------|---------|--------------------|------|-----|-----|-----|-----|-----|------------------------------|-----|-----|-------------|
| | | D1 | D2 | Z-Φd(W) | H0 | H | A | B | C | E | G | ISO5211 | d0 | h | |
| 80 | 64 | 160 | 138 | 8-Φ18 | 105 | 215 | 144 | 56 | 56 | 50 | 180 | F07 | 16 | 35 | 16 |
| 100 | 64 | 190 | 162 | 8-Φ22 | 117 | 225 | 144 | 56 | 56 | 50 | 180 | F07 | 18 | 40 | 18 |
| 125 | 70 | 220 | 188 | 8-Φ26 | 135 | 290 | 200 | 75 | 96 | 63 | 300 | F10 | 22 | 45 | 26 |
| 150 | 76 | 250 | 218 | 8-Φ26 | 165 | 315 | 200 | 75 | 96 | 63 | 300 | F10 | 25 | 50 | 32 |
| 200 | 89 | 310 | 278 | 12-Φ26 | 200 | 360 | 230 | 90 | 120 | 80 | 350 | F12 | 30 | 60 | 48 |
| 250 | 114 | 370 | 335 | 12-Φ30 | 235 | 395 | 230 | 90 | 120 | 80 | 350 | F12 | 35 | 70 | 68 |
| 300 | 114 | 430 | 395 | 16-M27 | 265 | 460 | 260 | 152 | 165 | 125 | 400 | F14 | 40 | 80 | 114 |
| 350 | 127 | 490 | 450 | 16-M30 | 300 | 475 | 260 | 152 | 165 | 125 | 400 | F14 | 45 | 90 | 150 |
| 400 | 140 | 550 | 505 | 16-M33 | 330 | 520 | 260 | 152 | 165 | 125 | 400 | F16 | 50 | 100 | 228 |
| 450 | 152 | 600 | 555 | 20-M33 | 360 | 550 | 290 | 180 | 198 | 160 | 500 | F25 | 55 | 110 | 273 |
| 500 | 152 | 660 | 615 | 20-M33 | 400 | 625 | 290 | 180 | 198 | 160 | 500 | F25 | 60 | 120 | 315 |
| 600 | 154 | 770 | 720 | 20-M36 | 475 | 685 | 418 | 200 | 215 | 200 | 600 | F25 | 70 | 130 | 408 |
| 700 | 165 | 875 | 820 | 24-M39 | 545 | 790 | 510 | 235 | 270 | 263 | 700 | F30 | 90 | 160 | 461 |
| 800 | 190 | 990 | 930 | 24-M45 | 630 | 890 | 510 | 235 | 270 | 263 | 700 | F30 | 100 | 170 | 726 |
| 900 | 203 | 1090 | 1030 | 28-M45 | 640 | 960 | 510 | 235 | 270 | 263 | 700 | F35 | 110 | 170 | 752 |
| 1000 | 216 | 1210 | 1140 | 28-M52 | 715 | 1055 | 550 | 275 | 335 | 333 | 800 | F35 | 120 | 190 | 1270 |
| 1200 | 254 | 1420 | 1350 | 32-M52 | 840 | 1185 | 550 | 275 | 335 | 333 | 800 | F35 | 140 | 200 | 1564 |
| 1400 | 279 | 1640 | 1560 | 36-M56 | 995 | 1345 | 590 | 320 | 360 | 374 | 900 | F40 | 160 | 220 | 2053 |

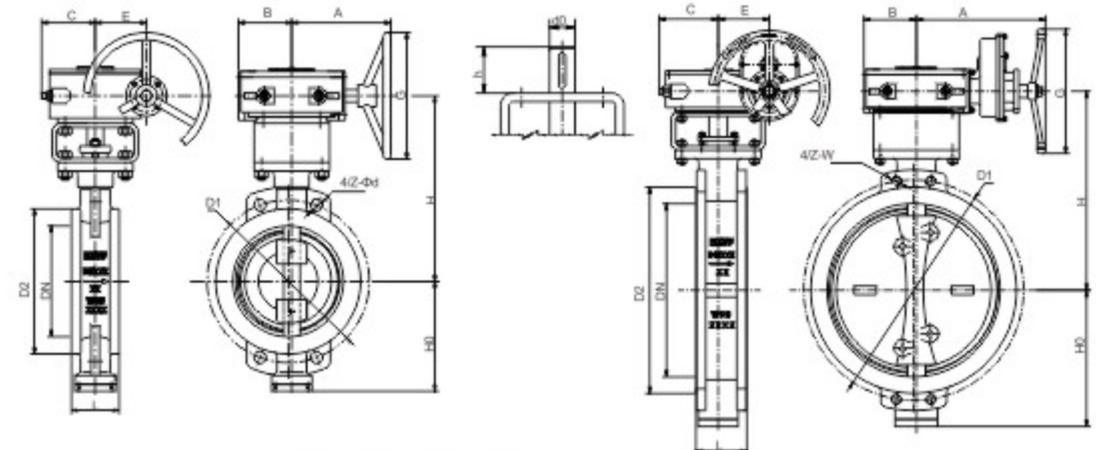
Note: 1. The above dimensions are normal data, and the flange dimensions are made according to EN1092-1, but it also can be made according to different requirements.
2. For restricted by length, for inquired specifications not listed, please contact us.
3. The operation can be Worm gear , pneumatic actuator, electric actuator and hydraulic actuator, ect.



Connection Dimensions D373H-40C DN80~DN800

| DN | L | Flange Dimensions | | | Overall Dimensions | | | | | | | The Dimensions of Top Flange | | | Weight (Kg) |
|-----|-----|-------------------|-----|---------|--------------------|-----|-----|-----|-----|-----|-----|------------------------------|-----|-----|-------------|
| | | D1 | D2 | Z-Φd(W) | H0 | H | A | B | C | E | G | ISO5211 | d0 | h | |
| 80 | 64 | 160 | 138 | 8-Φ18 | 105 | 230 | 144 | 56 | 56 | 50 | 180 | F07 | 18 | 40 | 17 |
| 100 | 64 | 190 | 162 | 8-Φ22 | 117 | 250 | 144 | 56 | 56 | 50 | 180 | F07 | 18 | 40 | 20 |
| 125 | 70 | 220 | 188 | 8-Φ26 | 135 | 295 | 200 | 75 | 96 | 63 | 300 | F10 | 22 | 45 | 29 |
| 150 | 76 | 250 | 218 | 8-Φ26 | 215 | 340 | 230 | 90 | 120 | 80 | 350 | F12 | 30 | 60 | 44 |
| 200 | 89 | 320 | 285 | 12- M27 | 220 | 390 | 230 | 90 | 120 | 80 | 350 | F12 | 35 | 70 | 54 |
| 250 | 114 | 385 | 345 | 12- M30 | 265 | 485 | 260 | 152 | 165 | 125 | 400 | F14 | 40 | 80 | 103 |
| 300 | 114 | 450 | 310 | 16- M30 | 290 | 490 | 260 | 152 | 165 | 125 | 400 | F14 | 45 | 90 | 128 |
| 350 | 127 | 510 | 465 | 16- M33 | 310 | 540 | 260 | 152 | 165 | 125 | 400 | F16 | 50 | 100 | 233 |
| 400 | 140 | 585 | 535 | 16- M36 | 340 | 620 | 290 | 180 | 198 | 160 | 500 | F25 | 60 | 120 | 272 |
| 450 | 152 | 610 | 560 | 20- M36 | 390 | 645 | 418 | 200 | 215 | 200 | 600 | F25 | 70 | 130 | 307 |
| 500 | 152 | 670 | 615 | 20- M39 | 415 | 670 | 418 | 200 | 215 | 200 | 600 | F25 | 70 | 130 | 378 |
| 600 | 178 | 795 | 735 | 20- M45 | 500 | 740 | 510 | 235 | 270 | 263 | 700 | F30 | 90 | 160 | 465 |
| 700 | 229 | 900 | 840 | 24- M45 | 580 | 900 | 510 | 235 | 270 | 263 | 700 | F30 | 110 | 170 | 679 |
| 800 | 241 | 1030 | 960 | 24- M52 | 665 | 975 | 550 | 275 | 335 | 333 | 800 | F35 | 130 | 200 | 817 |

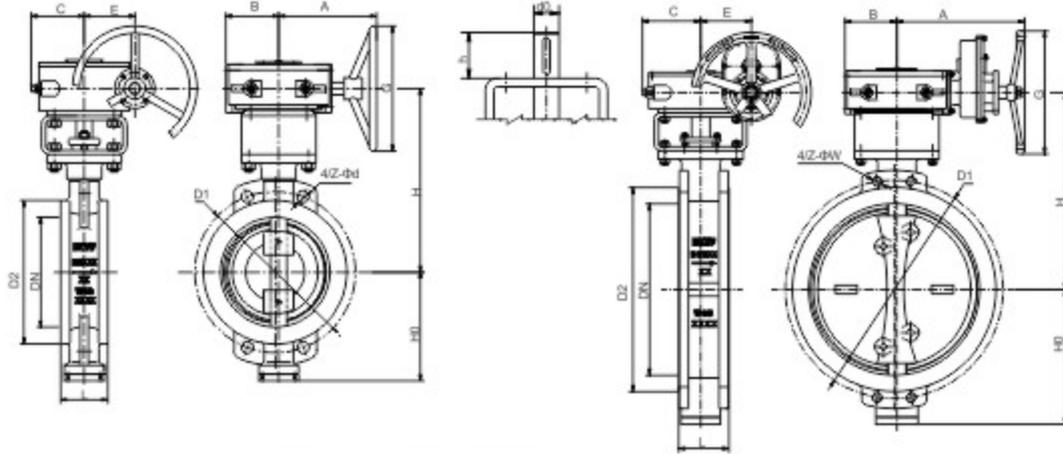
Note: 1. The above dimensions are normal data, and the flange dimensions are made according to EN1092-1, but it also can be made according to different requirements.
2. For restricted by length, for inquired specifications not listed, please contact us.
3. The operation can be Worm gear , pneumatic actuator, electric actuator and hydraulic actuator, ect.



Connection Dimensions D373H-63C DN80~DN600

| DN | L | Flange Dimensions | | | Overall Dimensions | | | | | | | The Dimensions of Top Flange | | | Weight (Kg) |
|-----|-----|-------------------|-----|---------|--------------------|-----|-----|-----|-----|-----|-----|------------------------------|----|-----|-------------|
| | | D1 | D2 | Z-Φd(W) | H0 | H | A | B | C | E | G | ISO5211 | d0 | h | |
| 80 | 64 | 170 | 138 | 8-Φ22 | 120 | 270 | 144 | 56 | 56 | 50 | 180 | F07 | 18 | 40 | 20 |
| 100 | 64 | 200 | 162 | 8-Φ26 | 135 | 285 | 200 | 75 | 96 | 63 | 300 | F10 | 22 | 45 | 23 |
| 125 | 70 | 240 | 188 | 8-Φ30 | 160 | 305 | 200 | 75 | 96 | 63 | 300 | F10 | 25 | 50 | 34 |
| 150 | 78 | 280 | 218 | 8-Φ33 | 215 | 340 | 230 | 90 | 120 | 80 | 350 | F12 | 30 | 60 | 49 |
| 200 | 102 | 345 | 285 | 12-M33 | 220 | 410 | 230 | 90 | 120 | 80 | 350 | F12 | 35 | 70 | 62 |
| 250 | 117 | 400 | 345 | 12-M33 | 265 | 505 | 260 | 152 | 165 | 125 | 400 | F14 | 45 | 90 | 115 |
| 300 | 140 | 460 | 410 | 16-M33 | 300 | 525 | 290 | 180 | 198 | 160 | 500 | F25 | 55 | 110 | 207 |
| 350 | 155 | 525 | 465 | 16-M36 | 310 | 540 | 290 | 180 | 198 | 160 | 500 | F25 | 60 | 120 | 259 |
| 400 | 178 | 585 | 535 | 16-M39 | 335 | 650 | 418 | 200 | 215 | 200 | 600 | F25 | 70 | 130 | 326 |
| 500 | 216 | 705 | 615 | 20-M45 | 415 | 730 | 510 | 235 | 270 | 263 | 700 | F30 | 90 | 160 | 429 |
| 600 | 232 | 820 | 735 | 20-M52 | 490 | 770 | 510 | 235 | 270 | 263 | 700 | F30 | 90 | 160 | 684 |

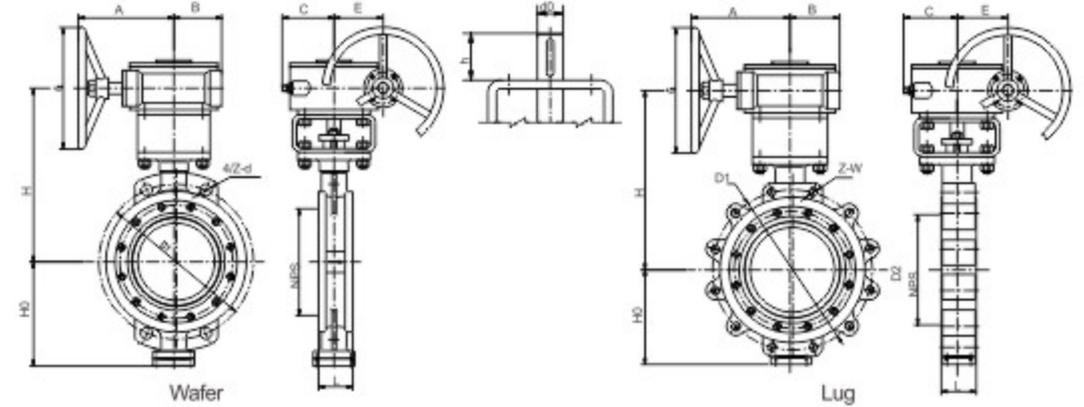
Note: 1. The above dimensions are normal data, and the flange dimensions are made according to EN1092-1, but it also can be made according to different requirements.
2. For restricted by length, for inquired specifications not listed, please contact us.
3. The operation can be Worm gear , pneumatic actuator, electric actuator and hydraulic actuator, ect.



Connection Dimensions D373H-100C DN80-DN600

| DN | L | Flange Dimensions | | | Overall Dimensions | | | | | | | The Dimensions of Top Flange | | | Weight (Kg) |
|-----|-----|-------------------|-----|---------|--------------------|-----|-----|-----|-----|-----|-----|------------------------------|-----|-----|-------------|
| | | D1 | D2 | Z-Φd(W) | H0 | H | A | B | C | E | G | ISO5211 | d0 | h | |
| 80 | 64 | 180 | 138 | 8-Φ26 | 120 | 270 | 144 | 56 | 56 | 50 | 180 | F07 | 18 | 40 | 23 |
| 100 | 64 | 210 | 162 | 8-Φ30 | 135 | 285 | 200 | 75 | 96 | 63 | 300 | F10 | 25 | 50 | 26 |
| 125 | 70 | 250 | 188 | 8-Φ33 | 160 | 325 | 230 | 90 | 120 | 80 | 350 | F12 | 30 | 60 | 38 |
| 150 | 78 | 290 | 218 | 12-M30 | 215 | 410 | 230 | 90 | 120 | 80 | 350 | F12 | 35 | 70 | 56 |
| 200 | 102 | 360 | 285 | 12-M33 | 220 | 425 | 260 | 152 | 165 | 125 | 400 | F14 | 45 | 90 | 96 |
| 250 | 117 | 430 | 345 | 12-M36 | 265 | 505 | 260 | 152 | 165 | 125 | 400 | F16 | 50 | 100 | 130 |
| 300 | 140 | 500 | 410 | 16-M39 | 295 | 545 | 290 | 180 | 198 | 160 | 500 | F25 | 60 | 120 | 227 |
| 350 | 155 | 560 | 465 | 16-M45 | 335 | 570 | 418 | 200 | 215 | 200 | 600 | F25 | 70 | 130 | 290 |
| 400 | 178 | 620 | 535 | 16-M45 | 390 | 620 | 418 | 200 | 215 | 200 | 600 | F30 | 80 | 130 | 367 |
| 500 | 216 | 760 | 615 | 20-M52 | 450 | 760 | 510 | 235 | 270 | 263 | 700 | F30 | 100 | 160 | 476 |
| 600 | 232 | 875 | 735 | 20-M56 | 550 | 850 | 550 | 275 | 335 | 333 | 800 | F35 | 120 | 190 | 659 |

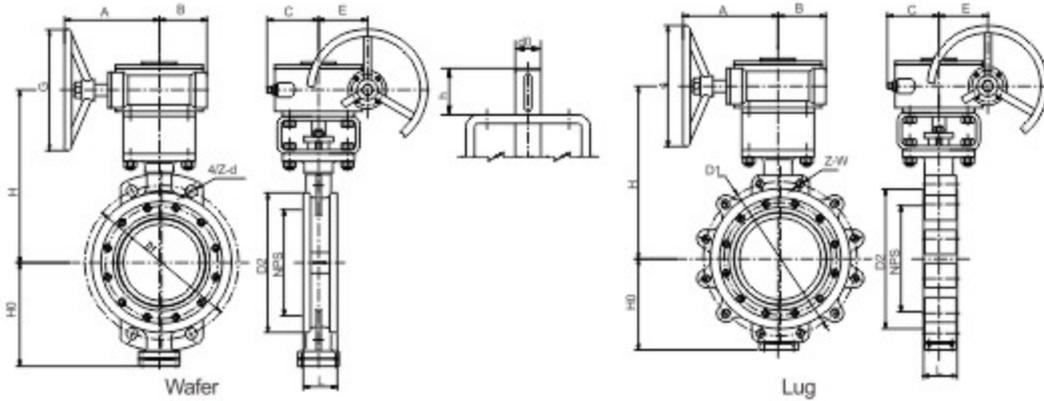
Note: 1. The above dimensions are normal data, and the flange dimensions are made according to EN1092-1, but it also can be made according to different requirements.
 2. For restricted by length, for inquired specifications not listed, please contact us.
 3. The operation can be Worm gear , pneumatic actuator, electric actuator and hydraulic actuator, ect.



