

YFD71XA BUTTERFLY VALVE

Product Description

YFD71XB hard back seat wafer butterfly valve is a cost-effective solution designed for general-purpose applications where reliable performance and economic efficiency are required.

With a compact wafer-type body and hard back seat structure, the valve offers stable sealing easy installation, and low operating torque.

Equipped with a high-quality EPDM seat and durable epoxy coating, it ensures dependable performance in water treatment HVAC systems, and general industrial pipelines.

This valve is an ideal choice for projects requiring large quantities and competitive pricing without compromising basic performance.



Technical Data

| | |
|----------------|--|
| Size range | DN50-DN300 |
| Pressure range | PN 10-16/Class 150/JIS10K |
| Temperature | EPDM : -10°C to +100 °C NBR: - 10°C to + 80 °C VITON :-10°C to + 180°C |
| Design | API609 |
| Face to face | API609 |
| Connection | EN 1092-1 PN16 |
| Coating | Electrostatic Powder Epoxy/Spray |
| Testing | API598 |
| Medium | Water,oil,Gas |

Application Range

- HVAC Systems
- Pumping Stations
- Water Treatment Plants
- Reservoirs and Tanks
- Irrigation
- Industrial Applications

Related Products

- YFZ44T METAL SEAT GATE VALVE
- YFPZ73X KNIFE GATE VALVE
- YFH44X SWING CHECK VALVE



HVAC



IRRIGATION



POTABLE WATER



INDUSTRY

YFD71XB BUTTERFLY VALVE



Product Description

1. Cost-Effective for Standard Scenarios

Balances reliable performance with competitive pricing, perfect for bulk orders and budget-sensitive projects.

2. Compact Wafer Design for Easy Installation

Lightweight wafer-style body enables quick flange-mounted installation, cutting down on handling and setup costs

3. Stable Hard Back Seat & EPDM Sealing

Hard back seat provides structural stability, paired with high-quality EPDM seats offering elasticity, wear resistance, and reliable sealing for water and non-aggressive media.

4. Low-Torque 90° Quick Operation

Optimized internal structure ensures smooth, low-effort quarter-turn operation for fast opening/closing, boosting system efficiency.

5. Durable Corrosion Protection

Epoxy powder coating on the valve body delivers long-lasting resistance to corrosion, suitable for both indoor and outdoor applications.

6. Reliable Shaft Sealing System

Equipped with bushings, O-rings, and oil seals to maintain consistent shaft sealing and prevent leakage.

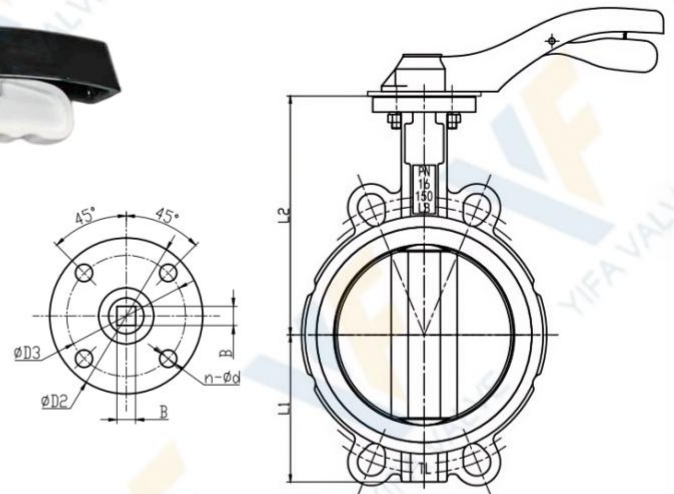
7. Factory-Tested Quality Assurance

100% pressure-tested before delivery with available test reports, ensuring consistent quality and reliability for water supply, drainage, HVAC, and general industrial pipelines.



YFD71XB BUTTERFLY VALVE

Handle DN50-DN300



| No. | Name | Qty. | Materials |
|-----|--------------|------|---------------------|
| 1 | Body | 1 | DI |
| 2 | Bushing | 1 | Combined polymer |
| 3 | Seat | 1 | EPDM/NBR/VITON |
| 4 | Disc | 1 | DI/CF8/CF8M |
| 5 | Stem | 1 | SS410 |
| 6 | Bushing | 3 | Combined polymer |
| 7 | O ring | 1 | EPDM |
| 8 | U collar | 1 | SS201/SS304 |
| 9 | Clamp spring | 1 | Spring steel |
| 10 | Hexagon bolt | 1 | SS201/SS304 |
| 11 | Lever | 1 | SS304/Iron/Aluminum |

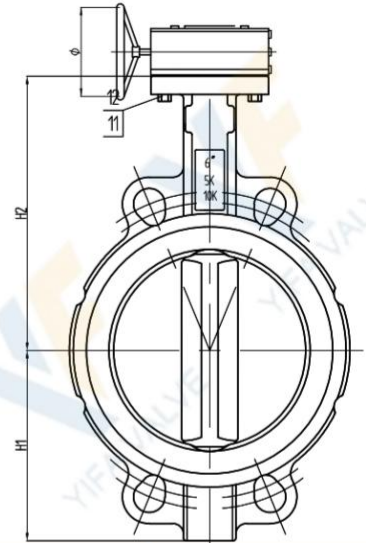
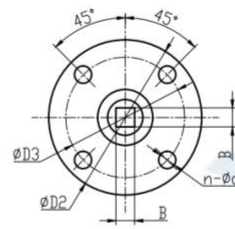
Inspection specification

| | |
|-----------------|---------------|
| PN | 16 |
| Seal test | 1.76 MPa |
| Shell test | 2.4 MPa |
| Suitable medium | Water,Oil,Gas |

| | DN | A | D1 | L1 | L2 | L3 | B | ISO5211 | ØD2 | ØD3 | n-Ød |
|------|-------|----|-------|-----|-----|----|----|---------|-----|-----|------|
| 2" | DN50 | 41 | 76.3 | 68 | 140 | 25 | 6 | F05 | 65 | 50 | 4-8 |
| 2.5" | DN65 | 43 | 89 | 76 | 151 | 25 | 9 | F05 | 65 | 50 | 4-8 |
| 3" | DN80 | 44 | 103.9 | 97 | 159 | 25 | 9 | F05 | 65 | 50 | 4-8 |
| 4" | DN100 | 50 | 135 | 111 | 175 | 28 | 11 | F07 | 90 | 70 | 4-10 |
| 5" | DN125 | 53 | 159 | 123 | 189 | 28 | 14 | F07 | 90 | 70 | 4-10 |
| 6" | DN150 | 54 | 188.4 | 136 | 206 | 28 | 14 | F07 | 90 | 70 | 4-10 |
| 8" | DN200 | 59 | 238.2 | 167 | 231 | 33 | 17 | F10 | 125 | 102 | 4-12 |
| 10" | DN250 | 65 | 292.4 | 204 | 277 | 33 | 22 | F10 | 125 | 102 | 4-12 |
| 12" | DN300 | 76 | 344 | 236 | 317 | 33 | 22 | F10 | 125 | 102 | 4-12 |

YFD71XB BUTTERFLY VALVE

Worm Gear DN50-DN300



Inspection specification

| | |
|-----------------|-----------------|
| PN | 16 |
| Seal test | 1.76 MPa |
| Shell test | 2.4 MPa |
| Suitable medium | Water, Oil, Gas |

| No. | Name | Qty. | Materials |
|-----|--------------|------|------------------|
| 1 | Body | 1 | DI |
| 2 | Bushing | 1 | Combined polymer |
| 3 | Seat | 1 | EPDM/NBR/VITON |
| 4 | Disc | 1 | DI/CF8/CF8M |
| 5 | Stem | 1 | SS410 |
| 6 | Clamp spring | 1 | Spring steel |
| 6 | Bushing | 3 | Combined polymer |
| 7 | O ring | 1 | NBR |
| 8 | U collar | 1 | SS201/SS304 |
| 10 | Wormgear | 1 | Cast iron |

| DN | A | D1 | L1 | L2 | L3 | B | ISO5211 | ØD2 | ØD3 | n-Ød |
|-----------|----|-------|-----|-----|----|----|---------|-----|-----|------|
| 2" DN50 | 41 | 76.3 | 68 | 140 | 25 | 6 | F05 | 65 | 50 | 4-8 |
| 2.5" DN65 | 43 | 89 | 76 | 151 | 25 | 9 | F05 | 65 | 50 | 4-8 |
| 3" DN80 | 44 | 103.9 | 97 | 159 | 25 | 9 | F05 | 65 | 50 | 4-8 |
| 4" DN100 | 50 | 135 | 111 | 175 | 28 | 11 | F07 | 90 | 70 | 4-10 |
| 5" DN125 | 53 | 159 | 123 | 189 | 28 | 14 | F07 | 90 | 70 | 4-10 |
| 6" DN150 | 54 | 188.4 | 136 | 206 | 28 | 14 | F07 | 90 | 70 | 4-10 |
| 8" DN200 | 59 | 238.2 | 167 | 231 | 33 | 17 | F10 | 125 | 102 | 4-12 |
| 10" DN250 | 65 | 292.4 | 204 | 277 | 33 | 22 | F10 | 125 | 102 | 4-12 |
| 12" DN300 | 76 | 344 | 236 | 317 | 33 | 22 | F10 | 125 | 102 | 4-12 |

YFD71XB BUTTERFLY VALVE



Torque

| Size | Pn6 | | PN10 | | Pn16 | |
|--------|--------|-------|--------|-------|--------|-------|
| | ΔP=100 | | ΔP=150 | | ΔP=200 | |
| | WET | DRY | WET | DRY | WET | DRY |
| DN50 | 13 | 20.8 | 13.9 | 22.1 | 15.1 | 24.2 |
| DN65 | 13.8 | 26.1 | 15.4 | 29.2 | 17.2 | 32.7 |
| DN80 | 21 | 39.9 | 21.7 | 41.1 | 23.1 | 43.7 |
| DN100 | 34.9 | 63.8 | 37.1 | 67.8 | 39.8 | 72.8 |
| DN125 | 53.8 | 93.8 | 57.9 | 101 | 61.9 | 108 |
| DN150 | 84.5 | 149 | 93.9 | 165 | 102 | 174 |
| DN200 | 154 | 264 | 173 | 297 | 192 | 330 |
| DN250 | 249 | 423 | 286 | 486 | 323 | 549 |
| DN300 | 371 | 605 | 429 | 699 | 490 | 799 |
| DN350 | 466 | 699 | 550 | 825 | 625 | 969 |
| DN400 | 632 | 947 | 755 | 1133 | 846 | 1307 |
| DN450 | 831 | 1246 | 1012 | 1518 | 1131 | 1787 |
| DN500 | 1093 | 1639 | 1350 | 2025 | 1431 | 2288 |
| DN600 | 1679 | 2519 | 2111 | 3166 | 2301 | 3711 |
| DN700 | 3010 | 4515 | 3272 | 4908 | 4253 | 6380 |
| DN750 | 3487 | 5231 | 3767 | 5650 | 4897 | 7345 |
| DN800 | 3963 | 6103 | 4308 | 6462 | 5600 | 8400 |
| DN900 | 4913 | 7369 | 5257 | 7886 | 6834 | 10251 |
| DN1000 | 8367 | 12550 | 8926 | 13389 | 11603 | 17405 |
| DN1050 | 8433 | 12649 | 9024 | 13536 | 11731 | 17596 |
| DN1200 | 11733 | 17600 | 12555 | 18833 | 16321 | 24482 |

Note:

- 1、The above "WET" means the test fluid is water or other non-lubricating mediums." DRY" means the test medium is dry compressed air.
- 2、When the valve serves in a too low working temperature, operating torque will increase with the consequence of increased hardness of rubber in low temperature.

