

KOFLW

FIGURE NUMBER SYSTEM

Butterfly Valve Figure Number System



| | | | | | | | |
|--|--------------------------------|---|-------------------------------|------------------------------|---------------------------------|------------------------|---|
| 1 | Size | Xxin; xx, mm | | | | | |
| 2 | Operation type | 1-Bare Stem | 3-Worm Gear Operated | 6 **-Air Operated | 7 □-Hydraulic Operated | 9-Electric Operated | Manual Operated (omit) |
| 3 | Valve Type | D-Butterfly Valve D _h -Check Butterfly Valve D _v -Vacuum Butterfly Valve D _{TF} -Aeration Butterfly Valve DS- Expansion Butterfly Valve | | | | | |
| 4 | Pressure | 0a-PN0.25 | 0b-PN0.6 | 0-PN1.0 | 1-PN1.6 class150 | 2-PN2.5 | 3-class300 |
| | | 4-PN4.0 class400 | 6-PN6.4 class600 | 9-class900 | 10-PN10.0 | 1a-class125 | 2a-class250 |
| 5 | Connection Ends | RF-Raised Face | FF-Flat Face | MFM-Male and Female Face | RJ-Ring Joint | BW-Buttweld | WS-Wafe with 4 lugs WL-Wafe with no lug WF-Single Reinforcement Wafer Type WU-Unthreaded Hole Wafer Type LL-Full Lug Screw Wafer Type LU-U-U LU-U-U Screw Wafer Type |
| 6 | Structure Type | 1-Middle eccentric struccture | 2-Single eccentric struccture | 3-Double eccentric structure | 4-Veriable eccentric struccture | 5-eccentric struccture | |
| 7 | Basic Material | C-WCB | C-C5 | C6-WC6 | C9-WC9 | BL-LCB | CL-LCC |
| | | 8-CF8 | 8M-CF8M | 3-CF3 | 3M-CF3M | ML-MONEL | H-IRON |
| 8 | Material of Seat face or Liner | H- Cr13 S.S | | E-18-8 S.S | | R-Mo2Ti S.S | |
| | | D-Nitriding Steel | | M-Monel Alloy | | Y-Hard Face | |
| Note: <ul style="list-style-type: none"> 1、 Use "W" to express seat sealing surface material which is processed directly by valve body. 2、 When the materials of sealing surface are different, use low hardness material symbol to express. 3、 Special Requirements not shown ,should be indicated in the purchase order 4、 The models listed in the sample book have no reference to pressure、 sizes and valve material symbols, they are to be decided by users. 5、 **6S Spring Return, 6A Air Operated Control 6、 B-Pressure Retaining Type, Q-Full Pressure Type, S-Locked Type 7、 PN<0.25MPa, Omit Pressure | | | | | | | |

For example

6 " -3D1RF5CH

Butterfly valve, 6 ", Worm Gear Operated ,ANSI CLASS150, RF Flange Ends, Triple eccentric stricture, Body& Disc Cast Steel WCB, 13Cr face Seat.

150--3D1RF5CH

Butterfly valve, DN150 PN16, Worm Gear Operated, ANSI CLASS150, RF Flange Ends, Triple eccentric stricture, Body& Disc Cast Steel WCB, 13Cr face Seat.

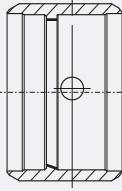
BUTTERFLY VALVE DESIGN FEATURES

Butterfly valves are used to open and close (seal type) or adjust the medium flow in pipes in the fields of food stuff, drinks, chemical, industrial water treatment, high-rise constructions, water supply and drainage etc.. They are mainly structured as following:

1、Simple structure, small sizes, light weight and low installation dimensions. According to the types of body connection, they are basically classified to wafer type (including lug wafer type), flanged and welded.



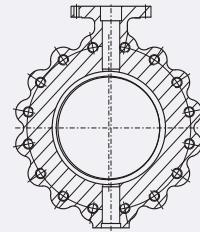
Flanged Connection



Butt-welded Connection



Wafer Connection

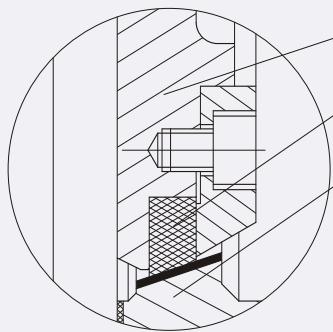


Lug Wafer Connection

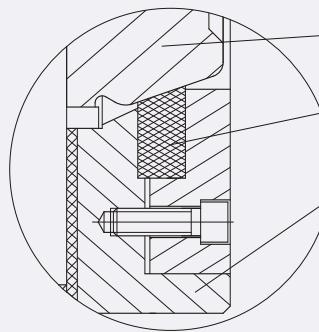
2、Sealing materials may be soft or hard, placed on body or disc, to meet different working conditions, and to effect good seal and long life.

1) Soft sealing structure (see fig. a), is applicable for single and double eccentric butterfly valves, pressure rating CLASS600. Centered sealing structure is applicable for pressure rating \leq CLASS 250. Sealing ring (PTFE) is placed on the valve body to feature the following:

- a) To effect dependable seal with no need of accessory sealing ring or metal bracing ring.
- b) Bidirectional leakproof seal.
- c) Little maintenance and long service life.



Disc
Sealing Ring
Body



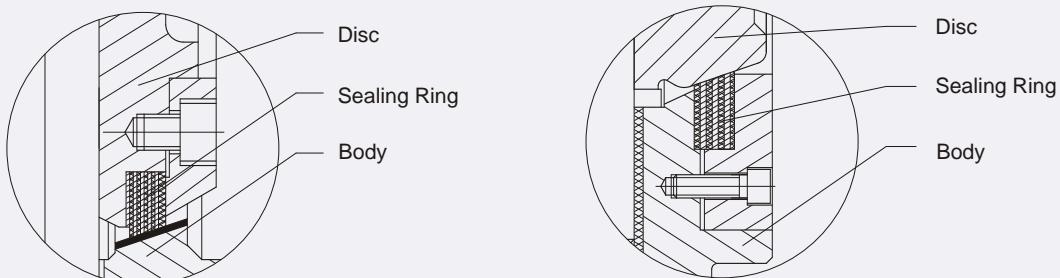
Disc
Sealing Ring
Body

Soft Sealing Structure (fig.a)

BUTTERFLY VALVE DESIGN FEATURES

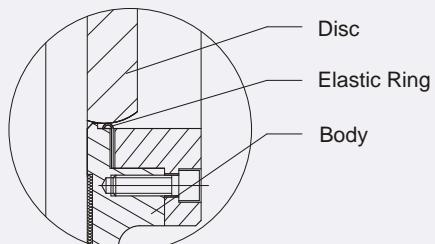
2) Multilayer Hard Seal Structure (See fig. b)

Multilayer hard seal structure is applicable for single, double and triple eccentric butterfly valves, pressure rating \leq CLASS600. And, triple eccentric butterfly valve can maintain two-way leak-tightness. Multilayer sealing ring is composite of stainless steel and nonmetal material. The nonmetal material can be flexible graphite, PTFE or nonasbestos material etc. according to the actual working conditions.



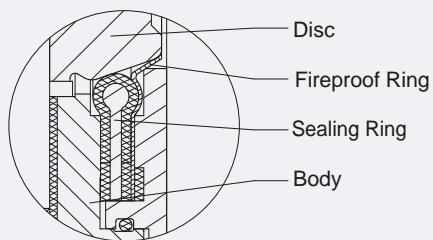
Multilayer Hard Seal Structure (fig.b)

3) Elastic ring hard seal structure (see fig. c) is of the structure of J-type metal sealing ring. It is applicable for single and double eccentric butterfly valves, pressure rating \leq CLASS 300. Provided with fireproof structure to adapt to conditions with great temperature changes, it is featured by outstanding seal, long service life and easy workmanship.



Elastic Ring Hard Seal Structure (fig.c)

3. Fireproof butterfly valves (see fig. d) can stop the expansion of fire. Once the sealing seat of butterfly valve is on fire, the stainless Steel sealing ring will act to make butterfly valve immediately sealed.



Soft Seal Fireproof Structure (fig.d)

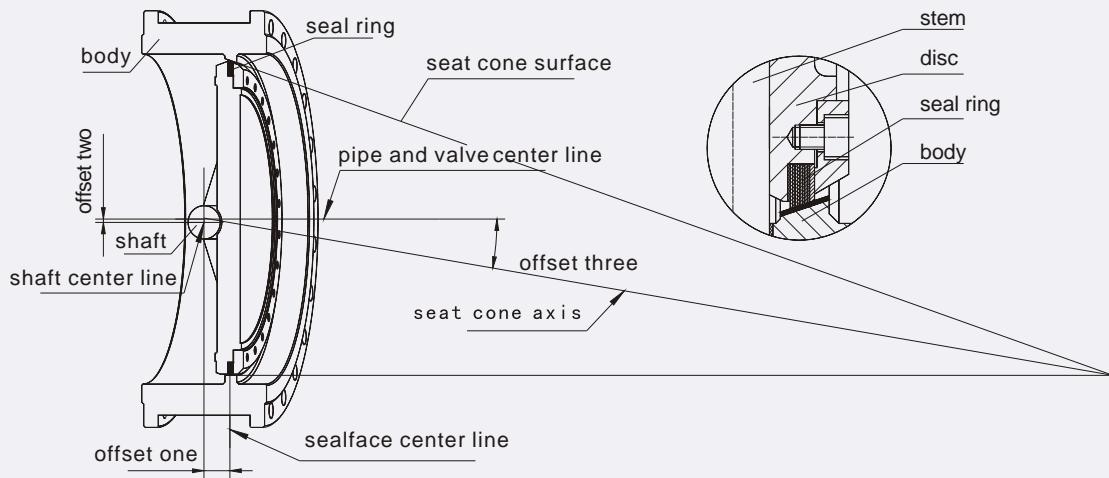
4、When butterfly valve is fully opened, flow resistance is low.
When partially opened, it may carry out sensitive flow control.

5、Low driving moment, easy and quick operation.

TRIPLE OFFSET BUTTERFLY VALVE

Design characteristics of triple offset butterfly valve and sealing principle

THE TRIPLE OFFSET GEOMETRY



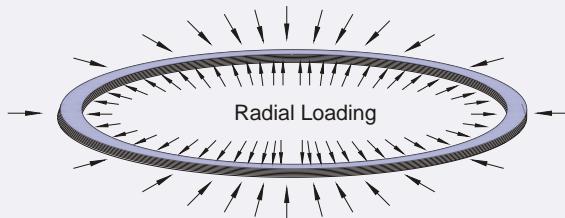
The first eccentric, shaft deviated from the centerline of sealing face.

The second eccentric, shaft deviated from the centerline of pipe and valve.

The third eccentric, the distinctive included angle between oblique taper angle of eccentric seat and centerline of pipe, thus making the seat completely disengaged from the sealing ring during the whole process of open and close. This structure not only uses cam effect, but also eliminates the possibility of abrasion and leakage.

The zero leakage of our triple eccentric butterfly valve is implemented by the composite stainless steel sealing ring mounted on the disc.

Zero leakage is implemented by the elastic sealing ring mounted on the disc. The elasticity of sealing ring (see fig. right) is produced by its radial compression and flexibility. The contact surface between the sealing ring and seat is an oblique cone. The contact angle between them gives slight 'wedge effect', making the sealing ring producing flexibility and radial compression. The even contact between the seat and sealing ring, and the elasticity of sealing ring makes the load on the seat even, thus to perform closest cutoff by the lowest torque. The elasticity produced by the torque makes the valve closely cut off, regardless of the flow direction or pressure of medium.



CHARACTERISTIC

Elastic property of composite metal sealing ring to perform zero leakage.

Torque seal to ensure persistent two-way zero leakage.

The design of right-angled rotation with zero friction is implemented by the distinctive triple eccentric principle. It eliminates the friction between the seat and sealing ring in 90° rotation.

STL one-piece hard-surface seat may adapt to many working conditions, which is featured by long service life and easy maintenance.

One-piece cast (sheet welded) body, face-to-face dimensions conforming to ISO5752, ASME B16.10 and API609, replacement to high performance butterfly valves and other types of valves, easy and flexible installation.

Intrinsic fireproof property thanks to allmetal structure and leak-tight performance.

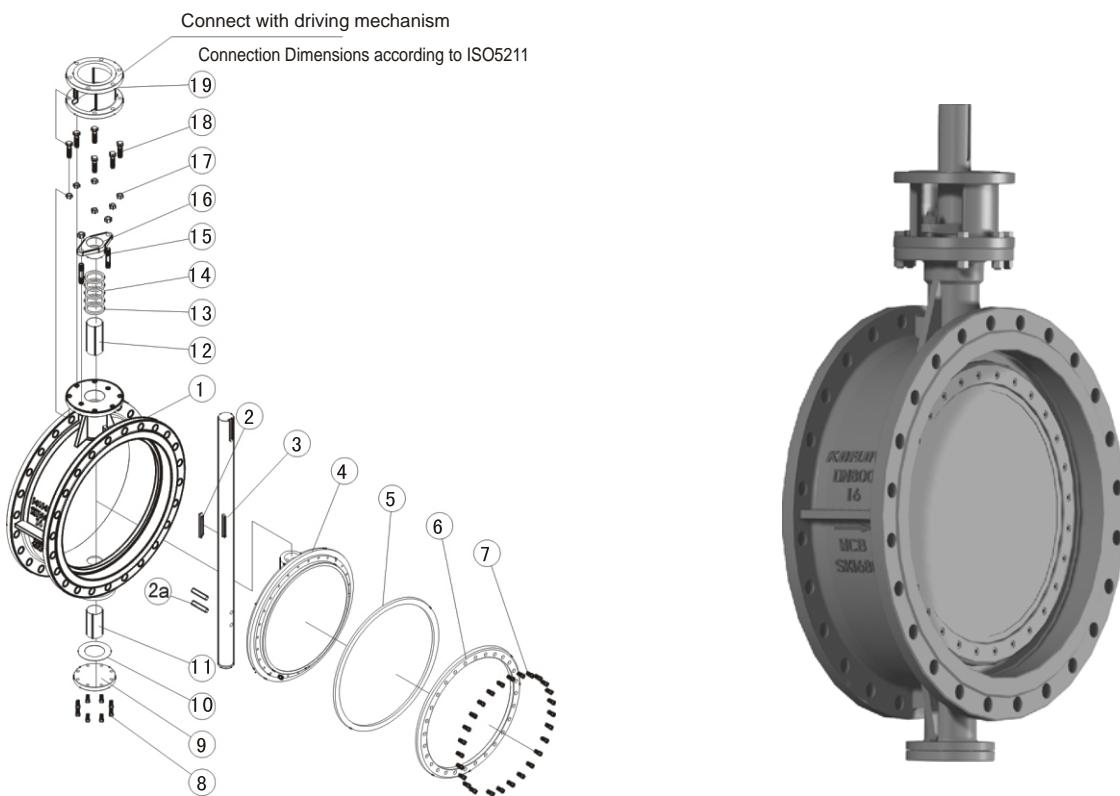
Anti-blowout stem for high dependability, completely conforming to API609.

The valve position indicator on the stem and the flange mounted at the top are in favor of the indication of disc position.

The stem of triple eccentric butterfly valve is a shaft, stem and disc are connected by key or pin-key combination.

TRIPLE OFFSET BUTTERFLY VALVE

Triple Offset Butterfly Valve Structural Drawing



Materials list(triple offset butterfly valve)

| No. | Part Name | Materials | Optional Materials |
|-----|-----------------|--------------|--------------------|
| 1 | Body | Cast Steel | SS, Monel |
| 2 | Key | SS | SS, Monel |
| 2a | Pin | SS | Monel |
| 3 | Stem | SS | 316, Monel |
| 4 | Disc | Cast Steel | SS, Monel |
| 5 | Seal Ring | PTFE+SS | SS+ Graphite |
| 6 | Retainer Flange | Carbon Steel | SS, Monel |
| 7 | Bolt | - | SS |
| 8 | Bolt | - | SS |
| 9 | Cover | Carbon Steel | SS, Monel |
| 10 | Gasket | Graphite | |
| 11 | Bushing | PTFE+Bronze | Lubricated Bronze |
| 12 | Bushing | PTFE+Bronze | Lubricated Bronze |
| 13 | Packing Seat | SS | SS, Monel |
| 14 | Packing | Graphite | PTFE |
| 15 | Bolt | - | SS |
| 16 | Packing Bushing | SS | SS |
| 17 | Nut | - | SS |
| 18 | Bolt | - | SS |
| 19 | Yoke | Carbon Steel | - |

Remarks: 1、Pressure and temperature rating of shell material referred to Appendix F.

2、Chemical composition and mechanical properties of shell material referred to Appendix G.

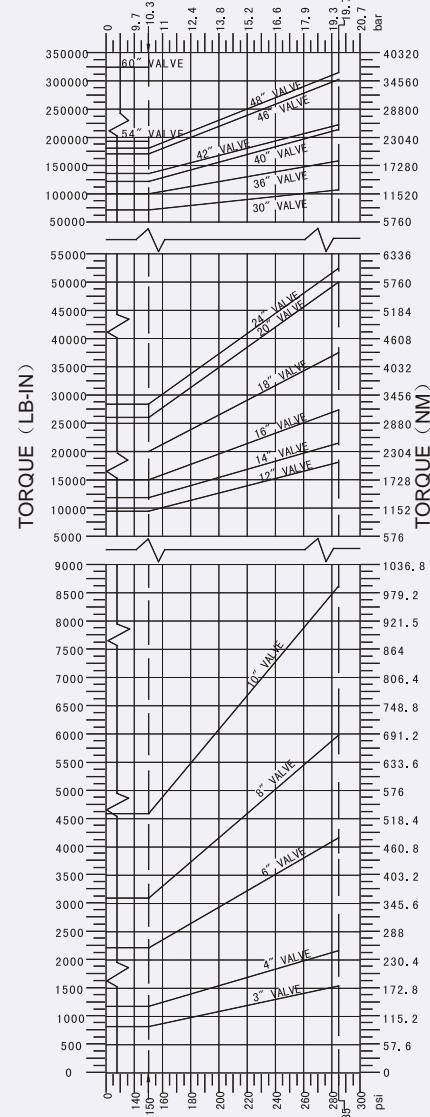
3、Rated temperature of valve seat referred to Appendix E.