Connection Dimensions D37A3H-150C 2"-56" D33A3H-150C 2"-56"

| NPS | L | Flange Dimensions | | | Overall Dimensions | | | | | | | The Dimensions of Top Flange | | | Weight (Kg) | |
|------|-----|-------------------|--------------|--------------|--------------------|------|-----|-----|-----|-----|-----|------------------------------|-----|-----|-------------|------|
| | | D1 | Z-Φd | Z-W | H0 | H | A | B | C | E | G | ISO5211 | d0 | h | Wafer | Lug |
| 2" | 43 | 120.7 | 4-Φ19 | 4-5/8-11UNC | 65 | 195 | 144 | 56 | 56 | 50 | 180 | F07 | 16 | 35 | 5 | 6 |
| 2.5" | 46 | 139.7 | 4-Φ19 | 4-5/8-11UNC | 75 | 210 | 144 | 56 | 56 | 50 | 180 | F07 | 16 | 35 | 8 | 9 |
| 3" | 48 | 152.4 | 4-Φ19 | 4-5/8-11UNC | 105 | 215 | 144 | 56 | 56 | 50 | 180 | F07 | 16 | 35 | 10 | 11 |
| 4" | 54 | 190.5 | 8-Φ19 | 8-5/8-11UNC | 120 | 235 | 144 | 56 | 56 | 50 | 180 | F07 | 18 | 40 | 13 | 15 |
| 5" | 57 | 216 | 8-Φ22 | 8-3/4-10UNC | 130 | 285 | 200 | 75 | 96 | 63 | 300 | F10 | 22 | 45 | 23 | 25 |
| 6" | 57 | 241.3 | 8-Φ22 | 8-3/4-10UNC | 170 | 300 | 200 | 75 | 96 | 63 | 300 | F10 | 25 | 50 | 25 | 30 |
| 8" | 64 | 298.5 | 8-Φ22 | 8-3/4-10UNC | 200 | 340 | 230 | 90 | 120 | 80 | 350 | F12 | 30 | 60 | 33 | 38 |
| 10" | 71 | 362 | 12-Φ25 | 12-7/8-9UNC | 240 | 380 | 230 | 90 | 120 | 80 | 350 | F12 | 35 | 70 | 50 | 66 |
| 12" | 81 | 431.8 | 12-Φ25 | 12-7/8-9UNC | 285 | 425 | 260 | 152 | 165 | 125 | 400 | F14 | 40 | 80 | 67 | 90 |
| 14" | 92 | 476.3 | 12-1-8UNC | 12-1-8UNC | 320 | 505 | 260 | 152 | 165 | 125 | 400 | F14 | 45 | 90 | 130 | 140 |
| 16" | 102 | 539.8 | 16-1-8UNC | 16-1-8UNC | 360 | 510 | 260 | 152 | 165 | 125 | 400 | F16 | 50 | 100 | 140 | 170 |
| 18" | 114 | 578 | 16-1 1/8-8UN | 16-1 1/8-8UN | 385 | 565 | 260 | 152 | 165 | 125 | 400 | F16 | 50 | 100 | 188 | 225 |
| 20" | 127 | 635 | 20-1 1/8-8UN | 20-1 1/8-8UN | 410 | 590 | 290 | 180 | 198 | 160 | 500 | F25 | 55 | 110 | 270 | 287 |
| 24" | 154 | 749.3 | 20-1 1/4-8UN | 20-1 1/4-8UN | 454 | 685 | 418 | 200 | 215 | 200 | 600 | F25 | 70 | 130 | 310 | 390 |
| 28" | 165 | 863.6 | 28-1 1/4-8UN | 28-1 1/4-8UN | 545 | 755 | 418 | 200 | 215 | 200 | 600 | F30 | 80 | 130 | 430 | 508 |
| 32" | 190 | 977.6 | 28-1 1/2-8UN | 28-1 1/2-8UN | 575 | 825 | 510 | 235 | 270 | 263 | 700 | F30 | 90 | 160 | 535 | 632 |
| 36" | 203 | 1085.8 | 32-1 1/2-8UN | 32-1 1/2-8UN | 655 | 960 | 510 | 235 | 270 | 263 | 700 | F30 | 100 | 170 | 708 | 836 |
| 40" | 216 | 1200.2 | 36-1 1/2-8UN | 36-1 1/2-8UN | 725 | 1015 | 510 | 235 | 270 | 263 | 700 | F35 | 110 | 170 | 1090 | 1286 |
| 48" | 254 | 1422.4 | 44-1 1/2-8UN | 44-1 1/2-8UN | 860 | 1150 | 550 | 275 | 335 | 333 | 800 | F35 | 130 | 200 | 1455 | 1717 |
| 56" | 279 | 1651 | 48-1 3/4-8UN | 48-1 3/4-8UN | 995 | 1345 | 550 | 275 | 335 | 333 | 800 | F40 | 150 | 200 | 1750 | 2065 |

Note: 1. The above dimensions are according to API609, and the flanges dimensions are made according to ASME standard, but it also can be made according to different requirements.
 2. For restricted by length, for inquired specifications not listed, please contact us.
 3. The operation can be Worm gear , pneumatic actuator, electric actuator and hydraulic actuator, ect.



Connection Dimensions D37A3H-300C 2"~48" D33A3H-300C 2"~48"

| NPS | L | Flange Dimensions | | | Overall Dimensions | | | | | | | The Dimensions of Top Flange | | | Weight (Kg) | |
|------|-----|-------------------|--------------|--------------|--------------------|------|-----|-----|-----|-----|-----|------------------------------|-----|-----|-------------|------|
| | | D1 | Z-Φd | Z-W | H0 | H | A | B | C | E | G | ISO5211 | d0 | h | Wafer | Lug |
| 2" | 43 | 127 | 8-Φ19 | 8-5/8-11UNC | 65 | 195 | 144 | 56 | 56 | 50 | 180 | F07 | 16 | 35 | 9 | 10 |
| 2.5" | 46 | 149.2 | 8-Φ22 | 8-3/4-10UNC | 75 | 210 | 144 | 56 | 56 | 50 | 180 | F07 | 16 | 35 | 11 | 15 |
| 3" | 48 | 168.3 | 8-Φ22 | 8-3/4-10UNC | 105 | 215 | 144 | 56 | 56 | 50 | 180 | F07 | 18 | 40 | 14 | 18 |
| 4" | 54 | 200 | 8-Φ22 | 8-3/4-10UNC | 120 | 235 | 144 | 56 | 56 | 50 | 180 | F07 | 18 | 40 | 17 | 22 |
| 5" | 59 | 235 | 8-Φ22 | 8-3/4-10UNC | 130 | 285 | 200 | 75 | 96 | 63 | 300 | F10 | 22 | 45 | 28 | 38 |
| 6" | 59 | 270 | 12-Φ22 | 12-3/4-10UNC | 190 | 315 | 230 | 90 | 120 | 80 | 350 | F12 | 30 | 60 | 30 | 42 |
| 8" | 73 | 330.2 | 12-Φ25 | 12-7/8-9UNC | 220 | 370 | 230 | 90 | 120 | 80 | 350 | F12 | 35 | 70 | 44 | 67 |
| 10" | 83 | 387.4 | 16-1-8UNC | 16-1-8UNC | 270 | 415 | 260 | 152 | 165 | 125 | 400 | F14 | 40 | 80 | 70 | 93 |
| 12" | 92 | 450.8 | 16-1 1/8-8UN | 16-1 1/8-UN | 310 | 470 | 260 | 152 | 165 | 125 | 400 | F14 | 45 | 90 | 115 | 160 |
| 14" | 117 | 514.4 | 20-1 1/8-8UN | 20-1 1/8-8UN | 330 | 525 | 260 | 152 | 165 | 125 | 400 | F16 | 50 | 100 | 208 | 285 |
| 16" | 133 | 571.5 | 20-1 1/4-8UN | 20-1 1/4-8UN | 385 | 585 | 290 | 180 | 198 | 160 | 500 | F25 | 60 | 120 | 305 | 272 |
| 18" | 149 | 628.6 | 24-1 1/4-8UN | 24-1 1/4-8UN | 410 | 620 | 418 | 200 | 215 | 200 | 600 | F25 | 70 | 130 | 341 | 360 |
| 20" | 159 | 685.8 | 24-1 1/4-8UN | 24-1 1/4-8UN | 425 | 692 | 418 | 200 | 215 | 200 | 600 | F25 | 70 | 130 | 432 | 460 |
| 24" | 181 | 812.8 | 24-1 1/2-8UN | 24-1 1/2-8UN | 480 | 815 | 510 | 235 | 270 | 263 | 700 | F30 | 90 | 160 | 465 | 624 |
| 28" | 229 | 939.8 | 28-1 5/8-8UN | 28-1 5/8-8UN | 570 | 860 | 510 | 235 | 270 | 263 | 700 | F30 | 110 | 170 | 679 | 812 |
| 32" | 241 | 1054 | 28-1 7/8-8UN | 28-1 7/8-8UN | 660 | 965 | 550 | 275 | 335 | 333 | 800 | F35 | 130 | 200 | 817 | 1010 |
| 36" | 241 | 1168.4 | 32-2-8UN | 32-2-8UN | 725 | 1025 | 550 | 275 | 335 | 333 | 800 | F35 | 140 | 200 | 1133 | 1337 |
| 40" | 300 | 1155.7 | 32-1 5/8-8UN | 32-1 5/8-8UN | 770 | 1075 | 550 | 275 | 335 | 333 | 800 | F40 | 150 | 200 | 1744 | 2058 |
| 48" | 350 | 1371.6 | 32-1 7/8-8UN | 32-1 7/8-8UN | 920 | 1295 | 590 | 320 | 360 | 374 | 900 | F40 | 170 | 220 | 2328 | 2747 |

Note: 1. The above dimensions are according to API609, and the flanges dimensions are made according to ASME standard, but it also can be made according to different requirements.
2. For restricted by length, for inquired specifications not listed, please contact us.
3. The operation can be Worm gear , pneumatic actuator, electric actuator and hydraulic actuator, ect.

Reference CV Value of Triple Eccentric Butterfly Valve (Body Sealing Ring)

| Valve size | | Angle of Disc Opening (PN16, 150LB) | | | | | | | | |
|------------|------|-------------------------------------|------|-------|-------|-------|-------|-------|-------|--------|
| in | mm | 10° | 20° | 30° | 40° | 50° | 60° | 70° | 80° | 90° |
| 3 | 80 | 3 | 12 | 20 | 29 | 45 | 65 | 91 | 130 | 170 |
| 4 | 100 | 7 | 29 | 47 | 66 | 105 | 151 | 214 | 303 | 400 |
| 6 | 150 | 18 | 78 | 128 | 182 | 289 | 417 | 593 | 840 | 1120 |
| 8 | 200 | 34 | 150 | 247 | 350 | 554 | 801 | 1138 | 1610 | 2150 |
| 10 | 250 | 59 | 258 | 424 | 600 | 951 | 1375 | 1953 | 2765 | 3690 |
| 12 | 300 | 85 | 369 | 605 | 858 | 1358 | 1963 | 2789 | 3947 | 5260 |
| 14 | 350 | 114 | 499 | 819 | 1161 | 1838 | 2657 | 3775 | 5342 | 7120 |
| 16 | 400 | 137 | 599 | 984 | 1394 | 2206 | 3190 | 4532 | 6413 | 8550 |
| 18 | 450 | 184 | 804 | 1321 | 1872 | 2964 | 4286 | 6089 | 8616 | 11490 |
| 20 | 500 | 255 | 1113 | 1828 | 2590 | 4100 | 5928 | 8424 | 11921 | 15900 |
| 24 | 600 | 357 | 1563 | 2568 | 3641 | 5762 | 8331 | 11837 | 16750 | 22330 |
| 28 | 700 | 475 | 2077 | 3413 | 4838 | 7657 | 11070 | 15729 | 22258 | 29680 |
| 30 | 750 | 625 | 2733 | 4491 | 6366 | 10076 | 14567 | 20698 | 29290 | 39050 |
| 32 | 800 | 695 | 3042 | 4998 | 7990 | 11213 | 16211 | 23033 | 32594 | 43460 |
| 36 | 900 | 850 | 3718 | 6108 | 8658 | 13704 | 19812 | 28152 | 39838 | 53120 |
| 40 | 1000 | 1105 | 4831 | 7936 | 11249 | 17805 | 25742 | 36576 | 51759 | 69010 |
| 42 | 1050 | 1416 | 6197 | 10181 | 14430 | 22840 | 33021 | 46920 | 66396 | 88530 |
| 48 | 1200 | 1738 | 7605 | 12495 | 17710 | 28031 | 40526 | 57583 | 81486 | 108650 |

| Valve size | | Angle of Disc Opening (PN16, 150LB) | | | | | | | | |
|------------|------|-------------------------------------|------|-------|-------|-------|-------|-------|-------|-------|
| in | mm | 10° | 20° | 30° | 40° | 50° | 60° | 70° | 80° | 90° |
| 3 | 80 | 6 | 15 | 23 | 33 | 48 | 71 | 106 | 137 | 150 |
| 4 | 100 | 11 | 28 | 42 | 61 | 88 | 129 | 193 | 248 | 280 |
| 6 | 150 | 30 | 75 | 113 | 165 | 240 | 352 | 525 | 675 | 750 |
| 8 | 200 | 50 | 126 | 190 | 278 | 405 | 594 | 884 | 1137 | 1260 |
| 10 | 250 | 80 | 200 | 301 | 441 | 641 | 942 | 1403 | 1804 | 2000 |
| 12 | 300 | 139 | 347 | 521 | 763 | 1110 | 1630 | 2427 | 3121 | 3470 |
| 14 | 350 | 186 | 465 | 697 | 1022 | 1487 | 2184 | 3253 | 4183 | 4650 |
| 16 | 400 | 253 | 632 | 948 | 1390 | 2022 | 2970 | 4422 | 5686 | 6320 |
| 18 | 450 | 346 | 864 | 1297 | 1901 | 2965 | 4061 | 6049 | 7777 | 8640 |
| 20 | 500 | 421 | 1051 | 1577 | 2313 | 3364 | 4941 | 7359 | 9461 | 10510 |
| 24 | 600 | 655 | 1638 | 2457 | 3603 | 5241 | 7698 | 11464 | 14740 | 16380 |
| 26 | 650 | 860 | 2150 | 3225 | 4729 | 6879 | 10104 | 15049 | 19348 | 21500 |
| 28 | 700 | 942 | 2354 | 3531 | 5179 | 7533 | 11064 | 16478 | 21186 | 23540 |
| 30 | 750 | 1167 | 2917 | 4376 | 6418 | 9336 | 13712 | 20422 | 26257 | 29170 |
| 32 | 800 | 1312 | 3280 | 4919 | 7215 | 10495 | 15414 | 22957 | 29516 | 32800 |
| 36 | 900 | 1670 | 4175 | 6262 | 9185 | 13360 | 19622 | 29224 | 37574 | 41750 |
| 38 | 950 | 1835 | 4587 | 6881 | 10092 | 14680 | 21561 | 32112 | 41286 | 45870 |
| 40 | 1000 | 2008 | 5020 | 7530 | 11044 | 16064 | 23594 | 35140 | 45179 | 50200 |
| 42 | 1050 | 2298 | 5744 | 8616 | 12637 | 18382 | 26998 | 40210 | 51698 | 57440 |
| 48 | 1200 | 2978 | 7444 | 11167 | 16378 | 23822 | 34989 | 52111 | 67000 | 74440 |

Reference CV Value of Triple Eccentric Butterfly Valve(Body Sealing Ring)

| Valve size | | Angle of Disc Opening(600LB) | | | | | | | | |
|------------|-----|------------------------------|------|------|------|------|------|-------|-------|-------|
| in | mm | 10° | 20° | 30° | 40° | 50° | 60° | 70° | 80° | 90° |
| 3 | 80 | 6 | 13 | 21 | 29 | 44 | 64 | 95 | 122 | 140 |
| 4 | 100 | 10 | 23 | 34 | 49 | 72 | 106 | 158 | 203 | 230 |
| 6 | 150 | 22 | 54 | 82 | 119 | 173 | 255 | 379 | 487 | 540 |
| 8 | 200 | 39 | 98 | 146 | 215 | 313 | 459 | 682 | 877 | 980 |
| 10 | 250 | 62 | 154 | 230 | 337 | 491 | 721 | 1074 | 1381 | 1530 |
| 12 | 300 | 91 | 227 | 341 | 500 | 728 | 1069 | 1592 | 2047 | 2270 |
| 14 | 350 | 165 | 411 | 618 | 905 | 1318 | 1935 | 2882 | 3705 | 4120 |
| 16 | 400 | 217 | 544 | 817 | 1198 | 1742 | 2559 | 3812 | 4900 | 5440 |
| 18 | 450 | 303 | 756 | 1135 | 1663 | 2418 | 3553 | 5292 | 6804 | 7560 |
| 20 | 500 | 397 | 994 | 1491 | 2186 | 3180 | 4671 | 6956 | 8944 | 9940 |
| 24 | 600 | 606 | 1512 | 2268 | 3327 | 4839 | 7106 | 10584 | 13608 | 15120 |

Reference CV Value of Triple Eccentric Butterfly Valve(Body Sealing Ring)

| Valve size | | Angle of Disc Opening(PN16, 150LB) | | | | | | | | |
|------------|------|------------------------------------|------|-------|-------|-------|-------|-------|-------|-------|
| in | mm | 10° | 20° | 30° | 40° | 50° | 60° | 70° | 80° | 90° |
| 3 | 80 | 5 | 15 | 22 | 33 | 48 | 71 | 106 | 135 | 150 |
| 4 | 100 | 11 | 27 | 41 | 60 | 88 | 129 | 192 | 247 | 280 |
| 5 | 125 | 17 | 58 | 107 | 157 | 229 | 280 | 353 | 370 | 380 |
| 6 | 150 | 30 | 75 | 113 | 165 | 240 | 352 | 525 | 675 | 750 |
| 8 | 200 | 55 | 138 | 208 | 304 | 443 | 651 | 970 | 1248 | 1390 |
| 10 | 250 | 95 | 240 | 361 | 529 | 769 | 1129 | 1682 | 2163 | 2400 |
| 12 | 300 | 151 | 378 | 567 | 832 | 1210 | 1777 | 2646 | 3402 | 3780 |
| 14 | 350 | 223 | 559 | 839 | 1230 | 1789 | 2628 | 3915 | 5034 | 5590 |
| 16 | 400 | 319 | 798 | 1198 | 1757 | 2556 | 3754 | 5591 | 7188 | 8000 |
| 18 | 450 | 384 | 961 | 1442 | 2115 | 3077 | 4519 | 6732 | 8655 | 9620 |
| 20 | 500 | 547 | 1368 | 2052 | 3009 | 4378 | 6430 | 9577 | 12313 | 13780 |
| 24 | 600 | 756 | 1891 | 2836 | 4160 | 6052 | 8889 | 13238 | 17021 | 18910 |
| 28 | 700 | 1078 | 2696 | 4044 | 5931 | 8627 | 12671 | 18870 | 24260 | 26960 |
| 30 | 750 | 1235 | 3088 | 4632 | 6794 | 9882 | 14515 | 21610 | 27790 | 30880 |
| 32 | 800 | 1408 | 3521 | 5281 | 7746 | 11260 | 16540 | 24640 | 31680 | 35210 |
| 36 | 900 | 1730 | 4325 | 6488 | 9516 | 13840 | 20330 | 30280 | 38930 | 43250 |
| 40 | 1000 | 2289 | 5724 | 8586 | 12590 | 18310 | 26903 | 40060 | 51510 | 57240 |
| 42 | 1050 | 2476 | 6207 | 9310 | 13560 | 19860 | 29170 | 43440 | 55860 | 62070 |
| 48 | 1200 | 3259 | 8148 | 12222 | 17920 | 26070 | 38290 | 57040 | 73330 | 81480 |