YFD71XB

BUTTERFLY VALVE



Pressure drops

| DN | Kv | Cv |
|-----|-------|-------|
| 50 | 167 | 160 |
| 65 | 290 | 275 |
| 80 | 380 | 365 |
| 100 | 650 | 620 |
| 125 | 1165 | 1115 |
| 150 | 1520 | 1450 |
| 200 | 2835 | 2710 |
| 250 | 4485 | 4285 |
| 300 | 5675 | 5420 |
| 350 | 7130 | 6810 |
| 400 | 9220 | 8805 |
| 450 | 11465 | 10950 |
| 500 | 14940 | 14270 |
| 600 | 21875 | 20895 |

$$Kv = Q \sqrt{\frac{d'}{\Delta P}}$$

$$\Delta P = \left(\frac{Q}{Kv} \right)^2 d$$

Kv: flow coefficient. Flow of water in m³/h passing through the valve and generating a pressure drop of 1 bar.

Q: flow in m³/h

Δ P: pressure drop in bar

d: relative density of the fluid (1 in the case of water at 4°C)

$$Cv = Q \sqrt{\frac{d}{\Delta P}}$$

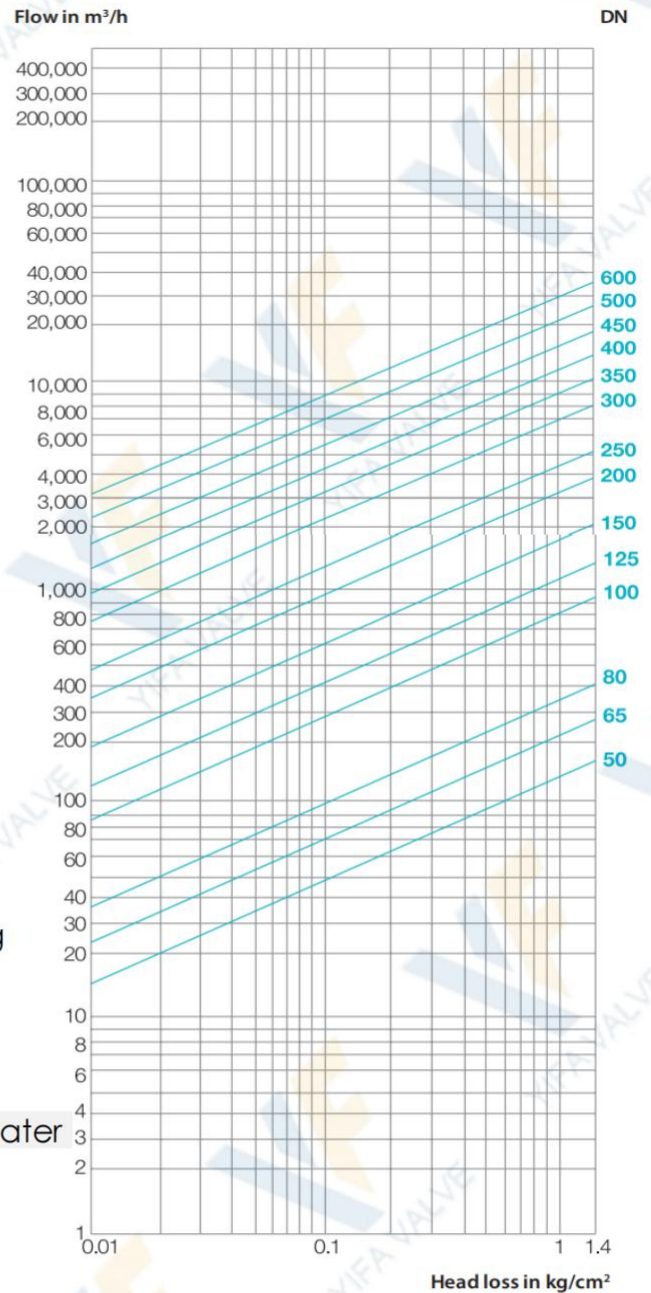
$$\Delta P = \left(\frac{Q}{Cv} \right)^2 d$$

Cv: gallons per minute that pass through the valve for the pressure drop to be 1 psi.

Q: flow in gallons/min

Δ P: pressure drop in psi

d: relative density of the fluid (1 in the case of water at 60°F)



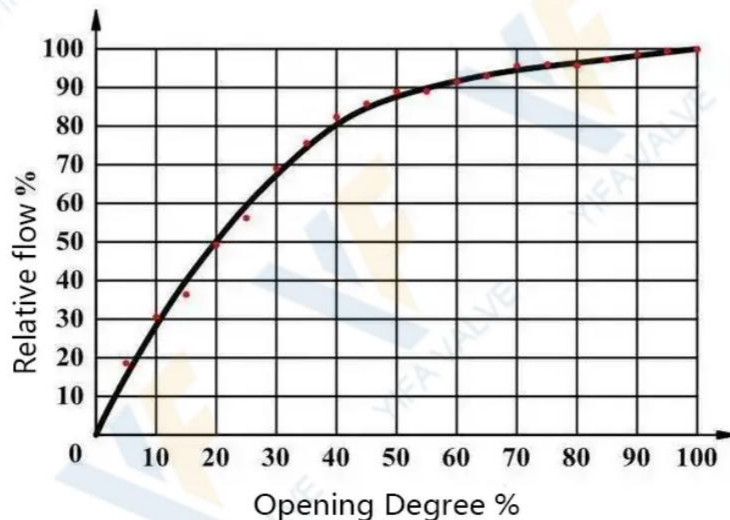
YFD71XB BUTTERFLY VALVE



Cv Value

Concentric Butterfly Valve Flow Coefficient Cv Value (in²)

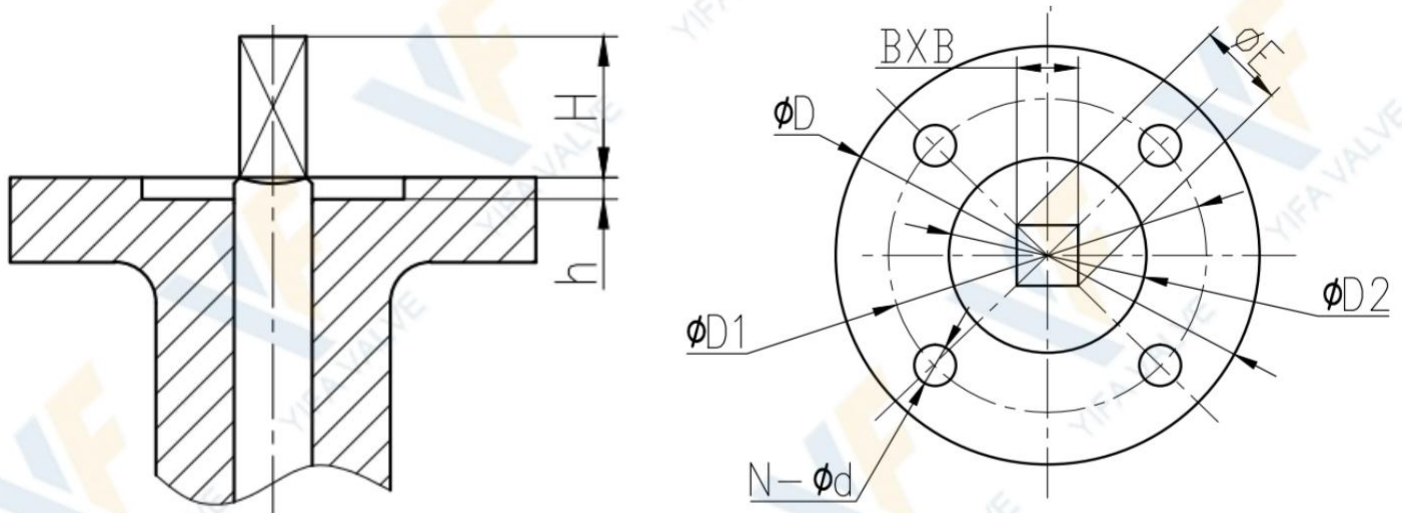
| SIZE | | Valve opening angle | | | | | | | | |
|------|-----|---------------------|------|-------|-------|-------|-------|-------|--------|--------|
| DN | NPS | 10° | 20° | 30° | 40° | 50° | 60° | 70° | 80° | 90° |
| 50 | 2 | 0.06 | 3 | 7 | 15 | 27 | 44 | 70 | 105 | 115 |
| 65 | 2½ | 0.1 | 6 | 12 | 25 | 45 | 75 | 119 | 178 | 196 |
| 80 | 3 | 0.2 | 9 | 18 | 39 | 70 | 116 | 183 | 275 | 302 |
| 100 | 4 | 0.3 | 17 | 36 | 78 | 139 | 230 | 364 | 546 | 600 |
| 125 | 5 | 0.5 | 29 | 61 | 133 | 237 | 392 | 620 | 930 | 1022 |
| 150 | 6 | 0.8 | 34 | 95 | 153 | 257 | 422 | 706 | 1154 | 1579 |
| 200 | 8 | 2 | 56 | 154 | 251 | 422 | 693 | 1158 | 1892 | 2165 |
| 250 | 10 | 3 | 87 | 238 | 385 | 654 | 1073 | 1794 | 2931 | 3353 |
| 300 | 12 | 4 | 153 | 417 | 681 | 1145 | 1879 | 3142 | 5132 | 5827 |
| 350 | 14 | 6 | 183 | 500 | 816 | 1372 | 2252 | 3765 | 6150 | 7037 |
| 400 | 16 | 8 | 271 | 740 | 1208 | 2031 | 3333 | 5573 | 9104 | 10416 |
| 450 | 18 | 11 | 318 | 867 | 1417 | 2382 | 3909 | 6535 | 10676 | 12215 |
| 500 | 20 | 14 | 415 | 1133 | 1851 | 3112 | 5107 | 8538 | 13948 | 15959 |
| 600 | 24 | 22 | 541 | 1482 | 2421 | 4069 | 6678 | 11165 | 18240 | 20869 |
| 700 | 28 | 36 | 1813 | 3639 | 6636 | 10000 | 19449 | 22768 | 34898 | 49500 |
| 750 | 30 | 37 | 2080 | 4406 | 9546 | 17010 | 28147 | 44545 | 66818 | 73426 |
| 800 | 32 | 45 | 2387 | 4791 | 8736 | 13788 | 20613 | 31395 | 48117 | 38250 |
| 900 | 36 | 260 | 3050 | 6730 | 12740 | 20220 | 32500 | 52500 | 79600 | 87500 |
| 1000 | 40 | 284 | 4183 | 8395 | 15307 | 24159 | 36166 | 55084 | 84425 | 119750 |
| 1050 | 42 | 350 | 4095 | 9040 | 17108 | 27150 | 43640 | 70500 | 106890 | 117500 |
| 1200 | 48 | 455 | 5365 | 11840 | 22400 | 30600 | 51200 | 92300 | 140000 | 154000 |