Type of body connection:The connection between triple eccentric butterfly valve body and pipe can be double flanged, wafer and lug wafer.

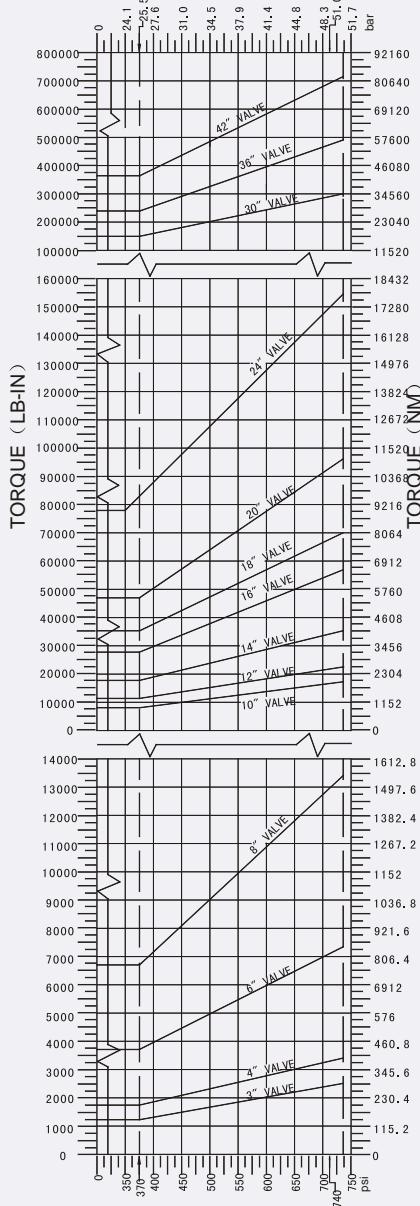
TRIPLE OFFSET BUTTERFLY VALVE

Reference Moment Diagram of Triple Eccentric Butterfly Valve

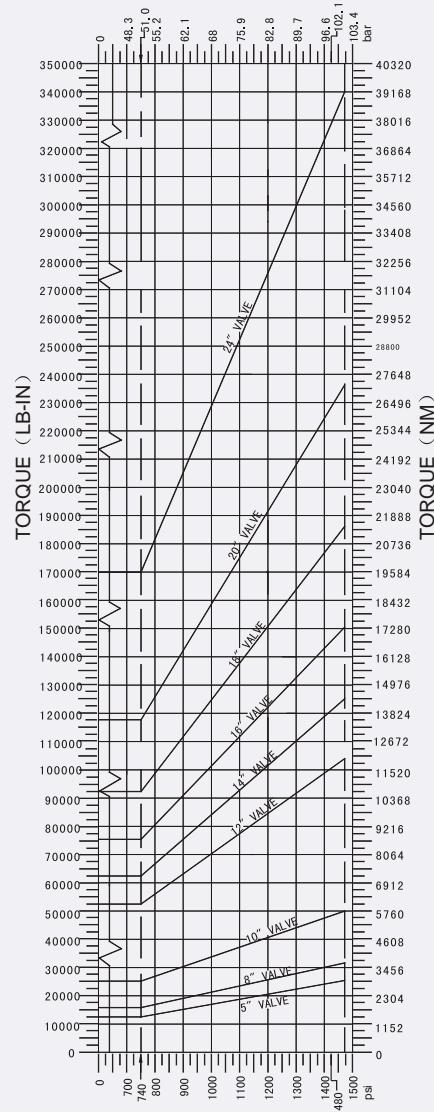
The following graphic torque is used for reference to choose the actuators of ANSI valves. According to the property of medium, trims and open-close frequency of valve shall be considered as extra factors.



CLASS 150



CLASS 300



CLASS 600

TRIPLE OFFSET BUTTERFLY VALVE
Triple Offset Butterfly Valve Torques (NM)

| Size (mm) | | Pressure | | | | | | | | | |
|-----------|--------|----------|----------|----------|----------|----------|----------|--------|--------|---------|--|
| DN | NPS | PN0.6MPa | PN1.0MPa | PN1.6MPa | PN2.5MPa | PN4.0MPa | PN6.3MPa | 285PSI | 740PSI | 1480PSI | |
| 50 | 2" | - | - | 37 | - | - | - | - | - | - | |
| 65 | 2-1/2" | 29 | 35 | 60 | 82 | 106 | 142 | 69 | 123 | 213 | |
| 80 | 3" | 34 | 57 | 81 | 102 | 148 | 290 | 174 | 271 | 460 | |
| 100 | 4" | 61 | 102 | 141 | 180 | 259 | 526 | 250 | 395 | 834 | |
| 125 | 5" | 104 | 165 | 228 | 289 | 412 | 641 | 283 | 548 | 979 | |
| 150 | 6" | 178 | 250 | 450 | 564 | 790 | 1060 | 473 | 825 | 2938 | |
| 200 | 8" | 201 | 400 | 601 | 800 | 1201 | 1567 | 674 | 1503 | 3616 | |
| 250 | 10" | 353 | 518 | 956 | 1250 | 1862 | 2697 | 983 | 1887 | 5649 | |
| 300 | 12" | 635 | 992 | 1352 | 1711 | 2428 | 3147 | 2022 | 2508 | 11863 | |
| 350 | 14" | 819 | 1623 | 2234 | 2844 | 4067 | 4855 | 2520 | 4158 | 14123 | |
| 400 | 16" | 1047 | 1944 | 2842 | 3738 | 5533 | 6473 | 3175 | 6271 | 17061 | |
| 450 | 18" | 1451 | 2451 | 3452 | 4412 | 6454 | - | 4239 | 7864 | 21015 | |
| 500 | 20" | 2043 | 3285 | 4527 | 5769 | 8253 | - | 5531 | 10361 | 26551 | |
| 600 | 24" | 2779 | 5548 | 6018 | 9495 | 13443 | - | 6011 | 17559 | 38415 | |
| 700 | 28" | - | - | 6890 | - | - | - | - | - | - | |
| 750 | 30" | 3230 | 6723 | 7700 | 16552 | - | - | 12654 | 33105 | - | |
| 800 | 32" | - | - | 8760 | - | - | - | - | - | - | |
| 900 | 36" | 5275 | 8474 | 9750 | 26438 | - | - | 18078 | 52877 | - | |
| 1000 | 40" | 6915 | 11717 | 13560 | - | - | - | 24179 | - | - | |
| 1050 | 42" | 8135 | 15253 | 16270 | 40110 | 34000 | - | 24857 | 80219 | - | |
| 1200 | 48" | 12540 | 20563 | 22360 | 38900 | 41900 | - | 36155 | - | - | |
| 1350 | 54" | 18300 | 21806 | 29977 | - | - | - | - | - | - | |
| 1400 | 56" | 24650 | - | 34900 | - | - | - | - | - | - | |
| 1500 | 60" | 26440 | 36155 | 43397 | - | - | - | - | - | - | |
| 1600 | 64" | 40850 | - | 48600 | - | - | - | - | - | - | |
| 1800 | 72" | - | - | - | - | - | - | - | - | - | |
| 2000 | 80" | - | - | - | - | - | - | - | - | - | |
| 2200 | 88" | - | - | - | - | - | - | - | - | - | |
| 2400 | 96" | - | - | - | - | - | - | - | - | - | |
| 2600 | 104" | - | - | - | - | - | - | - | - | - | |
| 2800 | 112" | - | - | - | - | - | - | - | - | - | |
| 3000 | 120" | - | - | - | - | - | - | - | - | - | |

TRIPLE OFFSET BUTTERFLY VALVE

Flow Coefficients(Cv Values)

Flow coefficient is an index to measure the flow capacity of valve. The more the flow coefficient is, the less the pressure loss upon fluid flowing through the valve. The values of flow coefficient differ from the sizes, types and structures of valves. Valves of different types and specifications should be separately tested to make certain of its value of flow coefficient. For valves of the same structure, the value of flow coefficient differs according to the directions of fluid through the valves. This difference is usually caused by the difference in pressure recovery.

The table below is the flow coefficient of double eccentric butterfly valve, used for reference to choose valve flow coefficient. Cv means the American gallons of +60° F (+16°C) water flowing through the valve per minute under 1 pound/inch² (0.006894757MPa) pressure drop.

Cv

| Diameter | NPS | 2" | 2-1/2" | 3" | 4" | 5" | 6" | 8" | 10" |
|----------|----------|-------|--------|-------|-------|-------|--------|-------|--------|
| | DN | 50 | 65 | 80 | 100 | 125 | 150 | 200 | 250 |
| Class | CLASS150 | 93 | 133 | 188 | 343 | 400 | 930 | 1812 | 2750 |
| | CLASS300 | 93 | 133 | 188 | 343 | 400 | 868 | 1678 | 2500 |
| | CLASS600 | 52 | 78 | 120 | 228 | 346 | 744 | 1450 | 2125 |
| | PN0.6 | 100 | 133 | 165 | 400 | 510 | 1050 | 2200 | 3300 |
| | PN1.0 | 100 | 133 | 165 | 400 | 510 | 1050 | 2200 | 3300 |
| | PN1.6 | 100 | 133 | 165 | 400 | 510 | 1050 | 2200 | 3300 |
| | PN2.5 | 93 | 133 | 120 | 230 | 400 | 660 | 1500 | 2400 |
| | PN4.0 | 93 | 133 | 120 | 230 | 400 | 660 | 1500 | 2400 |
| | PN6.3 | 52 | 78 | 120 | 230 | 400 | 660 | 1500 | 2400 |
| Diameter | NPS | 12" | 14" | 16" | 18" | 20" | 24" | 28" | 30" |
| | DN | 300 | 350 | 400 | 450 | 500 | 600 | 700 | 750 |
| Class | CLASS150 | 3900 | 5515 | 8440 | 11285 | 14092 | 20587 | - | 33700 |
| | CLASS300 | 3510 | 4942 | 7596 | 10394 | 12965 | 18962 | - | 29600 |
| | CLASS600 | 2730 | 4217 | 6487 | 8874 | 11071 | 16188 | - | - |
| | PN0.6 | 5100 | 5800 | 9287 | 11400 | 14000 | 21600 | 30000 | 34000 |
| | PN1.0 | 5100 | 5800 | 9287 | 11400 | 14000 | 21600 | 30000 | 34000 |
| | PN1.6 | 5100 | 5800 | 9287 | 11400 | 14000 | 21600 | 30000 | 34000 |
| | PN2.5 | 3600 | 5500 | 7600 | 10300 | 13000 | 20200 | - | 28245 |
| | PN4.0 | 3600 | 5500 | 7600 | 10300 | 13000 | 20200 | - | 28245 |
| | PN6.3 | 3600 | 5500 | 7600 | 10300 | 13000 | 20200 | - | 28245 |
| Diameter | NPS | 32" | 36" | 40" | 42" | 48" | 54" | 56" | 60" |
| | DN | 800 | 900 | 1000 | 1050 | 1200 | 1350 | 1400 | 1500 |
| Class | CLASS150 | - | 50470 | 64000 | 71100 | 95740 | 120750 | - | 147000 |
| | CLASS300 | - | 42700 | - | 58100 | - | - | - | - |
| | CLASS600 | - | - | - | - | - | - | - | - |
| | PN0.6 | 41000 | 55500 | 8000 | - | - | - | - | - |
| | PN1.0 | 41000 | 55500 | 8000 | - | - | - | - | - |
| | PN1.6 | 41000 | 55500 | 8000 | - | - | - | - | - |
| | PN2.5 | - | 47160 | - | 64190 | 83840 | - | - | - |
| | PN4.0 | - | 47160 | - | 64190 | 83840 | - | - | - |
| | PN6.3 | - | 47160 | - | 64190 | 83840 | - | - | - |

For sizes and classes not shown, please contact our Sales Department

TRIPLE OFFSET BUTTERFLY VALVE

Triple Offset Butterfly Valve Product Line

| Size (mm) | | Pressure | | | | | | | | |
|-----------|--------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| DN | NPS | PN0.6MPa | PN1.0MPa | PN1.6MPa | PN2.5MPa | PN4.0MPa | PN6.3MPa | CLASS150 | CLASS300 | CLASS600 |
| 50 | 2" | △/★/☆ | △/★/☆ | △/★/☆ | △/★/☆ | △/★/☆ | △/★/☆ | △/★/☆ | △/★/☆ | △/★/☆ |
| 65 | 2-1/2" | △/★/☆ | △/★/☆ | △/★/☆ | △/★/☆ | △/★/☆ | △/★/☆ | △/★/☆ | △/★/☆ | △/★/☆ |
| 80 | 3" | △/★/☆ | △/★/☆ | △/★/☆ | △/★/☆ | △/★/☆ | △/★/☆ | △/★/☆ | △/★/☆ | △/★/☆ |
| 100 | 4" | △/★/☆ | △/★/☆ | △/★/☆ | △/★/☆ | △/★/☆ | △/★/☆ | △/★/☆ | △/★/☆ | △/★/☆ |
| 125 | 5" | △/★/☆ | △/★/☆ | △/★/☆ | △/★/☆ | △/★/☆ | △/★/☆ | △/★/☆ | △/★/☆ | △/★/☆ |
| 150 | 6" | △/★/☆ | △/★/☆ | △/★/☆ | △/★/☆ | △/★/☆ | △/★/☆ | △/★/☆ | △/★/☆ | △/★/☆ |
| 200 | 8" | △/★/☆ | △/★/☆ | △/★/☆ | △/★/☆ | △/★/☆ | △/★/☆ | △/★/☆ | △/★/☆ | △/★/☆ |
| 250 | 10" | △/★/☆ | △/★/☆ | △/★/☆ | △/★/☆ | △/★/☆ | △/★/☆ | △/★/☆ | △/★/☆ | △/★/☆ |
| 300 | 12" | △/★/☆ | △/★/☆ | △/★/☆ | △/★/☆ | △/★/☆ | △/★/☆ | △/★/☆ | △/★/☆ | △/★/☆ |
| 350 | 14" | △/★/☆ | △/★/☆ | △/★/☆ | △/★/☆ | △/★/☆ | △/★/☆ | △/★/☆ | △/★/☆ | △/★/☆ |
| 400 | 16" | △/★/☆ | △/★/☆ | △/★/☆ | △/★/☆ | △/★/☆ | △/★/☆ | △/★/☆ | △/★/☆ | △/★/☆ |
| 450 | 18" | △/★/☆ | △/★/☆ | △/★/☆ | △/★/☆ | △/★/☆ | △/★/☆ | △/★/☆ | △/★/☆ | △/★/☆ |
| 500 | 20" | △/★/☆ | △/★/☆ | △/★/☆ | △/★/☆ | △/★/☆ | △/★/☆ | △/★/☆ | △/★/☆ | △/★/☆ |
| 600 | 24" | △/★/☆ | △/★/☆ | △/★/☆ | △/★/☆ | △/★/☆ | △/★/☆ | △/★/☆ | △/★/☆ | △/★/☆ |
| 700 | 28" | △/★/☆ | △/★/☆ | △/★/☆ | △/★/☆ | / | / | △/★/☆ | / | / |
| 750 | 30" | △/★/☆ | △/★/☆ | △/★/☆ | △/★/☆ | / | / | △/★/☆ | / | / |
| 800 | 32" | △/★/☆ | △/★/☆ | △/★/☆ | △/★/☆ | / | / | △/★/☆ | / | / |
| 900 | 36" | △/★/☆ | △/★/☆ | △/★/☆ | △/★/☆ | / | / | △/★/☆ | / | / |
| 1000 | 40" | △/★/☆ | △/★/☆ | △/★/☆ | △/★/☆ | / | / | △/★/☆ | / | / |
| 1050 | 42" | △/★/☆ | △/★/☆ | △/★/☆ | △/★/☆ | / | / | △/★/☆ | / | / |
| 1200 | 48" | △/★/☆ | △/★/☆ | △/★/☆ | △/★/☆ | / | / | △/★/☆ | / | / |
| 1400 | 56" | △/★/☆ | △/★/☆ | △/★/☆ | △/★/☆ | / | / | △/★/☆ | / | / |
| 1500 | 60" | △/★/☆ | △/★/☆ | △/★/☆ | △/★/☆ | / | / | / | / | / |
| 1600 | 64" | △/★/☆ | △/★/☆ | △/★/☆ | / | / | / | / | / | / |
| 1800 | 72" | △/★/☆ | △/★/☆ | △/★/☆ | / | / | / | / | / | / |
| 2000 | 80" | △/★/☆ | △/★/☆ | △/★/☆ | / | / | / | / | / | / |
| 2200 | 88" | △/★/☆ | / | / | / | / | / | / | / | / |
| 2400 | 96" | △/★/☆ | / | / | / | / | / | / | / | / |
| 2600 | 104" | △/★/☆ | / | / | / | / | / | / | / | / |
| 2800 | 112" | △/★/☆ | / | / | / | / | / | / | / | / |
| 3000 | 120" | △/★/☆ | / | / | / | / | / | / | / | / |

Note: ● stands for handle operated valves; ☆ stands for gear box operated valves;

△ stands for air operated valves; ★ stands for electrically operated valves;

/ stands for no option of this.

Those not covered in the table can be custom made to users' requirements.