Reference CV Value of Triple Eccentric Butterfly Valve(Body Sealing Ring)

| Valve size | | Angle of Disc Opening(PN50, 300LB) | | | | | | | | |
|------------|------|------------------------------------|------|-------|-------|-------|-------|-------|-------|-------|
| in | mm | 10° | 20° | 30° | 40° | 50° | 60° | 70° | 80° | 90° |
| 3 | 80 | 6 | 15 | 23 | 33 | 48 | 71 | 106 | 137 | 150 |
| 4 | 100 | 11 | 28 | 42 | 61 | 88 | 129 | 193 | 248 | 280 |
| 5 | 125 | 17 | 59 | 102 | 150 | 230 | 280 | 353 | 371 | 380 |
| 6 | 150 | 30 | 75 | 113 | 165 | 240 | 352 | 525 | 675 | 750 |
| 8 | 200 | 50 | 126 | 190 | 278 | 405 | 594 | 884 | 1137 | 1260 |
| 10 | 250 | 80 | 200 | 301 | 441 | 641 | 942 | 1403 | 1804 | 2000 |
| 12 | 300 | 139 | 347 | 521 | 763 | 1110 | 1630 | 2427 | 3121 | 3470 |
| 14 | 350 | 186 | 465 | 697 | 1022 | 1487 | 2184 | 3253 | 4183 | 4650 |
| 16 | 400 | 253 | 632 | 948 | 1390 | 2022 | 2970 | 4422 | 5686 | 6320 |
| 18 | 450 | 346 | 864 | 1297 | 1901 | 2765 | 4061 | 6049 | 7777 | 8640 |
| 20 | 500 | 421 | 1051 | 1577 | 2313 | 3364 | 4941 | 7359 | 9461 | 10510 |
| 24 | 600 | 655 | 1638 | 2457 | 3603 | 5241 | 7698 | 11464 | 14740 | 16380 |
| 26 | 650 | 860 | 2150 | 3225 | 4729 | 6879 | 10104 | 15049 | 19348 | 21500 |
| 28 | 700 | 942 | 2354 | 3534 | 5179 | 7533 | 11064 | 16478 | 21186 | 23540 |
| 30 | 750 | 1167 | 2917 | 4376 | 6418 | 9336 | 13712 | 20422 | 26257 | 29170 |
| 32 | 800 | 1312 | 3280 | 4919 | 7215 | 10495 | 15414 | 22957 | 29516 | 32800 |
| 36 | 900 | 1670 | 4175 | 6262 | 9185 | 13360 | 19622 | 29224 | 37574 | 41750 |
| 38 | 950 | 1835 | 4587 | 6881 | 10092 | 14680 | 21561 | 32112 | 41286 | 45870 |
| 40 | 1000 | 2008 | 5020 | 7530 | 11044 | 16064 | 23594 | 35140 | 45179 | 50200 |
| 42 | 1050 | 2298 | 5744 | 8616 | 12637 | 18382 | 26998 | 40210 | 51698 | 57440 |
| 48 | 1200 | 2978 | 7444 | 11167 | 16378 | 23822 | 34989 | 52111 | 67000 | 74440 |

| Valve size | | Angle of Disc Opening(PN100, 600LB) | | | | | | | | |
|------------|-----|-------------------------------------|------|------|------|------|------|-------|-------|-------|
| in | mm | 10° | 20° | 30° | 40° | 50° | 60° | 70° | 80° | 90° |
| 3 | 80 | 6 | 14 | 22 | 31 | 46 | 67 | 100 | 128 | 140 |
| 4 | 100 | 10 | 24 | 36 | 52 | 76 | 112 | 166 | 214 | 240 |
| 6 | 150 | 23 | 57 | 86 | 125 | 182 | 268 | 399 | 513 | 570 |
| 8 | 200 | 41 | 103 | 154 | 226 | 329 | 483 | 718 | 923 | 1030 |
| 10 | 250 | 65 | 162 | 242 | 355 | 517 | 759 | 1131 | 1454 | 1620 |
| 12 | 300 | 96 | 239 | 359 | 526 | 766 | 1125 | 1676 | 2155 | 2390 |
| 14 | 350 | 164 | 409 | 614 | 900 | 1310 | 1923 | 2865 | 3683 | 4090 |
| 16 | 400 | 216 | 541 | 812 | 1191 | 1732 | 2544 | 3789 | 4871 | 5410 |
| 18 | 450 | 301 | 751 | 1128 | 1653 | 2404 | 3532 | 5260 | 6763 | 7520 |
| 20 | 500 | 395 | 988 | 1482 | 2173 | 3161 | 4643 | 6915 | 8891 | 9880 |
| 24 | 600 | 602 | 1503 | 2254 | 3307 | 4810 | 7064 | 10521 | 13527 | 15030 |

Summary of Functions

High performance butterfly valve, for the eccentric construction of the disc and the sealing ring, the valve has a compact construction, small volume, light weight, reliable sealing, long service life and other feature, and it has both regulating and shut-off function. This kind of valve is widely used for cutting off the medium such as air, water, sewage, oil, liquid, gas, natural gas and steam or controlling the pressure and flow in metallurgy, chemical industry, electric power, textile, food, medicine, paper and other departments of industrial, municipal engineering, water plant and other pipelines.

This series products are divided into PTFE seat and PTFE + metal seat sealing constructions, both of them are zero leakage in pressure testing. The flow characteristic of this kind of valve is approximate equal percentage.

Products Features and Merits

1. High performance regulating and shut off function, it not only can be used as regulating valve, but also can be used as shut off valve.
2. Excellent isolation function for gas and liquid and control characteristics of flow.
3. Small friction, no binding on the seat during the opening and closing, long service life.
4. The sealing ring is easy to be replaced and adjusted.
5. Small operation torque and reliable torque to shut off.
6. Fire safe type can be designed according to customer's requirement.

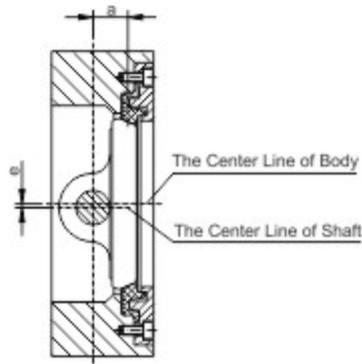
Construction Feature

For the double eccentric construction, during the opening, the disc get away from the seat gradually, the friction between the sealing surface is reduced, so that the service life is prolonged. The seat is lip type, and the material is PTFE, RPTFE or other Ultra-high molecular weight polyethylene, so that regardless of the direction of the fluid, the seat always can return to the original position after deformation to guarantee the seal performance.

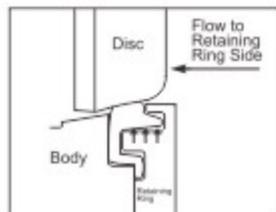
Instruction:

Eccentric 1: e- The eccentric between the center line of shaft and the center line of the body.

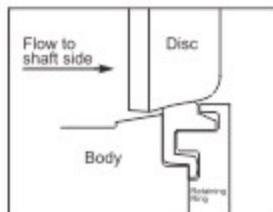
Eccentric 2: a- The eccentric between the center line of shaft and the center of the seat sealing surface.



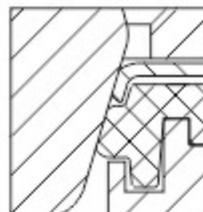
Anti-electrostatic design: As the seat is PTFE or other nonmetallic material, electrostatic will be produced during the opening and closing progress of the disc and seat, the accumulation of electrostatic will result in safety problem, so that limit sleeve is designed to transfer the electrostatic on disc to the body and as the anti-static bolt on the body keep contacting with floor, so that the electrostatic accumulation can be eliminated.



When the retaining ring under pressure, the pressure works on the bottom of lip seat, so that the sealing force between the disc and the seat is increased.

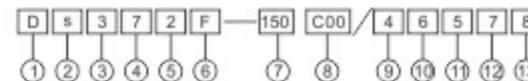


When the shaft under pressure, the disc is pushed to the seat and the seat will be deformed, But as the seat will be pushed to contact the groove surface of the retaining ring, so that it will prevent the seat to be excessive deformation.



The construction of fire-safe PTFE seat Butterfly valves The fire-safe PTFE seat butterfly valves is designed with double seat- Metal seat and PTFE seat. When the PTFE seat is damaged, the metal seat will continue to work for sealing, so that the requirements of fire prevention can be meet.

Model Designations



- ① **Valve Type:** D Butterfly valve
- ② **Sealing direction:** s Bi-directional Uni-directional (No Marking)
- ③ **Operation way:** 3 Worm gear 6 Pneumatic actuator 7 Hydraulic actuator 9 Electric actuator
- ④ **Connection:** 4 Flange 7 Wafer 3 Lug
- ⑤ **Construction:** 1 Concentric 2 Double Eccentric 3 Triple Eccentric
- ⑥ **Seat Material:** F Fluoroplastics X Rubber
- ⑦ **Pressure:** PN 6~100bar ANSI 150LB~600LB
- ⑧ **Body Material:** C00:WCB, C10:LCB, 101:WC6, 102:WC9,P00:CF8
- ⑨ **Disc Material:** 2:CF8, 3:CF8M, 4:WCB, 5:LCB
- ⑩ **Shaft Material:** 2:304, 3:316, 5:17-4PH, 6:410
- ⑪ **Sealing material:** 5:PTFE, M:RPTFE, H:304+PTFE
- ⑫ **Body seat:** 1:304, 2:316, 3:304L, 4:316L, 5:STL, 7:13Cr
- ⑬ **Packing Material:** 1:EPDM, NBR, 4:VITON, 7Flexible Graphite, 8:PTFE

Standard

| Design & Manufacture | Flange Connection | Face to Face Dimension | Test & Inspection |
|----------------------|------------------------|------------------------|-------------------|
| GB/T12238 | GB/T 9113 | GB/T 12221 | GB/T 13927 |
| API 609 | ASME B16.5 ASME B16.47 | API 609 ASME B16.10 | API 598 |
| EN 593 | EN 1092 | EN 558 | EN 12266-1 |
| ISO 10631 | ISO 7005 | ISO 5752 | ISO 5208 |

Scope of Application

Nominal Diameter: 1-1/2" ~ 48" (DN40~1200)

Nominal Pressure: 150LB ~ 600LB (PN6~100)

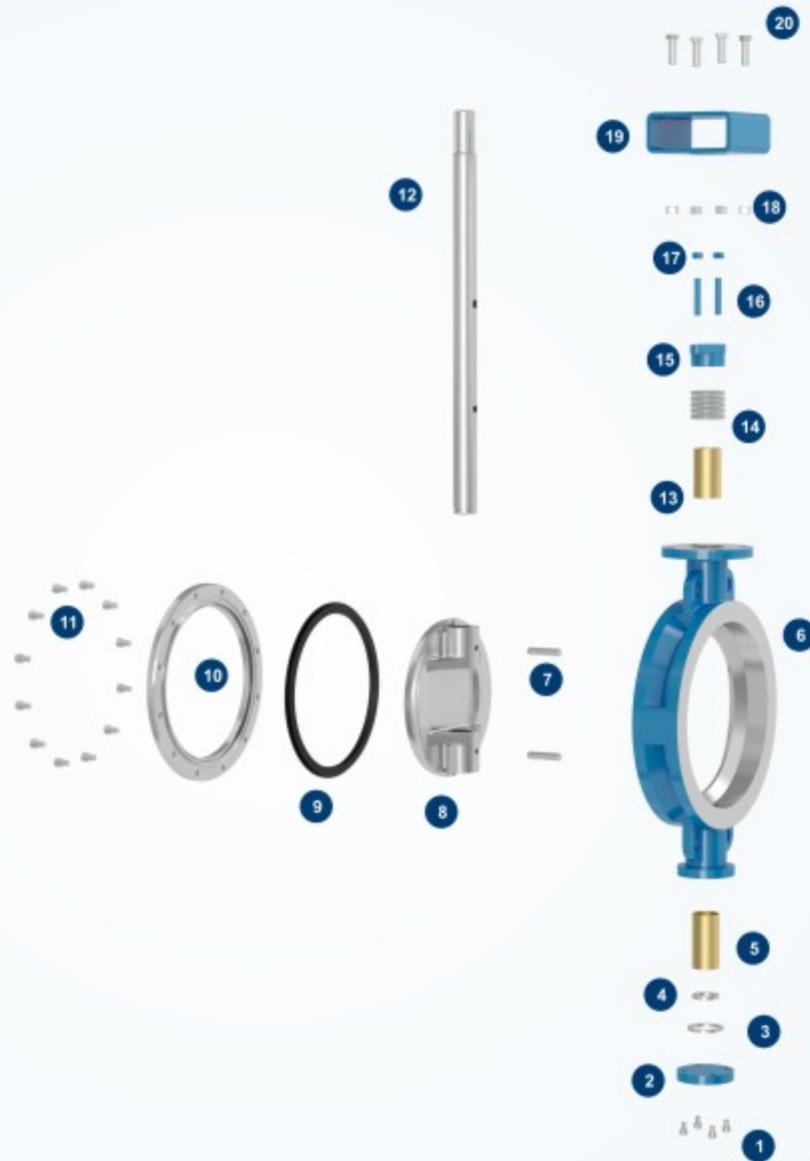
Suitable Temperature: -50°C ~200°C

Connection: Wafer, Lug, Flange

Applicable Medium: fresh water, sea water, air, almost of the chemicals and all kinds of corrosive medium.

Part and Material

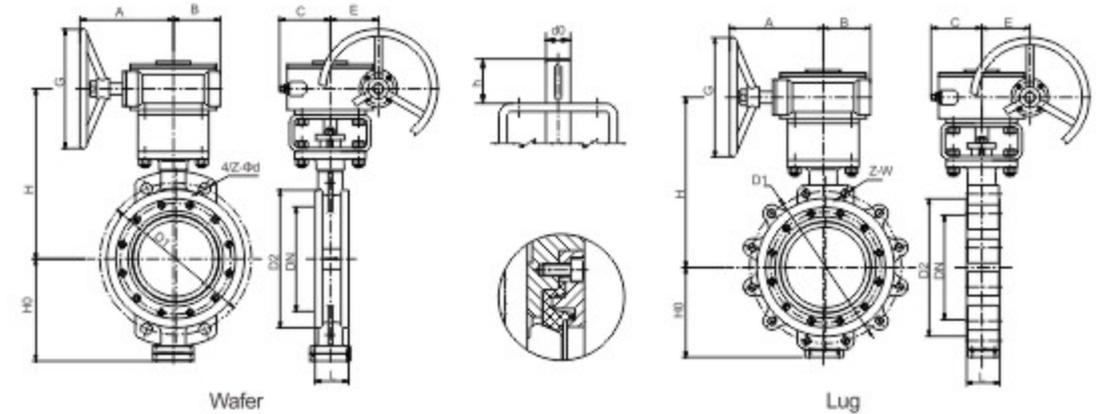
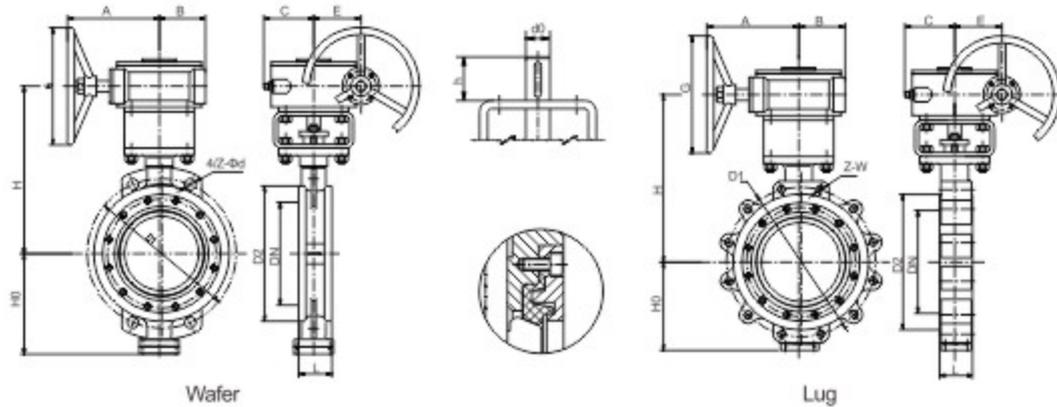
The Valve Explosion Figure



Part and Material

Basic Configuration of Parts and Materials

| Item No. | Part Name | Material |
|----------|--------------------------|---------------------------------|
| 1 | Screw for bottom cover | 8.8 / B7 / B8 / B8M |
| 2 | Bottom cover | A105 / 304 / 316 / 2205 |
| 3 | Gasket | 304+Graphite/ 316+Graphite/PTFE |
| 4 | Clamping ring | 1035 / 304 / 316 / 2205 |
| 5 | Lower bushing | SF-1 / SF-1S / C95200 |
| 6 | Body | WCB / CF8 / CF8M / 4A |
| 7 | Pin | 410 / 304 / 316 / F51 |
| 8 | Disc | WCB / CF8 / CF8M / 4A |
| 9 | Sealing ring | PTFE/RPTFE/PEEK/XTREME |
| 10 | Retaining ring | A105 / 304 / 316 / 2205 |
| 11 | Screws on retaining ring | 8.8 / B7 / B8 / B8M |
| 12 | Shaft | 410 / 304 / 316 / F51 |
| 13 | Upper Bushing | SF-1 / SF-1S / C95200 |
| 14 | Packing | Flexible Graphite/PTFE/Rubber |
| 15 | Packing gland | WCB / CF8 / CF8M / 4A |
| 16 | Studs for gland | 8.8 / B7 / B8 / B8M |
| 17 | Nuts for Gland | 8 / 2H / 8M |
| 18 | Nuts for Yoke | 8 / 2H / 8M |
| 19 | Yoke | WCB / CF8 / CF8M |
| 20 | Studs for Yoke | 8.8 / B7 / B8 / B8M |



Connection Dimensions D37A2F-150C 2"~48" D33A2F-150C 2"~48"

