



Double Offset High Performance Butterfly Valves

Product Brochure



Company Profile

Company Profile

DBV Valve Co., Ltd. was established in 2001 and is headquartered in Oubei, Yongjia, Zhejiang, the hometown of pumps and valves in China. It is a modern enterprise integrating the manufacture, sales and service of various intelligent control valves (pneumatic, electric and hydraulic control). We have a factory building area of more than 20,000 square meters, more than 200 sets of machine equipment and more than 300 employees.

The company has been awarded the titles of National High-Tech Enterprise, A-class Tax Credit Enterprise of Zhejiang Province, and Star Enterprise of Yongjia County, etc. It has also been certified by American Petroleum Institute (API), Customs Union TR Declaration (EAC), German Technical Supervision Association (TUV) and Det Norske Veritas (DNV).

The company mainly produces high pressure severe service products and metal to metal seat butterfly valves, metal to metal seat ball valves, low temperature valves, etc., which are manufactured strictly according to ISO, ANSI, API, GB, HG and other standards. We have advanced physical and chemical testing centre, professional CNC machining and test pressure automatic production equipment and experienced technical production team. Product pressure from 150LB-2500LB, 0.6 MPA-42.0MPA, temperature resistance -196°C - 800°C.



Valve Production Workshop



Company Headquarters (Under Construction)



Frontline Staff

2001

Open

Year of Establishment

2016

International

International Trade Business

2018

New

Pump and Valve Base

2021

Certified

National Certification

2023

Now

Choose Us For Quality

Relying on our strict quality management system, our products are widely used in petroleum, petrochemical, natural gas, coal chemical, metallurgy, electric power and other industries, and exported to Europe, America, Asia Pacific, the Middle East and other countries and regions, the company has been approved by Oman National Oil Company, Iran South Oil Company, Thailand National Power Plant, Russia National Oil Service and other large international terminal customers.

In terms of research and manufacturing, the company has a number of senior R & D teams, advanced manufacturing equipment, perfect physical and chemical testing and inspection methods (spectrometer, helium mass spectrometer, high and low temperature comprehensive performance test equipment, etc.), scientific information management system (integrated PDM, ERP, CAD, CAPP), comprehensive resources to provide customers with sustainable product solutions and collaborative service support.

As a fluid control solutions provider, the company is committed to innovation and service enhancement and is constantly striving to become one of the world's most professional, comprehensive and reliable valve manufacturers.

Equipment & Professional Team

Equipment & Professional Team

20⁺

Years

Manufacturing Experience

200⁺

Units

Manufacturing Facilities

300⁺

People

Practitioners

3

Teams

R&d Team

20000⁺

Square Metres

Intelligent Factory Floor Space

More Than 20 Years Of Experience In R&d And Production Exported To More Than 30 Countries And Regions Worldwide.

| | | |
|---|--|---------------------------------------|
| 200 + Sets Of Intelligent Manufacturing Equipment | 20 + Years Of Experience In R&d And Production | Exported To 30 + Countries Worldwide |
| 4000 + Square Metres Of Finished Goods Warehouse | Over 300 Valve Practitioners | 3 Valve Production Bases |
| Annual Production Of Over 8000 Tons Of Valves | 3 Senior Valve R&d Teams | Intelligent And Scientific Production |
| 20,000 + Square Metres Of Factory Floor Space | Professional Multilingual Sales Staff | |



Customers & Partners

Customers & Partners



DBV Valve Co., Ltd. is a fluid control solution provider that has been developing and producing ball valves and butterfly valves in China for more than 20 years. Our sales and service network extends to dozens of overseas countries and regions, and our end products are used by companies such as Petronas, Anadarko, Petrobras, Lukoil.

The company has been approved as a qualified supplier by large international terminal customers such as Oman National Oil Company, Iran National South Oil Company, Thailand National Power Plant and Russia National Oil Company.



Honors & Qualifications

Honors And Qualifications

Qualification is the guarantee of an enterprise's products, and honour is the silent motivation of an enterprise.

In terms of product standards and quality, the company has obtained the "API6D, API609 Valve Production Design Standard Certification" issued by the American Petroleum Institute API, the "API6FA, API607 Valve Fire Test Certificate", the "SIL-3 Safety Equipment Integrity Level Certificate" issued by the German Technical Supervision Association TUV, the CE Certificate, the "ATEX Explosion Test Certificate" issued by the Norwegian Classification Society DNV and many other international certifications.

The company was awarded the title of national high-tech enterprise, the title of science and technology-based small and medium-sized enterprise in Zhejiang Province, the title of star enterprise in Yongjia County for three consecutive years, the excellent supplier of government procurement and many other honorary titles.

DBV valves are manufactured in accordance with the ISO 9001 quality management system and are subject to 48 production processes, comprehensive testing and inspection in accordance with international standards, thus guaranteeing the high quality of DBV valves.