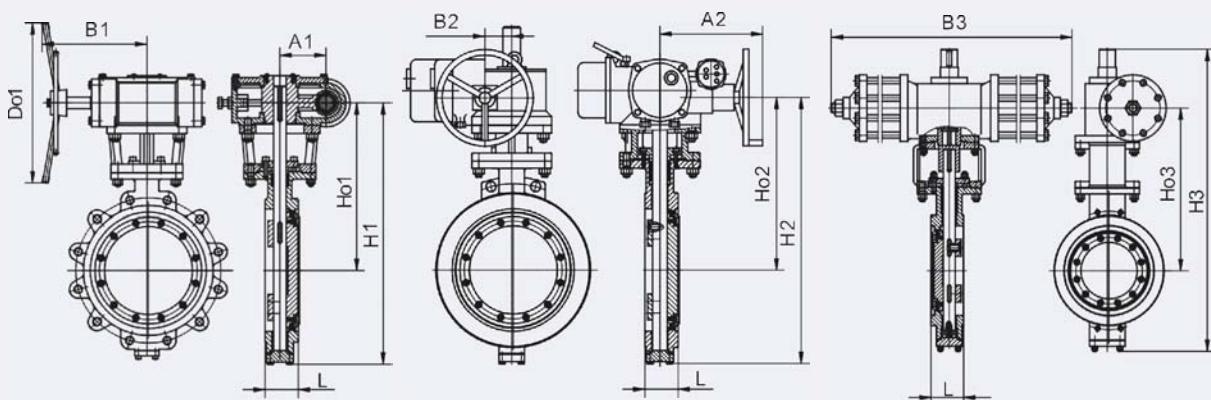
Technical Specification

| | | | | | | | | | | | | | | | | | |
|-----------------------------|-------------------------|--|--|-----|------|------|-----|------------------------------|----------|----------|--|--|--|--|--|--|--|
| Design Standard | | | GB/T12238 | | | | | API609 | | | | | | | | | |
| Pressure-Temperature Rating | | | GB/T12224 | | | | | API609, ASME B16.34 | | | | | | | | | |
| Face-Face | | | GB/T12221 | | | | | API609, ISO5752, ASME B16.10 | | | | | | | | | |
| Flange Ends | | | GB/T9113、JB/T79 | | | | | ASME B16.5\B16.47 | | | | | | | | | |
| Inspection & Test | | | JB/T9092、GB/T13927 | | | | | API598 | | | | | | | | | |
| Nominal Pressure(MPa) | | | 1.0 | 1.6 | 2.5 | 4.0 | 6.3 | CLASS150 | CLASS300 | CLASS600 | | | | | | | |
| Test Pressure | Shell Test | | | 1.5 | 2.4 | 3.75 | 6.0 | 9.45 | 2.93 | 7.58 | | | | | | | |
| | High Pressure Seal Test | | | 1.1 | 1.76 | 2.75 | 4.4 | 6.93 | 2.07 | 5.52 | | | | | | | |
| | Low Pressure Seal Test | | | 0.6 | | | | | 0.6 | | | | | | | | |
| Applicable Temperature | | | Different raw material for different work temperature | | | | | | | | | | | | | | |
| Applicable Medium | | | Water, oil, gas and other causticity medium(Different raw material for different medium) | | | | | | | | | | | | | | |

Note: the experimental value of pressure in the table is subject to the pressure and temperature rating of WCB.

TRIPLE OFFSET BUTTERFLY VALVE

Wafer Type PN 0.6~1.0MPa



Worm Gear Lug Wafer Butterfly Valve

Electric Driven Wafer Butterfly Valve

Pneumatic Driven Wafer Butterfly Valve

Main Outline Dimensions

PN 0.6MPa mm

| DN | L | | Pneumatic | | | Gear | | | | | Eiectric | | | | Weight(kg) | |
|------|---------|---------|-----------|------|-----|------|------|-----|-----|-----|----------|------|-----|-----|------------|------|
| | Series1 | Series2 | H3 | Ho3 | B3 | H1 | Ho1 | B1 | A1 | Do1 | H2 | Ho2 | B2 | A2 | WF | WL |
| 50 | 43 | 43 | - | - | - | 266 | 143 | 106 | 50 | 160 | - | - | - | - | 4.5 | 5.5 |
| 65 | 46 | 46 | - | - | - | 290 | 178 | 140 | 63 | 180 | - | - | - | - | 5 | 7 |
| 80 | 49 | 64 | - | - | - | 320 | 185 | 140 | 63 | 180 | 320 | 185 | 178 | 180 | 9 | 9 |
| 100 | 56 | 64 | - | - | - | 342 | 193 | 140 | 63 | 240 | 340 | 198 | 178 | 180 | 11 | 14 |
| 125 | 64 | 70 | - | - | - | 378 | 219 | 140 | 63 | 240 | 340 | 205 | 178 | 180 | - | - |
| 150 | 70 | 76 | - | - | - | 415 | 246 | 140 | 63 | 240 | 415 | 241 | 178 | 180 | 17 | 20 |
| 200 | 71 | 89 | 695 | 325 | 275 | 470 | 298 | 170 | 84 | 300 | 512 | 263 | 235 | 370 | 25 | 31 |
| 250 | 76 | 114 | 750 | 355 | 275 | 535 | 328 | 170 | 84 | 300 | 570 | 292 | 235 | 370 | 40 | 48 |
| 300 | 83 | 114 | 935 | 475 | 378 | 606 | 365 | 200 | 108 | 400 | 668 | 340 | 235 | 370 | 61 | 79 |
| 350 | 92 | 127 | 1000 | 510 | 378 | 695 | 408 | 200 | 108 | 400 | 745 | 385 | 235 | 370 | 82 | 107 |
| 400 | 102 | 140 | 1145 | 590 | 378 | 755 | 446 | 240 | 128 | 400 | 827 | 425 | 235 | 370 | 122 | 150 |
| 450 | 114 | 152 | 1205 | 632 | 530 | 815 | 475 | 330 | 152 | 600 | 915 | 462 | 235 | 370 | 150 | 183 |
| 500 | 127 | 152 | 1256 | 665 | 530 | 905 | 525 | 370 | 168 | 600 | 995 | 500 | 235 | 370 | 204 | 254 |
| 600 | 154 | 178 | 1526 | 830 | 530 | 1050 | 610 | 370 | 320 | 600 | 1183 | 605 | 245 | 515 | 300 | 398 |
| 700 | 165 | 229 | 1640 | 903 | 530 | 1276 | 795 | 515 | 237 | 800 | 1460 | 734 | 245 | 515 | 462 | - |
| 800 | 190 | 241 | 1786 | 972 | 680 | 1384 | 837 | 515 | 237 | 800 | 1589 | 803 | 245 | 515 | 570 | - |
| 900 | 203 | 241 | 1917 | 1052 | 680 | 1500 | 885 | 515 | 237 | 800 | 1856 | 990 | 360 | 540 | 762 | 771 |
| 1000 | 216 | 300 | 2600 | 1170 | 680 | 1620 | 946 | 570 | 785 | 600 | 1958 | 1050 | 360 | 540 | 975 | 1179 |
| 1200 | 254 | 360 | - | - | - | 2185 | 1165 | 570 | 785 | 600 | 2013 | 1165 | 360 | 540 | 1678 | 1927 |

PN 1.0MPa mm

| DN | L | | Pneumatic | | | Gear | | | | | Eiectric | | | | Weight(kg) | |
|------|---------|---------|-----------|------|-----|------|------|-----|-----|-----|----------|------|-----|-----|------------|------|
| | Series1 | Series2 | H3 | Ho3 | B3 | H1 | Ho1 | B1 | A1 | Do1 | H2 | Ho2 | B2 | A2 | WF | WL |
| 50 | 43 | 43 | - | - | - | 266 | 143 | 106 | 50 | 160 | - | - | - | - | 4.5 | 5.5 |
| 65 | 46 | 46 | - | - | - | 290 | 178 | 140 | 63 | 180 | - | - | - | - | 5 | 7 |
| 80 | 49 | 64 | - | - | - | 320 | 185 | 140 | 63 | 180 | 320 | 185 | 178 | 180 | 9 | 9 |
| 100 | 56 | 64 | - | - | - | 342 | 193 | 140 | 63 | 240 | 340 | 198 | 178 | 180 | 11 | 14 |
| 125 | 64 | 70 | - | - | - | 378 | 219 | 140 | 63 | 240 | 340 | 205 | 178 | 180 | - | - |
| 150 | 70 | 76 | - | - | - | 415 | 245 | 140 | 63 | 240 | 415 | 241 | 178 | 180 | 17 | 20 |
| 200 | 71 | 89 | 695 | 325 | 275 | 470 | 298 | 170 | 84 | 300 | 512 | 263 | 235 | 370 | 25 | 31 |
| 250 | 76 | 114 | 750 | 355 | 275 | 535 | 328 | 170 | 84 | 300 | 570 | 292 | 235 | 370 | 40 | 48 |
| 300 | 83 | 114 | 935 | 475 | 378 | 606 | 365 | 200 | 108 | 400 | 668 | 340 | 235 | 370 | 61 | 79 |
| 350 | 92 | 127 | 1000 | 510 | 378 | 695 | 408 | 200 | 108 | 400 | 745 | 385 | 235 | 370 | 82 | 107 |
| 400 | 102 | 140 | 1145 | 590 | 378 | 755 | 446 | 330 | 144 | 400 | 827 | 425 | 235 | 370 | 122 | 150 |
| 450 | 114 | 152 | 1205 | 632 | 530 | 815 | 475 | 330 | 144 | 600 | 915 | 462 | 235 | 370 | 150 | 183 |
| 500 | 127 | 152 | 1256 | 665 | 530 | 905 | 525 | 370 | 220 | 600 | 995 | 500 | 235 | 370 | 204 | 254 |
| 600 | 154 | 178 | 1526 | 830 | 530 | 1050 | 610 | 370 | 220 | 600 | 1183 | 605 | 245 | 515 | 300 | 398 |
| 700 | 165 | 229 | 1640 | 903 | 530 | 1276 | 795 | 515 | 279 | 800 | 1460 | 734 | 245 | 515 | 462 | - |
| 800 | 190 | 241 | 1786 | 972 | 680 | 1384 | 837 | 515 | 279 | 800 | 1589 | 803 | 245 | 515 | 570 | - |
| 900 | 203 | 241 | 1917 | 1052 | 680 | 1505 | 885 | 515 | 279 | 800 | 1856 | 990 | 360 | 540 | 762 | 771 |
| 1000 | 216 | 300 | 2600 | 1170 | 680 | 1620 | 946 | 570 | 368 | 600 | 1958 | 1050 | 360 | 540 | 975 | 1179 |
| 1200 | 254 | 360 | - | - | - | 2185 | 1165 | 570 | 378 | 600 | 2013 | 1165 | 360 | 540 | 1678 | 1927 |

TRIPLE OFFSET BUTTERFLY VALVE

Wafer Type PN 1.6~2.5MPa

Main Outline Dimensions

PN 1.6MPa mm

| DN | L | | Pneumatic | | | Gear | | | | | Eiectric | | | | Weight(kg) | |
|------|---------|---------|-----------|-----|-----|------|------|-----|-----|-----|----------|------|-----|-----|------------|------|
| | Series1 | Series2 | H3 | Ho3 | B3 | H1 | Ho1 | B1 | A1 | Do1 | H2 | Ho2 | B2 | A2 | WF | WL |
| 50 | 43 | 43 | - | - | - | 266 | 143 | 160 | 106 | 50 | - | - | - | - | 4.5 | 5.5 |
| 65 | 46 | 46 | - | - | - | 290 | 175 | 160 | 140 | 63 | - | - | - | - | 7 | 7 |
| 80 | 49 | 64 | - | - | - | 320 | 185 | 160 | 140 | 63 | 513 | 265 | 178 | 180 | 9 | 9 |
| 100 | 56 | 64 | - | - | - | 342 | 195 | 160 | 140 | 63 | 538 | 282 | 178 | 180 | 20 | 11.5 |
| 125 | 64 | 70 | - | - | - | 365 | 209 | 300 | 140 | 63 | 560 | 295 | 178 | 180 | 23 | 17 |
| 150 | 70 | 76 | - | - | - | 415 | 243 | 300 | 140 | 63 | 605 | 300 | 178 | 180 | 29 | 22 |
| 200 | 71 | 89 | 695 | 327 | 275 | 510 | 263 | 400 | 150 | 84 | 749 | 321 | 235 | 370 | 40 | 39 |
| 250 | 76 | 114 | 750 | 355 | 275 | 567 | 295 | 400 | 150 | 84 | 803 | 330 | 235 | 370 | 50 | 47 |
| 300 | 83 | 114 | 955 | 472 | 378 | 665 | 342 | 600 | 200 | 108 | 880 | 365 | 235 | 370 | 68 | 68 |
| 350 | 92 | 127 | 1033 | 515 | 378 | 739 | 385 | 600 | 200 | 108 | 960 | 410 | 235 | 370 | 105 | 138 |
| 400 | 102 | 140 | 1185 | 595 | 530 | 825 | 430 | 600 | 240 | 152 | 1032 | 445 | 235 | 370 | 163 | 190 |
| 450 | 114 | 152 | 1270 | 632 | 530 | 910 | 469 | 330 | 144 | 600 | 1118 | 487 | 235 | 370 | 205 | 230 |
| 500 | 127 | 152 | 1335 | 665 | 530 | 990 | 500 | 370 | 220 | 600 | 1190 | 520 | 235 | 370 | 270 | 265 |
| 600 | 154 | 178 | 1642 | 829 | 680 | 1210 | 618 | 370 | 220 | 600 | 1380 | 625 | 235 | 370 | 390 | 437 |
| 700 | 165 | 229 | 1785 | 905 | 680 | 1475 | 746 | 515 | 279 | 800 | 1582 | 745 | 245 | 515 | 465 | 740 |
| 800 | 190 | 241 | 1915 | 970 | 680 | 1600 | 810 | 515 | 279 | 800 | 1713 | 810 | 245 | 515 | 570 | 920 |
| 900 | 203 | 241 | - | - | - | 1870 | 1000 | 515 | 279 | 800 | 1870 | 875 | 360 | 540 | 701 | 1189 |
| 1000 | 216 | 300 | - | - | - | 2000 | 1065 | 570 | 368 | 600 | 2000 | 940 | 360 | 540 | 800 | 1220 |
| 1200 | 254 | 360 | - | - | - | 2215 | 1170 | 570 | 378 | 600 | 2118 | 1060 | 360 | 540 | 922 | 1680 |

PN 2.5MPa mm

| DN | L | | Pneumatic | | | Gear | | | | | Eiectric | | | | Weight(kg) | |
|------|---------|---------|-----------|-----|-----|------|------|-----|-----|-----|----------|------|-----|-----|------------|------|
| | Series1 | Series2 | H3 | Ho3 | B3 | H1 | Ho1 | B1 | A1 | Do1 | H2 | Ho2 | B2 | A2 | WF | WL |
| 50 | 43 | 43 | - | - | - | 266 | 143 | 106 | 50 | 160 | - | - | - | - | 6.3 | 6.3 |
| 65 | 46 | 46 | - | - | - | 290 | 175 | 140 | 63 | 160 | - | - | - | - | 9 | 9.2 |
| 80 | 49 | 64 | - | - | - | 513 | 265 | 63 | 140 | 160 | 552 | 265 | 178 | 180 | 11 | 11. |
| 100 | 56 | 64 | - | - | - | 538 | 282 | 63 | 140 | 300 | 585 | 290 | 178 | 180 | 25 | 15 |
| 125 | 64 | 70 | - | - | - | 560 | 295 | 63 | 140 | 300 | 610 | 305 | 178 | 180 | 33 | 17 |
| 150 | 70 | 76 | - | - | - | 605 | 300 | 63 | 140 | 400 | 765 | 315 | 178 | 180 | 47 | 22 |
| 200 | 71 | 89 | 695 | 327 | 275 | 749 | 321 | 84 | 150 | 400 | 820 | 304 | 235 | 370 | 52 | 39 |
| 250 | 76 | 114 | 750 | 355 | 275 | 803 | 330 | 84 | 150 | 600 | 910 | 336 | 235 | 370 | 65 | 47 |
| 300 | 83 | 114 | 955 | 472 | 378 | 880 | 365 | 108 | 200 | 600 | 1000 | 386 | 235 | 370 | 68 | 123 |
| 350 | 92 | 127 | 1033 | 515 | 378 | 960 | 410 | 108 | 240 | 600 | 1055 | 425 | 235 | 370 | 138 | 190 |
| 400 | 102 | 140 | 1185 | 595 | 530 | 1032 | 445 | 128 | 240 | 800 | 1108 | 456 | 235 | 370 | 190 | 230 |
| 450 | 114 | 152 | 1270 | 632 | 530 | 1118 | 487 | 330 | 144 | 600 | 1140 | 490 | 235 | 370 | 230 | 265 |
| 500 | 127 | 152 | 1335 | 665 | 530 | 1190 | 520 | 370 | 220 | 600 | 1238 | 552 | 235 | 370 | 265 | 390 |
| 600 | 154 | 178 | 1642 | 829 | 680 | 1380 | 625 | 370 | 220 | 600 | 1399 | 635 | 245 | 515 | 437 | 465 |
| 700 | 165 | 229 | 1785 | 905 | 680 | 1582 | 745 | 515 | 279 | 800 | 1611 | 750 | 360 | 540 | 570 | 740 |
| 800 | 190 | 241 | 1915 | 970 | 680 | 1713 | 810 | 515 | 279 | 800 | 1782 | 820 | 360 | 540 | 705 | 920 |
| 900 | 203 | 241 | - | - | - | 1870 | 875 | 515 | 279 | 800 | 1915 | 886 | 385 | 565 | 730 | 1189 |
| 1000 | 216 | 300 | - | - | - | 2000 | 940 | 570 | 368 | 600 | 2040 | 945 | 385 | 565 | 927 | 1220 |
| 1200 | 254 | 360 | - | - | - | 2118 | 1060 | 570 | 378 | 600 | 2184 | 1053 | 400 | 770 | 953 | 1680 |