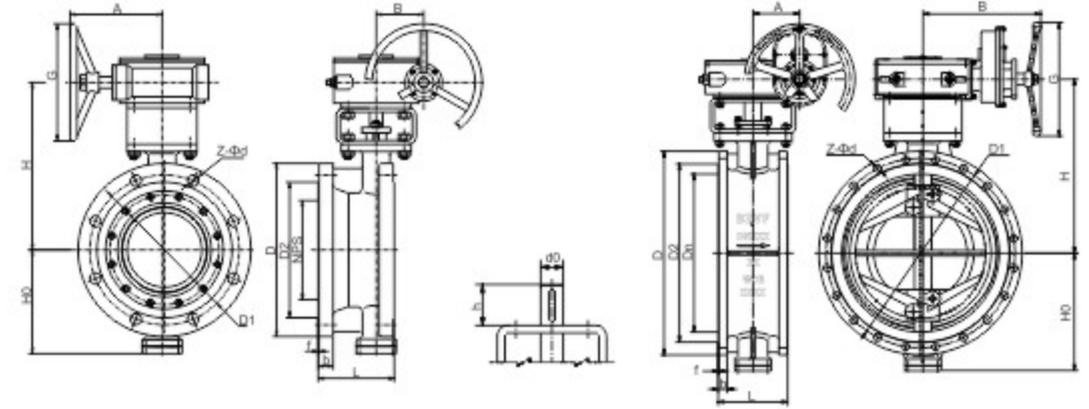
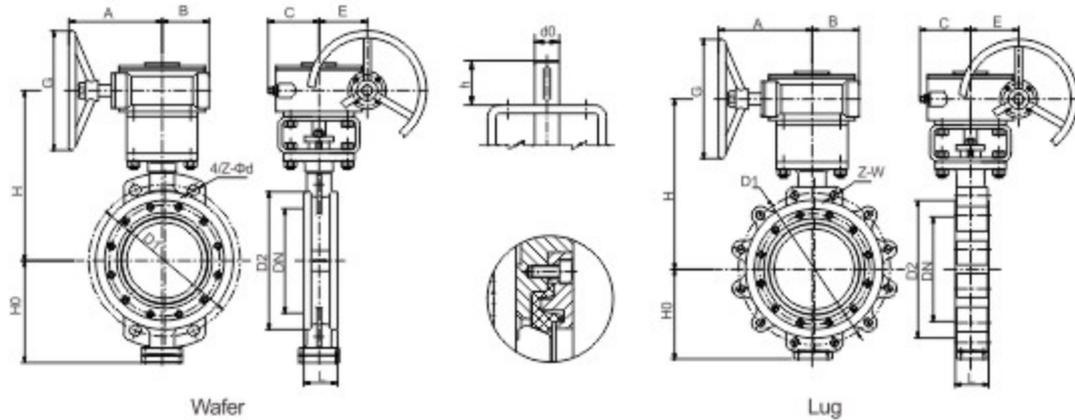
| NPS | L | Flange Dimensions | | | Overall Dimensions | | | | | | | | The Dimensions of Top Flange | | | Weight (Kg) | |
|------|-----|-------------------|--------------|--------------|--------------------|------|-----|-----|-----|-----|-----|----------|------------------------------|-----|-------|-------------|--|
| | | D1 | Z-Φd | Z-W | H0 | H | A | B | C | E | G | ISO 5211 | d0 | h | Wafer | Lug | |
| 2" | 43 | 120.7 | 4-Φ19 | 4-5/8-11UNC | 65 | 195 | 144 | 56 | 56 | 50 | 180 | F07 | 16 | 35 | 5 | 6 | |
| 2.5" | 46 | 139.7 | 4-Φ19 | 4-5/8-11UNC | 75 | 210 | 144 | 56 | 56 | 50 | 180 | F07 | 16 | 35 | 8 | 9 | |
| 3" | 48 | 152.4 | 4-Φ19 | 4-5/8-11UNC | 105 | 215 | 144 | 56 | 56 | 50 | 180 | F07 | 16 | 35 | 10 | 11 | |
| 4" | 54 | 190.5 | 8-Φ19 | 8-5/8-11UNC | 120 | 235 | 144 | 56 | 56 | 50 | 180 | F07 | 18 | 40 | 13 | 15 | |
| 5" | 57 | 216 | 8-Φ22 | 8-3/4-10UNC | 130 | 285 | 200 | 75 | 96 | 63 | 300 | F10 | 22 | 45 | 23 | 25 | |
| 6" | 57 | 241.3 | 8-Φ22 | 8-3/4-10UNC | 170 | 300 | 200 | 75 | 96 | 63 | 300 | F10 | 25 | 50 | 25 | 30 | |
| 8" | 64 | 298.5 | 8-Φ22 | 8-3/4-10UNC | 200 | 340 | 230 | 90 | 120 | 80 | 350 | F12 | 30 | 60 | 33 | 38 | |
| 10" | 71 | 362 | 12-Φ25 | 12-7/8-9UNC | 240 | 380 | 230 | 90 | 120 | 80 | 350 | F12 | 35 | 70 | 50 | 66 | |
| 12" | 81 | 431.8 | 12-Φ25 | 12-7/8-9UNC | 285 | 425 | 260 | 152 | 165 | 125 | 400 | F14 | 40 | 80 | 67 | 90 | |
| 14" | 92 | 476.3 | 12-1-8UNC | 12-1-8UNC | 320 | 505 | 260 | 152 | 165 | 125 | 400 | F14 | 45 | 90 | 130 | 140 | |
| 16" | 102 | 539.8 | 16-1-8UNC | 16-1-8UNC | 360 | 510 | 260 | 152 | 165 | 125 | 400 | F16 | 50 | 100 | 140 | 170 | |
| 18" | 114 | 578 | 16-1 1/8-8UN | 16-1 1/8-8UN | 385 | 565 | 260 | 152 | 165 | 125 | 400 | F16 | 50 | 100 | 188 | 225 | |
| 20" | 127 | 635 | 20-1 1/8-8UN | 20-1 1/8-8UN | 410 | 590 | 290 | 180 | 198 | 160 | 500 | F25 | 55 | 110 | 270 | 287 | |
| 24" | 154 | 749.3 | 20-1 1/4-8UN | 20-1 1/4-8UN | 454 | 685 | 418 | 200 | 215 | 200 | 600 | F25 | 70 | 130 | 310 | 390 | |
| 28" | 165 | 863.6 | 28-1 1/4-8UN | 28-1 1/4-8UN | 545 | 755 | 418 | 200 | 215 | 200 | 600 | F30 | 80 | 130 | 430 | 508 | |
| 32" | 190 | 977.6 | 28-1 1/2-8UN | 28-1 1/2-8UN | 575 | 825 | 510 | 235 | 270 | 263 | 700 | F30 | 90 | 160 | 535 | 632 | |
| 36" | 203 | 1085.8 | 32-1 1/2-8UN | 32-1 1/2-8UN | 655 | 960 | 510 | 235 | 270 | 263 | 700 | F30 | 100 | 170 | 708 | 836 | |
| 40" | 216 | 1200.2 | 36-1 1/2-8UN | 36-1 1/2-8UN | 725 | 1015 | 510 | 235 | 270 | 263 | 700 | F35 | 110 | 170 | 1090 | 1286 | |
| 48" | 254 | 1422.4 | 44-1 1/2-8UN | 44-1 1/2-8UN | 860 | 1150 | 550 | 275 | 335 | 333 | 800 | F35 | 130 | 200 | 1455 | 1717 | |

Note: 1. The above dimensions are according to API609, and the flanges dimensions are made according to ASME standard, but it also can be made according to different requirements.
2. For restricted by length, for inquired specifications not listed, please contact us.
3. The operation can be Worm gear , pneumatic actuator, electric actuator and hydraulic actuator, ect.

Connection Dimensions D37A2F-300C 2"~24" D33A2F-300C 2"~24"

| NPS | L | Flange Dimensions | | | Overall Dimensions | | | | | | | | The Dimensions of Top Flange | | | Weight (Kg) | |
|------|-----|-------------------|--------------|--------------|--------------------|-----|-----|-----|-----|-----|-----|----------|------------------------------|-----|-------|-------------|--|
| | | D1 | Z-Φd | Z-W | H0 | H | A | B | C | E | G | ISO 5211 | d0 | h | Wafer | Lug | |
| 2" | 43 | 127 | 8-Φ19 | 8-5/8-11UNC | 65 | 195 | 144 | 56 | 56 | 50 | 180 | F07 | 16 | 35 | 9 | 10 | |
| 2.5" | 46 | 149.2 | 8-Φ22 | 8-3/4-10UNC | 75 | 210 | 144 | 56 | 56 | 50 | 180 | F07 | 16 | 35 | 11 | 15 | |
| 3" | 48 | 168.3 | 8-Φ22 | 8-3/4-10UNC | 105 | 215 | 144 | 56 | 56 | 50 | 180 | F07 | 18 | 40 | 14 | 18 | |
| 4" | 54 | 200 | 8-Φ22 | 8-3/4-10UNC | 120 | 235 | 144 | 56 | 56 | 50 | 180 | F07 | 18 | 40 | 17 | 22 | |
| 5" | 59 | 235 | 8-Φ22 | 8-3/4-10UNC | 130 | 285 | 200 | 75 | 96 | 63 | 300 | F10 | 22 | 45 | 28 | 38 | |
| 6" | 59 | 270 | 12-Φ22 | 12-3/4-10UNC | 190 | 315 | 230 | 90 | 120 | 80 | 350 | F12 | 30 | 60 | 30 | 42 | |
| 8" | 73 | 330.2 | 12-Φ25 | 12-7/8-9UNC | 220 | 370 | 230 | 90 | 120 | 80 | 350 | F12 | 35 | 70 | 44 | 67 | |
| 10" | 83 | 387.4 | 16-1-8UNC | 16-1-8UNC | 270 | 415 | 260 | 152 | 165 | 125 | 400 | F14 | 40 | 80 | 70 | 93 | |
| 12" | 92 | 450.8 | 16-1 1/8-8UN | 16-1 1/8-UN | 310 | 470 | 260 | 152 | 165 | 125 | 400 | F14 | 45 | 90 | 115 | 160 | |
| 14" | 117 | 514.4 | 20-1 1/8-8UN | 20-1 1/8-8UN | 330 | 525 | 260 | 152 | 165 | 125 | 400 | F16 | 50 | 100 | 208 | 285 | |
| 16" | 133 | 571.5 | 20-1 1/4-8UN | 20-1 1/4-8UN | 385 | 585 | 290 | 180 | 198 | 160 | 500 | F25 | 60 | 120 | 305 | 272 | |
| 18" | 149 | 628.6 | 24-1 1/4-8UN | 24-1 1/4-8UN | 410 | 620 | 418 | 200 | 215 | 200 | 600 | F25 | 70 | 130 | 341 | 360 | |
| 20" | 159 | 685.8 | 24-1 1/4-8UN | 24-1 1/4-8UN | 425 | 692 | 418 | 200 | 215 | 200 | 600 | F25 | 70 | 130 | 432 | 460 | |
| 24" | 181 | 812.8 | 24-1 1/2-8UN | 24-1 1/2-8UN | 480 | 815 | 510 | 235 | 270 | 263 | 700 | F30 | 90 | 160 | 465 | 624 | |

Note: 1. The above dimensions are according to API609, and the flanges dimensions are made according to ASME standard, but it also can be made according to different requirements.
2. For restricted by length, for inquired specifications not listed, please contact us.
3. The operation can be Worm gear , pneumatic actuator, electric actuator and hydraulic actuator, ect.



Connection Dimensions D37A2F-600C 2"~24" D33A2F-600C 2"~24"

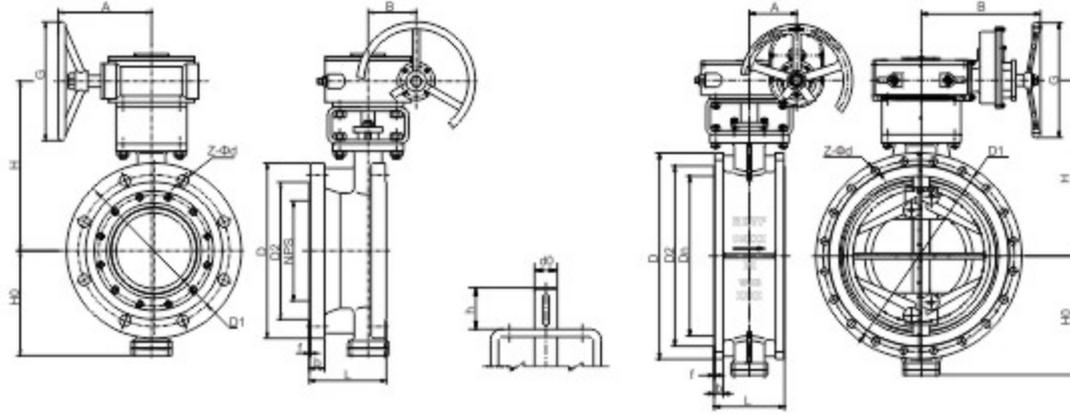
| NPS | L | Flange Dimensions | | | Overall Dimensions | | | | | | | The Dimensions of Top Flange | | | Weight (Kg) | |
|------|-----|-------------------|--------------|--------------|--------------------|-----|-----|-----|-----|-----|-----|------------------------------|-----|-----|-------------|-----|
| | | D1 | Z-Φd | Z-W | H0 | H | A | B | C | E | G | ISO 5211 | d0 | h | Wafer | Lug |
| 2" | 46 | 127 | 8-Φ19 | 8-5/8-11UNC | 88 | 195 | 144 | 56 | 56 | 50 | 180 | F07 | 16 | 35 | 11 | 15 |
| 2.5" | 49 | 149.2 | 8-Φ22 | 8-3/4-10UNC | 100 | 210 | 144 | 56 | 56 | 50 | 180 | F07 | 16 | 35 | 14 | 18 |
| 3" | 54 | 168.3 | 8-Φ22 | 8-3/4-10UNC | 120 | 270 | 144 | 56 | 56 | 50 | 180 | F07 | 18 | 40 | 23 | 25 |
| 4" | 64 | 200 | 8-Φ25 | 8-7/8-10UNC | 135 | 285 | 200 | 75 | 96 | 63 | 300 | F10 | 22 | 45 | 32 | 37 |
| 5" | 78 | 235 | 8-Φ29 | 8-1-8UNC | 160 | 325 | 200 | 75 | 96 | 63 | 300 | F10 | 25 | 50 | 52 | 60 |
| 6" | 78 | 270 | 12-Φ29 | 12-1-8UNC | 190 | 360 | 230 | 90 | 120 | 80 | 350 | F12 | 30 | 60 | 85 | 119 |
| 8" | 102 | 330.2 | 12-Φ32 | 12-1 1/8-8UN | 225 | 430 | 260 | 152 | 165 | 125 | 400 | F14 | 40 | 80 | 102 | 126 |
| 10" | 117 | 387.4 | 16-1 1/4-8UN | 16-1 1/4-UN | 270 | 505 | 260 | 152 | 165 | 125 | 400 | F16 | 50 | 100 | 100 | 120 |
| 12" | 140 | 450.8 | 20-1 1/4-8UN | 20-1 1/4-8UN | 310 | 540 | 290 | 180 | 198 | 160 | 500 | F25 | 60 | 120 | 150 | 200 |
| 14" | 155 | 514.4 | 20-1 3/8-8UN | 20-1 3/8-8UN | 350 | 580 | 418 | 200 | 215 | 200 | 600 | F25 | 70 | 130 | 235 | 290 |
| 16" | 178 | 571.5 | 20-1 1/2-8UN | 20-1 1/2-8UN | 375 | 605 | 418 | 200 | 215 | 418 | 600 | F30 | 80 | 130 | 305 | 350 |
| 18" | 200 | 628.6 | 20-1 5/8-8UN | 20-1 5/8-8UN | 430 | 690 | 510 | 235 | 270 | 263 | 700 | F30 | 90 | 160 | 350 | 400 |
| 20" | 216 | 685.8 | 24-1 5/8-8UN | 24-1 5/8-8UN | 470 | 730 | 510 | 235 | 270 | 263 | 700 | F30 | 100 | 170 | 372 | 503 |
| 24" | 232 | 812.8 | 24-1 7/8-8UN | 24-1 7/8-8UN | 540 | 845 | 510 | 235 | 270 | 263 | 700 | F35 | 110 | 170 | 485 | 687 |

Note: 1. The above dimensions are according to API609, and the flanges dimensions are made according to ASME standard, but it also can be made according to different requirements.
2. For restricted by length, for inquired specifications not listed, please contact us.
3. The operation can be Worm gear , pneumatic actuator, electric actuator and hydraulic actuator, ect.

Connection Dimensions D342F-150C 2"~48"

| NPS | L | Flange Dimensions | | | | | | Overall Dimensions | | | | | The Dimensions of Top Flange | | | Weight (Kg) |
|------|-----|-------------------|--------|------|---|-----|--------|--------------------|------|-----|-----|-----|------------------------------|-----|-----|-------------|
| | | D | D1 | D2 | f | b | Z-Φd | H0 | H | A | B | G | ISO 5211 | d0 | h | |
| 2" | 108 | 150 | 120.7 | 92 | 2 | 19 | 4-Φ19 | 75 | 195 | 144 | 50 | 180 | F07 | 16 | 35 | 16 |
| 2.5" | 112 | 180 | 139.7 | 105 | 2 | 23 | 4-Φ19 | 90 | 210 | 144 | 50 | 180 | F07 | 16 | 35 | 17 |
| 3" | 114 | 190 | 152.4 | 127 | 2 | 24 | 4-Φ19 | 95 | 215 | 144 | 50 | 180 | F07 | 16 | 35 | 19 |
| 4" | 127 | 230 | 190.5 | 157 | 2 | 24 | 8-Φ19 | 115 | 235 | 144 | 50 | 180 | F07 | 18 | 40 | 21 |
| 5" | 140 | 255 | 216 | 186 | 2 | 24 | 8-Φ22 | 127.5 | 285 | 200 | 63 | 300 | F10 | 22 | 45 | 35 |
| 6" | 140 | 280 | 241.3 | 216 | 2 | 26 | 8-Φ22 | 180 | 300 | 200 | 63 | 300 | F10 | 25 | 50 | 45 |
| 8" | 152 | 345 | 298.5 | 270 | 2 | 29 | 8-Φ22 | 200 | 340 | 230 | 80 | 350 | F12 | 30 | 60 | 60 |
| 10" | 165 | 405 | 362 | 324 | 2 | 30 | 12-Φ25 | 240 | 380 | 230 | 80 | 350 | F12 | 35 | 70 | 75 |
| 12" | 178 | 485 | 431.8 | 381 | 2 | 32 | 12-Φ25 | 285 | 425 | 260 | 125 | 400 | F14 | 40 | 80 | 144 |
| 14" | 190 | 535 | 476.3 | 413 | 2 | 35 | 12-Φ29 | 320 | 505 | 260 | 125 | 400 | F14 | 45 | 90 | 172 |
| 16" | 216 | 595 | 539.8 | 470 | 2 | 37 | 16-Φ29 | 360 | 510 | 260 | 125 | 400 | F16 | 50 | 100 | 272 |
| 18" | 222 | 635 | 578 | 533 | 2 | 40 | 16-Φ32 | 385 | 565 | 260 | 125 | 400 | F16 | 50 | 100 | 241 |
| 20" | 229 | 700 | 635 | 584 | 2 | 43 | 20-Φ32 | 410 | 590 | 290 | 160 | 500 | F25 | 55 | 110 | 350 |
| 24" | 267 | 815 | 749.3 | 692 | 2 | 48 | 20-Φ35 | 454 | 685 | 418 | 200 | 600 | F25 | 70 | 130 | 571 |
| 28" | 292 | 925 | 863.6 | 800 | 2 | 72 | 28-Φ35 | 545 | 755 | 418 | 200 | 600 | F30 | 80 | 130 | 796 |
| 32" | 318 | 1060 | 977.6 | 914 | 2 | 81 | 28-Φ41 | 575 | 825 | 510 | 263 | 700 | F30 | 90 | 160 | 1145 |
| 36" | 330 | 1170 | 1085.8 | 1022 | 2 | 91 | 32-Φ41 | 655 | 960 | 510 | 263 | 700 | F30 | 100 | 170 | 1372 |
| 40" | 410 | 1290 | 1200.2 | 1124 | 2 | 91 | 36-Φ41 | 725 | 1015 | 510 | 263 | 700 | F35 | 110 | 170 | 1670 |
| 48" | 470 | 1510 | 1422.4 | 1359 | 2 | 108 | 44-Φ41 | 860 | 1150 | 550 | 333 | 800 | F35 | 130 | 200 | 2480 |

Note: 1. The above dimensions are normal dimensions according to American standard, but it also can be made according to different requirements.
2. For restricted by length, for inquired specifications not listed, please contact us.
3. The operation can be Worm gear , pneumatic actuator, electric actuator and hydraulic actuator, ect.



Connection Dimensions D342F-300C 2"~24"

| NPS | L | Flange Dimensions | | | | | | Overall Dimensions | | | | | The Dimensions of Top Flange | | | Weight (Kg) |
|------|-----|-------------------|-------|-----|---|----|--------|--------------------|-----|-----|-----|-----|------------------------------|----|-----|-------------|
| | | D | D1 | D2 | f | b | Z-Φd | H0 | H | A | B | G | ISO 5211 | d0 | h | |
| 2" | 150 | 165 | 127 | 92 | 2 | 23 | 8-Φ19 | 82.5 | 195 | 144 | 50 | 180 | F07 | 16 | 35 | 19 |
| 2.5" | 170 | 190 | 149.2 | 105 | 2 | 26 | 8-Φ22 | 95 | 210 | 144 | 50 | 180 | F07 | 16 | 35 | 20 |
| 3" | 180 | 210 | 168.3 | 127 | 2 | 29 | 8-Φ22 | 105 | 215 | 144 | 50 | 180 | F07 | 18 | 40 | 23 |
| 4" | 190 | 255 | 200 | 157 | 2 | 32 | 8-Φ22 | 127.5 | 235 | 144 | 50 | 180 | F07 | 18 | 40 | 26 |
| 5" | 200 | 280 | 235 | 186 | 2 | 35 | 8-Φ22 | 140 | 285 | 200 | 63 | 300 | F10 | 22 | 45 | 43 |
| 6" | 210 | 320 | 270 | 216 | 2 | 37 | 12-Φ22 | 215 | 315 | 230 | 80 | 350 | F12 | 30 | 60 | 64 |
| 8" | 230 | 380 | 330.2 | 270 | 2 | 42 | 12-Φ25 | 220 | 370 | 230 | 80 | 350 | F12 | 35 | 70 | 74 |
| 10" | 250 | 445 | 387.4 | 324 | 2 | 48 | 16-Φ29 | 270 | 415 | 260 | 125 | 400 | F14 | 40 | 80 | 119 |
| 12" | 270 | 520 | 450.8 | 381 | 2 | 51 | 16-Φ32 | 310 | 470 | 260 | 125 | 400 | F14 | 45 | 90 | 165 |
| 14" | 290 | 585 | 514.4 | 413 | 2 | 54 | 20-Φ32 | 330 | 525 | 260 | 125 | 400 | F16 | 50 | 100 | 259 |
| 16" | 310 | 650 | 571.5 | 470 | 2 | 58 | 20-Φ35 | 385 | 585 | 290 | 160 | 500 | F25 | 60 | 120 | 325 |
| 18" | 330 | 710 | 628.6 | 533 | 2 | 61 | 24-Φ35 | 410 | 620 | 418 | 200 | 600 | F25 | 70 | 130 | 366 |
| 20" | 350 | 775 | 685.8 | 584 | 2 | 64 | 24-Φ35 | 425 | 692 | 418 | 200 | 600 | F25 | 70 | 130 | 444 |
| 24" | 390 | 915 | 812.8 | 692 | 2 | 70 | 24-Φ41 | 480 | 815 | 510 | 263 | 700 | F30 | 90 | 160 | 661 |

Note: 1. The above dimensions are normal dimensions according to American standard, but it also can be made according to different requirements.
2. For restricted by length, for inquired specifications not listed, please contact us.
3. The operation can be Worm gear , pneumatic actuator, electric actuator and hydraulic actuator, ect.