YFD71XB BUTTERFLY VALVE



Top Flange



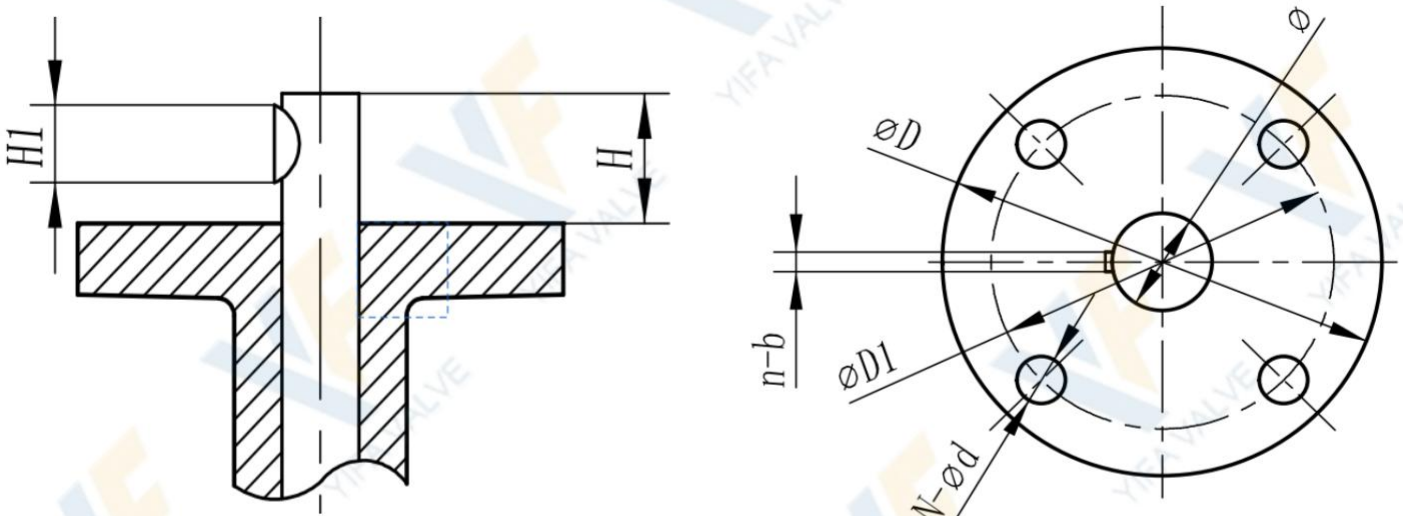
ISO5211 Top Flange DN50-DN600
Square Stem

| SIZE | ϕD | $\phi D1$ | $\phi D2$ | N- ϕd | h | H | BxB | | ϕE |
|-------|----------|-----------|-----------|-------------|---|----|-------|------|----------|
| | | | | | | | PN10 | PN16 | |
| DN50 | 65 | 50 | 35 | 4-8 | 4 | 25 | 9X9 | | 12.6 |
| DN65 | 65 | 50 | 35 | 4-8 | 4 | 25 | 9X9 | | 12.6 |
| DN80 | 65 | 50 | 35 | 4-8 | 4 | 25 | 9X9 | | 12.6 |
| DN100 | 90 | 70 | 55 | 4-10 | 4 | 28 | 11X11 | | 15.8 |
| DN125 | 90 | 70 | 55 | 4-10 | 4 | 28 | 14X14 | | 18.9 |
| DN150 | 90 | 70 | 55 | 4-10 | 4 | 28 | 14X14 | | 18.9 |
| DN200 | 125 | 102 | 70 | 4-12 | 4 | 33 | 17X17 | | 22.1 |
| DN250 | 125 | 102 | 70 | 4-12 | 4 | 33 | 22X22 | | 28.45 |
| DN300 | 125 | 102 | 70 | 4-12 | 4 | 33 | 22X22 | | 31.6 |
| DN350 | 125 | 102 | 70 | 4-12 | 4 | 45 | 22X22 | | 31.6 |
| DN400 | 175 | 140 | 100 | 4-18 | 5 | 52 | 27 | | 33.15 |
| DN450 | 175 | 140 | 100 | 4-18 | 5 | 52 | 27 | | 38 |
| DN500 | 175 | 140 | 100 | 4-18 | 5 | 64 | 32 | | 41.15 |
| DN600 | 210 | 165 | 130 | 4-22 | 6 | 70 | 36 | | 50.65 |

YFD71XB BUTTERFLY VALVE



Top Flange



ISO5211 Top Flange DN50-DN1200
Round Stem

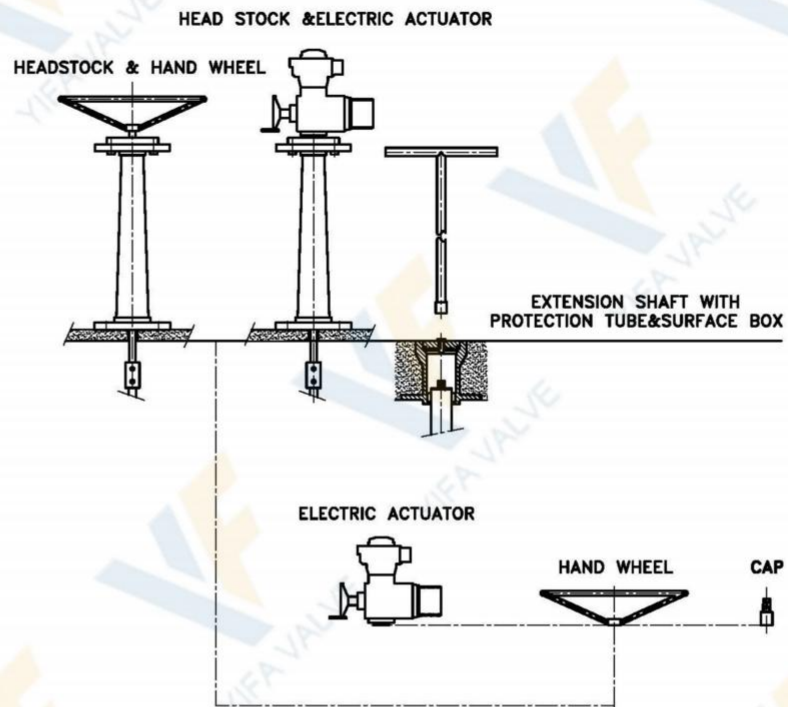
| DN mm | ISO5211 | ØD | ØD1 | N-Ød | n-b | | H1 | H | Ø | |
|----------|---------|-----|-----|------|------|------|------|-----|-------|-------|
| | | | | | PN10 | PN16 | | | PN10 | PN16 |
| 50 | F05 | 65 | 50 | 4-8 | 1-3 | | 15.7 | 32 | 12.6 | |
| 65 | F05 | 65 | 50 | 4-8 | 1-3 | | 15.7 | 32 | 12.6 | |
| 80 | F05 | 65 | 50 | 4-8 | 1-3 | | 15.7 | 32 | 12.6 | |
| 100 | F07 | 90 | 70 | 4-10 | 1-5 | | 18.6 | 32 | 15.77 | |
| 125 | F07 | 90 | 70 | 4-10 | 1-5 | | 18.6 | 32 | 18.92 | |
| 150 | F07 | 90 | 70 | 4-10 | 1-5 | | 18.6 | 32 | 18.92 | |
| 200 | F10 | 125 | 102 | 4-12 | 1-5 | | 27.4 | 45 | 22.1 | |
| 250 | F10 | 125 | 102 | 4-12 | 1-8 | | 27.4 | 45 | 28.5 | |
| 300 | F10 | 125 | 102 | 4-12 | 1-8 | | 27.4 | 45 | 31.7 | |
| 350 | F10 | 125 | 102 | 4-12 | 1-8 | | 27.4 | 45 | 31.7 | |
| 400 | F14 | 175 | 140 | 4-18 | 1-10 | | 45 | 52 | 33.15 | 37.95 |
| 450 | F14 | 175 | 140 | 4-18 | 1-10 | 1-12 | 45 | 52 | 38.00 | 42.86 |
| 500 | F14 | 175 | 140 | 4-18 | 1-12 | 1-14 | 55 | 64 | 41.15 | 45.72 |
| 550 | F16 | 210 | 165 | 4-22 | 1-16 | | 60 | 64 | 50.65 | |
| 600 | F16 | 210 | 165 | 4-22 | 1-16 | 2-16 | 65 | 70 | 50.65 | 53.98 |
| 700 | F25 | 300 | 254 | 8-18 | 2-18 | | 85 | 95 | 63.35 | |
| 750 | F25 | 300 | 254 | 8-18 | 2-18 | | 85 | 95 | 63.35 | |
| 800 | F25 | 300 | 254 | 8-18 | 2-18 | | 85 | 95 | 63.35 | |
| 900 | F25 | 300 | 254 | 8-18 | 2-20 | | 130 | 130 | 75 | |
| 1000 | F25 | 300 | 254 | 8-18 | 2-22 | | 130 | 130 | 85 | |
| 1050 | F25 | 300 | 254 | 8-18 | 2-22 | | 150 | 150 | 85 | |
| 1100 | F25 | 300 | 254 | 8-18 | 2-22 | | 150 | 150 | 85 | |
| 1200 | F30 | 350 | 298 | 8-22 | 2-28 | | 150 | 150 | 100 | |

YFD71XB BUTTERFLY VALVE



Selection for Actuator

YIFA offers butterfly valves with various actuation options. Thanks to quarter-turn operation, they are easy to use and ideal for automation. Actuation options include manual, pneumatic, electric, and hydraulic, with ON/OFF or modulating control.