TRIPLE OFFSET BUTTERFLY VALVE

Wafer Type PN 4.0~10.0MPa

Main Outline Dimensions

PN 4.0MPa mm

| DN | L | | Pneumatic | | | Gear | | | | | Eiectric | | | | Weight(kg) | |
|-----|---------|---------|-----------|-----|-----|------|-----|-----|-----|-----|----------|-----|-----|-----|------------|------|
| | Series1 | Series2 | H3 | Ho3 | B3 | H1 | Ho1 | B1 | A1 | Do1 | H2 | Ho2 | B2 | A2 | WF | WL |
| 80 | 49 | 64 | - | - | - | 395 | 245 | 143 | 80 | 300 | 530 | 240 | 178 | 180 | 11 | 11.5 |
| 100 | 56 | 64 | - | - | - | 356 | 205 | 200 | 108 | 400 | 555 | 205 | 178 | 180 | 25 | 29 |
| 125 | 64 | 70 | - | - | - | 375 | 213 | 200 | 108 | 400 | 582 | 215 | 178 | 180 | 33 | 38 |
| 150 | 70 | 76 | - | - | - | 439 | 260 | 200 | 108 | 600 | 609 | 260 | 235 | 370 | 47 | 51 |
| 200 | 71 | 89 | 750 | 375 | 275 | 520 | 275 | 330 | 140 | 600 | 755 | 275 | 235 | 370 | 55 | 67 |
| 250 | 76 | 114 | 905 | 445 | 378 | 600 | 315 | 330 | 140 | 600 | 818 | 315 | 235 | 370 | 70 | 70 |
| 300 | 83 | 114 | 1085 | 538 | 503 | 692 | 365 | 370 | 220 | 800 | 912 | 363 | 245 | 515 | 135 | 142 |
| 350 | 92 | 127 | 1160 | 576 | 503 | 776 | 408 | 370 | 220 | 800 | 983 | 406 | 245 | 515 | 203 | 227 |
| 400 | 102 | 140 | 1230 | 609 | 503 | 864 | 443 | 370 | 220 | 800 | 1058 | 440 | 245 | 515 | 245 | 268 |
| 450 | 114 | 152 | 1520 | 765 | 680 | 1128 | 525 | 512 | 279 | 400 | 1135 | 545 | 360 | 540 | 283 | 333 |
| 500 | 127 | 152 | 1335 | 665 | 530 | 1257 | 664 | 512 | 279 | 400 | 1245 | 600 | 360 | 540 | 405 | 520 |
| 600 | 154 | 178 | - | - | - | 1380 | 625 | 512 | 279 | 400 | 1414 | 663 | 360 | 540 | 591 | 645 |
| 700 | 165 | 229 | - | - | - | 1435 | 712 | 570 | 368 | 600 | - | - | - | - | 723 | 785 |
| 800 | 190 | 241 | - | - | - | 1518 | 782 | 570 | 368 | 600 | - | - | - | - | 846 | 935 |

PN 6.3MPa mm

| DN | L | | Gear | | | | | Eiectric | | | | Weight(kg) | | |
|-----|---------|---------|------|-----|-----|-----|-----|----------|-----|-----|-----|------------|------|--|
| | Series1 | Series2 | H1 | Ho1 | B1 | A1 | Do1 | H2 | Ho2 | B2 | A2 | WF | WL | |
| 80 | 49 | 64 | 388 | 192 | 63 | 140 | 400 | 543 | 242 | 178 | 180 | 11 | 11.5 | |
| 100 | 56 | 64 | 395 | 205 | 63 | 140 | 400 | 578 | 204 | 178 | 180 | 25 | 29 | |
| 125 | 64 | 70 | 420 | 225 | 84 | 150 | 600 | 607 | 214 | 178 | 180 | 33 | 38 | |
| 150 | 70 | 76 | 498 | 265 | 108 | 200 | 600 | 659 | 259 | 235 | 370 | 47 | 56 | |
| 200 | 71 | 89 | 540 | 292 | 152 | 240 | 600 | 795 | 285 | 235 | 370 | 70 | 94 | |
| 250 | 76 | 114 | 638 | 328 | 168 | 300 | 800 | 885 | 325 | 235 | 370 | 103 | 141 | |
| 300 | 83 | 114 | 725 | 372 | 192 | 320 | 800 | 1050 | 375 | 245 | 515 | 149 | 201 | |
| 350 | 92 | 127 | 800 | 418 | 237 | 168 | 800 | 825 | 415 | 245 | 515 | 243 | 333 | |
| 400 | 102 | 140 | 890 | 450 | 237 | 168 | 400 | 1205 | 452 | 245 | 515 | 318 | 401 | |
| 450 | 114 | 152 | 1024 | 542 | 237 | 168 | 400 | 1335 | 545 | 360 | 540 | 431 | 575 | |
| 500 | 127 | 152 | 1158 | 624 | 237 | 168 | 400 | 1470 | 625 | 360 | 540 | 472 | 708 | |
| 600 | 154 | 178 | 1580 | 678 | 237 | 168 | 400 | 1582 | 675 | 360 | 540 | 825 | 1061 | |

PN 10.0MPa mm

| DN | L | | Gear | | | | | Eiectric | | | | Weight(kg) | |
|-----|-----|-----|------|-----|-----|-----|-----|----------|-----|-----|-----|------------|------|
| | 系列1 | 系列2 | H1 | Ho1 | B1 | A1 | Do1 | H2 | Ho2 | B2 | A2 | WF | WL |
| 80 | 49 | 64 | 388 | 192 | 63 | 140 | 400 | 608 | 108 | 178 | 180 | 11 | 11.5 |
| 100 | 56 | 64 | 395 | 205 | 63 | 140 | 400 | 648 | 108 | 178 | 180 | 25 | 29 |
| 125 | 64 | 70 | 420 | 225 | 84 | 150 | 600 | 692 | 120 | 178 | 180 | 33 | 38 |
| 150 | 70 | 76 | 498 | 265 | 108 | 200 | 600 | 740 | 135 | 235 | 370 | 47 | 56 |
| 200 | 71 | 89 | 540 | 292 | 152 | 240 | 600 | 1058 | 445 | 235 | 370 | 70 | 94 |
| 250 | 76 | 114 | 638 | 328 | 168 | 300 | 800 | 1175 | 536 | 235 | 370 | 103 | 141 |
| 300 | 83 | 114 | 725 | 372 | 192 | 320 | 800 | 1390 | 615 | 245 | 515 | 149 | 201 |
| 350 | 92 | 127 | 800 | 418 | 237 | 168 | 800 | 1475 | 675 | 245 | 515 | 243 | 333 |
| 400 | 102 | 140 | 890 | 450 | 237 | 168 | 400 | 1705 | 820 | 245 | 515 | 318 | 401 |
| 450 | 114 | 152 | 1024 | 542 | 237 | 168 | 400 | 1765 | 886 | 360 | 540 | 431 | 575 |
| 500 | 127 | 152 | 1158 | 624 | 237 | 168 | 400 | 1806 | 946 | 360 | 540 | 472 | 708 |
| 600 | 154 | 178 | 1580 | 678 | 237 | 168 | 400 | 1918 | 998 | 360 | 540 | 825 | 1061 |

Note: the weight in the table is that without drive unit. WF is wafer butterfly valve, and WL is lug wafer butterfly valve.

TRIPLE OFFSET BUTTERFLY VALVE

Wafer Type CLASS 150 ~600

Main Outline Dimensions

CLASS 150 mm

| NPS | L | Gear | | | Eiectric | | | | | Pneumatic | | | | Weight(kg) | |
|-----|-----|------|------|------|----------|------|-----|-----|-----|-----------|------|-----|-----|------------|------|
| | | H3 | Ho3 | B3 | H1 | Ho1 | B1 | A1 | Do1 | H2 | Ho2 | B2 | A2 | WF | WL |
| 3" | 49 | - | - | - | 320 | 185 | 140 | 63 | 160 | 513 | 263 | 178 | 180 | 9 | 9 |
| 4" | 54 | - | - | - | 342 | 195 | 140 | 63 | 160 | 535 | 282 | 178 | 180 | 11 | 14 |
| 5" | 57 | - | - | - | 365 | 209 | 140 | 63 | 300 | 563 | 293 | 178 | 180 | 15 | 18 |
| 6" | 58 | - | - | - | 415 | 243 | 140 | 63 | 300 | 602 | 322 | 178 | 180 | 17 | 20 |
| 8" | 64 | 690 | 323 | 275 | 510 | 263 | 150 | 84 | 400 | 745 | 296 | 235 | 370 | 25 | 31 |
| 10" | 71 | 750 | 355 | 275 | 567 | 295 | 150 | 84 | 400 | 805 | 325 | 235 | 370 | 40 | 49 |
| 12" | 81 | 955 | 475 | 378 | 665 | 342 | 200 | 108 | 600 | 883 | 365 | 235 | 370 | 61 | 79 |
| 14" | 92 | 1032 | 513 | 378 | 739 | 385 | 200 | 108 | 600 | 965 | 408 | 235 | 370 | 82 | 107 |
| 16" | 102 | 1182 | 598 | 530 | 825 | 430 | 240 | 152 | 600 | 1033 | 443 | 235 | 370 | 123 | 150 |
| 18" | 114 | 1265 | 635 | 530 | 910 | 469 | 240 | 152 | 800 | 1120 | 485 | 235 | 370 | 150 | 182 |
| 20" | 127 | 1335 | 667 | 530 | 990 | 500 | 300 | 168 | 800 | 1186 | 518 | 235 | 370 | 204 | 253 |
| 24" | 154 | 1642 | 830 | 680 | 1210 | 618 | 320 | 192 | 800 | 1380 | 625 | 235 | 370 | 300 | 398 |
| 30" | 165 | 1823 | 1245 | 680 | 1453 | 875 | 512 | 279 | 400 | 1583 | 1005 | 245 | 515 | 454 | 490 |
| 36" | 203 | 2145 | 1329 | 860 | 1775 | 939 | 512 | 279 | 400 | 1905 | 1089 | 245 | 515 | 762 | 771 |
| 40" | 217 | 2235 | 1488 | 860 | 1857 | 1005 | 512 | 279 | 400 | 2010 | 1110 | 360 | 540 | 975 | 1179 |
| 42" | 214 | 2360 | 1456 | 860 | 1980 | 1086 | 512 | 279 | 400 | 2120 | 1216 | 360 | 540 | 1234 | 1338 |
| 46" | 254 | 2445 | 1505 | 1080 | 2070 | 1110 | 570 | 368 | 600 | 2175 | 1260 | 360 | 540 | 1451 | 1724 |
| 48" | 254 | 2535 | 1564 | 1080 | 2165 | 1194 | 570 | 368 | 600 | 2235 | 1324 | 360 | 540 | 1678 | 1928 |
| 54" | 305 | - | - | - | 2382 | 1477 | 630 | 425 | 800 | 2412 | 1503 | 445 | 628 | 2223 | 2631 |
| 60" | 333 | - | - | - | 2684 | 1617 | 630 | 425 | 800 | 2699 | 1687 | 445 | 628 | 2903 | 3447 |

CLASS 300 mm

| NPS | L | Pneumatic | | | Gear | | | | | Eiectric | | | | Weight(kg) | |
|-----|-----|-----------|-----|-----|------|------|-----|-----|-----|----------|-----|-----|-----|------------|------|
| | | H3 | Ho3 | B3 | H1 | Ho1 | B1 | A1 | Do1 | H2 | Ho2 | B2 | A2 | WF | WL |
| 3" | 49 | - | - | - | 320 | 185 | 140 | 63 | 160 | 513 | 263 | 178 | 180 | 13.5 | 15.5 |
| 4" | 54 | - | - | - | 342 | 195 | 140 | 63 | 160 | 535 | 282 | 178 | 180 | 18 | 21 |
| 5" | 57 | - | - | - | 365 | 209 | 140 | 63 | 300 | 563 | 293 | 178 | 180 | 24 | 28 |
| 6" | 59 | - | - | - | 415 | 243 | 140 | 63 | 300 | 602 | 322 | 178 | 180 | 28 | 34 |
| 8" | 73 | 750 | 368 | 275 | 510 | 263 | 150 | 84 | 400 | 745 | 296 | 235 | 370 | 49 | 60 |
| 10" | 83 | 909 | 442 | 378 | 567 | 295 | 150 | 84 | 400 | 805 | 325 | 235 | 370 | 68 | 88 |
| 12" | 92 | 1075 | 535 | 530 | 665 | 342 | 200 | 108 | 600 | 883 | 365 | 235 | 370 | 109 | 117 |
| 14" | 117 | 1158 | 572 | 530 | 739 | 385 | 200 | 108 | 600 | 965 | 408 | 235 | 370 | 186 | 207 |
| 16" | 133 | 1230 | 610 | 530 | 825 | 430 | 240 | 152 | 600 | 1033 | 443 | 235 | 370 | 264 | 308 |
| 18" | 149 | 1462 | 736 | 680 | 910 | 469 | 240 | 152 | 800 | 1120 | 485 | 235 | 370 | 297 | 408 |
| 20" | 159 | 1328 | 765 | 680 | 990 | 500 | 300 | 168 | 800 | 1186 | 518 | 235 | 370 | 363 | 468 |
| 24" | 181 | - | - | - | 1210 | 618 | 320 | 192 | 800 | 1380 | 625 | 235 | 370 | 454 | 748 |
| 30" | 254 | - | - | - | 1937 | 1180 | 512 | 279 | 600 | 1516 | 716 | 360 | 540 | 816 | 1338 |
| 36" | 305 | - | - | - | 2198 | 1298 | 570 | 368 | 600 | 1669 | 794 | 360 | 540 | 1429 | 2154 |
| 42" | 324 | - | - | - | 2318 | 1358 | 570 | 368 | 600 | 1914 | 914 | 360 | 540 | 2155 | 2427 |

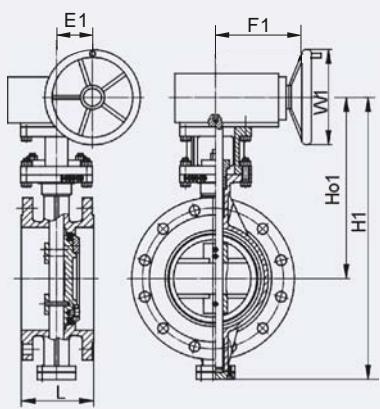
CLASS 600 mm

| NPS | L | Pneumatic | | | Gear | | | | | Eiectric | | | | Weight(kg) | |
|-----|-----|-----------|-----|-----|------|-----|-----|-----|-----|----------|-----|-----|-----|------------|------|
| | | H3 | Ho3 | B3 | H1 | Ho1 | B1 | A1 | Do1 | H2 | Ho2 | B2 | A2 | WF | WL |
| 6" | 78 | - | - | - | 415 | 243 | 140 | 63 | 300 | 602 | 322 | 178 | 180 | 45 | 56 |
| 8" | 102 | 750 | 368 | 275 | 510 | 263 | 150 | 84 | 400 | 745 | 296 | 235 | 370 | 70 | 94 |
| 10" | 117 | 909 | 442 | 378 | 567 | 295 | 150 | 84 | 400 | 805 | 325 | 235 | 370 | 103 | 141 |
| 12" | 140 | 1075 | 535 | 530 | 665 | 342 | 200 | 108 | 600 | 883 | 365 | 235 | 370 | 149 | 201 |
| 14" | 155 | 1158 | 572 | 530 | 739 | 385 | 200 | 108 | 600 | 965 | 408 | 235 | 370 | 243 | 333 |
| 16" | 178 | 1230 | 610 | 530 | 825 | 430 | 240 | 152 | 600 | 1033 | 443 | 235 | 370 | 318 | 401 |
| 18" | 200 | - | - | - | 910 | 469 | 240 | 152 | 800 | 1120 | 485 | 235 | 370 | 431 | 575 |
| 20" | 216 | - | - | - | 990 | 500 | 300 | 168 | 800 | 1186 | 518 | 235 | 370 | 472 | 708 |
| 24" | 232 | - | - | - | 1210 | 618 | 320 | 192 | 800 | 1380 | 625 | 235 | 370 | 826 | 1061 |

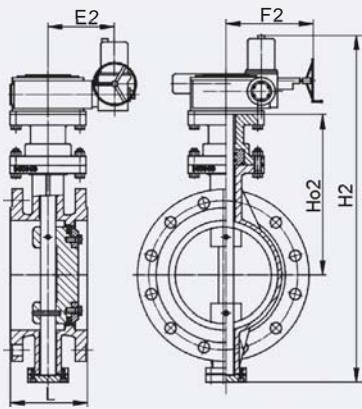
Note: the weight in the table is that without drive unit. WF is wafer butterfly valve, and WL is lug wafer butterfly valve.