The Reference CV Value of High Performance PTFE Seat Butterfly Valve.

| Valve size | | Angle of Disc Opening(PN16, 150LB) | | | | | | | | |
|------------|------|------------------------------------|------|-------|-------|-------|-------|-------|-------|--------|
| in | mm | 10° | 20° | 30° | 40° | 50° | 60° | 70° | 80° | 90° |
| 3 | 80 | 3 | 12 | 20 | 29 | 45 | 65 | 91 | 130 | 170 |
| 4 | 100 | 7 | 29 | 47 | 66 | 105 | 151 | 214 | 303 | 400 |
| 6 | 150 | 18 | 78 | 128 | 182 | 289 | 417 | 593 | 840 | 1120 |
| 8 | 200 | 34 | 150 | 247 | 350 | 554 | 801 | 1138 | 1610 | 2150 |
| 10 | 250 | 59 | 258 | 424 | 600 | 951 | 1375 | 1953 | 2765 | 3690 |
| 12 | 300 | 85 | 369 | 605 | 858 | 1358 | 1963 | 2789 | 3947 | 5260 |
| 14 | 350 | 114 | 499 | 819 | 1161 | 1838 | 2657 | 3775 | 5342 | 7120 |
| 16 | 400 | 137 | 599 | 984 | 1394 | 2206 | 3190 | 4532 | 6413 | 8550 |
| 18 | 450 | 184 | 804 | 1321 | 1872 | 2964 | 4286 | 6089 | 8616 | 11490 |
| 20 | 500 | 255 | 1113 | 1828 | 2590 | 4100 | 5928 | 8424 | 11921 | 15900 |
| 24 | 600 | 357 | 1563 | 2568 | 3641 | 5762 | 8331 | 11837 | 16750 | 22330 |
| 28 | 700 | 475 | 2077 | 3413 | 4838 | 7657 | 11070 | 15729 | 22258 | 29680 |
| 30 | 750 | 625 | 2733 | 4491 | 6366 | 10076 | 14567 | 20698 | 29290 | 39050 |
| 32 | 800 | 695 | 3042 | 4998 | 7990 | 11213 | 16211 | 23033 | 32594 | 43460 |
| 36 | 900 | 850 | 3718 | 6108 | 8658 | 13704 | 19812 | 28152 | 39838 | 53120 |
| 40 | 1000 | 1105 | 4831 | 7936 | 11249 | 17805 | 25742 | 36576 | 51759 | 69010 |
| 42 | 1050 | 1416 | 6197 | 10181 | 14430 | 22840 | 33021 | 46920 | 66396 | 88530 |
| 48 | 1200 | 1738 | 7605 | 12495 | 17710 | 28031 | 40526 | 57583 | 81486 | 108650 |

| Valve size | | Angle of Disc Opening(300LB) | | | | | | | | |
|------------|-----|------------------------------|------|------|------|------|------|-------|-------|-------|
| in | mm | 10° | 20° | 30° | 40° | 50° | 60° | 70° | 80° | 90° |
| 3 | 80 | 6 | 15 | 23 | 34 | 49 | 72 | 107 | 139 | 150 |
| 4 | 100 | 14 | 35 | 52 | 76 | 111 | 163 | 243 | 313 | 350 |
| 6 | 150 | 37 | 93 | 140 | 204 | 297 | 437 | 651 | 836 | 930 |
| 8 | 200 | 62 | 155 | 233 | 341 | 496 | 728 | 1084 | 1394 | 1550 |
| 10 | 250 | 118 | 295 | 442 | 648 | 942 | 1384 | 2062 | 2651 | 2950 |
| 12 | 300 | 173 | 442 | 650 | 1048 | 1386 | 2036 | 3032 | 3899 | 4330 |
| 14 | 350 | 206 | 515 | 773 | 1133 | 1648 | 2420 | 3606 | 4636 | 5150 |
| 16 | 400 | 271 | 676 | 1115 | 1487 | 2163 | 3177 | 4732 | 6084 | 6760 |
| 18 | 450 | 354 | 885 | 1328 | 1948 | 2833 | 4161 | 6197 | 7968 | 8850 |
| 20 | 500 | 463 | 1157 | 1735 | 2364 | 3702 | 5437 | 8098 | 10347 | 11570 |
| 24 | 600 | 651 | 1628 | 2442 | 3581 | 5209 | 7651 | 11394 | 14649 | 16280 |

| Valve size | | Angle of Disc Opening(600LB) | | | | | | | | |
|------------|-----|------------------------------|------|------|------|------|------|------|-------|-------|
| in | mm | 10° | 20° | 30° | 40° | 50° | 60° | 70° | 80° | 90° |
| 3 | 80 | 6 | 15 | 22 | 32 | 48 | 69 | 104 | 133 | 150 |
| 4 | 100 | 10 | 25 | 37 | 54 | 78 | 115 | 171 | 219 | 240 |
| 6 | 150 | 28 | 68 | 103 | 151 | 219 | 323 | 481 | 618 | 690 |
| 8 | 200 | 50 | 125 | 189 | 276 | 403 | 591 | 881 | 1132 | 1260 |
| 10 | 250 | 77 | 191 | 287 | 421 | 612 | 899 | 1339 | 1721 | 1910 |
| 12 | 300 | 106 | 265 | 397 | 583 | 847 | 1245 | 1854 | 2385 | 2650 |
| 14 | 350 | 160 | 401 | 602 | 882 | 1284 | 1884 | 2807 | 3609 | 4010 |
| 16 | 400 | 202 | 505 | 758 | 1112 | 1671 | 2375 | 3537 | 4548 | 5050 |
| 18 | 450 | 226 | 565 | 848 | 1244 | 1810 | 2658 | 3959 | 5089 | 5660 |
| 20 | 500 | 319 | 798 | 1197 | 1755 | 2553 | 3749 | 5584 | 7180 | 7980 |
| 24 | 600 | 464 | 1159 | 1738 | 2549 | 3708 | 5446 | 8112 | 10430 | 11590 |

Summary of Functions

The double eccentric soft seal butterfly valve is designed as bi-directional rubber sealing according to the American association of hydraulic AWWA C504, AWWA C 516 standard, BS EN593 standard, ISO 10631 standard and GB/T12238 standard. The main advantage is the good sealing performance, long service life, simple construction, convenient in disassembling and so on, and it's widely used in water supply and drainage, water treatment, electric power, shipbuilding, chemical industry, medicine and other industrial area for shutting off, regulating and controlling flow.

Products Features and Merits

1. The double eccentric resilient-seated sealing construction. Zero Leakage in Bi-directional sealing test.
2. Excellent isolation function for liquid and gas and reliable flow control characteristics.
3. Easy to replace and adjust the elastic sealing ring to make sure good sealing performances.
4. Opening and closing fast, small torque, flexibly operation, energy saving.
5. Adjust the compaction of the sealing ring to make the sealing ring in the best condition to prolong the service life.

Construction Feature

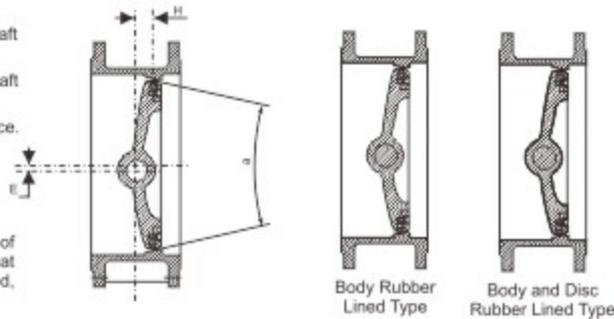
For corrosive medium, double eccentric rubber lined type butterfly valve can be used to reduce the cost. the butterfly valve integrates the advantages of both concentric rubber lined butterfly valves and double eccentric soft seal butterfly valves. (Comparing to the concentric rubber lined butterfly valves, the service life of double eccentric rubber lined type butterfly valve is longer and it can be used for higher pressure.)

Instruction:

Eccentric 1: E- The eccentric between the center line of shaft and the center line of the body.

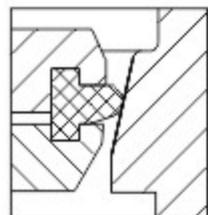
Eccentric 2: H- The eccentric between the center line of shaft and the center of the seat sealing surface.

Cone Angle: The inclination angle of the seat sealing surface.

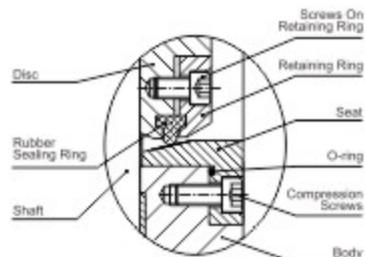


Due to the double eccentric construction, in the process of opening, the disc of the valve get away from the seat gradually, the friction between the sealing surface is reduced, so that the service life is prolonged.

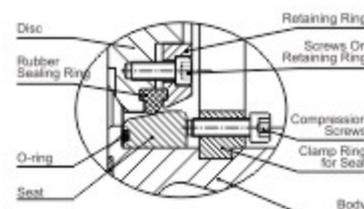
The designed body seat: For cast steel body, the body seat is integral seat with welded layer of anti-corrosive material;
For cast iron body, the body seat is replaceable seat



Integral body seat or welded body seat with anti-corrosive material

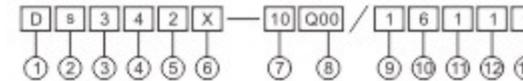


DN50~500



DN600~3600

Model Designations



- ① **Valve Type:** D Butterfly valve
- ② **Sealing direction:** s Bi-directional Uni-directional (No Marking)
- ③ **Operation way:** 3 Worm gear 6 Pneumatic actuator 7 Hydraulic actuator 9 Electric actuator
- ④ **Connection:** 4 Flange 7 Wafer 3 Lug
- ⑤ **Construction:** 1 Concentric 2 Double Eccentric 3 Triple Eccentric
- ⑥ **Seat Material:** F Fluoroplastics X Rubber J Rubber Lining
- ⑦ **Pressure:** PN 6~100bar ANSI 150LB~600LB
- ⑧ **Body Material:** Q00:450-10, C00:WCB, C10:LCB I01:WC6, 102:WC9, P00:CF8 P01:CF3, R00:CF8M, R01:CF3M
- ⑨ **Disc Material:** 1:QT450-10, 2:CF8, 3:CF8M, 4:WCB, 5:LCB
- ⑩ **Shaft Material:** 2:304, 3:316, 5:17-4PH, 6:410
- ⑪ **Sealing material:** 1:EPDM, 2:NBR, 3:BUNA-N, 4:VITON
- ⑫ **Body Seat Material:** 1:304, 2:316, 3:304L, 4:316L, 5:STL, 7:13Cr
- ⑬ **Packing Material:** 1:EPDM, NBR, 4:VITON, 7Flexible Graphite, 8:PTFE

Standard

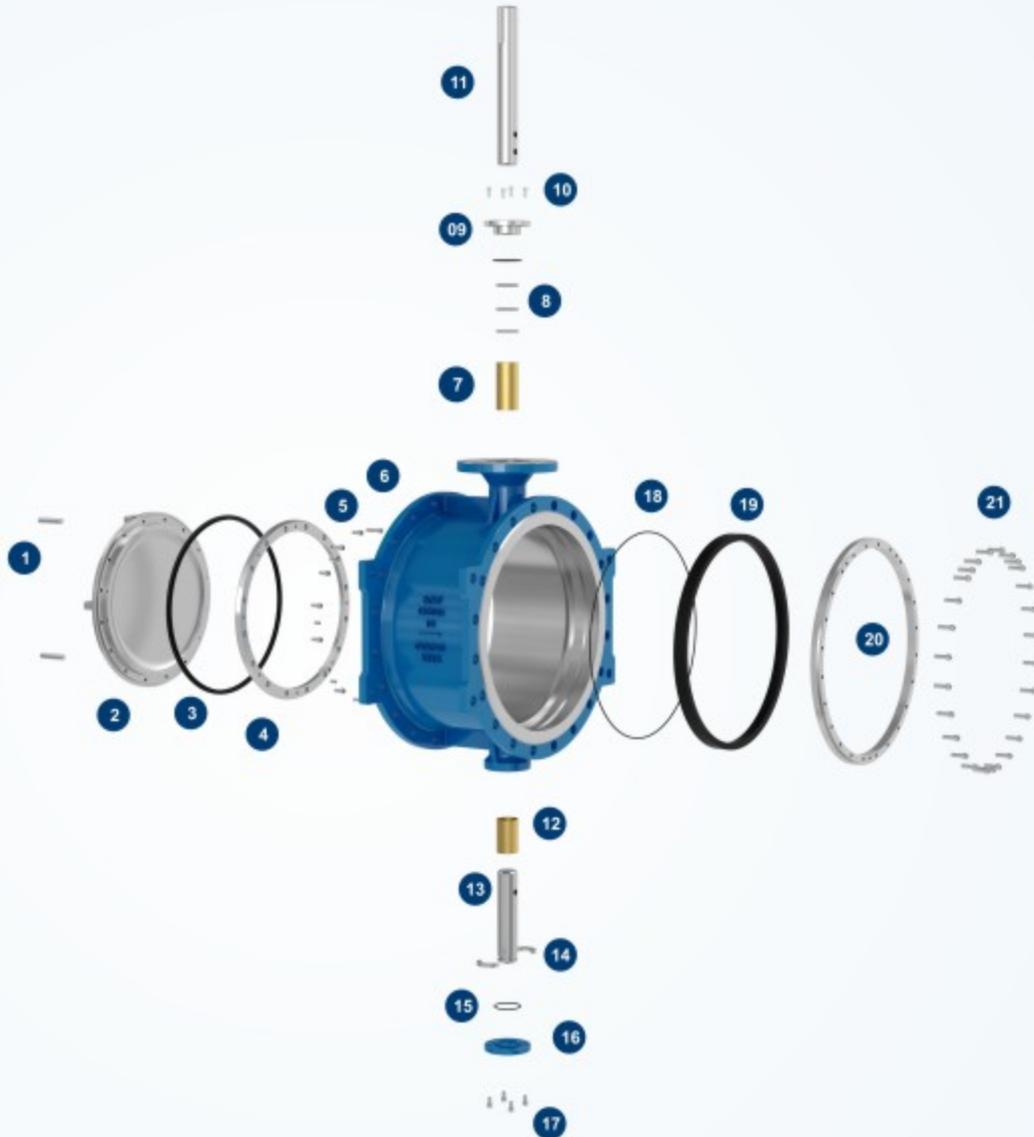
| Design & Manufacture | Flange Connection | Face to Face Dimension | Test & Inspection |
|----------------------|------------------------|------------------------|-------------------|
| GB/T 122238 | GB/T 9113 | GB/T 12221 | GB/T 13927 |
| AWWA C504, C516 | AWWA C207 | AWWA C504, C516 | AWWA C504, C516 |
| API 609 | ASME B16.5 ASME B16.47 | API 609 ASME B16.10 | API 598 |
| EN 593 | EN 1092 | EN 558 | EN 12266-1 |
| ISO 10631 | ISO 7005 | ISO 5752 | ISO 5208 |

Scope of Application

| Nominal Pressure | PN6 | PN10 | PN16 | PN25 | 150LB | 150/175/275PSi | 300PSi |
|----------------------|--|-------------|-------------|-------------|------------|----------------|------------|
| Nominal Diameter | DN50~DN3600 | DN50~DN3000 | DN50~DN2000 | DN50~DN1000 | NPS2~NPS60 | NPS4~NPS144 | NPS4~NPS48 |
| Connection | Wafer type, Lug type, Flange type | | | | | | |
| Applicable Medium | fresh water, sea water, oil products, air, and weak corrosive medium, etc. | | | | | | |
| Suitable Temperature | -29°C~200°C | | | | | | |

Part and Material

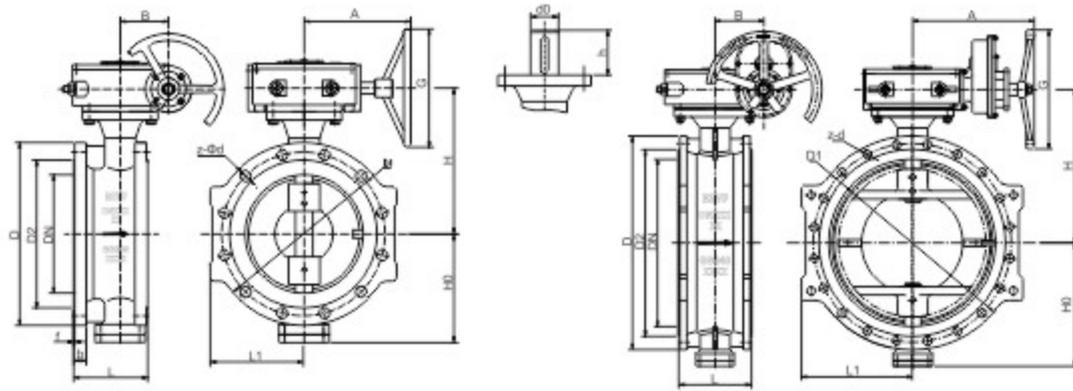
The Valve Explosion Figure



Part and Material

Basic Configuration of Parts and Materials

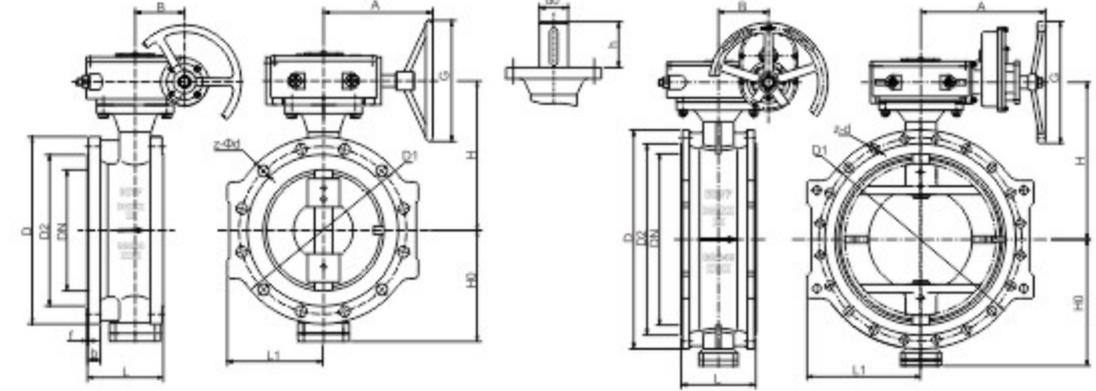
| Item No. | Part Name | Material |
|----------|--------------------------|--|
| 1 | Pin | 410/420/304/XM-19/17-4PH/F51 |
| 2 | Disc | ASTM A536 65-45-12/ ASTM A536 60-40-18 / CF8 / 4A |
| 3 | Sealing ring | EPDM/NBR/VITON/FPM |
| 4 | Retaining ring | A105 /304 / 316 / F51 |
| 5 | Screws on retaining ring | 8.8 / B7 / B8 / B8M |
| 6 | Body | ASTM A536 65-45-12(GGG50)/ ASTM A536 60-40-18(GGG40) |
| 7 | Upper Bushing | SF-1 / SF-1S / C95800 |
| 8 | O-ring | EPDM/NBR/VITON/FPM |
| 9 | Gland | GGG40/ C95800 |
| 10 | Stud for Gland | 8.8 / B7 / B8 / B8M |
| 11 | Upper shaft | 410/420/304/XM-19/17-4PH/F51 |
| 12 | Lower bushing | SF-1 / SF-1S / C95800 |
| 13 | Lower shaft | 410/420/304/XM-19/17-4PH/F51 |
| 14 | Clamping ring | 1035 /304 /316 /F51 |
| 15 | O-ring | EPDM/NBR/VITON/FPM |
| 16 | Screws for bottom cover | 8.8 / B7 / B8 / B8M |
| 17 | Bottom cover | A105 /304 /316 /F51 |
| 18 | O-ring | EPDM/NBR/VITON/FPM |
| 19 | Seat | 304 / 316 / F51 |
| 20 | Clamp ring for seat | A105 / 304 / 316 / F51 |
| 21 | Compression screws | 8.8 / B7 / B8 / B8M |