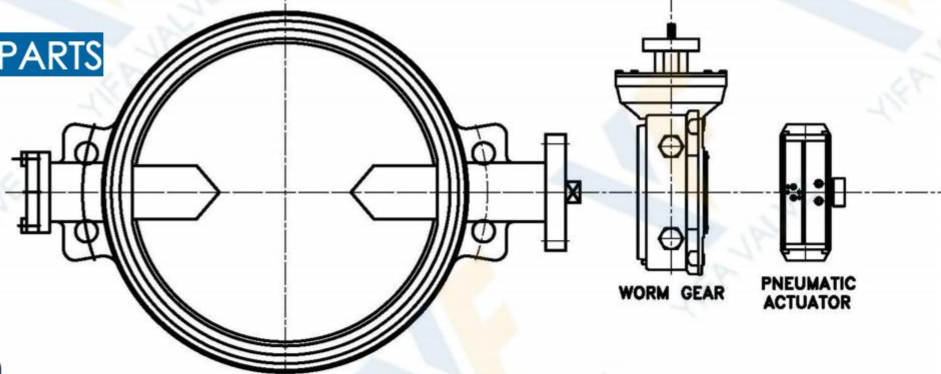


SELECTION FOR SPARE PARTS

- Solenoid valve
- Air filter
- Limit switch
- Proximity switch
- Positioner
- Distribution box

• Hoist for platform operation

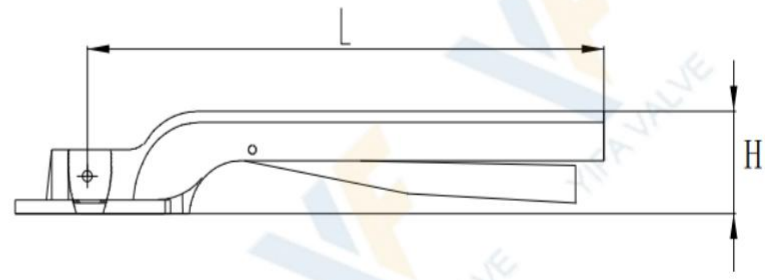
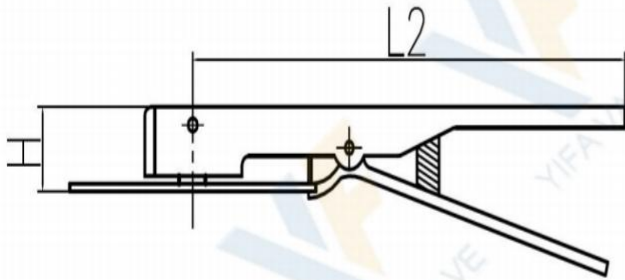
If customers have special requirements for valve stem, they shall provide the distance from platform to center of valve pipeline.



YFD71XB BUTTERFLY VALVE



Handle



Iron/SS304 Handle

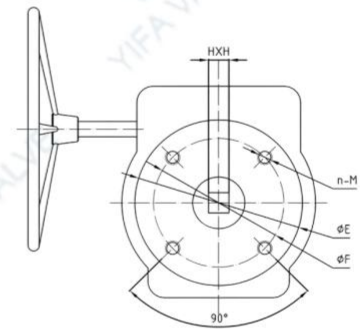
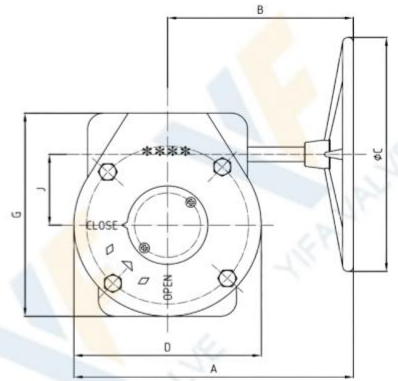
| DN | H | L2 | Square | TopFlange |
|-----|----|-----|--------|-----------|
| 50 | 27 | 240 | 9 | F05 |
| 65 | 27 | 240 | 9 | F05 |
| 80 | 27 | 240 | 9 | F05 |
| 100 | 27 | 240 | 11 | F07 |
| 125 | 27 | 255 | 14 | F07 |
| 150 | 27 | 255 | 14 | F07 |
| 200 | 32 | 360 | 17 | F10 |
| 250 | 32 | 350 | 22 | F10 |
| 300 | 32 | 350 | 22 | F10 |

| DN | H | L2 | Square | TopFlange |
|-----|----|-----|--------|-----------|
| 50 | 60 | 197 | 9 | F05 |
| 65 | 60 | 197 | 9 | F05 |
| 80 | 60 | 197 | 9 | F05 |
| 100 | 67 | 207 | 11 | F07 |
| 125 | 72 | 277 | 14 | F07 |
| 150 | 72 | 277 | 14 | F07 |
| 200 | 90 | 324 | 17 | F10 |



YFD71XB BUTTERFLY VALVE

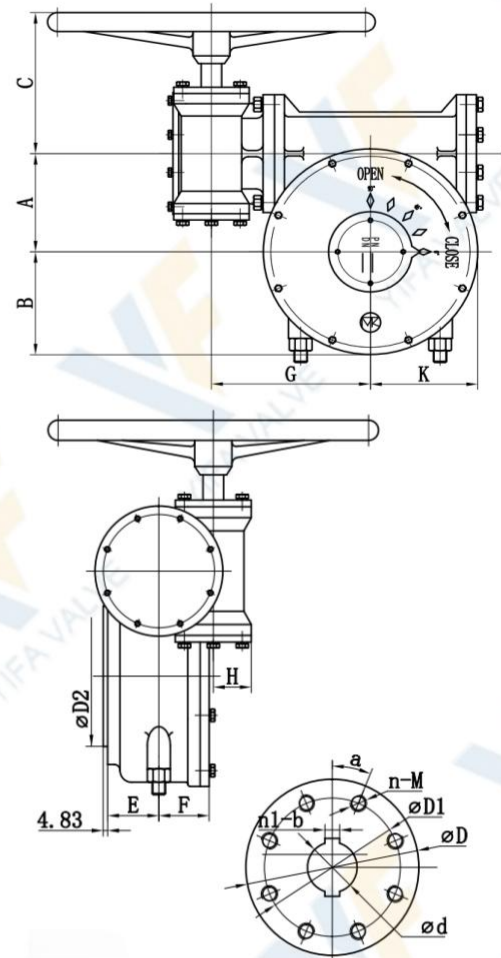
Worm Gear Box DN40-DN350



| Size | | Ratio | Torque (N.m) | INFORMACION | | | | | | REDUCTOR | | | | | ISO 5211 |
|-------|------|-------|--------------|-------------|-----|-----|-----|----|-----|----------|-----|-----|-------|-------|----------|
| mm | Inch | | | A | B | ØC | D | J | G | T | ØE | ØF | n-M | HXH | |
| DN40 | 1.5" | 24:1 | 150 | 212 | 160 | 150 | 104 | 45 | 125 | 68 | 90 | 70 | 4-M8 | 9X9 | F07 |
| DN50 | 2" | 24:1 | 150 | 212 | 160 | 150 | 104 | 45 | 125 | 68 | 90 | 70 | 4-M8 | 9×9 | F07 |
| DN65 | 2.5" | 24:1 | 150 | 212 | 160 | 150 | 104 | 45 | 125 | 68 | 90 | 70 | 4-M8 | 9X9 | F07 |
| DN80 | 3" | 24:1 | 150 | 212 | 160 | 150 | 104 | 45 | 125 | 68 | 90 | 70 | 4-M8 | 9×9 | F07 |
| DN100 | 4" | 24:1 | 150 | 212 | 160 | 150 | 104 | 45 | 125 | 68 | 90 | 70 | 4-M8 | 11X11 | F07 |
| DN125 | 5" | 24:1 | 150 | 212 | 160 | 150 | 104 | 45 | 125 | 68 | 90 | 70 | 4-M8 | 14X14 | F07 |
| DN150 | 6" | 24:1 | 150 | 212 | 160 | 150 | 104 | 45 | 125 | 68 | 90 | 70 | 4-M8 | 14×14 | F07 |
| DN200 | 8" | 30:1 | 500 | 300 | 227 | 285 | 145 | 63 | 170 | 72 | 125 | 102 | 4-M10 | 17X17 | F10 |
| DN250 | 10" | 30:1 | 500 | 300 | 227 | 285 | 145 | 63 | 170 | 72 | 125 | 102 | 4-M10 | 22×22 | F10 |
| DN300 | 12" | 50:1 | 1200 | 305 | 227 | 285 | 155 | 78 | 190 | 75 | 150 | 125 | 4-M12 | 22X22 | F12 |
| DN350 | 14" | 50:1 | 1200 | 305 | 227 | 285 | 155 | 78 | 190 | 75 | 150 | 125 | 4-M12 | 22X22 | F12 |