TRIPLE OFFSET BUTTERFLY VALVE

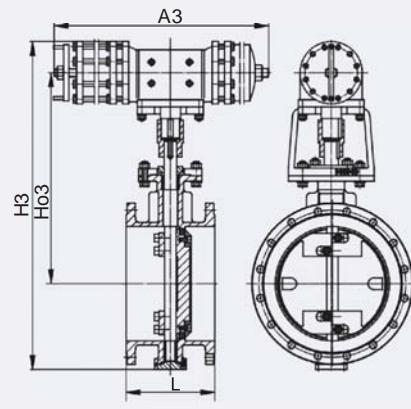
Flange Type PN 0.6MPa



Worm Gear Driven Flanged Butterfly Valve



Electric Driven Flanged Butterfly Valve



Pneumatic Driven Flanged Butterfly Valve

Main Outline Dimensions

PN 0.6MPa mm

| DN | L | Gear | | | | | Eiectric | | | | | Pneumatic | | | Weight(kg) |
|------|------|------|------|-----|-----|-----|----------|------|-----|-----|------|-----------|------|------------------|------------|
| | | H1 | Ho1 | E1 | F1 | W1 | H2 | Ho2 | E2 | F2 | H3 | Ho3 | A3 | Worm wheel drive | |
| 50 | 108 | 293 | 218 | 32 | 130 | 160 | 316 | 195 | 156 | 126 | - | - | - | 12 | |
| 65 | 112 | 313 | 228 | 32 | 130 | 160 | 336 | 205 | 156 | 126 | - | - | - | 13 | |
| 80 | 114 | 333 | 238 | 32 | 130 | 180 | 353 | 215 | 156 | 126 | - | - | - | 15 | |
| 100 | 127 | 345 | 255 | 50 | 150 | 180 | 380 | 220 | 168 | 126 | - | - | - | 17 | |
| 125 | 140 | 370 | 270 | 50 | 150 | 200 | 413 | 235 | 168 | 126 | - | - | - | 27 | |
| 150 | 140 | 425 | 305 | 62 | 150 | 200 | 466 | 275 | 250 | 126 | - | - | - | 29 | |
| 200 | 152 | 488 | 362 | 62 | 150 | 350 | 554 | 310 | 250 | 175 | 695 | 325 | 275 | 45 | |
| 250 | 165 | 575 | 410 | 80 | 160 | 350 | 630 | 365 | 250 | 175 | 750 | 355 | 275 | 69 | |
| 300 | 178 | 642 | 444 | 80 | 160 | 400 | 693 | 400 | 290 | 268 | 935 | 475 | 378 | 86 | |
| 350 | 190 | 731 | 492 | 94 | 185 | 400 | 771 | 460 | 290 | 268 | 1000 | 510 | 378 | 122 | |
| 400 | 216 | 786 | 522 | 94 | 185 | 600 | 837 | 490 | 290 | 268 | 1145 | 590 | 378 | 129 | |
| 450 | 222 | 844 | 552 | 94 | 185 | 600 | 892 | 520 | 290 | 268 | 1205 | 632 | 530 | 200 | |
| 500 | 229 | 945 | 606 | 132 | 232 | 600 | 973 | 590 | 290 | 268 | 1256 | 665 | 530 | 235 | |
| 600 | 267 | 1060 | 666 | 132 | 232 | 800 | 1098 | 650 | 410 | 460 | 1526 | 830 | 530 | 291 | |
| 700 | 292 | 1222 | 726 | 185 | 295 | 800 | 1252 | 750 | 410 | 460 | 1640 | 903 | 530 | 382 | |
| 800 | 318 | 1340 | 862 | 185 | 295 | 400 | 1376 | 810 | 305 | 610 | 1786 | 972 | 680 | 480 | |
| 900 | 330 | 1391 | 915 | 234 | 354 | 400 | 1417 | 905 | 305 | 610 | 1917 | 1052 | 680 | 627 | |
| 1000 | 410 | 1596 | 1020 | 234 | 354 | 400 | 1575 | 960 | 385 | 650 | 2015 | 1210 | 1770 | 886 | |
| 1200 | 470 | 1861 | 1075 | 296 | 354 | 400 | 1734 | 1115 | 385 | 650 | 2235 | 1360 | 1770 | 1197 | |
| 1400 | 530 | 2066 | 1235 | 296 | 426 | 600 | 1908 | 1220 | 535 | 745 | 2476 | 1476 | 1890 | 1736 | |
| 1600 | 600 | 2397 | 1355 | 410 | 426 | 600 | 2121 | 1410 | 535 | 745 | 2601 | 1599 | 1960 | 2527 | |
| 1800 | 670 | 2674 | 1600 | 410 | 550 | 600 | 2512 | 1515 | 660 | 820 | - | - | - | 3311 | |
| 2000 | 950 | 2901 | 1725 | 506 | 550 | 600 | 2857 | 1710 | 660 | 820 | - | - | - | 4102 | |
| 2200 | 1000 | 3119 | 1970 | 506 | 666 | 800 | 3124 | 1820 | 825 | 920 | - | - | - | 5047 | |
| 2400 | 1110 | 3324 | 2080 | 506 | 666 | 800 | 3375 | 1925 | 825 | 920 | - | - | - | 6377 | |
| 2600 | 1190 | 3780 | 2351 | 568 | 762 | 800 | 3830 | 2100 | 825 | 920 | - | - | - | 7000 | |
| 2800 | 1270 | 3933 | 2425 | 568 | 762 | 800 | 4100 | 2235 | 825 | 920 | - | - | - | 8120 | |
| 3000 | 1350 | 4380 | 2600 | 568 | 762 | 800 | 4410 | 2370 | 825 | 920 | - | - | - | 9520 | |

Structural length of valves in the table: DN<2000, to ISO5752 13 series; DN ≥ 2000, to ISO5752 14 series.

TRIPLE OFFSET BUTTERFLY VALVE

Flange Type PN 1.0MPa

Main Outline Dimensions

PN 1.0MPa mm

| DN | L | Gear | | | | | Electric | | | | Pneumatic | | | Weight(kg) |
|------|------|------|------|-----|-----|-----|----------|------|-----|-----|-----------|------|------|------------------|
| | | H1 | Ho1 | E1 | F1 | W1 | H2 | Ho2 | E2 | F2 | H3 | Ho3 | A3 | Worm wheel drive |
| 50 | 108 | 295 | 195 | 32 | 125 | 160 | 316 | 218 | 156 | 126 | - | - | - | 12 |
| 65 | 112 | 313 | 205 | 32 | 125 | 180 | 336 | 228 | 156 | 126 | - | - | - | 13 |
| 80 | 114 | 330 | 215 | 32 | 125 | 180 | 353 | 238 | 156 | 126 | - | - | - | 15 |
| 100 | 127 | 350 | 225 | 32 | 150 | 200 | 380 | 255 | 168 | 126 | - | - | - | 17 |
| 125 | 140 | 408 | 265 | 44 | 160 | 200 | 413 | 270 | 168 | 126 | - | - | - | 27 |
| 150 | 140 | 446 | 285 | 44 | 160 | 350 | 466 | 305 | 250 | 126 | - | - | - | 29 |
| 200 | 152 | 527 | 345 | 64 | 170 | 350 | 554 | 362 | 250 | 175 | 740 | 367 | 275 | 45 |
| 250 | 165 | 595 | 375 | 64 | 170 | 400 | 630 | 410 | 250 | 175 | 900 | 443 | 378 | 69 |
| 300 | 178 | 679 | 430 | 64 | 190 | 400 | 693 | 444 | 290 | 268 | 990 | 493 | 378 | 86 |
| 350 | 190 | 744 | 465 | 94 | 190 | 600 | 771 | 492 | 290 | 268 | 1155 | 575 | 378 | 122 |
| 400 | 216 | 855 | 540 | 94 | 190 | 600 | 837 | 522 | 290 | 268 | 1205 | 600 | 530 | 150 |
| 450 | 222 | 910 | 570 | 132 | 230 | 600 | 892 | 552 | 290 | 268 | 1290 | 643 | 530 | 214 |
| 500 | 229 | 972 | 605 | 132 | 230 | 800 | 973 | 606 | 290 | 268 | 1395 | 705 | 530 | 263 |
| 600 | 267 | 1137 | 705 | 185 | 275 | 800 | 1098 | 666 | 410 | 460 | 1665 | 838 | 530 | 333 |
| 700 | 292 | 1255 | 765 | 185 | 275 | 400 | 1252 | 762 | 410 | 460 | 1882 | 942 | 680 | 473 |
| 800 | 318 | 1425 | 870 | 234 | 320 | 400 | 1575 | 1020 | 305 | 610 | 2093 | 1066 | 680 | 655 |
| 900 | 330 | 1531 | 925 | 234 | 320 | 400 | 1734 | 1075 | 305 | 610 | 2175 | 1210 | 1480 | 844 |
| 1000 | 410 | 1708 | 1035 | 296 | 370 | 400 | 1908 | 1235 | 385 | 650 | 2245 | 1275 | 1560 | 1078 |
| 1200 | 470 | 1941 | 1155 | 296 | 370 | 600 | 2121 | 1355 | 385 | 650 | 2375 | 1385 | 1830 | 1729 |
| 1400 | 530 | 2263 | 1350 | 410 | 475 | 600 | 2512 | 1600 | 535 | 745 | 2530 | 1510 | 1890 | 2247 |
| 1600 | 600 | 2507 | 1475 | 410 | 475 | 600 | 2857 | 1725 | 535 | 745 | 2779 | 1639 | 1960 | 3059 |
| 1800 | 670 | 2824 | 1670 | 506 | 570 | 600 | 3124 | 1970 | 660 | 820 | - | - | - | 3717 |
| 2000 | 950 | 3075 | 1780 | 506 | 570 | 800 | 3375 | 2080 | 660 | 820 | - | - | - | 4480 |
| 2200 | 1000 | 3481 | 2051 | 636 | 660 | 800 | 3780 | 2351 | 825 | 920 | - | - | - | 5880 |
| 2400 | 1110 | 3705 | 2125 | 636 | 660 | 800 | 3933 | 2425 | 825 | 920 | - | - | - | 7140 |

Structural length of valves in the table: DN<2000, to ISO5752 13 series; DN ≥ 2000, to ISO5752 14 series.

TRIPLE OFFSET BUTTERFLY VALVE

Flange Type PN 1.6MPa

Main Outline Dimensions

PN 1.6MPa mm

| DN | L | Gear | | | | | Electric | | | | Pneumatic | | | Weight(kg) |
|------|------|------|------|-----|-----|-----|----------|------|-----|-----|-----------|------|------|------------------|
| | | H1 | Ho1 | E1 | F1 | W1 | H2 | Ho2 | E2 | F2 | H3 | Ho3 | A3 | Worm wheel drive |
| 50 | 108 | 290 | 175 | 32 | 125 | 160 | 316 | 218 | 156 | 126 | - | - | - | 19 |
| 65 | 112 | 295 | 195 | 63 | 140 | 180 | 336 | 228 | 156 | 126 | - | - | - | 22 |
| 80 | 114 | 320 | 185 | 63 | 140 | 180 | 513 | 265 | 178 | 180 | - | - | - | 32 |
| 100 | 127 | 342 | 195 | 63 | 140 | 200 | 538 | 282 | 178 | 180 | - | - | - | 36 |
| 125 | 140 | 365 | 209 | 63 | 140 | 200 | 560 | 295 | 178 | 180 | - | - | - | 39 |
| 150 | 140 | 415 | 243 | 63 | 140 | 350 | 605 | 300 | 178 | 180 | - | - | - | 43 |
| 200 | 152 | 510 | 263 | 84 | 150 | 350 | 749 | 321 | 235 | 370 | 695 | 327 | 275 | 57 |
| 250 | 165 | 567 | 295 | 84 | 150 | 400 | 803 | 330 | 235 | 370 | 750 | 355 | 275 | 88 |
| 300 | 178 | 665 | 342 | 108 | 200 | 400 | 880 | 365 | 235 | 370 | 955 | 472 | 378 | 109 |
| 350 | 190 | 739 | 385 | 108 | 200 | 600 | 960 | 410 | 235 | 370 | 1033 | 515 | 378 | 144 |
| 400 | 216 | 825 | 430 | 152 | 240 | 600 | 1032 | 445 | 235 | 370 | 1185 | 595 | 530 | 200 |
| 450 | 222 | 910 | 469 | 152 | 240 | 600 | 1118 | 487 | 235 | 370 | 1270 | 632 | 530 | 238 |
| 500 | 229 | 990 | 500 | 168 | 300 | 800 | 1190 | 520 | 235 | 370 | 1335 | 665 | 530 | 326 |
| 600 | 267 | 1210 | 618 | 192 | 320 | 800 | 1380 | 625 | 235 | 370 | 1642 | 829 | 680 | 466 |
| 700 | 292 | 1475 | 746 | 338 | 237 | 400 | 1582 | 745 | 245 | 515 | 1785 | 905 | 680 | 592 |
| 800 | 318 | 1600 | 810 | 338 | 237 | 400 | 1713 | 810 | 245 | 515 | 1915 | 970 | 680 | 917 |
| 900 | 330 | 1870 | 1000 | 530 | 785 | 400 | 1870 | 875 | 360 | 540 | 1964 | 1239 | 1480 | 1078 |
| 1000 | 410 | 2000 | 1065 | 530 | 785 | 400 | 2000 | 940 | 360 | 540 | 2096 | 1306 | 1770 | 1393 |
| 1200 | 470 | 2215 | 1170 | 530 | 785 | 600 | 2118 | 1060 | 360 | 540 | 2333 | 1418 | 1830 | 1855 |
| 1400 | 530 | 2430 | 1319 | 650 | 865 | 600 | 2328 | 1325 | 385 | 565 | 2591 | 1546 | 1890 | 2457 |
| 1600 | 600 | 2700 | 1443 | 650 | 865 | 600 | 2550 | 1450 | 385 | 565 | 2908 | 1738 | 2210 | 3360 |
| 1800 | 670 | 2938 | 1595 | 650 | 865 | 600 | 2816 | 1598 | 300 | 770 | - | - | - | - |
| 2000 | 950 | 3210 | 1743 | 650 | 865 | 800 | 3065 | 1743 | 684 | 794 | - | - | - | - |
| 2200 | 1000 | 3481 | 2051 | 636 | 660 | 800 | 3780 | 2351 | 825 | 920 | - | - | - | - |
| 2400 | 1110 | 3705 | 2125 | 636 | 660 | 800 | 3933 | 2425 | 825 | 920 | - | - | - | - |

Structural length of valves in the table: DN<2000, to ISO5752 13 series; DN ≥ 2000, to ISO5752 14 series.

TRIPLE OFFSET BUTTERFLY VALVE

Flange Type PN 2.5~4.0MPa

Main Outline Dimensions

PN 2.5MPa mm

| DN | L | Gear | | | | | Eiectric | | | | Pneumatic | | | Weight(kg) |
|------|-----|------|------|-----|-----|-----|----------|------|-----|-----|-----------|-----|-----|------------------|
| | | H1 | Ho1 | E1 | F1 | W1 | H2 | Ho2 | E2 | F2 | H3 | Ho3 | A3 | Worm wheel drive |
| 50 | 108 | 290 | 175 | 63 | 140 | 180 | 316 | 218 | 156 | 126 | - | - | - | 19 |
| 65 | 112 | 295 | 195 | 63 | 140 | 200 | 336 | 228 | 156 | 126 | - | - | - | 22 |
| 80 | 114 | 320 | 185 | 63 | 140 | 200 | 552 | 265 | 178 | 180 | - | - | - | 32 |
| 100 | 127 | 350 | 200 | 63 | 140 | 350 | 585 | 290 | 178 | 180 | - | - | - | 36 |
| 125 | 140 | 375 | 210 | 63 | 140 | 350 | 610 | 305 | 178 | 180 | - | - | - | 39 |
| 150 | 140 | 425 | 245 | 84 | 150 | 400 | 765 | 315 | 178 | 180 | - | - | - | 42 |
| 200 | 152 | 526 | 270 | 84 | 150 | 400 | 820 | 304 | 235 | 370 | 740 | 367 | 275 | 67 |
| 250 | 165 | 590 | 302 | 108 | 200 | 600 | 910 | 336 | 235 | 370 | 890 | 443 | 378 | 98 |
| 300 | 178 | 695 | 360 | 108 | 200 | 600 | 1000 | 386 | 235 | 370 | 985 | 495 | 378 | 116 |
| 350 | 190 | 789 | 420 | 152 | 240 | 600 | 1055 | 425 | 235 | 370 | 1155 | 575 | 530 | 175 |
| 400 | 216 | 848 | 435 | 152 | 240 | 800 | 1108 | 456 | 235 | 370 | 1206 | 603 | 530 | 228 |
| 450 | 222 | 943 | 475 | 168 | 300 | 800 | 1140 | 490 | 235 | 370 | 1284 | 643 | 530 | 312 |
| 500 | 229 | 1079 | 550 | 192 | 320 | 400 | 1238 | 552 | 235 | 370 | 1390 | 705 | 535 | 354 |
| 600 | 267 | 1352 | 675 | 338 | 237 | 400 | 1399 | 635 | 245 | 515 | 1660 | 835 | 680 | 515 |
| 700 | 292 | 1495 | 759 | 338 | 237 | 400 | 1611 | 750 | 360 | 540 | - | - | - | 686 |
| 800 | 318 | 1640 | 835 | 530 | 785 | 400 | 1782 | 820 | 360 | 540 | - | - | - | 1155 |
| 900 | 330 | 1765 | 886 | 530 | 785 | 600 | 1915 | 886 | 385 | 565 | - | - | - | 1337 |
| 1000 | 410 | 1885 | 945 | 530 | 785 | 600 | 2040 | 945 | 385 | 565 | - | - | - | 1617 |
| 1200 | 470 | 2100 | 1055 | 650 | 865 | 600 | 2184 | 1053 | 300 | 770 | - | - | - | 2247 |
| 1400 | 530 | 2325 | 1163 | 650 | 865 | 600 | 2375 | 1164 | 684 | 794 | - | - | - | - |

PN 4.0MPa mm

| DN | L | Gear | | | | | Eiectric | | | | Pneumatic | | | Weight(kg) |
|-----|-----|------|-----|-----|-----|-----|----------|-----|-----|-----|-----------|-----|-----|------------------|
| | | H1 | Ho1 | E1 | F1 | W1 | H2 | Ho2 | E2 | F2 | H3 | Ho3 | A3 | Worm wheel drive |
| 50 | 108 | 350 | 238 | 63 | 140 | 350 | 354 | 238 | 178 | 180 | 625 | 513 | 250 | - |
| 65 | 112 | 370 | 255 | 84 | 150 | 400 | 389 | 255 | 178 | 180 | 625 | 510 | 250 | - |
| 80 | 114 | 380 | 260 | 84 | 150 | 400 | 530 | 260 | 235 | 370 | 645 | 525 | 250 | - |
| 100 | 127 | 420 | 298 | 108 | 200 | 600 | 555 | 298 | 235 | 370 | 675 | 537 | 250 | - |
| 125 | 140 | 460 | 325 | 108 | 200 | 600 | 582 | 325 | 235 | 370 | 715 | 551 | 450 | - |
| 150 | 140 | 555 | 380 | 152 | 240 | 600 | 609 | 350 | 235 | 370 | 800 | 625 | 450 | - |
| 200 | 152 | 760 | 460 | 152 | 240 | 800 | 755 | 385 | 235 | 370 | 850 | 650 | 450 | 84 |
| 250 | 165 | 830 | 587 | 168 | 300 | 800 | 818 | 437 | 235 | 370 | 925 | 682 | 450 | 158 |
| 300 | 178 | 895 | 645 | 192 | 320 | 400 | 912 | 485 | 235 | 370 | 1035 | 785 | 650 | 200 |
| 350 | 190 | 950 | 670 | 338 | 237 | 400 | 983 | 580 | 245 | 515 | 1070 | 790 | 650 | 235 |
| 400 | 216 | 1190 | 810 | 338 | 237 | 400 | 1058 | 600 | 360 | 540 | 1190 | 840 | 650 | 382 |
| 450 | 222 | 1225 | 850 | 338 | 237 | 400 | 1245 | 610 | 360 | 540 | - | - | - | 427 |
| 500 | 229 | 1285 | 857 | 530 | 785 | 600 | 1325 | 660 | 385 | 565 | - | - | - | 511 |
| 600 | 267 | 1357 | 885 | 530 | 785 | 600 | 1414 | 710 | 385 | 565 | - | - | - | 826 |

Structural length of valves in the table: DN<2000, to ISO5752 13 series; DN ≥ 2000, to ISO5752 14 series.