Connection Dimensions D342X-10Q DN80~1400

| DN | L | Flange Dimensions | | | | | | Overall Dimensions | | | | | | The Dimensions of Top Flange | | | Weight (Kg) |
|------|-----|-------------------|------|------|---|----|--------|--------------------|------|-----|-----|-----|-----|------------------------------|-----|-----|-------------|
| | | D | D1 | D2 | f | b | z-Φd | H0 | H | L1 | A | B | G | ISO 5211 | d0 | h | |
| 80 | 114 | 200 | 160 | 132 | 3 | 19 | 8-Φ19 | 100 | 180 | 105 | 144 | 50 | 180 | F07 | 18 | 40 | 16 |
| 100 | 127 | 220 | 180 | 156 | 3 | 19 | 8-Φ19 | 110 | 210 | 113 | 144 | 50 | 180 | F07 | 18 | 40 | 24 |
| 125 | 140 | 250 | 210 | 184 | 3 | 19 | 8-Φ19 | 125 | 225 | 130 | 144 | 50 | 180 | F07 | 18 | 40 | 29 |
| 150 | 140 | 285 | 240 | 211 | 3 | 19 | 8-Φ23 | 160 | 255 | 151 | 200 | 63 | 300 | F10 | 22 | 45 | 36 |
| 200 | 152 | 340 | 295 | 266 | 3 | 20 | 8-Φ23 | 182 | 275 | 175 | 200 | 63 | 300 | F10 | 25 | 50 | 65 |
| 250 | 165 | 395 | 350 | 319 | 3 | 22 | 12-Φ23 | 222 | 300 | 215 | 230 | 80 | 350 | F12 | 30 | 60 | 75 |
| 300 | 178 | 445 | 400 | 370 | 4 | 25 | 12-Φ23 | 265 | 340 | 241 | 230 | 80 | 350 | F12 | 35 | 70 | 84 |
| 350 | 190 | 505 | 460 | 429 | 4 | 25 | 16-Φ23 | 300 | 375 | 270 | 260 | 125 | 400 | F14 | 40 | 80 | 120 |
| 400 | 216 | 565 | 515 | 480 | 4 | 25 | 16-Φ28 | 335 | 400 | 300 | 260 | 125 | 400 | F16 | 45 | 90 | 170 |
| 450 | 222 | 615 | 565 | 530 | 4 | 26 | 20-Φ28 | 365 | 460 | 330 | 260 | 125 | 400 | F16 | 50 | 100 | 190 |
| 500 | 229 | 670 | 620 | 582 | 4 | 27 | 20-Φ28 | 400 | 510 | 368 | 260 | 125 | 400 | F16 | 50 | 100 | 291 |
| 600 | 267 | 780 | 725 | 682 | 5 | 30 | 20-Φ31 | 450 | 555 | 405 | 290 | 160 | 500 | F25 | 60 | 120 | 348 |
| 700 | 292 | 895 | 840 | 794 | 5 | 33 | 24-Φ31 | 510 | 635 | 470 | 418 | 200 | 600 | F25 | 70 | 130 | 523 |
| 800 | 318 | 1015 | 950 | 901 | 5 | 35 | 24-Φ34 | 580 | 705 | 520 | 418 | 200 | 600 | F25 | 80 | 130 | 720 |
| 900 | 330 | 1115 | 1050 | 1001 | 5 | 38 | 28-Φ34 | 655 | 800 | 568 | 510 | 263 | 700 | F30 | 90 | 160 | 850 |
| 1000 | 410 | 1230 | 1160 | 1112 | 5 | 40 | 28-Φ37 | 710 | 865 | 625 | 510 | 263 | 700 | F30 | 100 | 170 | 1109 |
| 1200 | 470 | 1455 | 1380 | 1328 | 5 | 45 | 32-Φ41 | 845 | 995 | 738 | 550 | 333 | 800 | F35 | 120 | 190 | 1561 |
| 1400 | 530 | 1675 | 1590 | 1530 | 5 | 46 | 36-Φ44 | 965 | 1100 | 848 | 550 | 333 | 800 | F35 | 140 | 200 | 2350 |

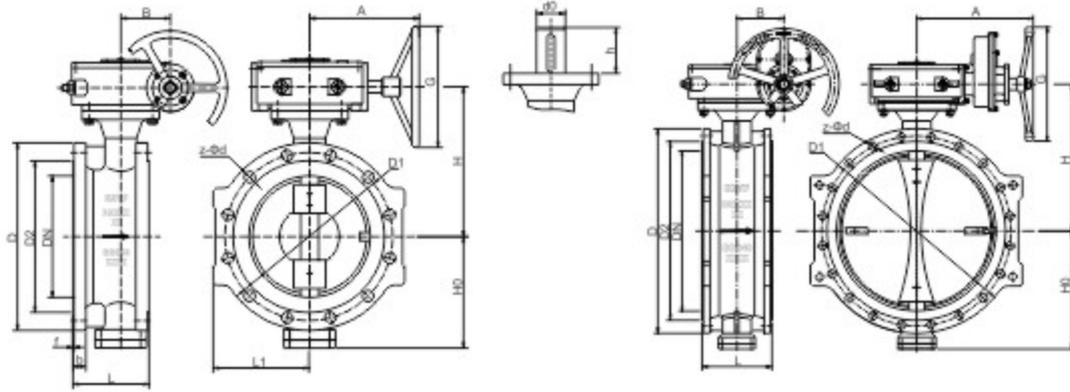
Note: 1. The above dimensions are normal dimensions, and the flange dimensions are made according to EN 1092-2, but it also can be made according to different requirements.
 2. For restricted by length, for inquired specifications not listed, please contact us.
 3. The operation can be Worm gear , pneumatic actuator, electric actuator and hydraulic actuator, ect.



Connection Dimensions D342X-16Q DN80~1400

| DN | L | Flange Dimensions | | | | | | Overall Dimensions | | | | | | The Dimensions of Top Flange | | | Weight (Kg) |
|------|-----|-------------------|------|------|---|----|--------|--------------------|------|-----|-----|-----|-----|------------------------------|-----|-----|-------------|
| | | D | D1 | D2 | f | b | z-Φd | H0 | H | L1 | A | B | G | ISO 5211 | d0 | h | |
| 80 | 114 | 200 | 160 | 132 | 3 | 19 | 8-Φ19 | 100 | 180 | 105 | 144 | 50 | 180 | F07 | 18 | 40 | 18 |
| 100 | 127 | 220 | 180 | 156 | 3 | 19 | 8-Φ19 | 110 | 210 | 113 | 144 | 50 | 180 | F07 | 18 | 40 | 30 |
| 125 | 140 | 250 | 210 | 184 | 3 | 19 | 8-Φ19 | 125 | 225 | 130 | 144 | 50 | 180 | F07 | 18 | 40 | 36 |
| 150 | 140 | 285 | 240 | 211 | 3 | 19 | 8-Φ19 | 160 | 255 | 151 | 200 | 63 | 300 | F10 | 22 | 45 | 45 |
| 200 | 152 | 340 | 295 | 266 | 3 | 20 | 12-Φ23 | 182 | 275 | 175 | 200 | 63 | 300 | F10 | 25 | 50 | 80 |
| 250 | 165 | 405 | 355 | 319 | 3 | 22 | 12-Φ28 | 222 | 300 | 215 | 230 | 80 | 350 | F12 | 30 | 60 | 94 |
| 300 | 178 | 460 | 410 | 370 | 4 | 25 | 12-Φ28 | 265 | 340 | 241 | 230 | 80 | 350 | F12 | 35 | 70 | 105 |
| 350 | 190 | 520 | 470 | 429 | 4 | 27 | 16-Φ28 | 300 | 375 | 270 | 260 | 125 | 400 | F14 | 40 | 80 | 150 |
| 400 | 216 | 580 | 525 | 480 | 4 | 28 | 16-Φ31 | 335 | 400 | 300 | 260 | 125 | 400 | F16 | 45 | 90 | 196 |
| 450 | 222 | 640 | 585 | 548 | 4 | 30 | 20-Φ31 | 365 | 460 | 330 | 260 | 125 | 400 | F16 | 50 | 100 | 238 |
| 500 | 229 | 715 | 650 | 609 | 4 | 32 | 20-Φ34 | 400 | 510 | 368 | 260 | 125 | 400 | F16 | 50 | 100 | 335 |
| 600 | 267 | 840 | 770 | 720 | 5 | 36 | 20-Φ37 | 450 | 555 | 405 | 290 | 160 | 500 | F25 | 60 | 120 | 371 |
| 700 | 292 | 910 | 840 | 794 | 5 | 40 | 24-Φ37 | 510 | 635 | 470 | 418 | 200 | 600 | F25 | 70 | 130 | 645 |
| 800 | 318 | 1025 | 950 | 901 | 5 | 43 | 24-Φ41 | 580 | 705 | 520 | 418 | 200 | 600 | F25 | 80 | 130 | 900 |
| 900 | 330 | 1125 | 1050 | 1001 | 5 | 47 | 28-Φ41 | 655 | 800 | 568 | 510 | 263 | 700 | F30 | 90 | 160 | 1063 |
| 1000 | 410 | 1255 | 1170 | 1112 | 5 | 50 | 28-Φ44 | 710 | 865 | 625 | 510 | 263 | 700 | F30 | 100 | 170 | 1386 |
| 1200 | 470 | 1485 | 1390 | 1328 | 5 | 57 | 32-Φ50 | 845 | 995 | 738 | 550 | 333 | 800 | F35 | 120 | 190 | 1850 |
| 1400 | 530 | 1685 | 1590 | 1530 | 5 | 60 | 36-Φ50 | 965 | 1100 | 848 | 550 | 333 | 800 | F35 | 140 | 200 | 2980 |

Note: 1. The above dimensions are normal dimensions, and the flange dimensions are made according to EN 1092-2, but it also can be made according to different requirements.
 2. For restricted by length, for inquired specifications not listed, please contact us.
 3. The operation can be Worm gear , pneumatic actuator, electric actuator and hydraulic actuator, ect.



Connection Dimensions D342X-25Q DN80~1400

| DN | L | Flange Dimensions | | | | | | Overall Dimensions | | | | | | The Dimensions of Top Flange | | | Weight (Kg) |
|------|-----|-------------------|------|------|---|----|--------|--------------------|------|-----|-----|-----|-----|------------------------------|-----|-----|-------------|
| | | D | D1 | D2 | f | b | z-Φd | H0 | H | L1 | A | B | G | ISO 5211 | d0 | h | |
| 80 | 114 | 200 | 160 | 132 | 3 | 19 | 8-Φ19 | 100 | 180 | 105 | 144 | 50 | 180 | F07 | 18 | 40 | 19 |
| 100 | 127 | 235 | 190 | 156 | 3 | 19 | 8-Φ23 | 115 | 210 | 118 | 144 | 50 | 180 | F07 | 18 | 40 | 35 |
| 125 | 140 | 270 | 220 | 184 | 3 | 19 | 8-Φ28 | 135 | 225 | 135 | 200 | 63 | 300 | F10 | 22 | 45 | 42 |
| 150 | 140 | 300 | 250 | 211 | 3 | 20 | 8-Φ28 | 160 | 255 | 151 | 200 | 63 | 300 | F10 | 25 | 50 | 52 |
| 200 | 152 | 360 | 310 | 274 | 3 | 22 | 12-Φ28 | 182 | 290 | 180 | 230 | 80 | 350 | F12 | 30 | 60 | 94 |
| 250 | 165 | 425 | 370 | 330 | 3 | 25 | 12-Φ31 | 222 | 320 | 223 | 230 | 80 | 350 | F12 | 35 | 70 | 109 |
| 300 | 178 | 485 | 430 | 389 | 4 | 28 | 16-Φ31 | 265 | 350 | 253 | 260 | 125 | 400 | F14 | 40 | 80 | 122 |
| 350 | 190 | 555 | 490 | 448 | 4 | 30 | 16-Φ34 | 310 | 400 | 288 | 260 | 125 | 400 | F16 | 45 | 90 | 187 |
| 400 | 216 | 620 | 550 | 503 | 4 | 32 | 16-Φ37 | 345 | 420 | 320 | 260 | 125 | 400 | F16 | 50 | 100 | 247 |
| 450 | 222 | 670 | 600 | 548 | 4 | 35 | 20-Φ37 | 375 | 490 | 345 | 260 | 125 | 400 | F16 | 50 | 100 | 276 |
| 500 | 229 | 730 | 660 | 609 | 4 | 37 | 20-Φ37 | 410 | 540 | 375 | 290 | 160 | 500 | F25 | 60 | 120 | 387 |
| 600 | 267 | 845 | 770 | 720 | 5 | 42 | 20-Φ41 | 480 | 585 | 438 | 418 | 200 | 600 | F25 | 70 | 130 | 505 |
| 700 | 292 | 960 | 875 | 820 | 5 | 47 | 24-Φ44 | 535 | 660 | 495 | 418 | 200 | 600 | F25 | 80 | 130 | 758 |
| 800 | 318 | 1085 | 990 | 928 | 5 | 51 | 24-Φ50 | 615 | 765 | 555 | 510 | 263 | 700 | F30 | 90 | 160 | 1044 |
| 900 | 330 | 1185 | 1090 | 1028 | 5 | 56 | 28-Φ50 | 685 | 825 | 610 | 510 | 263 | 700 | F30 | 100 | 170 | 1190 |
| 1000 | 410 | 1320 | 1210 | 1140 | 5 | 60 | 28-Φ57 | 720 | 885 | 680 | 550 | 333 | 800 | F35 | 110 | 190 | 1570 |
| 1200 | 470 | 1530 | 1420 | 1350 | 5 | 69 | 32-Φ57 | 850 | 1000 | 780 | 550 | 333 | 800 | F35 | 130 | 200 | 2185 |
| 1400 | 530 | 1755 | 1640 | 1560 | 5 | 74 | 36-Φ62 | 980 | 1135 | 890 | 590 | 374 | 900 | F40 | 150 | 200 | 3290 |

Note: 1. The above dimensions are normal dimensions, and the flange dimensions are made according to EN 1092-2, but it also can be made according to different requirements.
 2. For restricted by length, for inquired specifications not listed, please contact us.
 3. The operation can be Worm gear , pneumatic actuator, electric actuator and hydraulic actuator, ect.

CV Value

| Valve size | | Angle of Disc Opening(PN16, 150LB) | | | | | | | | |
|------------|------|------------------------------------|------|-------|-------|-------|-------|-------|-------|-------|
| in | mm | 10° | 20° | 30° | 40° | 50° | 60° | 70° | 80° | 90° |
| 3 | 80 | 6 | 15 | 23 | 33 | 48 | 71 | 106 | 137 | 150 |
| 4 | 100 | 11 | 28 | 42 | 61 | 88 | 129 | 193 | 248 | 280 |
| 6 | 150 | 30 | 75 | 113 | 165 | 240 | 352 | 525 | 675 | 750 |
| 8 | 200 | 55 | 139 | 208 | 305 | 444 | 652 | 971 | 1248 | 1390 |
| 10 | 250 | 96 | 240 | 361 | 529 | 770 | 1130 | 1682 | 2163 | 2400 |
| 12 | 300 | 151 | 378 | 567 | 832 | 1210 | 1777 | 2647 | 3403 | 3780 |
| 14 | 350 | 223 | 559 | 839 | 1230 | 1790 | 2629 | 3915 | 5034 | 5590 |
| 16 | 400 | 320 | 799 | 1198 | 1757 | 2556 | 3754 | 5591 | 7189 | 7990 |
| 18 | 450 | 384 | 962 | 1443 | 2116 | 3077 | 4520 | 6732 | 8656 | 9620 |
| 20 | 500 | 547 | 1368 | 2052 | 3010 | 4378 | 6430 | 9577 | 12313 | 13680 |
| 24 | 600 | 757 | 1891 | 2837 | 4161 | 6052 | 8889 | 13239 | 17022 | 18910 |
| 28 | 700 | 1078 | 2696 | 4044 | 5931 | 8627 | 12672 | 18873 | 24265 | 26960 |
| 30 | 750 | 1235 | 3088 | 4633 | 6795 | 9883 | 14516 | 21619 | 27796 | 30880 |
| 32 | 800 | 1408 | 3521 | 5282 | 7746 | 11267 | 16549 | 24647 | 31689 | 35210 |
| 36 | 900 | 1730 | 4326 | 6489 | 9517 | 13843 | 20331 | 30281 | 38932 | 43260 |
| 40 | 1000 | 2290 | 5724 | 8586 | 12593 | 18317 | 26903 | 40069 | 51517 | 57240 |
| 42 | 1050 | 2477 | 6207 | 9311 | 13655 | 19862 | 29173 | 43449 | 55863 | 62070 |
| 48 | 1200 | 3259 | 8149 | 12223 | 17927 | 26076 | 38298 | 57040 | 73337 | 81490 |

Summary of Functions

Concentric rubber lined butterfly valve is a kind of valve with thick polymer lining on the body and disc. The lining makes the body completely isolate from medium and provides excellent anti-corrosive performance. It designs as a device to shut-off or regulate the working medium flow and installs in pipelines or vessels with medium of acid, alkali, salt and oxidant, reducing agent, organic solvent in chemical, petroleum, pharmacy, food, iron and steel smelting, paper making, water power plant etc. It can be served as gate valve, globe valves as well as other shutting off or regulating valves.