YFD71XB BUTTERFLY VALVE

Worm Gear Box DN400-DN1200



| DN | Ratio | Torque (N.m) | A | B | C | D | D1 | D2 | h | E | F | H | G | K | φ | n-M | a | d | n1-b |
|---------------|-------|--------------|-----|-----|-----|-----|-----|-----|---|-----|----|------|-------|-----|-----|-------|------|------|------|
| DN400 | 560:1 | 2.5 × 103 | 100 | 105 | 148 | 197 | 140 | / | / | 64 | 60 | 45 | 172.5 | 105 | 300 | 4-M16 | 45 | 33.2 | 1-10 |
| DN450 | 560:1 | 2.5 × 103 | 100 | 105 | 148 | 197 | 140 | / | / | 64 | 60 | 45 | 172.5 | 105 | 300 | 4-M16 | 45 | 38 | 1-10 |
| DN500 | 560:1 | 2.5 × 103 | 100 | 105 | 148 | 197 | 140 | / | / | 64 | 60 | 45 | 172.5 | 105 | 300 | 4-M16 | 45 | 41.2 | 1-12 |
| DN600 | 640:1 | 4 × 103 | 125 | 131 | 176 | 210 | 165 | / | / | 64 | 66 | 46.5 | 200 | 131 | 300 | 4-M20 | 45 | 50.7 | 1-16 |
| DN700/ 800 | 704:1 | 8 × 103 | 140 | 146 | 198 | 300 | 254 | 200 | 4 | 74 | 88 | 55 | 228 | 146 | 400 | 8-M16 | 22.5 | 63.4 | 2-18 |
| DN900 | 704:1 | 15 × 103 | 162 | 177 | 200 | 300 | 254 | 200 | 4 | 98 | 88 | 55 | 248 | 177 | 450 | 8-M18 | 22.5 | 75 | 2-20 |
| DN1000 | 704:1 | 15 × 103 | 162 | 177 | 200 | 300 | 254 | 200 | 4 | 98 | 88 | 55 | 248 | 177 | 450 | 8-M18 | 22.5 | 85 | 2-22 |
| DN1200 | 575:1 | 25 × 103 | 236 | 179 | 205 | 350 | 298 | 230 | 4 | 127 | 99 | 60 | 310 | 249 | 450 | 8-M20 | 22.5 | 105 | 2-28 |

BUTTERFLY VALVE

Installation

Pre-Installation Instructions

1. Before installation, clean the pipeline by blowing with air to remove foreign objects, and flush the inner surface with clean water.
2. Carefully check whether the valve specifications match the working conditions (temperature and pressure).
3. Inspect the valve passage and sealing surfaces for any debris, and remove it if found.
4. After unpacking, install the valve as soon as possible. Do not loosen any bolts or nuts on the valve.
5. Wafer butterfly valves must be installed with suitable mating flanges (dedicated butterfly valve flanges are recommended).
6. Electric butterfly valves can be installed at any angle. However, installation upside down is not recommended for easier maintenance.

During installation, ensure that the flange faces and rubber seat are properly aligned.

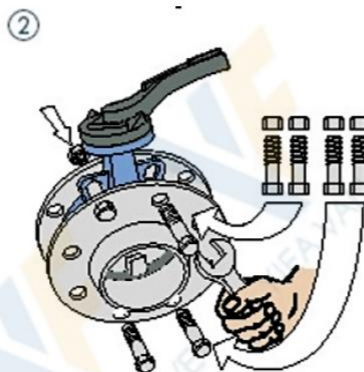
Bolts must be tightened evenly. Uneven tightening may cause deformation of the rubber seat, which can obstruct the disc or lead to leakage at the stem.

Installation Steps

1. Place the valve between the two pre-installed flanges. Ensure that all bolt holes are properly aligned.



2. Insert the bolts and nuts (at least four sets) into the flange holes and lightly tighten them to adjust flange alignment.

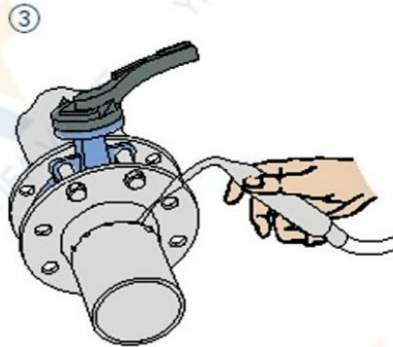


YFD71XB BUTTERFLY VALVE

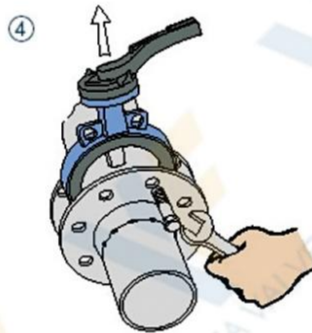


Installation

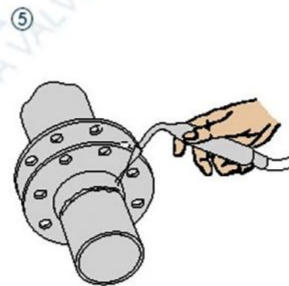
3.
Fix the flanges to the pipeline by spot welding.



4.
Remove the valve from between the flanges.



5.
Fully weld the flanges onto the pipeline.



6.
After the welds have completely cooled, reinstall the valve.
Ensure there is sufficient clearance between the valve and flanges to avoid damage, and keep the disc slightly open.



Important Notes

The valve must be placed flat before installation. Avoid impact or collision.

Do not forcibly stretch or compress the valve during installation.

Do not disassemble the valve without proper authorization.

After installation, it is recommended to provide proper pipeline support.

Once supports are installed, they must not be removed during operation.

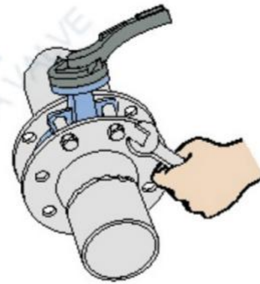
YFD71XB BUTTERFLY VALVE



Installation

7.
Adjust the valve position and tighten the bolts
(do not overtighten).

⑦



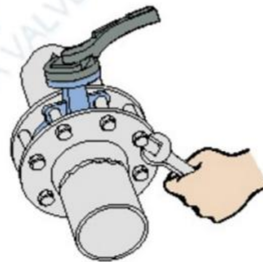
8.
Open the valve to ensure the disc can move
freely, then keep the disc slightly open.

⑧



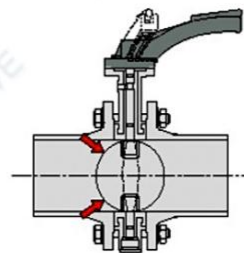
9.
Tighten all bolts evenly in a cross
(diagonal) pattern.

⑨



10.
Perform a final check to ensure the valve opens and closes freely.
Make sure the disc does not touch the pipeline.

⑩



Important Notes

The valve must be placed flat before installation. Avoid impact or collision.

Do not forcibly stretch or compress the valve during installation.

Do not disassemble the valve without proper authorization.

After installation, it is recommended to provide proper pipeline support.

Once supports are installed, they must not be removed during operation.

Seal parts

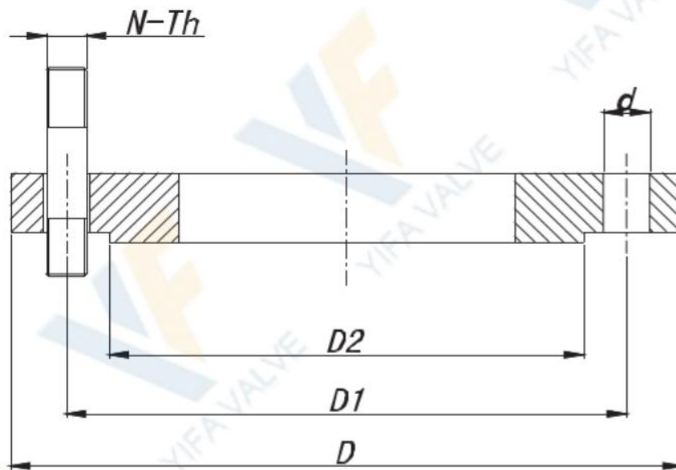
| Parts | Characteristic | Low/High Temperature | | Recommended |
|----------------------|---|-----------------------|------|-------------|
| | | | | |
| NR | High elasticity | -20 | 85 | -5~70 |
| NBR | Oil resistivity | -30 | 100 | -15~90 |
| EPDM | Aging resistance, ozone resistance, corrosion resistance | -40 | 125 | -25~110 |
| HT EPDM | Same as above, added heat resistance | -40 | 150 | -25~135 |
| SBR (wear-resistant) | Excellent traction performance and wear resistance | -30 | 100 | -15~80 |
| CR (neoprene) | Oil, heat, flame, sunlight, ozone, acid and alkali resistance | -30 | 125 | -15~100 |
| Hypalon | Oxidation resistance, resistance to winding and cracking | -40 | 120 | -25~110 |
| FPM (viton) | Chemical and most oils resistance, (except ketones & esters) | -20 | 200 | -5~150 |
| MVQ (silicon) | High and low temperature resistance, oil, corrosion resistance | -55 | 200 | -30~180 |
| PU | Chemical, oil, wear, low temperature, aging resistance | -20 | 120 | -5~90 |
| FEP (F46) | Chemical resistance, radiation resistance | -20 | 150 | -5~120 |
| PTFE | Heat, cold, acid, alkali, organic solvents resistant | -60 | 180 | -45~150 |
| RPTFE | Corrosion resistance, low friction coefficient | -60 | 180 | -45~150 |
| PFA | Excellent chemical corrosion resistance, low friction coefficient | -196 | 200 | -60~180 |
| PPL | High temperature and chemical corrosion resistance | -60 | 230 | -45~200 |
| UPVC | Corrosion and pressure resistance, hygiene | -30 | 100 | -15~80 |
| CPVC | Corrosion and pressure resistance, hygiene | -30 | 110 | -15~95 |
| PVDF | Anti aging and chemical resistance | -30 | 100 | -15~70 |
| PEEK | High temperature and chemical resistance | -60 | 300 | -45~260 |
| Flexible graphite | Cold and hot resistant, corrosion resistant, self-lubricating | -200 | 600 | -60~550 |
| Ceramic fiber | Fire, high temperature resistance, low thermal conductivity | -200 | 1050 | -60~950 |
| Metal to metal | High temperature, high pressure, wear, corrosion resistance | Refer to the material | | |