TRIPLE OFFSET BUTTERFLY VALVE

Flange Type PN 6.3~10.0MPa & CLASS 150

Main Outline Dimensions

PN 6.3MPa mm

| DN | L | Gear | | | | | Eiectric | | | | Pneumatic | | | Weight(kg) |
|-----|-----|------|-----|-----|-----|-----|----------|-----|-----|-----|-----------|-----|-----|------------------|
| | | H1 | Ho1 | E1 | F1 | W1 | H2 | Ho2 | E2 | F2 | H3 | Ho3 | A3 | Worm wheel drive |
| 80 | 180 | 388 | 263 | 84 | 150 | 400 | 530 | 260 | 235 | 370 | 645 | 525 | 250 | 29 |
| 100 | 190 | 435 | 302 | 108 | 200 | 600 | 555 | 298 | 235 | 370 | 675 | 537 | 250 | 39 |
| 125 | 200 | 467 | 329 | 108 | 200 | 600 | 582 | 325 | 235 | 370 | 715 | 551 | 450 | 46 |
| 150 | 210 | 565 | 388 | 152 | 240 | 600 | 609 | 350 | 235 | 370 | 800 | 625 | 450 | 54 |
| 200 | 230 | 768 | 469 | 152 | 240 | 800 | 755 | 385 | 235 | 370 | 850 | 650 | 450 | 84 |
| 250 | 250 | 839 | 602 | 168 | 300 | 800 | 818 | 437 | 235 | 370 | 925 | 682 | 450 | 109 |
| 300 | 270 | 906 | 649 | 192 | 320 | 400 | 912 | 485 | 235 | 370 | 1035 | 785 | 650 | 157 |
| 350 | 290 | 959 | 679 | 338 | 237 | 400 | 983 | 580 | 245 | 515 | 1070 | 790 | 650 | 214 |
| 400 | 310 | 1205 | 816 | 338 | 237 | 400 | 1058 | 600 | 360 | 540 | 1190 | 840 | 650 | 276 |
| 450 | 330 | 1245 | 858 | 338 | 237 | 400 | 1245 | 610 | 360 | 540 | - | - | - | 360 |
| 500 | 350 | 1305 | 867 | 530 | 785 | 600 | 1325 | 660 | 385 | 565 | - | - | - | 460 |
| 600 | 390 | 1365 | 895 | 530 | 785 | 600 | 1414 | 710 | 385 | 565 | - | - | - | 670 |

PN 10.0MPa mm

| DN | L | Gear | | | | | Eiectric | | | | Pneumatic | | | Weight(kg) |
|-----|-----|------|-----|-----|-----|-----|----------|-----|-----|-----|-----------|-----|-----|------------------|
| | | H1 | Ho1 | E1 | F1 | W1 | H2 | Ho2 | E2 | F2 | H3 | Ho3 | A3 | Worm wheel drive |
| 80 | 180 | 388 | 263 | 84 | 150 | 400 | 530 | 260 | 235 | 370 | 645 | 525 | 250 | 32 |
| 100 | 190 | 435 | 302 | 108 | 200 | 600 | 555 | 298 | 235 | 370 | 675 | 537 | 250 | 43 |
| 125 | 200 | 467 | 329 | 108 | 200 | 600 | 582 | 325 | 235 | 370 | 715 | 551 | 450 | 51 |
| 150 | 210 | 565 | 388 | 152 | 240 | 600 | 609 | 350 | 235 | 370 | 800 | 625 | 450 | 59 |
| 200 | 230 | 768 | 469 | 152 | 240 | 800 | 755 | 385 | 235 | 370 | 850 | 650 | 450 | 82 |
| 250 | 250 | 839 | 602 | 168 | 300 | 800 | 818 | 437 | 235 | 370 | 925 | 682 | 450 | 120 |
| 300 | 270 | 906 | 649 | 192 | 320 | 400 | 912 | 485 | 235 | 370 | 1035 | 785 | 650 | 172 |
| 350 | 290 | 959 | 679 | 338 | 237 | 400 | 983 | 580 | 245 | 515 | 1070 | 790 | 650 | 235 |
| 400 | 310 | 1205 | 816 | 338 | 237 | 400 | 1058 | 600 | 360 | 540 | 1190 | 840 | 650 | 302 |
| 450 | 330 | 1245 | 858 | 338 | 237 | 400 | 1245 | 610 | 360 | 540 | - | - | - | 396 |
| 500 | 350 | 1305 | 867 | 530 | 785 | 600 | 1325 | 660 | 385 | 565 | - | - | - | 506 |
| 600 | 390 | 1365 | 895 | 530 | 785 | 600 | 1414 | 710 | 385 | 565 | - | - | - | 737 |

CLASS 150 mm

| NPS | L | Gear | | | | | Eiectric | | | | Pneumatic | | | Weight(kg) |
|-----|-----|------|------|-----|-----|-----|----------|------|-----|-----|-----------|-----|-----|------------------|
| | | H1 | Ho1 | E1 | F1 | W1 | H2 | Ho2 | E2 | F2 | H3 | Ho3 | A3 | Worm wheel drive |
| 3" | 114 | 472 | 350 | 50 | 203 | 203 | 513 | 263 | 180 | 178 | - | - | - | 15.4 |
| 4" | 127 | 520 | 386 | 60 | 191 | 203 | 535 | 282 | 180 | 178 | - | - | - | 23 |
| 5" | 140 | 580 | 395 | 60 | 215 | 250 | 563 | 293 | 180 | 178 | - | - | - | 29 |
| 6" | 140 | 653 | 475 | 67 | 289 | 305 | 602 | 322 | 180 | 178 | - | - | - | 33 |
| 8" | 152 | 773 | 565 | 67 | 308 | 460 | 745 | 296 | 370 | 235 | 690 | 323 | 275 | 50 |
| 10" | 165 | 880 | 640 | 86 | 346 | 460 | 805 | 325 | 370 | 235 | 750 | 355 | 275 | 73 |
| 12" | 178 | 989 | 711 | 111 | 403 | 610 | 883 | 365 | 370 | 235 | 955 | 475 | 378 | 108 |
| 14" | 190 | 1044 | 760 | 60 | 601 | 356 | 965 | 408 | 370 | 235 | 1032 | 513 | 378 | 143 |
| 16" | 216 | 1142 | 826 | 60 | 605 | 457 | 1033 | 443 | 370 | 235 | 1182 | 598 | 530 | 186 |
| 18" | 222 | 1228 | 887 | 60 | 652 | 610 | 1120 | 485 | 370 | 235 | 1265 | 635 | 530 | 234 |
| 20" | 229 | 1337 | 959 | 60 | 805 | 762 | 1186 | 518 | 370 | 235 | 1335 | 667 | 530 | 277 |
| 24" | 267 | 1554 | 1109 | 103 | 763 | 762 | 1380 | 625 | 370 | 235 | 1642 | 830 | 680 | 408 |
| 28" | 292 | 1456 | 956 | 245 | 400 | 315 | 1587 | 745 | 515 | 245 | 1711 | 859 | 680 | 653 |
| 30" | 308 | 1541 | 991 | 310 | 460 | 400 | 1650 | 777 | 515 | 245 | 1782 | 910 | 680 | 816 |
| 32" | 318 | 1611 | 1036 | 310 | 460 | 400 | 1717 | 810 | 515 | 245 | 1856 | 942 | 680 | 914 |
| 36" | 330 | 1743 | 1103 | 410 | 480 | 400 | 1870 | 875 | 540 | 360 | 1920 | 975 | 680 | 1157 |
| 40" | 410 | 1868 | 1173 | 410 | 480 | 400 | 2030 | 965 | 540 | 360 | - | - | - | 1610 |
| 44" | 450 | 1968 | 1223 | 410 | 480 | 400 | 2078 | 1022 | 540 | 360 | - | - | - | 2160 |
| 48" | 470 | 2145 | 1320 | 520 | 640 | 400 | 2188 | 1100 | 540 | 360 | - | - | - | 2359 |
| 52" | 490 | 2300 | 1405 | 520 | 640 | 400 | 2214 | 1150 | 565 | 385 | - | - | - | 2720 |
| 56" | 530 | 2440 | 1475 | 520 | 640 | 400 | 2328 | 1325 | 565 | 385 | - | - | - | 3353 |
| 60" | 570 | 2594 | 1559 | 450 | 785 | 630 | 2530 | 1515 | 565 | 385 | - | - | - | 3629 |

Structural length of valves in the table: DN<2000, to ISO5752 13 series; DN ≥ 2000, to ISO5752 14 series.

TRIPLE OFFSET BUTTERFLY VALVE

Flange Type CLASS 300~600

Main Outline Dimensions

CLASS 300 mm

| NPS | L | Gear | | | | | Eiectric | | | | Pneumatic | | | Weight(kg) | | |
|-----|-----|------|------|-----|-----|-----|----------|------|-----|-----|-----------|-----|-----|------------|----------|-----------|
| | | H1 | Ho1 | E1 | F1 | W1 | H2 | Ho2 | E2 | F2 | H3 | Ho3 | A3 | Worm | Eiectric | Pneumatic |
| 2" | 108 | 365 | 237 | 35 | 169 | 152 | 407 | 237 | 180 | 178 | - | - | - | 19 | 27 | - |
| 3" | 114 | 378 | 253 | 73 | 229 | 152 | 530 | 253 | 180 | 178 | - | - | - | 29 | 43 | - |
| 4" | 127 | 421 | 274 | 73 | 229 | 305 | 552 | 274 | 180 | 178 | - | - | - | 39 | 51 | - |
| 5" | 140 | 482 | 312 | 73 | 229 | 305 | 580 | 312 | 180 | 178 | - | - | - | 48 | 58 | - |
| 6" | 140 | 543 | 351 | 108 | 254 | 305 | 610 | 351 | 180 | 178 | - | - | - | 54 | 67 | - |
| 8" | 152 | 628 | 392 | 108 | 254 | 305 | 755 | 392 | 370 | 235 | 750 | 368 | 275 | 84 | 107 | - |
| 10" | 165 | 855 | 480 | 133 | 305 | 610 | 816 | 480 | 370 | 235 | 909 | 442 | 378 | 118 | 150 | - |
| 12" | 178 | 812 | 515 | 133 | 305 | 610 | 912 | 515 | 370 | 235 | 1075 | 535 | 530 | 170 | 225 | - |
| 14" | 191 | 885 | 555 | 194 | 356 | 610 | 980 | 555 | 370 | 235 | 1158 | 572 | 530 | 231 | 266 | - |
| 16" | 216 | 951 | 590 | 194 | 356 | 356 | 1057 | 590 | 370 | 235 | 1230 | 610 | 530 | 299 | 369 | - |
| 18" | 225 | 1106 | 636 | 194 | 356 | 356 | 1140 | 636 | 370 | 235 | 1462 | 736 | 680 | 390 | 429 | - |
| 20" | 229 | 1308 | 685 | 194 | 356 | 356 | 1243 | 685 | 515 | 245 | 1328 | 765 | 680 | 499 | 590 | - |
| 24" | 267 | 1445 | 934 | 165 | 686 | 686 | 1420 | 934 | 817 | 351 | - | - | - | 726 | 766 | - |
| 28" | 292 | 1495 | 1039 | 165 | 686 | 686 | 1812 | 1039 | 817 | 351 | - | - | - | 1360 | - | - |
| 30" | 292 | 1535 | 1060 | 165 | 686 | 686 | 1906 | 1060 | 817 | 351 | - | - | - | 1429 | - | - |
| 32" | 318 | 1575 | 1120 | 165 | 686 | 686 | 2021 | 1120 | 817 | 351 | - | - | - | 1757 | - | - |
| 36" | 330 | 1605 | 1190 | 165 | 686 | 686 | 2327 | 1190 | 973 | 440 | - | - | - | 2223 | - | - |
| 40" | 410 | 1755 | 1234 | 165 | 686 | 686 | 2451 | 1234 | 973 | 440 | - | - | - | 2531 | - | - |
| 42" | 430 | 2100 | 1385 | 429 | 805 | 903 | 2515 | 1385 | 973 | 440 | - | - | - | 2781 | - | - |
| 44" | 450 | 2175 | 1436 | 429 | 805 | 903 | 2565 | 1436 | 973 | 440 | - | - | - | 2979 | - | - |
| 48" | 470 | 2303 | 1570 | 399 | 965 | 903 | 2697 | 1570 | 973 | 440 | - | - | - | 3602 | - | - |

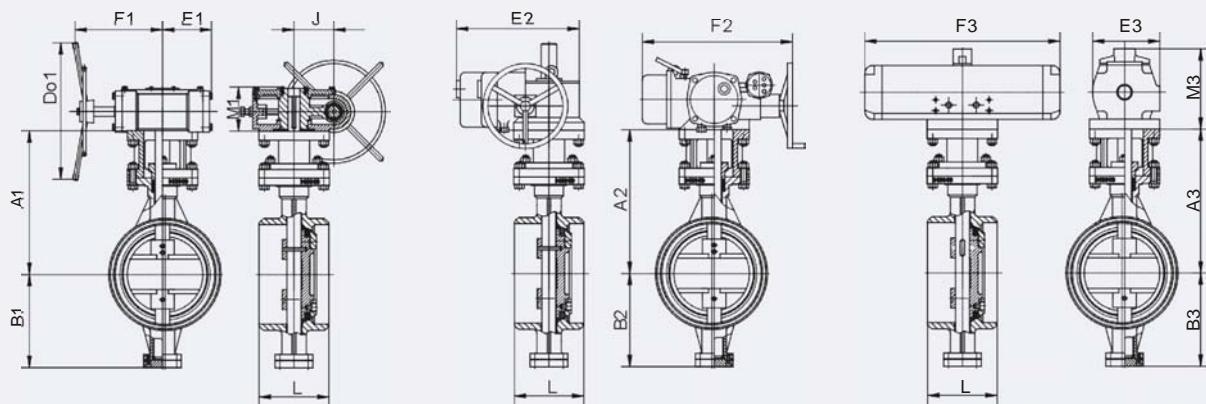
CLASS 600 mm

| NPS | L | Gear | | | | | Eiectric | | | | Pneumatic | | | Weight(kg) | | |
|-----|-----|------|------|-----|-----|-----|----------|-----|-----|-----|-----------|-----|----|------------|----------|-----------|
| | | H1 | Ho1 | E1 | F1 | W1 | H2 | Ho2 | E2 | F2 | H3 | Ho3 | A3 | Worm | Eiectric | Pneumatic |
| 3" | 180 | 541 | 414 | 63 | 140 | 250 | 606 | 295 | 180 | 178 | - | - | - | 82 | 79 | - |
| 4" | 190 | 607 | 447 | 63 | 140 | 250 | 650 | 358 | 180 | 178 | - | - | - | 125 | 96 | - |
| 5" | 200 | 680 | 395 | 108 | 200 | 250 | 695 | 371 | 180 | 178 | - | - | - | 165 | 154 | - |
| 6" | 210 | 686 | 490 | 152 | 240 | 315 | 743 | 387 | 180 | 178 | - | - | - | 191 | 172 | - |
| 8" | 230 | 757 | 536 | 168 | 300 | 315 | 1055 | 417 | 370 | 235 | - | - | - | 247 | 248 | - |
| 10" | 250 | 867 | 641 | 192 | 320 | 315 | 1172 | 465 | 370 | 235 | - | - | - | 413 | 308 | - |
| 12" | 270 | 1034 | 727 | 237 | 368 | 400 | 1392 | 546 | 515 | 245 | - | - | - | 576 | 467 | - |
| 14" | 290 | 1087 | 757 | 237 | 368 | 400 | 1475 | 579 | 515 | 245 | - | - | - | 664 | 585 | - |
| 16" | 310 | 1216 | 825 | 237 | 368 | 400 | 1557 | 643 | 540 | 360 | - | - | - | 971 | 807 | - |
| 18" | 330 | 1240 | 840 | 269 | 559 | 400 | 1625 | 673 | 540 | 360 | - | - | - | 1117 | 1003 | - |
| 20" | 350 | 1330 | 978 | 350 | 645 | 400 | 1679 | 701 | 540 | 360 | - | - | - | 1639 | 1139 | - |
| 24" | 390 | 1583 | 1070 | 350 | 645 | 400 | 1834 | 775 | 540 | 360 | - | - | - | 2082 | 1767 | - |

Structural length of valves in the table: 300Lb, to ISO5752 13 series; 600Lb, to ISO5752 14 series.