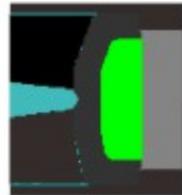
Products Features and Merits

1. Small dimensions and light weight, easy to disassembly and repair, can be installed in any position.
2. Simple and impact construction, quick open-close, small operation torque.
3. Excellent Bi-directional sealing function, Zero leakage in test.
4. Excellent medium isolation and regulating function, the flow curve tends to be straight line. Excellent regulation performance
5. Little medium is stocked in pipeline, strong anti-scouring ability, can be used for the harsh working environment

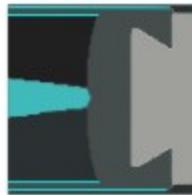
Construction Features

For this concentric butterfly valves, the center of disc sealing and the center of the shaft is coincident, for a certain amount of magnitude of interference, the sealed pressure ratio between the body seat and the disc sealing surface is created to make sure the good sealing performance of the valve. The seat of this concentric butterfly valve is elastic material such as rubber or Teflon material, and it's usually used for low pressure pipeline.

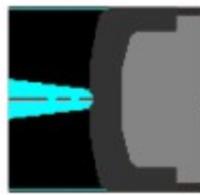
The type of seat: Backrest seat, Inserted seat, the whole rubber vulcanized seat.



Backrest seat

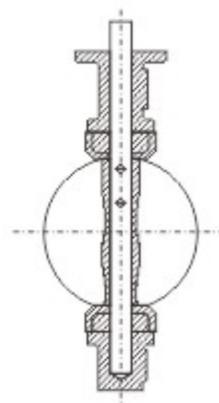


Inserted seat

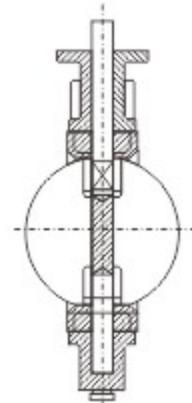


The whole rubber vulcanized seat

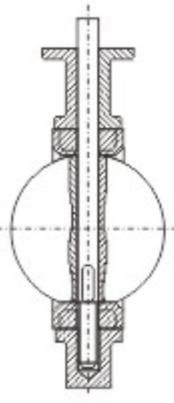
The connection between the disc and shaft: Taper pin connection, Two haft shaft pinless shaft connection, The whole shaft pinless shaft.



C- Taper pin connection
Suitable for DN50~DN1200



S- Two half shaft
pinless shaft connection
Suitable for DN50~DN600

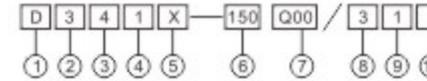


T- The whole shaft
pinless connection
Suitable for DN50~DN300

Seat Material: H Alloy Steel Y Hard Alloy T Copper Alloy W Body Material

Sealing direction: s Bi-directional Uni-directional (No Marking)

Model Designations



- ① Valve Type: D Butterfly valve
- ② Operation way: 3 Worm gear 6 Pneumatic actuator 7 Hydraulic actuator 9 Electric actuator
- ③ Connection: 4 Flange 7 Wafer 3 Lug
- ④ Construction: 1 Concentric 2 Double Eccentric 3 Triple Eccentric
- ⑤ Seat Material: F Fluoroplastics X Rubber
- ⑥ Pressure: PN 6~100bar ANSI 150LB~600LB
- ⑦ Body Material: Q00:450-10, C00:WCB, C10:LCB, I01:WC6, I02:WC9, P00:CF8, P01:CF3, R00:CF8M, R01:CF3M
- ⑧ Disc Material: 1:QT450-10, 2:CF8, 3:CF8M, 4:WCB, 5:LCB
- ⑨ Shaft Material: 1:416, 2:304, 3:316, 5:17-4PH, 6:410
- ⑩ Seat Material: F Fluoroplastics X Rubber

Standard

| Design & Manufacture | Flange Connection | Face to Face Dimension | Test & Inspection |
|----------------------|------------------------|------------------------|-------------------|
| GB/T 122238 | GB/T 9113 | GB/T 12221 | GB/T 13927 |
| API 609 | ASME B16.5 ASME B16.47 | API 609 ASME B16.10 | API 598 |
| EN 593 | EN 1092 | EN 558 | EN 12266-1 |
| ISO 10631 | ISO 7005 | ISO 5752 | ISO 5208 |

Scope of Application

Nominal Diameter: 2" ~ 48" (DN50~1200)

Nominal Pressure: 150LB PN6~16

Suitable Temperature: -29°C ~200°C

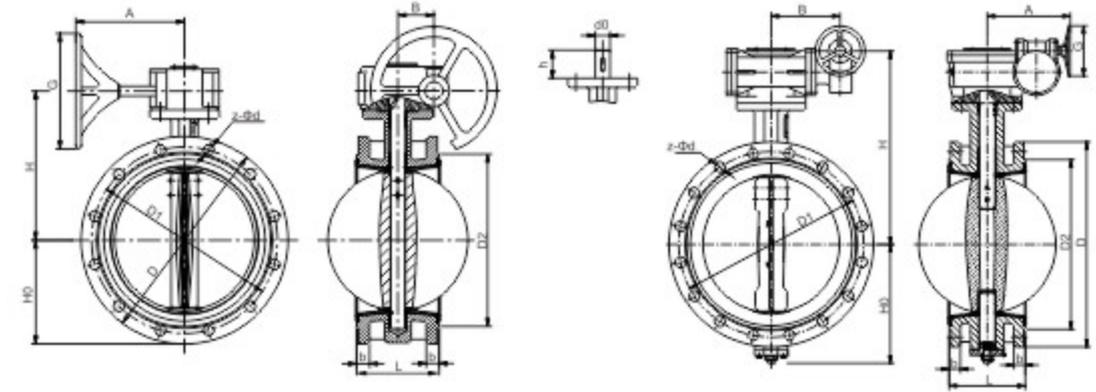
Connection: Wafer, Lug, Flange

Applicable Medium: fresh water, sea water, air, almost of the chemicals and all kinds of corrosive medium.

Part and Material

Basic configuration of Parts and Materials

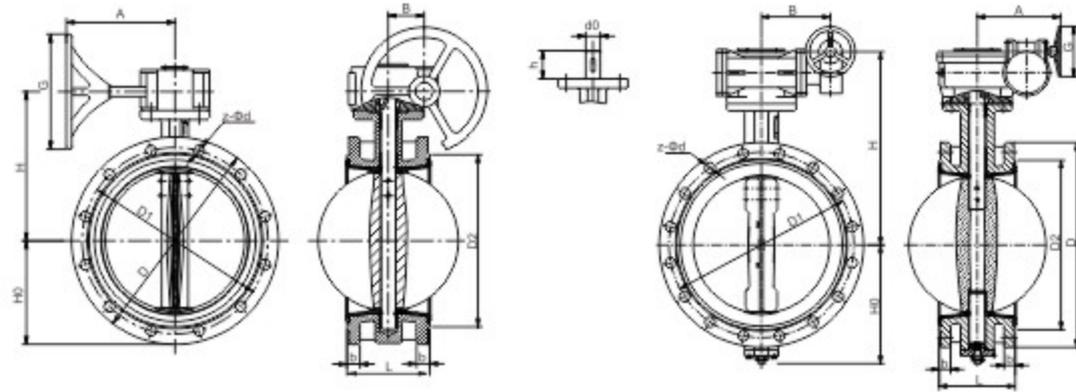
| Item No. | Part Name | Material |
|----------|-----------|--------------------------|
| 1 | Body | WCB/GGG40/C95800 |
| 2 | Disc | WCB/GGG40/C95800 |
| 3 | Shaft | 416 / 420 / 431 / 304 |
| 4 | Pin | 416 / 420 / 431 / 304 |
| 5 | Seat | EPDM / NBR/ VITON / PTFE |
| 6 | O-ring | EPDM / NBR/ VITON |
| 7 | Bushing | Bronze/PTFE |
| 8 | Studs | 8.8/B7/B8 |
| 9 | Key | 1045 |
| 10 | Worm gear | Subassembly |



Connection Dimensions D341X-10C DN50-DN1200

| DN | L | Flange Dimensions | | | | | | Overall Dimensions | | | | The Dimensions of Top Flange | | | Weight (Kg) |
|------|-----|-------------------|------|------|----|--------|-----|--------------------|-----|-----|-----|------------------------------|-----|-----|-------------|
| | | D | D1 | D2 | b | z-Φd | H0 | H | A | B | G | ISO 5211 | d0 | h | |
| 50 | 108 | 165 | 125 | 102 | 18 | 4-Φ18 | 83 | 152 | 154 | 45 | 150 | F05 | 13 | 30 | 12 |
| 65 | 112 | 185 | 145 | 122 | 18 | 8-Φ18 | 93 | 162 | 154 | 45 | 150 | F05 | 13 | 30 | 13.5 |
| 80 | 114 | 200 | 160 | 138 | 20 | 8-Φ18 | 100 | 177 | 154 | 45 | 150 | F05 | 13 | 30 | 15 |
| 100 | 127 | 220 | 180 | 158 | 20 | 8-Φ18 | 114 | 187 | 154 | 45 | 150 | F07 | 16 | 35 | 17 |
| 125 | 140 | 250 | 210 | 188 | 22 | 8-Φ18 | 122 | 207 | 154 | 45 | 150 | F07 | 18 | 40 | 21 |
| 150 | 140 | 285 | 240 | 212 | 22 | 8-Φ22 | 143 | 222 | 154 | 45 | 150 | F07 | 18 | 40 | 27 |
| 200 | 152 | 340 | 295 | 268 | 24 | 8-Φ22 | 170 | 245 | 250 | 63 | 300 | F10 | 22 | 45 | 39 |
| 250 | 165 | 395 | 350 | 320 | 26 | 12-Φ22 | 198 | 275 | 250 | 63 | 300 | F10 | 30 | 60 | 55 |
| 300 | 178 | 445 | 400 | 370 | 26 | 12-Φ22 | 222 | 320 | 227 | 80 | 300 | F10 | 30 | 60 | 68 |
| 350 | 190 | 505 | 460 | 430 | 26 | 16-Φ22 | 267 | 350 | 227 | 80 | 300 | F12 | 30 | 60 | 82 |
| 400 | 216 | 565 | 515 | 482 | 26 | 16-Φ26 | 278 | 469 | 278 | 178 | 300 | F14 | 35 | 70 | 156 |
| 450 | 222 | 615 | 565 | 532 | 28 | 20-Φ26 | 320 | 504 | 278 | 178 | 300 | F14 | 40 | 80 | 210 |
| 500 | 229 | 670 | 620 | 585 | 28 | 20-Φ26 | 329 | 559 | 278 | 178 | 300 | F14 | 40 | 80 | 265 |
| 600 | 267 | 780 | 725 | 685 | 34 | 20-Φ30 | 384 | 645 | 200 | 304 | 300 | F16 | 50 | 100 | 305 |
| 700 | 292 | 895 | 840 | 800 | 34 | 24-Φ30 | 450 | 726 | 244 | 327 | 400 | F25 | 60 | 120 | 406 |
| 800 | 318 | 1015 | 950 | 905 | 36 | 24-Φ33 | 501 | 786 | 244 | 327 | 400 | F25 | 60 | 120 | 543 |
| 900 | 330 | 1115 | 1050 | 1005 | 38 | 28-Φ33 | 550 | 969 | 270 | 411 | 400 | F25 | 70 | 130 | 639 |
| 1000 | 410 | 1230 | 1160 | 1110 | 38 | 28-Φ36 | 622 | 1019 | 418 | 455 | 435 | F25 | 80 | 130 | 735 |
| 1200 | 470 | 1455 | 1380 | 1330 | 44 | 32-Φ39 | 763 | 1309 | 600 | 709 | 480 | F30 | 100 | 170 | 1474 |

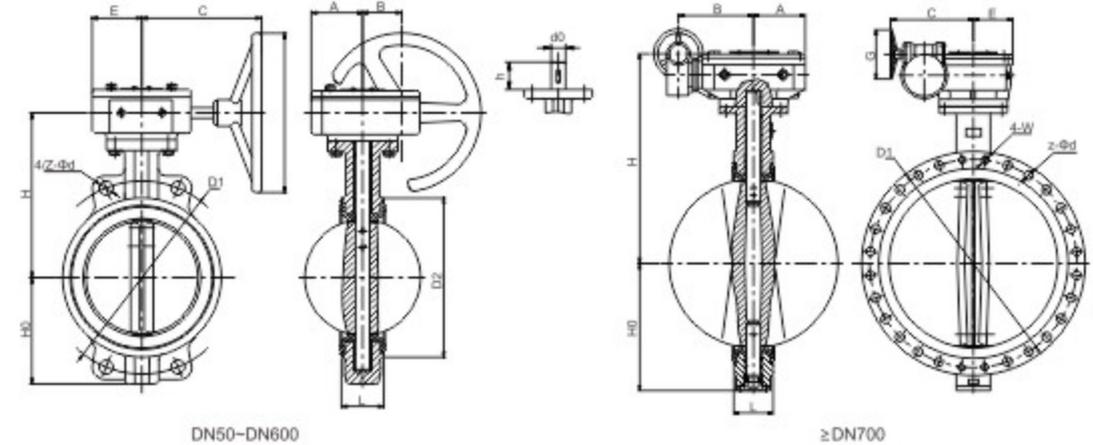
Note: 1. The above dimensions are normal dimensions, and the flange dimensions are made according to EN 1092-1, but it also can be made according to different requirements.
 2. For restricted by length, for inquired specifications not listed, please contact us.
 3. The operation can be Worm gear , pneumatic actuator, electric actuator and hydraulic actuator, ect.



Connection Dimensions D341X-16C DN50-DN1200

| DN | L | Flange Dimensions | | | | | Overall Dimensions | | | | | The Dimensions of Top Flange | | | Weight (Kg) |
|------|-----|-------------------|------|------|----|--------|--------------------|------|-----|-----|-----|------------------------------|-----|-----|-------------|
| | | D | D1 | D2 | b | z-Φd | H0 | H | A | B | G | ISO 5211 | d0 | h | |
| 50 | 108 | 165 | 125 | 102 | 18 | 4-Φ18 | 83 | 152 | 154 | 45 | 150 | F05 | 13 | 30 | 12 |
| 65 | 112 | 185 | 145 | 122 | 18 | 8-Φ18 | 93 | 162 | 154 | 45 | 150 | F05 | 13 | 30 | 13.5 |
| 80 | 114 | 200 | 160 | 138 | 20 | 8-Φ18 | 100 | 177 | 154 | 45 | 150 | F05 | 13 | 30 | 15 |
| 100 | 127 | 220 | 180 | 158 | 20 | 8-Φ18 | 114 | 187 | 154 | 45 | 150 | F07 | 16 | 35 | 17 |
| 125 | 140 | 250 | 210 | 188 | 22 | 8-Φ18 | 122 | 207 | 154 | 45 | 150 | F07 | 18 | 40 | 21 |
| 150 | 140 | 285 | 240 | 212 | 22 | 8-Φ22 | 143 | 222 | 154 | 45 | 150 | F07 | 18 | 40 | 27 |
| 200 | 152 | 340 | 295 | 268 | 24 | 12-Φ22 | 170 | 245 | 250 | 63 | 300 | F10 | 22 | 45 | 39 |
| 250 | 165 | 405 | 355 | 320 | 26 | 12-Φ26 | 198 | 275 | 250 | 63 | 300 | F10 | 30 | 60 | 55 |
| 300 | 178 | 460 | 410 | 378 | 28 | 12-Φ26 | 222 | 320 | 227 | 80 | 300 | F10 | 30 | 60 | 68 |
| 350 | 190 | 520 | 470 | 438 | 30 | 16-Φ26 | 267 | 350 | 227 | 80 | 300 | F12 | 30 | 60 | 82 |
| 400 | 216 | 580 | 525 | 490 | 32 | 16-Φ30 | 278 | 469 | 278 | 178 | 300 | F14 | 35 | 70 | 156 |
| 450 | 222 | 640 | 585 | 550 | 40 | 20-Φ30 | 320 | 504 | 278 | 178 | 300 | F14 | 40 | 80 | 210 |
| 500 | 229 | 715 | 650 | 610 | 44 | 20-Φ33 | 329 | 559 | 278 | 178 | 300 | F14 | 45 | 90 | 265 |
| 600 | 267 | 840 | 770 | 725 | 54 | 20-Φ36 | 384 | 645 | 200 | 304 | 300 | F16 | 50 | 100 | 305 |
| 700 | 292 | 910 | 840 | 795 | 40 | 24-Φ36 | 450 | 726 | 244 | 327 | 400 | F25 | 60 | 120 | 406 |
| 800 | 318 | 1025 | 950 | 900 | 42 | 24-Φ39 | 501 | 786 | 244 | 327 | 400 | F25 | 60 | 120 | 543 |
| 900 | 330 | 1125 | 1050 | 1000 | 44 | 28-Φ39 | 550 | 969 | 270 | 411 | 400 | F25 | 70 | 130 | 639 |
| 1000 | 410 | 1255 | 1170 | 1115 | 46 | 28-Φ42 | 622 | 1019 | 418 | 455 | 435 | F25 | 80 | 130 | 735 |
| 1200 | 470 | 1485 | 1390 | 1330 | 52 | 32-Φ48 | 763 | 1309 | 600 | 709 | 480 | F30 | 100 | 170 | 1474 |

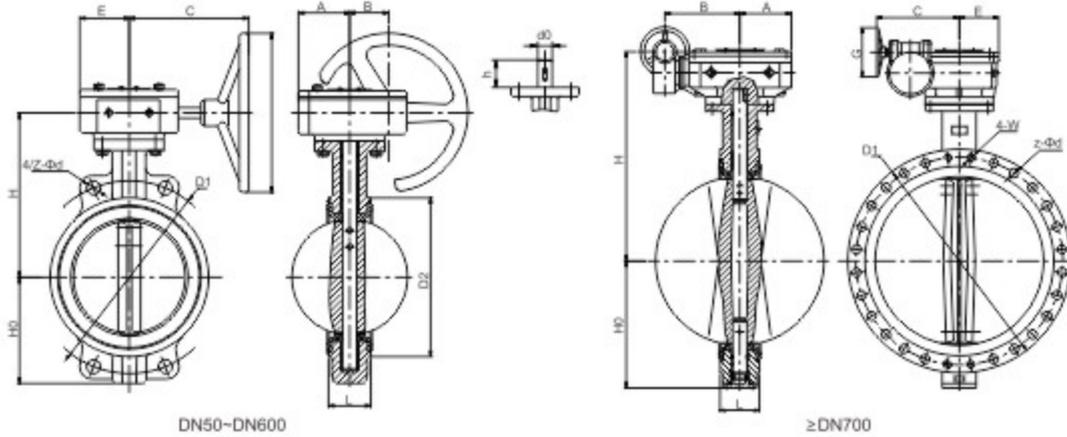
Note: 1. The above dimensions are normal dimensions, and the flange dimensions are made according to EN 1092-1, but it also can be made according to different requirements.
 2. For restricted by length, for inquired specifications not listed, please contact us.
 3. The operation can be Worm gear , pneumatic actuator, electric actuator and hydraulic actuator, ect.