Unit: Degree

Inspection Standards and Requirements

| Inspection Standards and Requirements | | | | | | | |
|---------------------------------------|------------------------------|------------------------------------|------------------------------------|----------------------------|------------------------------------|---|---------------------------|
| | | ISO5208:2008 / GB/T13927 | | | API598-2004 | | |
| Shell strength | Medium temperature | 5~40 | | | 5~40 | | |
| | Medium | Water, kerosene, air, suitable gas | | | Water, kerosene, air, suitable gas | | |
| | Test pressure | Norminal pressure (PN)×1.5 | | | Norminal pressure×1.5 | | |
| | Minimum duration of the test | DN | Seconds | | NPS | Check valve | Others |
| | | ≤50 | 15 | | ≤2" | 60 | 15 |
| | | 65~200 | 60 | | 2½"~6" | 60 | 60 |
| ≥250 | | 180 | | 8"~12" | 60 | 120 | |
| Assessment | No visible leakage allowed | | | No visible leakage allowed | | | |
| Back seal | Test pressure | DN | PN | Pressure | NPS | Class | Pressure |
| | | ≤80 | All | 0.6Mpa | All | ≤300 | 0.4~0.7Mpa |
| | | 100~200 | ≤5.0 | 0.6Mpa | | | |
| | | 100~200 | >5.0 | PN × 1.1 | | >300 | Class x 1.1 |
| | ≥250 | All | PN × 1.1 | | | | |
| Assessment | No visible leakage allowed | | | No visible leakage allowed | | | |
| High pressure sealing test | Test pressure | DN | PN | Pressure | Class | Ductile iron | Steel |
| | | ≤80 | All | PN × 1.1 (liquid) | 150 | 1.7 Mpa | Class x 1.1 |
| | | 100~200 | ≤5.0 | 0.5~0.7Mpa (air) | | | |
| | | 100~200 | >5.0 | PN × 1.1 (liquid) | 300 | 4.4 Mpa | |
| | | ≥250 | All | 0.5~0.7Mpa (air) | | | |
| | | 100~200 | >5.0 | PN × 1.1 (liquid) | 300 | 4.4 Mpa | |
| | ≥250 | All | PN × 1.1 (liquid) | | | | |
| | Minimum duration of the test | DN | Metal seal | Resilient seal | NPS | Check valve | Others |
| | | ≤50 | 15 | 15 | ≤2" | 60 | 15 |
| | | 65~200 | 30 | 15 | 2½"~6" | 60 | 60 |
| | | 250~450 | 60 | 30 | 8"~12" | 60 | 120 |
| | | ≥500 | 120 | 60 | ≥14" | 120 | 120 |
| | Assessment | Class (level) | Liquid leakage | Air leakage | NPS | Liquid & Air | Liquid & Air |
| | | A | No visible leakage allowed (mm3/s) | | ≤2" | Liquid:3cm³/in. min Air:0.042m³/ in.h | 0 drop(bubble)/ min |
| | | B | DN x 0.01 | DN x 0.3 | 2½"~6" | | 12 & 24 |
| | | C | DN x 0.03 | DN x 3 | 8"~12" | | 20 & 40 |
| D | DN x 0.1 | DN x 30 | ≥14" | | | 2 & 4 / in ·min | |
| Low pressure sealing test | Medium | Air, suitable gas | | | Air, suitable gas | | |
| | Test pressure | 0.5~0.7 Mpa | | | 0.4~0.7 Mpa | | |
| | | DN | Metal seal | Resilient seal | NPS | Check valve | Others |
| | | ≤50 | 15 | 15 | ≤2" | 60 | 15 |
| | Minimum duration of the test | 65~200 | 30 | 15 | 2½"~6" | 60 | 60 |
| | | 250~450 | 60 | 30 | 8"~12" | 60 | 120 |
| | | ≥500 | 120 | 60 | ≥14" | 120 | 120 |
| | Assessment | Class (level) | Air leakage | | NPS | Air leakage | |
| | | A | No visible leakage allowed (mm3/s) | | ≤2" | | 0 bubble /min |
| | | B | DN x 0.3 | | 2½"~6" | 0.042 m3/in ·h | 24 |
| C | | DN x 3 | | 8"~12" | | 40 | |
| D | | DN x 30 | | ≥14" | | 4 / in ·min | |

Flange connection dimensions



- D- Flange outer diameter
- D1- Bolt circle diameter
- D2- Diameter of sealing surface
- N-Th Bolt size
- d- Bolt hole diameter

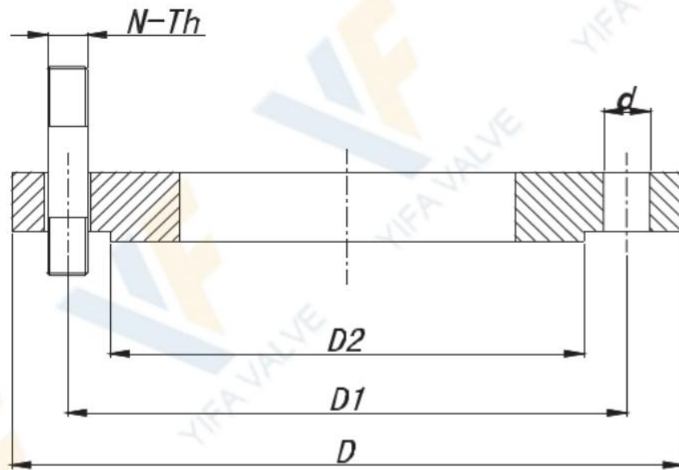
PN10 (DIN2632)

| DN | D | D1 | D2 | N-Th | d |
|------|------|------|------|--------|-----|
| 50 | 165 | 125 | 102 | 4-M16 | Φ18 |
| 65 | 185 | 145 | 122 | 4-M16 | Φ18 |
| 80 | 200 | 160 | 138 | 8-M16 | Φ18 |
| 100 | 220 | 180 | 158 | 8-M16 | Φ18 |
| 125 | 250 | 210 | 188 | 8-M16 | Φ18 |
| 150 | 285 | 240 | 212 | 8-M20 | Φ23 |
| 200 | 340 | 295 | 268 | 12-M20 | Φ23 |
| 250 | 405 | 355 | 320 | 12-M24 | Φ27 |
| 300 | 460 | 410 | 378 | 12-M24 | Φ27 |
| 350 | 520 | 470 | 438 | 16-M24 | Φ27 |
| 400 | 580 | 525 | 490 | 16-M27 | Φ30 |
| 450 | 640 | 585 | 550 | 20-M27 | Φ30 |
| 500 | 715 | 650 | 610 | 20-M30 | Φ33 |
| 600 | 840 | 770 | 725 | 20-M33 | Φ36 |
| 700 | 910 | 840 | 795 | 24-M33 | Φ36 |
| 800 | 1025 | 950 | 900 | 24-M36 | Φ39 |
| 900 | 1125 | 1050 | 1000 | 28-M36 | Φ39 |
| 1000 | 1255 | 1170 | 1115 | 28-M39 | Φ42 |
| 1200 | 1485 | 1390 | 1330 | 32-M45 | Φ48 |
| 1400 | 1685 | 1590 | 1530 | 36-M45 | Φ48 |
| 1600 | 1930 | 1820 | 1750 | 40-M52 | Φ56 |
| 1800 | 2130 | 2020 | 1950 | 44-M52 | Φ56 |
| 2000 | 2345 | 2230 | 2150 | 48-M56 | Φ62 |

PN16 (DIN2632)

| DN | D | D1 | D2 | N-Th | d |
|------|------|------|------|--------|-----|
| 50 | 165 | 125 | 102 | 4-M16 | Φ18 |
| 65 | 185 | 145 | 122 | 4-M16 | Φ18 |
| 80 | 200 | 160 | 138 | 8-M16 | Φ18 |
| 100 | 220 | 180 | 158 | 8-M16 | Φ18 |
| 125 | 250 | 210 | 188 | 8-M16 | Φ18 |
| 150 | 285 | 240 | 212 | 8-M20 | Φ23 |
| 200 | 340 | 295 | 268 | 12-M20 | Φ23 |
| 250 | 405 | 355 | 320 | 12-M24 | Φ27 |
| 300 | 460 | 410 | 378 | 12-M24 | Φ27 |
| 350 | 520 | 470 | 438 | 16-M24 | Φ27 |
| 400 | 580 | 525 | 490 | 16-M27 | Φ30 |
| 450 | 640 | 585 | 550 | 20-M27 | Φ30 |
| 500 | 715 | 650 | 610 | 20-M30 | Φ33 |
| 600 | 840 | 770 | 725 | 20-M33 | Φ36 |
| 700 | 910 | 840 | 795 | 24-M33 | Φ36 |
| 800 | 1025 | 950 | 900 | 24-M36 | Φ39 |
| 900 | 1125 | 1050 | 1000 | 28-M36 | Φ39 |
| 1000 | 1255 | 1170 | 1115 | 28-M39 | Φ42 |
| 1200 | 1485 | 1390 | 1330 | 32-M45 | Φ48 |
| 1400 | 1685 | 1590 | 1530 | 36-M45 | Φ48 |
| 1600 | 1930 | 1820 | 1750 | 40-M52 | Φ56 |
| 1800 | 2130 | 2020 | 1950 | 44-M52 | Φ56 |
| 2000 | 2345 | 2230 | 2150 | 48-M56 | Φ62 |

Flange connection dimensions



- D- Flange outer diameter
- D1- Bolt circle diameter
- D2- Diameter of sealing surface
- N-Th Bolt size
- d- Bolt hole diameter

PN10 (GB/T9113.1)

| DN | D | D1 | D2 | N-Th | d |
|------|------|------|------|--------|-----|
| 50 | 165 | 125 | 99 | 4-M16 | Φ18 |
| 65 | 185 | 145 | 118 | 4-M16 | Φ18 |
| 80 | 200 | 160 | 132 | 8-M16 | Φ18 |
| 100 | 220 | 180 | 156 | 8-M16 | Φ18 |
| 125 | 250 | 210 | 184 | 8-M16 | Φ18 |
| 150 | 285 | 240 | 211 | 8-M20 | Φ23 |
| 200 | 340 | 295 | 266 | 8-M20 | Φ23 |
| 250 | 395 | 350 | 319 | 12-M20 | Φ23 |
| 300 | 445 | 400 | 370 | 12-M20 | Φ23 |
| 350 | 505 | 460 | 429 | 16-M20 | Φ23 |
| 400 | 565 | 515 | 480 | 16-M24 | Φ27 |
| 450 | 615 | 565 | 530 | 20-M24 | Φ27 |
| 500 | 670 | 620 | 582 | 20-M24 | Φ27 |
| 600 | 780 | 725 | 682 | 20-M27 | Φ30 |
| 700 | 895 | 840 | 794 | 24-M27 | Φ30 |
| 800 | 1015 | 950 | 901 | 24-M30 | Φ33 |
| 900 | 1115 | 1050 | 1001 | 28-M30 | Φ33 |
| 1000 | 1230 | 1160 | 1112 | 28-M33 | Φ36 |
| 1200 | 1455 | 1380 | 1328 | 32-M36 | Φ39 |