TRIPLE OFFSET BUTTERFLY VALVE

Buttwelded Type PN0.6MPa



Worm Gear Driven Butt-welded Butterfly Valve

Electric Driven Butt-welded Butterfly Valve

Pneumatic Driven Butt-welded Butterfly Valve

Main Outline Dimensions

PN 0.6MPa mm

| DN | L | Gear | | | | | | | Eiectric | | | | | Pneumatic | | | | | Weight(kg) | | |
|------|------|------|------|-----|-----|-----|-----|-----|----------|------|------|-----|------|-----------|-----|------|-----|-------|------------|-----------|--|
| | | A1 | B1 | M1 | E1 | F1 | J | Do1 | A2 | B2 | E2 | F2 | A3 | B3 | E3 | F3 | M3 | Worm | Electric | Pneumatic | |
| 80 | 180 | 203 | 125 | 75 | 90 | 205 | 83 | 200 | 203 | 125 | 475 | 505 | 203 | 125 | 93 | 282 | 110 | 27 | 42 | 29.5 | |
| 100 | 190 | 208 | 130 | 75 | 90 | 205 | 83 | 200 | 208 | 130 | 475 | 505 | 208 | 130 | 93 | 282 | 110 | 34 | 46 | 36 | |
| 125 | 200 | 218 | 140 | 75 | 90 | 205 | 83 | 200 | 218 | 140 | 475 | 505 | 218 | 140 | 115 | 344 | 140 | 41 | 48 | 46 | |
| 150 | 210 | 285 | 155 | 95 | 90 | 205 | 83 | 200 | 285 | 155 | 475 | 505 | 285 | 155 | 115 | 344 | 140 | 43 | 53 | 51 | |
| 200 | 230 | 320 | 180 | 95 | 90 | 205 | 83 | 200 | 320 | 180 | 475 | 505 | 320 | 180 | 150 | 450 | 187 | 81 | 84 | 80 | |
| 250 | 250 | 349 | 220 | 95 | 90 | 205 | 83 | 200 | 349 | 220 | 475 | 505 | 349 | 220 | 290 | 762 | 270 | 102 | 124 | 122 | |
| 300 | 270 | 398 | 250 | 115 | 90 | 205 | 83 | 200 | 398 | 250 | 475 | 505 | 398 | 250 | 290 | 762 | 270 | 132 | 138 | 142 | |
| 350 | 290 | 417 | 275 | 115 | 90 | 205 | 83 | 250 | 417 | 275 | 475 | 505 | 417 | 275 | 330 | 900 | 305 | 164 | 176 | 192 | |
| 400 | 310 | 455 | 315 | 134 | 90 | 205 | 83 | 250 | 455 | 315 | 475 | 505 | 455 | 315 | 370 | 1084 | 350 | 193 | 183 | 270 | |
| 450 | 330 | 480 | 340 | 134 | 90 | 205 | 83 | 250 | 480 | 340 | 475 | 505 | 480 | 340 | 370 | 1084 | 350 | 238 | 270 | 310 | |
| 500 | 350 | 512 | 375 | 159 | 120 | 265 | 141 | 250 | 512 | 375 | 566 | 505 | 512 | 375 | 405 | 1182 | 390 | 302 | 315 | 414 | |
| 600 | 390 | 562 | 425 | 159 | 120 | 265 | 141 | 250 | 562 | 425 | 566 | 545 | 562 | 425 | 405 | 1182 | 390 | 415 | 421 | 484 | |
| 700 | 430 | 636 | 490 | 163 | 185 | 250 | 115 | 315 | 636 | 490 | 615 | 545 | 636 | 490 | 500 | 1442 | 470 | 660 | 615 | 725 | |
| 800 | 470 | 706 | 550 | 163 | 185 | 250 | 115 | 315 | 706 | 550 | 615 | 545 | 706 | 550 | 630 | 1865 | 500 | 780 | 705 | 825 | |
| 900 | 510 | 756 | 600 | 185 | 185 | 250 | 115 | 315 | 756 | 600 | 820 | 520 | 756 | 600 | - | - | - | 820 | 825 | - | |
| 1000 | 550 | 816 | 650 | 185 | 245 | 400 | 145 | 315 | 816 | 650 | 820 | 545 | 816 | 650 | - | - | - | 1265 | 1285 | - | |
| 1200 | 630 | 944 | 775 | 220 | 310 | 460 | 191 | 400 | 944 | 775 | 945 | 545 | 944 | 775 | - | - | - | 1590 | 1655 | - | |
| 1400 | 710 | 1084 | 895 | 220 | 310 | 460 | 191 | 400 | 1084 | 895 | 945 | 545 | 1084 | 895 | - | - | - | 2185 | 2255 | - | |
| 1600 | 790 | 1204 | 1025 | 220 | 410 | 555 | 270 | 400 | 1204 | 1025 | 1140 | 545 | 1204 | 1025 | - | - | - | 3210 | 3330 | - | |
| 1800 | 870 | 1395 | 1095 | 320 | 520 | 640 | 351 | 400 | 1395 | 1095 | 1337 | 545 | 1395 | 1095 | - | - | - | 4090 | 4350 | - | |
| 2000 | 950 | 1449 | 1195 | 320 | 520 | 640 | 351 | 400 | 1449 | 1195 | 1337 | 545 | 1449 | 1195 | - | - | - | 5610 | 5680 | - | |
| 2200 | 1000 | 1569 | 1325 | 320 | 520 | 640 | 351 | 400 | 1569 | 1325 | 1337 | 545 | 1569 | 1325 | - | - | - | 6410 | 6630 | - | |
| 2400 | 1100 | 1704 | 1445 | 320 | 520 | 640 | 351 | 400 | 1704 | 1445 | 1377 | 715 | 1704 | 1445 | - | - | - | 7810 | 8255 | - | |
| 2600 | 1190 | 1824 | 1565 | 335 | 450 | 785 | 440 | 630 | 1824 | 1565 | 1443 | 715 | 1824 | 1565 | - | - | - | 9450 | 9550 | - | |
| 2800 | 1270 | 1944 | 1685 | 335 | 450 | 785 | 440 | 630 | 1944 | 1685 | 1443 | 845 | 1944 | 1685 | - | - | - | 10800 | 11030 | - | |
| 3000 | 1350 | 2074 | 1815 | 335 | 450 | 785 | 440 | 630 | 2074 | 1815 | 1443 | 845 | 2074 | 1815 | - | - | - | 12200 | 12880 | - | |

Note: 1、The structural length of valve to ISO5752 14 series.

2、Welding groove to GB/T12224 specifications

TRIPLE OFFSET BUTTERFLY VALVE

Butt welded Type PN1.0~1.6MPa

Main Outline Dimensions

PN 1.0MPa mm

| DN | L | Gear | | | | | | | Eiectric | | | | | Pneumatic | | | | | Weight(kg) | | |
|------|------|------|------|-----|-----|-----|-----|-----|----------|------|------|-----|------|-----------|-----|------|-----|------|------------|-----------|--|
| | | A1 | B1 | M1 | E1 | F1 | J | Do1 | A2 | B2 | E2 | F2 | A3 | B3 | E3 | F3 | M3 | Worm | Electric | Pneumatic | |
| 80 | 180 | 203 | 125 | 75 | 90 | 205 | 83 | 200 | 203 | 125 | 475 | 505 | 203 | 125 | 93 | 282 | 110 | - | - | - | |
| 100 | 190 | 208 | 130 | 75 | 90 | 205 | 83 | 200 | 208 | 130 | 475 | 505 | 208 | 130 | 93 | 282 | 110 | - | - | - | |
| 125 | 200 | 218 | 140 | 75 | 90 | 205 | 83 | 200 | 218 | 140 | 475 | 505 | 218 | 140 | 115 | 344 | 140 | - | - | - | |
| 150 | 210 | 285 | 155 | 95 | 90 | 205 | 83 | 200 | 285 | 155 | 475 | 505 | 285 | 155 | 115 | 344 | 140 | 58 | 73 | - | |
| 200 | 230 | 320 | 180 | 95 | 90 | 205 | 83 | 200 | 320 | 180 | 475 | 505 | 320 | 180 | 150 | 450 | 187 | 76 | 91 | - | |
| 250 | 250 | 349 | 220 | 95 | 90 | 205 | 83 | 200 | 349 | 220 | 475 | 505 | 349 | 220 | 290 | 762 | 270 | 115 | 130 | - | |
| 300 | 270 | 398 | 250 | 115 | 90 | 205 | 83 | 200 | 398 | 250 | 475 | 505 | 398 | 250 | 290 | 762 | 270 | 145 | 165 | - | |
| 350 | 290 | 417 | 275 | 115 | 90 | 205 | 83 | 250 | 417 | 275 | 475 | 505 | 417 | 275 | 330 | 900 | 305 | 185 | 205 | - | |
| 400 | 310 | 455 | 315 | 134 | 90 | 205 | 83 | 250 | 455 | 315 | 566 | 505 | 455 | 315 | 370 | 1084 | 350 | 245 | 265 | - | |
| 450 | 330 | 480 | 340 | 134 | 90 | 205 | 83 | 250 | 480 | 340 | 566 | 545 | 480 | 340 | 370 | 1084 | 350 | 315 | 335 | - | |
| 500 | 350 | 512 | 375 | 159 | 120 | 265 | 141 | 250 | 512 | 375 | 615 | 545 | 512 | 375 | 405 | 1182 | 390 | 375 | 395 | - | |
| 600 | 390 | 562 | 425 | 159 | 120 | 265 | 141 | 250 | 562 | 425 | 615 | 545 | 562 | 425 | 405 | 1182 | 390 | 510 | 530 | - | |
| 700 | 430 | 636 | 490 | 163 | 185 | 250 | 115 | 315 | 636 | 490 | 820 | 520 | 636 | 490 | 500 | 1442 | 470 | 770 | 790 | - | |
| 800 | 470 | 706 | 550 | 163 | 185 | 250 | 115 | 315 | 706 | 550 | 820 | 545 | 706 | 550 | 630 | 1865 | 500 | 1070 | 1090 | - | |
| 900 | 510 | 756 | 600 | 185 | 185 | 250 | 115 | 315 | 756 | 600 | 945 | 545 | 756 | 600 | - | - | - | 1435 | 1455 | - | |
| 1000 | 550 | 816 | 650 | 185 | 245 | 400 | 145 | 315 | 816 | 650 | 945 | 545 | 816 | 650 | - | - | - | 1745 | 1755 | - | |
| 1200 | 630 | 944 | 775 | 220 | 310 | 460 | 191 | 400 | 944 | 775 | 1140 | 545 | 944 | 775 | - | - | - | 2725 | 2745 | - | |
| 1400 | 710 | 1084 | 895 | 220 | 310 | 460 | 191 | 400 | 1084 | 895 | 1337 | 545 | 1084 | 895 | - | - | - | 3510 | 3550 | - | |
| 1600 | 790 | 1204 | 1025 | 220 | 410 | 555 | 270 | 400 | 1204 | 1025 | 1337 | 545 | 1204 | 1025 | - | - | - | 4470 | 4510 | - | |
| 1800 | 870 | 1395 | 1095 | 320 | 520 | 640 | 351 | 400 | 1395 | 1095 | 1337 | 545 | 1395 | 1095 | - | - | - | 4945 | - | - | |
| 2000 | 950 | 1449 | 1195 | 320 | 520 | 640 | 351 | 400 | 1449 | 1195 | 1377 | 715 | 1449 | 1195 | - | - | - | 6230 | - | - | |
| 2200 | 1000 | 1569 | 1325 | 320 | 520 | 640 | 351 | 400 | 1569 | 1325 | 1443 | 715 | 1569 | 1325 | - | - | - | - | - | - | |
| 2400 | 1100 | 1704 | 1445 | 320 | 520 | 640 | 351 | 400 | 1704 | 1445 | 1443 | 845 | 1704 | 1445 | - | - | - | - | - | - | |

PN 1.6MPa mm

| DN | L | Gear | | | | | | | Eiectric | | | | | Pneumatic | | | | | Weight(kg) | | |
|------|------|------|------|-----|-----|-----|-----|-----|----------|------|------|-----|-----|-----------|-----|------|-----|------|------------|-----------|--|
| | | A1 | B1 | M1 | E1 | F1 | J | Do1 | A2 | B2 | E2 | F2 | A3 | B3 | E3 | F3 | M3 | Worm | Electric | Pneumatic | |
| 80 | 180 | 203 | 125 | 115 | 90 | 205 | 83 | 200 | 203 | 125 | 475 | 505 | 203 | 125 | 115 | 344 | 140 | 27 | 45 | - | |
| 100 | 190 | 208 | 130 | 115 | 90 | 205 | 83 | 200 | 208 | 130 | 475 | 505 | 208 | 130 | 115 | 344 | 140 | 34 | 57 | - | |
| 125 | 200 | 218 | 140 | 115 | 90 | 205 | 83 | 200 | 218 | 140 | 475 | 505 | 218 | 140 | 150 | 450 | 187 | 41 | 63 | - | |
| 150 | 210 | 285 | 155 | 115 | 90 | 205 | 83 | 200 | 285 | 155 | 475 | 505 | 285 | 155 | 290 | 762 | 270 | 43 | 71 | - | |
| 200 | 230 | 309 | 180 | 115 | 90 | 205 | 83 | 200 | 309 | 180 | 475 | 505 | 309 | 180 | 290 | 762 | 270 | 81 | 83 | - | |
| 250 | 250 | 343 | 220 | 134 | 90 | 205 | 83 | 250 | 343 | 220 | 475 | 505 | 343 | 220 | 330 | 900 | 305 | 102 | 126 | - | |
| 300 | 270 | 368 | 245 | 134 | 90 | 205 | 83 | 250 | 368 | 245 | 475 | 505 | 368 | 245 | 370 | 1084 | 350 | 132 | 151 | - | |
| 350 | 290 | 401 | 275 | 159 | 120 | 265 | 141 | 250 | 401 | 275 | 566 | 505 | 401 | 275 | 370 | 1084 | 350 | 164 | 195 | - | |
| 400 | 310 | 443 | 300 | 159 | 120 | 265 | 141 | 250 | 443 | 300 | 566 | 545 | 443 | 300 | 405 | 1182 | 390 | 193 | 273 | - | |
| 450 | 330 | 469 | 340 | 163 | 185 | 250 | 115 | 315 | 469 | 340 | 615 | 545 | 469 | 340 | 405 | 1182 | 390 | 238 | 290 | - | |
| 500 | 350 | 501 | 375 | 163 | 185 | 250 | 115 | 315 | 501 | 375 | 615 | 507 | 501 | 375 | 500 | 1442 | 470 | 302 | 414 | - | |
| 600 | 390 | 606 | 440 | 185 | 245 | 400 | 145 | 315 | 606 | 440 | 820 | 545 | 606 | 440 | 630 | 1865 | 500 | 457 | 545 | - | |
| 700 | 430 | 684 | 500 | 185 | 245 | 400 | 145 | 315 | 684 | 500 | 820 | 545 | - | - | - | - | - | 810 | 825 | - | |
| 800 | 470 | 734 | 550 | 220 | 310 | 460 | 191 | 400 | 734 | 550 | 945 | 545 | - | - | - | - | - | 1093 | 1005 | - | |
| 900 | 510 | 794 | 625 | 220 | 310 | 460 | 191 | 400 | 794 | 625 | 945 | 545 | - | - | - | - | - | 1410 | 1560 | - | |
| 1000 | 550 | 874 | 690 | 255 | 410 | 555 | 270 | 400 | 874 | 690 | 1140 | 545 | - | - | - | - | - | 1870 | 1910 | - | |
| 1200 | 630 | 1049 | 795 | 255 | 410 | 555 | 270 | 400 | 1049 | 795 | 1140 | 545 | - | - | - | - | - | 2082 | 2450 | - | |
| 1400 | 710 | 1204 | 945 | 320 | 520 | 640 | 351 | 400 | 1204 | 945 | 1337 | 545 | - | - | - | - | - | 2850 | 3250 | - | |
| 1600 | 790 | 1324 | 1065 | 320 | 520 | 640 | 440 | 630 | 1324 | 1065 | 1423 | 720 | - | - | - | - | - | 4235 | 4400 | - | |
| 1800 | 870 | 1395 | 1095 | 335 | 520 | 785 | 440 | 630 | 1395 | 1095 | 1423 | 720 | - | - | - | - | - | 5346 | 5670 | - | |
| 2000 | 950 | 1449 | 1195 | 335 | 520 | 785 | 440 | 630 | 1449 | 1195 | 1423 | 720 | - | - | - | - | - | 7328 | 7565 | - | |
| 2200 | 1000 | 1569 | 1325 | 335 | 450 | 785 | 440 | 630 | 1569 | 1325 | 1423 | 720 | - | - | - | - | - | - | - | - | |
| 2400 | 1100 | 1704 | 1445 | 335 | 450 | 785 | 440 | 630 | 1704 | 1445 | 1423 | 720 | - | - | - | - | - | - | - | - | |

Note: 1、The structural length of valve to ISO5752 14 series.

2、Welding groove to GB/T12224 specifications

TRIPLE OFFSET BUTTERFLY VALVE

Buttwelded Type PN 2.5~4.0MPa

Main Outline Dimensions

PN 2.5MPa mm

| DN | L | Gear | | | | | | | Eiectric | | | | | Pneumatic | | | | | | Weight(kg) | | | |
|------|-----|------|-----|-----|-----|-----|-----|-----|----------|-----|------|-----|------|-----------|-----|------|-----|------|----------|------------|--|--|--|
| | | A1 | B1 | M1 | E1 | F1 | J | Do1 | A2 | B2 | E2 | F2 | A3 | B3 | E3 | F3 | M3 | Worm | Electric | Pneumatic | | | |
| 80 | 180 | 203 | 125 | 115 | 90 | 205 | 83 | 200 | 203 | 125 | 475 | 505 | 203 | 125 | 150 | 450 | 187 | 38 | 54 | - | | | |
| 100 | 190 | 208 | 130 | 115 | 90 | 205 | 83 | 200 | 208 | 130 | 475 | 505 | 208 | 130 | 290 | 762 | 270 | 40 | 55 | - | | | |
| 125 | 200 | 218 | 140 | 115 | 90 | 205 | 83 | 200 | 218 | 140 | 475 | 505 | 218 | 140 | 290 | 762 | 270 | 60 | 64 | - | | | |
| 150 | 210 | 285 | 155 | 115 | 90 | 205 | 83 | 200 | 285 | 155 | 475 | 505 | 285 | 155 | 330 | 900 | 305 | 65 | 71 | - | | | |
| 200 | 230 | 317 | 195 | 134 | 90 | 205 | 83 | 250 | 317 | 195 | 475 | 505 | 317 | 195 | 370 | 1084 | 350 | 85 | 96 | - | | | |
| 250 | 250 | 360 | 220 | 134 | 90 | 205 | 83 | 250 | 360 | 220 | 475 | 505 | 360 | 220 | 370 | 1084 | 350 | 135 | 145 | - | | | |
| 300 | 270 | 395 | 250 | 159 | 120 | 265 | 141 | 250 | 395 | 250 | 566 | 505 | 395 | 250 | 405 | 1182 | 390 | 175 | 167 | - | | | |
| 350 | 290 | 419 | 290 | 159 | 120 | 265 | 141 | 250 | 419 | 290 | 566 | 545 | 419 | 290 | 405 | 1182 | 390 | 195 | 220 | - | | | |
| 400 | 310 | 468 | 325 | 163 | 185 | 250 | 115 | 315 | 468 | 325 | 615 | 545 | 468 | 325 | 500 | 1442 | 470 | 295 | 278 | - | | | |
| 450 | 330 | 476 | 350 | 163 | 185 | 250 | 115 | 315 | 476 | 350 | 615 | 545 | 476 | 350 | 630 | 1865 | 500 | 350 | 380 | - | | | |
| 500 | 350 | 556 | 390 | 185 | 245 | 400 | 145 | 315 | 556 | 390 | 820 | 545 | 556 | 390 | - | - | - | 510 | 496 | - | | | |
| 600 | 390 | 644 | 450 | 185 | 245 | 400 | 145 | 315 | 644 | 450 | 820 | 545 | 644 | 450 | - | - | - | 625 | 705. | - | | | |
| 700 | 430 | 684 | 500 | 220 | 310 | 460 | 191 | 400 | 684 | 500 | 945 | 545 | 684 | 500 | - | - | - | 925 | 1000 | - | | | |
| 800 | 470 | 774 | 590 | 255 | 410 | 460 | 270 | 400 | 774 | 590 | 1140 | 545 | 774 | 590 | - | - | - | 1260 | 1190 | - | | | |
| 900 | 510 | 844 | 645 | 255 | 410 | 555 | 270 | 400 | 844 | 645 | 1140 | 545 | 844 | 645 | - | - | - | 1790 | 1670 | - | | | |
| 1000 | 550 | 894 | 695 | 255 | 410 | 555 | 270 | 400 | 894 | 695 | 1140 | 545 | 894 | 695 | - | - | - | 1940 | 2180 | - | | | |
| 1200 | 630 | 1049 | 845 | 320 | 520 | 640 | 351 | 400 | 1049 | 845 | 1337 | 545 | 1049 | 845 | - | - | - | 2810 | 2980 | - | | | |