Connection Dimensions D371X-10C DN50-DN1200

| DN | L | Flange Dimensions | | | Overall Dimensions | | | | | | | The Dimensions of Top Flange | | | Weight (Kg) | |
|------|-----|-------------------|------|--------|--------------------|-----|------|-----|-----|-----|-----|------------------------------|----------|-----|-------------|------|
| | | D1 | D2 | z-Φd | 4-W | H0 | H | A | B | C | E | G | ISO 5211 | d0 | | h |
| 50 | 43 | 125 | 102 | 4-Φ18 | - | 73 | 145 | 52 | 45 | 150 | 52 | 150 | F05 | 13 | 30 | 5 |
| 65 | 46 | 145 | 122 | 8-Φ18 | - | 80 | 152 | 52 | 45 | 150 | 52 | 150 | F05 | 13 | 30 | 5.3 |
| 80 | 46 | 160 | 138 | 8-Φ18 | - | 88 | 159 | 52 | 45 | 150 | 52 | 150 | F05 | 13 | 30 | 6.45 |
| 100 | 52 | 180 | 158 | 8-Φ18 | - | 103 | 179 | 52 | 45 | 150 | 52 | 150 | F07 | 16 | 35 | 7.65 |
| 125 | 56 | 210 | 188 | 8-Φ18 | - | 116 | 192 | 52 | 45 | 150 | 52 | 150 | F07 | 18 | 40 | 8.85 |
| 150 | 56 | 240 | 212 | 8-Φ22 | - | 138 | 208 | 52 | 45 | 150 | 52 | 150 | F07 | 18 | 40 | 12 |
| 200 | 60 | 295 | 268 | 8-Φ22 | - | 162 | 240 | 75 | 63 | 300 | 75 | 300 | F10 | 22 | 45 | 22 |
| 250 | 68 | 350 | 320 | 12-Φ22 | - | 202 | 284 | 75 | 63 | 300 | 75 | 300 | F10 | 25 | 50 | 28 |
| 300 | 78 | 400 | 370 | 12-Φ22 | - | 222 | 315 | 81 | 80 | 300 | 81 | 300 | F10 | 30 | 60 | 39 |
| 350 | 78 | 460 | 430 | 16-Φ22 | - | 270 | 355 | 81 | 80 | 300 | 81 | 300 | F12 | 30 | 60 | 58 |
| 400 | 102 | 515 | 482 | 16-Φ26 | - | 321 | 424 | 121 | 178 | 300 | 115 | 300 | F14 | 30 | 60 | 103 |
| 450 | 114 | 565 | 532 | 20-Φ26 | - | 349 | 495 | 121 | 178 | 300 | 115 | 300 | F14 | 35 | 70 | 112 |
| 500 | 127 | 620 | 585 | 20-Φ26 | - | 387 | 472 | 121 | 178 | 300 | 115 | 300 | F14 | 40 | 80 | 155 |
| 600 | 154 | 725 | 685 | 20-Φ30 | - | 463 | 558 | 145 | 304 | 300 | 144 | 300 | F16 | 50 | 100 | 228 |
| 700 | 165 | 840 | 800 | 24-Φ30 | - | 510 | 795 | 157 | 255 | 165 | 189 | 400 | F25 | 60 | 120 | 397 |
| 800 | 190 | 950 | 905 | 24-Φ33 | - | 577 | 848 | 157 | 255 | 165 | 189 | 400 | F25 | 60 | 120 | 487 |
| 900 | 200 | 1050 | 1005 | 24-Φ33 | 4-M30 | 658 | 1004 | 185 | 265 | 370 | 220 | 400 | F25 | 70 | 130 | 640 |
| 1000 | 251 | 1160 | 1110 | 24-Φ36 | 4-M33 | 711 | 1086 | 185 | 265 | 370 | 185 | 435 | F25 | 80 | 130 | 959 |
| 1200 | 276 | 1380 | 1330 | 28-Φ39 | 4-M36 | 864 | 1332 | 453 | 709 | 600 | 280 | 480 | F30 | 100 | 170 | 1274 |

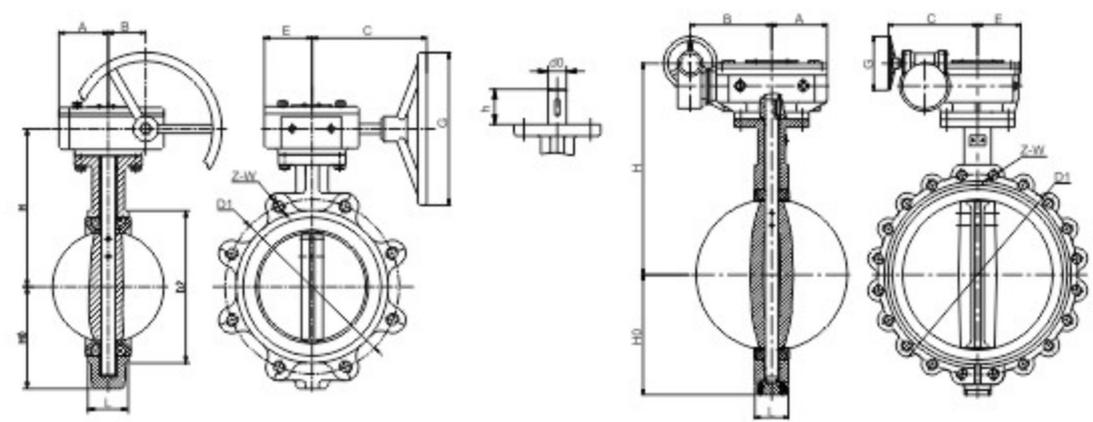
Note: 1. The above dimensions are normal dimensions, and the flange dimensions are made according to EN 1092-1, but it also can be made according to different requirements.
 2. For restricted by length, for inquired specifications not listed, please contact us.
 3. The operation can be Worm gear , pneumatic actuator, electric actuator and hydraulic actuator, ect.



Connection Dimensions D371X-16C DN50-DN1200

| DN | L | Flange Dimensions | | | Overall Dimensions | | | | | | | | The Dimensions of Top Flange | | | Weight (Kg) |
|------|-----|-------------------|------|--------|--------------------|-----|------|-----|-----|-----|-----|-----|------------------------------|-----|-----|-------------|
| | | D1 | D2 | z-Φd | 4-W | H0 | H | A | B | C | E | G | ISO 5211 | d0 | h | |
| 50 | 43 | 125 | 102 | 4-Φ18 | - | 73 | 145 | 52 | 45 | 150 | 52 | 150 | F05 | 13 | 30 | 5 |
| 65 | 46 | 145 | 122 | 8-Φ18 | - | 80 | 152 | 52 | 45 | 150 | 52 | 150 | F05 | 13 | 30 | 5.3 |
| 80 | 46 | 160 | 138 | 8-Φ18 | - | 88 | 159 | 52 | 45 | 150 | 52 | 150 | F05 | 13 | 30 | 6.45 |
| 100 | 52 | 180 | 158 | 8-Φ18 | - | 103 | 179 | 52 | 45 | 150 | 52 | 150 | F07 | 16 | 35 | 7.65 |
| 125 | 56 | 210 | 188 | 8-Φ18 | - | 116 | 192 | 52 | 45 | 150 | 52 | 150 | F07 | 18 | 40 | 8.85 |
| 150 | 56 | 240 | 212 | 8-Φ22 | - | 138 | 208 | 52 | 45 | 150 | 52 | 150 | F07 | 18 | 40 | 12 |
| 200 | 60 | 295 | 268 | 12-Φ22 | - | 162 | 240 | 75 | 63 | 300 | 75 | 300 | F10 | 22 | 45 | 22 |
| 250 | 68 | 355 | 320 | 12-Φ26 | - | 202 | 284 | 75 | 63 | 300 | 75 | 300 | F10 | 25 | 50 | 28 |
| 300 | 78 | 410 | 378 | 12-Φ26 | - | 222 | 315 | 81 | 80 | 300 | 81 | 300 | F10 | 30 | 60 | 39 |
| 350 | 78 | 470 | 438 | 16-Φ26 | - | 270 | 355 | 81 | 80 | 300 | 81 | 300 | F12 | 30 | 60 | 58 |
| 400 | 102 | 525 | 490 | 16-Φ30 | - | 321 | 424 | 121 | 178 | 300 | 115 | 300 | F14 | 35 | 70 | 103 |
| 450 | 114 | 585 | 550 | 20-Φ30 | - | 349 | 495 | 121 | 178 | 300 | 115 | 300 | F14 | 40 | 80 | 112 |
| 500 | 127 | 650 | 610 | 20-Φ33 | - | 387 | 472 | 121 | 178 | 300 | 115 | 300 | F14 | 45 | 90 | 155 |
| 600 | 154 | 770 | 725 | 20-Φ36 | - | 463 | 558 | 145 | 304 | 300 | 144 | 300 | F16 | 50 | 100 | 228 |
| 700 | 165 | 840 | 795 | 24-Φ36 | - | 524 | 786 | 157 | 255 | 165 | 189 | 400 | F25 | 60 | 120 | 397 |
| 800 | 190 | 950 | 900 | 24-Φ39 | - | 608 | 832 | 157 | 255 | 165 | 189 | 400 | F25 | 60 | 120 | 487 |
| 900 | 200 | 1050 | 1000 | 24-Φ39 | 4-M36 | 656 | 1004 | 185 | 265 | 370 | 220 | 400 | F25 | 70 | 130 | 640 |
| 1000 | 251 | 1170 | 1115 | 24-Φ42 | 4-M39 | 800 | 1084 | 185 | 265 | 370 | 185 | 435 | F25 | 80 | 130 | 959 |
| 1200 | 276 | 1390 | 1330 | 28-Φ48 | 4-M45 | 864 | 1332 | 453 | 709 | 600 | 280 | 480 | F30 | 100 | 170 | 1274 |

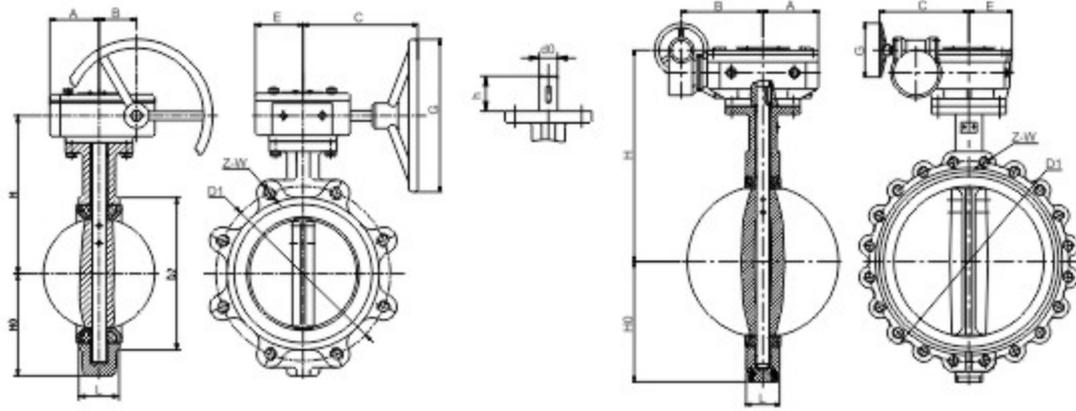
Note: 1. The above dimensions are normal dimensions, and the flange dimensions are made according to EN 1092-1, but it also can be made according to different requirements.
 2. For restricted by length, for inquired specifications not listed, please contact us.
 3. The operation can be Worm gear , pneumatic actuator, electric actuator and hydraulic actuator, ect.



Connection Dimensions D331X-10C DN50-DN600

| DN | L | Flange Dimensions | | | Overall Dimensions | | | | | | | | The Dimensions of Top Flange | | | Weight (Kg) |
|-----|-----|-------------------|-----|--------|--------------------|-----|-----|-----|-----|-----|-----|----------|------------------------------|-----|------|-------------|
| | | D1 | D2 | Z-W | H0 | H | A | B | C | E | G | ISO 5211 | d0 | h | | |
| 50 | 43 | 125 | 102 | 4-M16 | 73 | 145 | 52 | 45 | 150 | 52 | 150 | F05 | 13 | 30 | 8.5 | |
| 65 | 46 | 145 | 122 | 8-M16 | 80 | 152 | 52 | 45 | 150 | 52 | 150 | F05 | 13 | 30 | 9.4 | |
| 80 | 46 | 160 | 138 | 8-M16 | 88 | 159 | 52 | 45 | 150 | 52 | 150 | F05 | 13 | 30 | 9.5 | |
| 100 | 52 | 180 | 158 | 8-M16 | 103 | 179 | 52 | 45 | 150 | 52 | 150 | F07 | 16 | 35 | 12.4 | |
| 125 | 56 | 210 | 188 | 8-M16 | 116 | 192 | 52 | 45 | 150 | 52 | 150 | F07 | 18 | 40 | 15 | |
| 150 | 56 | 240 | 212 | 8-M20 | 138 | 208 | 52 | 45 | 150 | 52 | 150 | F07 | 18 | 40 | 17 | |
| 200 | 60 | 295 | 268 | 8-M20 | 162 | 240 | 75 | 63 | 300 | 75 | 300 | F10 | 22 | 45 | 28 | |
| 250 | 68 | 350 | 320 | 12-M20 | 202 | 284 | 75 | 63 | 300 | 75 | 300 | F10 | 25 | 50 | 36 | |
| 300 | 78 | 400 | 370 | 12-M20 | 222 | 315 | 81 | 80 | 300 | 81 | 300 | F10 | 30 | 60 | 57 | |
| 350 | 78 | 460 | 430 | 16-M20 | 270 | 355 | 81 | 80 | 300 | 81 | 300 | F12 | 30 | 60 | 77 | |
| 400 | 102 | 515 | 482 | 16-M24 | 244 | 424 | 121 | 178 | 300 | 115 | 300 | F14 | 30 | 60 | 138 | |
| 450 | 114 | 565 | 532 | 20-M24 | 348 | 495 | 121 | 178 | 300 | 115 | 300 | F14 | 35 | 70 | 152 | |
| 500 | 127 | 620 | 585 | 20-M24 | 387 | 472 | 121 | 178 | 300 | 115 | 300 | F14 | 40 | 80 | 220 | |
| 600 | 154 | 725 | 685 | 20-M27 | 463 | 558 | 145 | 304 | 300 | 144 | 300 | F16 | 50 | 100 | 327 | |

Note: 1. The above dimensions are normal dimensions, and the flange dimensions are made according to EN 1092-1, but it also can be made according to different requirements.
 2. For restricted by length, for inquired specifications not listed, please contact us.
 3. The operation can be Worm gear , pneumatic actuator, electric actuator and hydraulic actuator, ect.



Connection Dimensions D331X-16C DN50~DN600

| DN | L | Flange Dimensions | | | Overall Dimensions | | | | | | | The Dimensions of Top Flange | | | Weight (Kg) |
|-----|-----|-------------------|-----|---------|--------------------|-----|-----|-----|-----|-----|-----|------------------------------|----|-----|-------------|
| | | D1 | D2 | Z-W | H0 | H | A | B | C | E | G | ISO 5211 | d0 | h | |
| 50 | 43 | 125 | 102 | 4- M16 | 73 | 145 | 52 | 45 | 150 | 52 | 150 | F05 | 13 | 30 | 8.5 |
| 65 | 46 | 145 | 122 | 8- M16 | 80 | 152 | 52 | 45 | 150 | 52 | 150 | F05 | 13 | 30 | 9.4 |
| 80 | 46 | 160 | 138 | 8- M16 | 88 | 159 | 52 | 45 | 150 | 52 | 150 | F05 | 13 | 30 | 9.5 |
| 100 | 52 | 180 | 158 | 8- M16 | 103 | 179 | 52 | 45 | 150 | 52 | 150 | F07 | 16 | 35 | 12.4 |
| 125 | 56 | 210 | 188 | 8- M16 | 116 | 192 | 52 | 45 | 150 | 52 | 150 | F07 | 18 | 40 | 15 |
| 150 | 56 | 240 | 212 | 8- M20 | 138 | 208 | 52 | 45 | 150 | 52 | 150 | F07 | 18 | 40 | 17 |
| 200 | 60 | 295 | 268 | 12- M20 | 162 | 240 | 75 | 63 | 300 | 75 | 300 | F10 | 22 | 45 | 28 |
| 250 | 68 | 355 | 320 | 12- M24 | 202 | 284 | 75 | 63 | 300 | 75 | 300 | F10 | 25 | 50 | 36 |
| 300 | 78 | 410 | 378 | 12- M24 | 222 | 315 | 81 | 80 | 300 | 81 | 300 | F10 | 30 | 60 | 57 |
| 350 | 78 | 470 | 438 | 16- M24 | 270 | 355 | 81 | 80 | 300 | 81 | 300 | F12 | 30 | 60 | 77 |
| 400 | 102 | 525 | 490 | 16- M27 | 244 | 424 | 121 | 178 | 300 | 115 | 300 | F14 | 35 | 70 | 138 |
| 450 | 114 | 585 | 550 | 20- M27 | 349 | 495 | 121 | 178 | 300 | 115 | 300 | F14 | 40 | 80 | 152 |
| 500 | 127 | 650 | 610 | 20- M30 | 387 | 472 | 121 | 178 | 300 | 115 | 300 | F14 | 45 | 90 | 220 |
| 600 | 154 | 770 | 725 | 20- M33 | 463 | 558 | 145 | 304 | 300 | 144 | 300 | F16 | 50 | 100 | 327 |

Note: 1. The above dimensions are normal dimensions, and the flange dimensions are made according to EN 1092-1, but it also can be made according to different requirements.
 2. For restricted by length, for inquired specifications not listed, please contact us.
 3. The operation can be Worm gear , pneumatic actuator, electric actuator and hydraulic actuator, ect.

The Reference CV Value of Concentric Rubber Lining Butterfly Valve

| Valve size | | Angle of Disc Opening | | | | | | | | |
|------------|------|-----------------------|------|-------|-------|-------|-------|-------|--------|--------|
| in | mm | 10° | 20° | 30° | 40° | 50° | 60° | 70° | 80° | 90° |
| 1-1/2 | 40 | 0.15 | 2 | 6 | 11 | 19 | 29 | 52 | 84 | 150 |
| 2 | 50 | 9 | 21 | 31 | 46 | 67 | 98 | 146 | 188 | 210 |
| 2-1/2 | 65 | 12 | 30 | 46 | 67 | 97 | 143 | 213 | 274 | 300 |
| 3 | 80 | 19 | 48 | 71 | 105 | 152 | 223 | 333 | 428 | 480 |
| 4 | 100 | 31 | 78 | 117 | 171 | 249 | 366 | 545 | 701 | 780 |
| 5 | 125 | 49 | 124 | 185 | 272 | 395 | 580 | 865 | 1112 | 1240 |
| 6 | 150 | 72 | 181 | 271 | 397 | 578 | 848 | 1264 | 1625 | 1810 |
| 8 | 200 | 125 | 314 | 470 | 690 | 1003 | 1473 | 2195 | 2822 | 3140 |
| 10 | 250 | 205 | 513 | 770 | 1129 | 1642 | 2411 | 3591 | 4617 | 5130 |
| 12 | 300 | 304 | 760 | 1140 | 1672 | 2432 | 3572 | 5320 | 6840 | 7600 |
| 14 | 350 | 402 | 1006 | 1509 | 2213 | 3219 | 4728 | 7042 | 9054 | 10060 |
| 16 | 400 | 523 | 1308 | 1962 | 2877 | 4185 | 6147 | 9155 | 11770 | 13090 |
| 18 | 450 | 724 | 1811 | 2716 | 3984 | 5795 | 8511 | 12676 | 16297 | 18110 |
| 20 | 500 | 885 | 2213 | 3320 | 4869 | 7082 | 10402 | 15492 | 19919 | 22130 |
| 24 | 600 | 1207 | 3018 | 4527 | 6640 | 9658 | 14185 | 21126 | 27162 | 30180 |
| 30 | 750 | 1509 | 3622 | 6237 | 8415 | 9959 | 16096 | 26156 | 42554 | 47280 |
| 36 | 900 | 2616 | 5231 | 9155 | 12750 | 15090 | 23138 | 38228 | 63378 | 70420 |
| 42 | 1050 | 3018 | 7042 | 12072 | 16575 | 19617 | 31186 | 51306 | 84202 | 93560 |
| 48 | 1200 | 4024 | 9054 | 16096 | 21250 | 25150 | 40240 | 66396 | 108648 | 120720 |