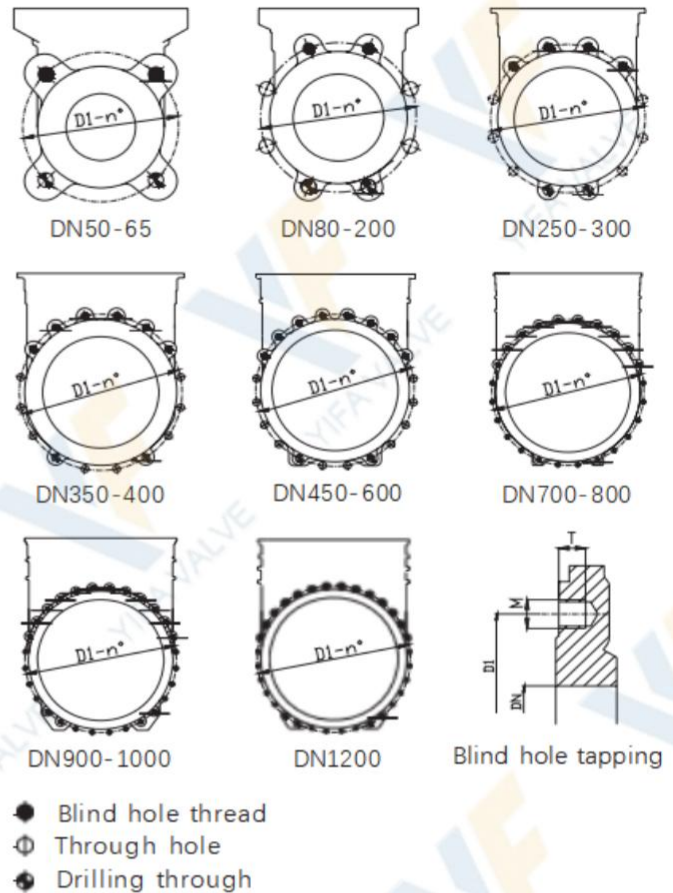
PN16 (GB/T9113.1)

| DN | D | D1 | D2 | N-Th | d |
|------|------|------|------|--------|-----|
| 50 | 165 | 125 | 99 | 4-M16 | Φ18 |
| 65 | 185 | 145 | 118 | 4-M16 | Φ18 |
| 80 | 200 | 160 | 132 | 8-M16 | Φ18 |
| 100 | 220 | 180 | 156 | 8-M16 | Φ18 |
| 125 | 250 | 210 | 184 | 8-M16 | Φ18 |
| 150 | 285 | 240 | 211 | 8-M20 | Φ23 |
| 200 | 340 | 295 | 266 | 12-M20 | Φ23 |
| 250 | 405 | 355 | 319 | 12-M24 | Φ27 |
| 300 | 460 | 410 | 370 | 12-M24 | Φ27 |
| 350 | 520 | 470 | 429 | 16-M24 | Φ27 |
| 400 | 580 | 525 | 480 | 16-M27 | Φ30 |
| 450 | 640 | 585 | 548 | 20-M27 | Φ30 |
| 500 | 715 | 650 | 609 | 20-M30 | Φ33 |
| 600 | 840 | 770 | 720 | 20-M33 | Φ36 |
| 700 | 910 | 840 | 794 | 24-M33 | Φ36 |
| 800 | 1025 | 950 | 901 | 24-M36 | Φ39 |
| 900 | 1125 | 1050 | 1001 | 28-M36 | Φ39 |
| 1000 | 1255 | 1170 | 1112 | 28-M39 | Φ42 |
| 1200 | 1485 | 1390 | 1328 | 32-M45 | Φ48 |

Flange and connection details

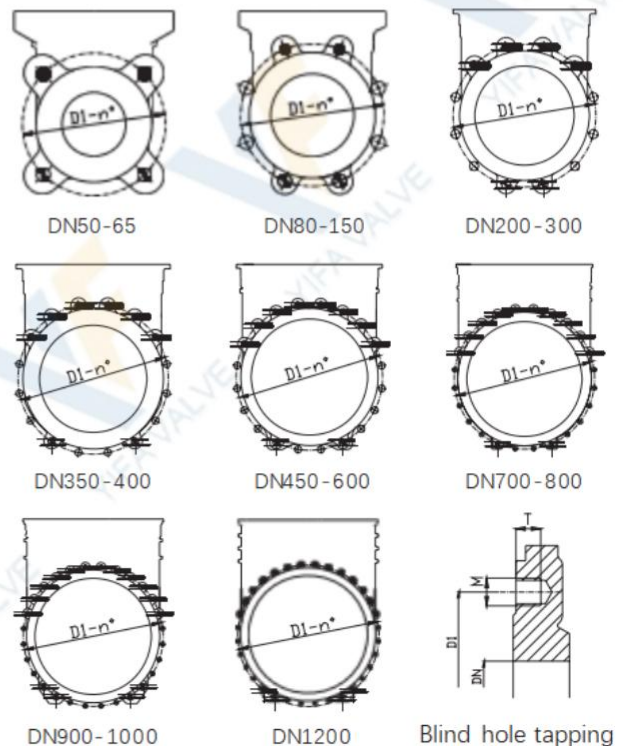
GB/T9113.1 PN10

| DN | D1 | n° | M | T | ● | ⊕ | + |
|------|------|----|------|----|--------|---|----|
| 50 | 125 | 4 | M-16 | 10 | 2--0 | | -2 |
| 65 | 145 | 4 | M-16 | 10 | 2--0 | | -2 |
| 80 | 160 | 8 | M-16 | 12 | 2--4 | | -2 |
| 100 | 180 | 8 | M-16 | 12 | 2--4 | | -2 |
| 125 | 210 | 8 | M-16 | 14 | 2--4 | | -2 |
| 150 | 240 | 8 | M-20 | 14 | 2--4 | | -2 |
| 200 | 295 | 8 | M-20 | 14 | 2--4 | | -2 |
| 250 | 350 | 12 | M-20 | 18 | 4--6 | | -2 |
| 300 | 400 | 12 | M-20 | 21 | 4--6 | | -2 |
| 350 | 460 | 16 | M-20 | 21 | 6--8 | | -2 |
| 400 | 515 | 16 | M-24 | 25 | 6--8 | | -2 |
| 450 | 565 | 20 | M-24 | 25 | 8--10 | | -2 |
| 500 | 620 | 20 | M-24 | 26 | 8--10 | | -2 |
| 600 | 725 | 20 | M-27 | 26 | 8--10 | | -2 |
| 700 | 840 | 24 | M-27 | 22 | 10--12 | | -2 |
| 800 | 950 | 24 | M-30 | 22 | 10--12 | | -2 |
| 900 | 1050 | 28 | M-30 | 22 | 12--12 | | -4 |
| 1000 | 1160 | 28 | M-33 | 22 | 12--12 | | -4 |
| 1200 | 1380 | 32 | M-36 | 33 | 14--14 | | -4 |

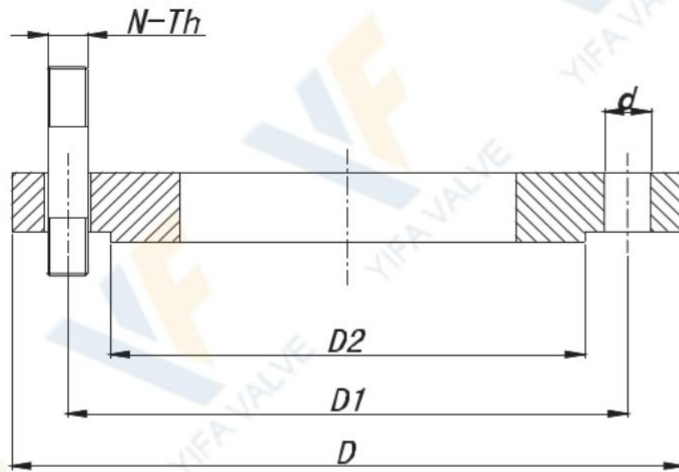


GB/T9113.1 PN16

| DN | D1 | n° | M | T | ● | ⊕ | + |
|------|------|----|------|----|--------|---|----|
| 50 | 125 | 4 | M-16 | 10 | 2--0 | | -2 |
| 65 | 145 | 4 | M-16 | 10 | 2--0 | | -2 |
| 80 | 160 | 8 | M-16 | 12 | 2--4 | | -2 |
| 100 | 180 | 8 | M-16 | 12 | 2--4 | | -2 |
| 125 | 210 | 8 | M-16 | 14 | 2--4 | | -2 |
| 150 | 240 | 8 | M-20 | 14 | 2--4 | | -2 |
| 200 | 295 | 12 | M-20 | 14 | 2--4 | | -2 |
| 250 | 355 | 12 | M-24 | 18 | 4--6 | | -2 |
| 300 | 410 | 12 | M-24 | 21 | 4--6 | | -2 |
| 350 | 470 | 16 | M-24 | 21 | 6--8 | | -2 |
| 400 | 525 | 16 | M-27 | 25 | 6--8 | | -2 |
| 450 | 585 | 20 | M-27 | 25 | 8--10 | | -2 |
| 500 | 640 | 20 | M-30 | 26 | 8--10 | | -2 |
| 600 | 725 | 20 | M-33 | 26 | 8--10 | | -2 |
| 700 | 840 | 24 | M-33 | 22 | 10--12 | | -2 |
| 800 | 950 | 24 | M-36 | 22 | 10--12 | | -2 |
| 900 | 1050 | 28 | M-36 | 22 | 12--12 | | -4 |
| 1000 | 1170 | 28 | M-39 | 22 | 12--12 | | -4 |
| 1200 | 1390 | 32 | M-45 | 33 | 14--14 | | -4 |



Flange connection dimensions



- D- Flange outer diameter
- D1- Bolt circle diameter
- D2- Diameter of sealing surface
- N-Th Bolt size
- d- Bolt hole diameter

10K (JIS B2239-2004)

150Lb (ANSI B16.5 & ASME B16.47)