PN 4.0MPa mm

| DN | L | Gear | | | | | | | Eiectric | | | | | Pneumatic | | | | | | Weight(kg) | | | |
|-----|-----|------|-----|-----|-----|-----|-----|-----|----------|-----|------|-----|-----|-----------|-----|------|-----|------|----------|------------|--|--|--|
| | | A1 | B1 | M1 | E1 | F1 | J | Do1 | A2 | B2 | E2 | F2 | A3 | B3 | E3 | F3 | M3 | Worm | Electric | Pneumatic | | | |
| 80 | 180 | 203 | 125 | 115 | 90 | 205 | 83 | 200 | 203 | 125 | 475 | 505 | 203 | 125 | 150 | 450 | 187 | 39 | - | - | | | |
| 100 | 190 | 208 | 130 | 115 | 90 | 205 | 83 | 200 | 208 | 130 | 475 | 505 | 208 | 130 | 290 | 762 | 270 | 50 | - | - | | | |
| 125 | 200 | 218 | 140 | 115 | 90 | 205 | 83 | 200 | 218 | 140 | 475 | 505 | 218 | 140 | 290 | 762 | 270 | 75 | - | - | | | |
| 150 | 210 | 285 | 155 | 115 | 90 | 205 | 83 | 200 | 285 | 155 | 475 | 505 | 285 | 155 | 330 | 900 | 305 | 100 | - | - | | | |
| 200 | 230 | 318 | 195 | 134 | 90 | 205 | 83 | 250 | 318 | 195 | 475 | 505 | 318 | 195 | 370 | 1084 | 350 | 135 | 116 | - | | | |
| 250 | 250 | 353 | 225 | 159 | 120 | 265 | 141 | 250 | 353 | 225 | 566 | 505 | 353 | 225 | 370 | 1084 | 350 | 190 | 215 | - | | | |
| 300 | 270 | 396 | 265 | 159 | 120 | 265 | 141 | 250 | 396 | 265 | 566 | 545 | 396 | 265 | 405 | 1182 | 390 | 240 | 263 | - | | | |
| 350 | 290 | 426 | 300 | 162 | 185 | 250 | 115 | 315 | 426 | 300 | 615 | 545 | 426 | 300 | 405 | 1182 | 390 | 320 | 297 | - | | | |
| 400 | 310 | 461 | 340 | 163 | 185 | 250 | 115 | 315 | 461 | 340 | 615 | 545 | 461 | 340 | 500 | 1442 | 470 | 450 | 477 | - | | | |
| 450 | 330 | 486 | 365 | 185 | 245 | 400 | 145 | 315 | 486 | 365 | 820 | 545 | 486 | 365 | 630 | 1865 | 500 | 500 | 524 | - | | | |
| 500 | 350 | 584 | 400 | 185 | 245 | 400 | 145 | 315 | 584 | 400 | 820 | 545 | 584 | 400 | - | - | - | 560 | 585 | - | | | |
| 600 | 390 | 644 | 475 | 220 | 310 | 460 | 191 | 400 | 644 | 475 | 945 | 545 | 644 | 475 | - | - | - | 720 | 1000 | - | | | |
| 700 | 430 | 724 | 540 | 255 | 410 | 555 | 270 | 400 | 724 | 540 | 1140 | 545 | 724 | 540 | - | - | - | 1250 | 1410 | - | | | |
| 800 | 470 | 794 | 595 | 255 | 410 | 555 | 270 | 400 | 794 | 595 | 1140 | 545 | 794 | 595 | - | - | - | 1950 | 2110 | - | | | |

Note: 1、The structural length of valve to ISO5752 14 series.

2、Welding groove to GB/T12224 specifications

TRIPLE OFFSET BUTTERFLY VALVE

Butt welded Type CLASS 150

Main Outline Dimensions

CLASS 150 mm

| NPS | L | Gear | | | | | | | Electric | | | | Pneumatic | | | | | | Weight(kg) | | |
|-----|-----|------|------|-----|-----|-----|-----|-----------------|----------|------|------|------|-----------|------|-----|------|-----|------|------------|-----------|--|
| | | A1 | B1 | M1 | E1 | F1 | J | D _{O1} | A2 | B2 | E2 | F2 | A3 | B3 | E3 | F3 | M3 | Worm | Electric | Pneumatic | |
| 3" | 114 | 295 | 135 | 115 | 84 | 198 | 84 | 200 | 295 | 135 | 513 | 467 | 295 | 135 | 115 | 344 | 140 | 32 | 37 | - | |
| 4" | 127 | 305 | 155 | 115 | 84 | 198 | 84 | 200 | 305 | 155 | 513 | 467 | 305 | 155 | 115 | 344 | 140 | 35 | 39 | - | |
| 5" | 140 | 322 | 167 | 115 | 84 | 198 | 84 | 200 | 322 | 167 | 513 | 467 | 322 | 167 | 126 | 390 | 175 | 39 | 42 | - | |
| 6" | 140 | 366 | 170 | 115 | 94 | 211 | 84 | 250 | 366 | 170 | 525 | 475 | 366 | 170 | 150 | 450 | 187 | 43 | 43 | - | |
| 8" | 152 | 396 | 198 | 134 | 117 | 267 | 145 | 250 | 396 | 198 | 580 | 470 | 396 | 198 | 280 | 762 | 270 | 60 | 57 | - | |
| 10" | 165 | 429 | 231 | 134 | 175 | 254 | 114 | 315 | 429 | 231 | 635 | 560 | 429 | 231 | 330 | 900 | 305 | 90 | 80 | - | |
| 12" | 178 | 483 | 269 | 159 | 175 | 254 | 114 | 315 | 483 | 269 | 705 | 560 | 483 | 269 | 405 | 1182 | 385 | 107 | 104 | - | |
| 14" | 190 | 498 | 297 | 159 | 239 | 404 | 145 | 315 | 498 | 297 | 765 | 615 | 498 | 297 | 405 | 1182 | 385 | 153 | 141 | - | |
| 16" | 216 | 579 | 333 | 163 | 239 | 404 | 145 | 315 | 579 | 333 | 825 | 615 | 579 | 333 | 405 | 1182 | 385 | 207 | 197 | - | |
| 18" | 222 | 630 | 366 | 163 | 239 | 404 | 191 | 315 | 630 | 366 | 875 | 820 | 630 | 366 | 445 | 1292 | 410 | 267 | 247 | - | |
| 20" | 229 | 655 | 394 | 163 | 300 | 465 | 191 | 400 | 655 | 394 | 930 | 820 | 655 | 394 | 445 | 1292 | 410 | 327 | 307 | - | |
| 24" | 267 | 744 | 452 | 185 | 300 | 465 | 191 | 400 | 744 | 452 | 1040 | 820 | 744 | 452 | 500 | 1442 | 465 | 473 | 427 | - | |
| 28" | 292 | 790 | 511 | 185 | 300 | 465 | 191 | 400 | 790 | 511 | 1155 | 945 | 790 | 511 | 630 | 1865 | 500 | 653 | 667 | - | |
| 30" | 308 | 815 | 536 | 220 | 300 | 559 | 269 | 400 | 815 | 536 | 1225 | 945 | 815 | 536 | 630 | 1865 | 500 | 760 | 773 | - | |
| 32" | 318 | 874 | 577 | 220 | 300 | 559 | 269 | 400 | 874 | 577 | 1275 | 945 | 874 | 577 | 630 | 1865 | 500 | 1033 | 1047 | - | |
| 36" | 330 | 899 | 602 | 255 | 300 | 559 | 269 | 400 | 899 | 602 | 1375 | 1145 | 899 | 602 | - | - | - | 1200 | 1213 | - | |
| 40" | 410 | 1064 | 696 | 255 | 300 | 559 | 269 | 400 | 1064 | 696 | 1490 | 1145 | 1064 | 696 | - | - | - | 1487 | 1500 | - | |
| 42" | 430 | 1092 | 721 | 255 | 300 | 559 | 335 | 400 | 1092 | 721 | 1550 | 1335 | 1092 | 721 | - | - | - | 1640 | 1637 | - | |
| 44" | 450 | 1148 | 731 | 255 | 300 | 572 | 335 | 400 | 1148 | 731 | 1600 | 1335 | 1148 | 731 | - | - | - | 1800 | 1813 | - | |
| 48" | 470 | 1270 | 800 | 320 | 300 | 572 | 335 | 400 | 1270 | 800 | 1715 | 1370 | 1270 | 800 | - | - | - | 2007 | 2020 | - | |
| 52" | 490 | 1314 | 850 | 320 | 425 | 635 | 365 | 500 | 1314 | 850 | 1835 | 1370 | 1314 | 850 | - | - | - | 2720 | 2733 | - | |
| 56" | 530 | 1384 | 895 | 320 | 425 | 635 | 365 | 500 | 1384 | 895 | 2005 | 1425 | 1384 | 895 | - | - | - | 2980 | 2993 | - | |
| 60" | 570 | 1504 | 1025 | 355 | 425 | 635 | 365 | 500 | 1504 | 1025 | 2115 | 1425 | 1504 | 1025 | - | - | - | 3387 | 3420 | - | |

Note: 1、The structural length of valve to ISO5752 13 series.

2、Welding groove to ASME B16.34 specifications

TRIPLE OFFSET BUTTERFLY VALVE

Buttwelded Type CLASS 300~600

Main Outline Dimensions

CLASS 300 mm

| NPS | L | Gear | | | | | | | Eiectric | | | | Pneumatic | | | | | | Weight(kg) | | |
|-----|-----|------|-----|-----|-----|-----|-----|-----|----------|-----|------|------|-----------|-----|-----|------|-----|------|------------|-----------|--|
| | | A1 | B1 | M1 | E1 | F1 | J | Do1 | A2 | B2 | E2 | F2 | A3 | B3 | E3 | F3 | M3 | Worm | Eiectric | Pneumatic | |
| 3" | 114 | 295 | 132 | 114 | 84 | 198 | 84 | 200 | 295 | 132 | 467 | 513 | 295 | 132 | 126 | 390 | 175 | 34 | - | - | |
| 4" | 127 | 358 | 150 | 114 | 84 | 198 | 84 | 200 | 358 | 150 | 467 | 513 | 358 | 150 | 150 | 450 | 187 | 44 | - | - | |
| 5" | 140 | 365 | 167 | 168 | 117 | 267 | 145 | 250 | 365 | 167 | 467 | 513 | 365 | 167 | 280 | 762 | 270 | 58 | - | - | |
| 6" | 140 | 389 | 188 | 163 | 175 | 254 | 114 | 315 | 389 | 188 | 564 | 523 | 389 | 188 | 330 | 900 | 305 | 73 | - | - | |
| 8" | 152 | 417 | 221 | 163 | 175 | 254 | 114 | 315 | 417 | 221 | 615 | 544 | 417 | 221 | 405 | 1182 | 385 | 132 | - | - | |
| 10" | 165 | 465 | 252 | 185 | 239 | 404 | 145 | 315 | 465 | 252 | 615 | 544 | 465 | 252 | 405 | 1182 | 385 | 151 | - | - | |
| 12" | 178 | 546 | 290 | 185 | 239 | 404 | 145 | 315 | 546 | 290 | 823 | 513 | 546 | 290 | 405 | 1182 | 385 | 257 | - | - | |
| 14" | 191 | 579 | 318 | 221 | 300 | 465 | 191 | 400 | 579 | 318 | 823 | 513 | 579 | 318 | 445 | 1292 | 410 | 286 | - | - | |
| 16" | 216 | 642 | 368 | 221 | 300 | 465 | 191 | 400 | 642 | 368 | 945 | 513 | 642 | 368 | 445 | 1292 | 410 | 416 | - | - | |
| 18" | 225 | 673 | 396 | 221 | 300 | 465 | 191 | 400 | 673 | 396 | 945 | 544 | 673 | 396 | 500 | 1442 | 465 | 497 | - | - | |
| 20" | 229 | 701 | 422 | 254 | 300 | 559 | 269 | 400 | 701 | 422 | 945 | 544 | 701 | 422 | 500 | 1442 | 465 | 571 | - | - | |
| 24" | 267 | 775 | 495 | 254 | 399 | 559 | 269 | 400 | 775 | 495 | 945 | 544 | 775 | 495 | 630 | 1865 | 500 | 881 | - | - | |
| 28" | 292 | 904 | 559 | 305 | 510 | 648 | 351 | 400 | 904 | 559 | 1158 | 826 | 904 | 559 | 630 | 1865 | 500 | 1320 | - | - | |
| 30" | 292 | 963 | 594 | 305 | 510 | 648 | 351 | 400 | 963 | 594 | 1158 | 826 | 963 | 594 | - | - | - | 1478 | - | - | |
| 32" | 318 | 1054 | 617 | 305 | 510 | 648 | 351 | 400 | 1054 | 617 | 1158 | 826 | 1054 | 617 | - | - | - | 1699 | - | - | |
| 36" | 330 | 1161 | 676 | 368 | 615 | 805 | 429 | 630 | 1161 | 676 | 1420 | 1039 | 1161 | 676 | - | - | - | 2379 | - | - | |
| 40" | 410 | 1242 | 719 | 368 | 615 | 805 | 429 | 630 | 1242 | 719 | 1420 | 1039 | 1242 | 719 | - | - | - | 2427 | - | - | |
| 42" | 430 | 1285 | 739 | 368 | 615 | 805 | 429 | 630 | 1285 | 739 | 1420 | 1039 | 1285 | 739 | - | - | - | 2685 | - | - | |
| 44" | 450 | 1310 | 764 | 368 | 615 | 805 | 429 | 630 | 1310 | 764 | 1420 | 1039 | 1310 | 764 | - | - | - | 2932 | - | - | |
| 48" | 470 | 1374 | 833 | 434 | 765 | 965 | 399 | 630 | 1374 | 833 | 1730 | 1069 | 1374 | 833 | - | - | - | 3545 | - | - | |

CLASS 600 mm

| NPS | L | Gear | | | | | | | Eiectric | | | | Pneumatic | | | | | | Weight(kg) | | |
|-----|-----|------|-----|-----|-----|-----|-----|-----|----------|-----|------|-----|-----------|-----|-----|------|-----|------|------------|-----------|--|
| | | A1 | B1 | M1 | E1 | F1 | J | Do1 | A2 | B2 | E2 | F2 | A3 | B3 | E3 | F3 | M3 | Worm | Eiectric | Pneumatic | |
| 3" | 180 | 343 | 127 | 135 | 94 | 211 | 81 | 250 | 343 | 127 | 564 | 523 | 343 | 127 | 330 | 900 | 305 | 75 | - | - | |
| 4" | 190 | 371 | 160 | 170 | 152 | 267 | 145 | 250 | 371 | 160 | 615 | 544 | 371 | 160 | 405 | 1182 | 385 | 117 | - | - | |
| 5" | 200 | 388 | 178 | 163 | 175 | 254 | 114 | 315 | 388 | 178 | 615 | 544 | 388 | 178 | 405 | 1182 | 385 | 154 | - | - | |
| 6" | 210 | 401 | 196 | 163 | 175 | 254 | 114 | 315 | 401 | 196 | 823 | 513 | 401 | 196 | 405 | 1182 | 385 | 186 | - | - | |
| 8" | 230 | 447 | 221 | 163 | 175 | 254 | 114 | 315 | 447 | 221 | 823 | 513 | 447 | 221 | 445 | 1292 | 410 | 235 | - | - | |
| 10" | 250 | 544 | 290 | 185 | 239 | 404 | 145 | 315 | 544 | 290 | 945 | 513 | 544 | 290 | 445 | 1292 | 410 | 398 | - | - | |
| 12" | 270 | 610 | 307 | 220 | 300 | 465 | 191 | 400 | 610 | 307 | 945 | 544 | 610 | 307 | 500 | 1442 | 465 | 554 | - | - | |
| 14" | 290 | 640 | 330 | 220 | 300 | 465 | 191 | 400 | 640 | 330 | 945 | 544 | 640 | 330 | 500 | 1442 | 465 | 654 | - | - | |
| 16" | 310 | 701 | 391 | 254 | 400 | 559 | 269 | 400 | 701 | 391 | 945 | 544 | 701 | 391 | 630 | 1865 | 500 | 935 | - | - | |
| 18" | 330 | 716 | 406 | 254 | 400 | 559 | 269 | 400 | 716 | 406 | 945 | 544 | 716 | 406 | 630 | 1865 | 500 | 1085 | - | - | |
| 20" | 350 | 828 | 452 | 305 | 510 | 645 | 351 | 400 | 828 | 452 | 1158 | 826 | 828 | 452 | 630 | 1865 | 500 | 1610 | - | - | |
| 24" | 390 | 920 | 513 | 305 | 510 | 645 | 351 | 400 | 920 | 513 | 1158 | 826 | 920 | 513 | - | - | - | 1998 | - | - | |

Note: 1、Structural length of valves in the table: 300Lb, to ISO5752

13 series; 600Lb, to ISO5752 14 series.

2、Welding groove to ASME B16.34 specifications