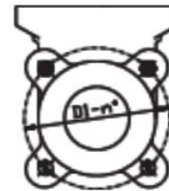
| DN | D | D1 | D2 | N-Th | d |
|------|------|------|------|--------|-----|
| 50 | 155 | 120 | 96 | 4-M16 | Φ19 |
| 65 | 175 | 140 | 116 | 4-M16 | Φ19 |
| 80 | 185 | 150 | 126 | 8-M16 | Φ19 |
| 100 | 210 | 175 | 151 | 8-M16 | Φ19 |
| 125 | 250 | 210 | 182 | 8-M20 | Φ23 |
| 150 | 280 | 240 | 212 | 8-M20 | Φ23 |
| 200 | 330 | 290 | 262 | 12-M20 | Φ23 |
| 250 | 400 | 355 | 324 | 12-M22 | Φ25 |
| 300 | 445 | 400 | 368 | 16-M22 | Φ25 |
| 350 | 490 | 445 | 413 | 16-M22 | Φ25 |
| 400 | 560 | 510 | 475 | 16-M24 | Φ27 |
| 450 | 620 | 565 | 530 | 20-M24 | Φ27 |
| 500 | 675 | 620 | 585 | 20-M24 | Φ27 |
| 550 | 745 | 680 | 640 | 20-M30 | Φ33 |
| 600 | 795 | 730 | 690 | 24-M30 | Φ33 |
| 650 | 845 | 780 | 740 | 24-M30 | Φ33 |
| 700 | 905 | 840 | 800 | 24-M30 | Φ33 |
| 750 | 970 | 900 | 855 | 24-M30 | Φ33 |
| 800 | 1020 | 950 | 905 | 28-M30 | Φ33 |
| 850 | 1070 | 1000 | 955 | 28-M30 | Φ33 |
| 900 | 1120 | 1050 | 1005 | 28-M30 | Φ33 |
| 1000 | 1235 | 1160 | 1110 | 28-M36 | Φ39 |
| 1100 | 1345 | 1270 | 1220 | 28-M36 | Φ39 |
| 1200 | 1465 | 1380 | 1325 | 32-M36 | Φ39 |
| 1350 | 1630 | 1540 | 1480 | 36-M42 | Φ45 |
| 1500 | 1795 | 1700 | 1635 | 40-M42 | Φ45 |

| DN | D | D1 | D2 | N-Th | d |
|------|------|-------|------|--------------|-----|
| 2D | 153 | 120.5 | 92 | 4-5/8DUNC | Φ19 |
| 2.5D | 178 | 139.5 | 105 | 4-5/8DUNC | Φ19 |
| 3D | 191 | 152.5 | 127 | 4-5/8DUNC | Φ19 |
| 4D | 229 | 190.5 | 157 | 8-5/8DUNC | Φ19 |
| 5D | 254 | 216 | 186 | 8-3/4DUNC | Φ22 |
| 6D | 280 | 241.5 | 216 | 8-3/4DUNC | Φ22 |
| 8D | 343 | 298.5 | 270 | 8-3/4DUNC | Φ22 |
| 10D | 407 | 362 | 324 | 12-7/8DUNC | Φ25 |
| 12D | 483 | 432 | 381 | 12-7/8DUNC | Φ25 |
| 14D | 534 | 476 | 413 | 12-1DUNC | Φ29 |
| 16D | 597 | 539.5 | 470 | 16-1DUNC | Φ29 |
| 18D | 635 | 578 | 534 | 16-1 1/8DUNC | Φ32 |
| 20D | 699 | 635 | 584 | 20-1 1/8DUNC | Φ32 |
| 24D | 813 | 749.5 | 692 | 20-1 1/4DUNC | Φ35 |
| 26D | 870 | 806.5 | 749 | 24-1 1/4DUNC | Φ35 |
| 28D | 925 | 863.5 | 800 | 28-1 1/4DUNC | Φ35 |
| 30D | 985 | 914.5 | 857 | 28-1 1/4DUNC | Φ35 |
| 32D | 1060 | 978 | 914 | 28-1 1/2DUNC | Φ41 |
| 36D | 1170 | 1086 | 1022 | 32-1 1/2DUNC | Φ41 |
| 40D | 1290 | 1200 | 1124 | 36-1 1/2DUNC | Φ41 |
| 42D | 1345 | 1257 | 1194 | 36-1 1/2DUNC | Φ41 |
| 44D | 1405 | 1314 | 1245 | 40-1 1/2DUNC | Φ41 |
| 48D | 1510 | 1422 | 1359 | 44-1 1/2DUNC | Φ41 |
| 52D | 1625 | 1537 | 1461 | 44-1 3/4DUNC | Φ47 |
| 56D | 1745 | 1651 | 1575 | 48-1 3/4DUNC | Φ47 |
| 60D | 1855 | 1759 | 1676 | 52-1 3/4DUNC | Φ47 |

Flange and connection details

JIS B2239-2004 10K

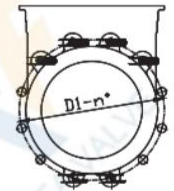
| DN | D1 | n° | M | T | ● | ⊕ | + |
|------|------|----|------|----|--------|---|----|
| 50 | 120 | 4 | M-16 | 10 | 2--0 | | -2 |
| 65 | 140 | 4 | M-16 | 10 | 2--0 | | -2 |
| 80 | 150 | 8 | M-16 | 12 | 2--4 | | -2 |
| 100 | 175 | 8 | M-16 | 12 | 2--4 | | -2 |
| 125 | 210 | 8 | M-20 | 14 | 2--4 | | -2 |
| 150 | 240 | 8 | M-20 | 14 | 2--4 | | -2 |
| 200 | 290 | 12 | M-20 | 14 | 2--4 | | -2 |
| 250 | 355 | 12 | M-22 | 18 | 4--6 | | -2 |
| 300 | 400 | 16 | M-22 | 21 | 4--6 | | -2 |
| 350 | 445 | 16 | M-22 | 21 | 6--8 | | -2 |
| 400 | 510 | 16 | M-24 | 25 | 6--8 | | -2 |
| 450 | 565 | 20 | M-24 | 25 | 8--10 | | -2 |
| 500 | 620 | 20 | M-24 | 26 | 8--10 | | -2 |
| 600 | 730 | 24 | M-30 | 26 | 8--10 | | -2 |
| 700 | 840 | 24 | M-30 | 22 | 10--12 | | -2 |
| 800 | 950 | 28 | M-30 | 22 | 10--12 | | -2 |
| 900 | 1050 | 28 | M-30 | 22 | 12--12 | | -4 |
| 1000 | 1160 | 28 | M-30 | 22 | 12--12 | | -4 |
| 1200 | 1380 | 32 | M-36 | 33 | 14--14 | | -4 |



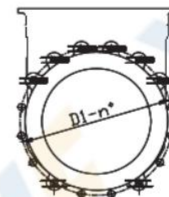
DN50-65



DN80-150



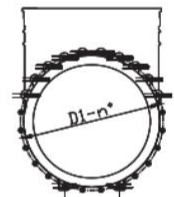
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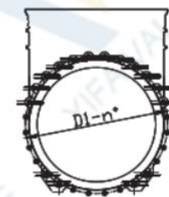
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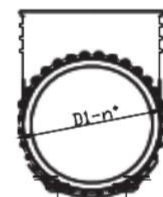
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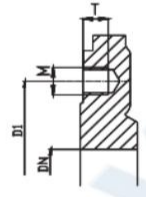
DN600-700



DN800-1000



DN1200

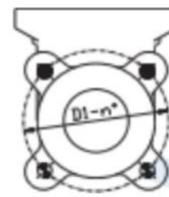


Blind hole tapping

- Blind hole thread
- ⊕ Through hole
- ⦿ Drilling through

ANSI B16.5 & ASME B16.47 150Lb

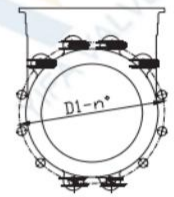
| DN | D1 | n° | M | T | ● | ⊕ | + |
|--------|--------|----|------------|----|--------|---|----|
| 2" | 120.5 | 4 | 5/8" UNC | 10 | 2--0 | | -2 |
| 2 1/2" | 139.5 | 4 | 5/8" UNC | 10 | 2--0 | | -2 |
| 3" | 152.5 | 4 | 5/8" UNC | 12 | 2--4 | | -2 |
| 4" | 190.5 | 8 | 5/8" UNC | 12 | 2--4 | | -2 |
| 5" | 216 | 8 | 3/4" UNC | 14 | 2--4 | | -2 |
| 6" | 241.5 | 8 | 3/4" UNC | 14 | 2--4 | | -2 |
| 8" | 298.5 | 8 | 3/4" UNC | 14 | 2--4 | | -2 |
| 10" | 362 | 12 | 7/8" UNC | 18 | 4--6 | | -2 |
| 12" | 432 | 12 | 7/8" UNC | 21 | 4--6 | | -2 |
| 14" | 476 | 12 | 1" UNC | 21 | 6--8 | | -2 |
| 16" | 540 | 16 | 1" UNC | 25 | 6--8 | | -2 |
| 18" | 578 | 16 | 1 1/8" UNC | 25 | 8--10 | | -2 |
| 20" | 635 | 20 | 1 1/8" UNC | 26 | 8--10 | | -2 |
| 24" | 749.5 | 20 | 1 1/4" UNC | 26 | 8--10 | | -2 |
| 28" | 863.5 | 28 | 1 1/4" UNC | 26 | 10--12 | | -2 |
| 30" | 914 | 28 | 1 1/4" UNC | 22 | 10--12 | | -2 |
| 32" | 978 | 28 | 1 1/2" UNC | 22 | 12--12 | | -4 |
| 36" | 1085.8 | 32 | 1 1/2" UNC | 22 | 12--12 | | -4 |
| 40" | 1200.2 | 36 | 1 1/2" UNC | 30 | 14--14 | | -4 |



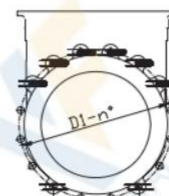
2"-3"



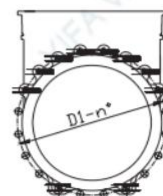
4"-8"



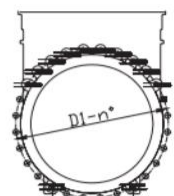
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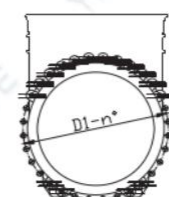
16"-18"



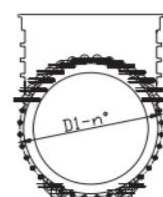
20"-24"



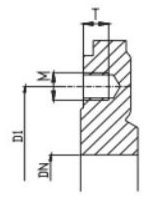
28"-32"



36"



40"



Blind hole tapping



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