DBV Certificates

| | | |
|-------------------|------------------------|---------------------|
| API 6D | API 609 | CE |
| ISO 9001 | ISO 45001 | ISO 14001 |
| API 6FA/607 | ISO 15848-1/API 624 | BS 6364 |
| SIL-3 Ball Valve | SIL-3 Butterfly Valve | SIL-3 Control Valve |
| TR CU 032 | TR CU 012 | TR CU 010 |
| MSK-64 Ball Valve | MSK-64 Butterfly Valve | ATEX |

Multi-Field Application Solutions

Multi-Field Application Solutions

Since its inception, DBV Valve has always been deeply involved in the valve field, with scientific and cutting-edge R&D and production processes, providing reliable, safe and economical fluid control solutions to customers worldwide in a variety of industries. With years of customization of fluid control solutions, DBV Valve has developed and produced a series of valves for various industries worldwide, including but not limited to: fine chemical industry, coal chemical industry, marine industry, new energy field, oil refining and petrochemical industry, metallurgical and mining industry, pharmaceutical and pesticide industry, nuclear power industry

Industry-wide, Multi-type Fluid Control Solutions

| | | |
|------------------------|---|---------------------------------------|
| Fine chemical industry | New Energy Sector | Pharmaceutical And Pesticide Industry |
| Coal chemical industry | Oil Refining And Petrochemical Industry | Nuclear Power Industry |
| Marine Marine Industry | Metallurgical And Mineral Industries | Technology And Environmental Industry |



Double Offset High Performance Butterfly Valves



DBV VALVE CO.,LTD. is a professional manufacturer of soft seat, metal seat and fire-safe high performance butterfly valves, our unique seat design is equal to Flowseal and Bray. Under an ISO 9001 Quality Assurance Program, it assures each valve we produce meets or exceeds your application requirements.

DBV high performance butterfly valves are available in sizes from 2" - 60" in ANSI/ASME, DIN standards etc. and are available with a diverse range of manual and actuated options.

Our high performance butterfly valves are widely used in many industries including heating, ventilating and air conditioning, power generation, hydrocarbon processing, water and waste water treatment, and marine and commercial shipbuilding. Our products are also installed in applications as diverse as food and beverage processing, snowmaking and pulp and paper production.

Configurations are available for harsh conditions as well as applications requiring nominal pressure and temperature ratings.

High Performance Applications

Construction
Chemical / Petro-Chemical
Liquified Gas / Refrigeration
Heavy Industrial
Power / Co-Generation Plants
Steel and Iron Works
Commercial

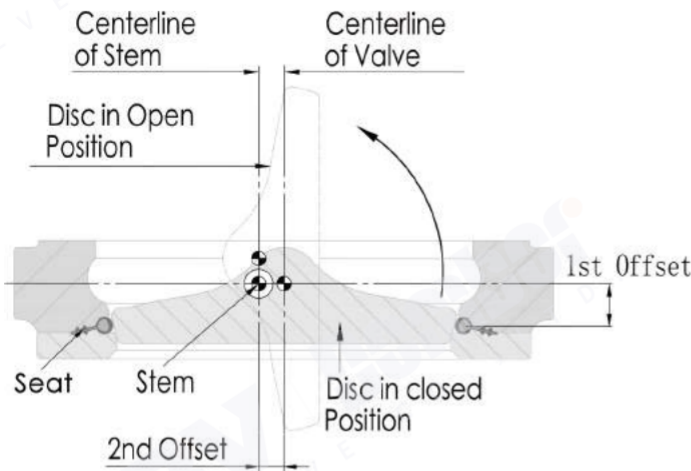
Pulp and Paper Mills
Oil Refineries and Oil Field
Ship Building
Hydrocarbon Processing
Gas Piping
Local Area Energy Supply
Industrial

Double Offset High Performance Butterfly Valves

| Standard Production Range | | | |
|-----------------------------|---|----------------|----------------|
| | Ansi Class 150 | Ansi Class 300 | Ansi Class 600 |
| Rating - Psi | 285 | 740 | 1440 |
| Rating - Bar | 20 | 50 | 100 |
| Size - Inch | 2-60 | 2-48 | 2-24 |
| Size - Mm | 50-1500 | 50-120 | 50-600 |
| Testing | API 598 | | |
| Fact To Face Specifications | ANSI B16.10 / API 609 / MSS-SP-68 / ISO 5752 | | |
| End Flange Specifications | ASME B16.5: Class 150, 300, 600, JIS B2210: 10K, 16K, 20K DIN ISO PN10, PN16, PN25, PN40 | | |
| Connection | Wafer, Lugged, Double Flanged | | |
| Actuator - Manual | Lever Handle, Worm Gear Operator | | |
| Actuator -Automatic | Electric Motor, Pneumatic Double Acting, Pneumatic Spring Return | | |
| | | | |

| Main Materials | | | |
|---------------------------|---|----------------|----------------|
| | Ansi Class 150 | Ansi Class 300 | Ansi Class 600 |
| Body | Carbon Steel (A216-WCB) 316 SS (A351-CF8M) | | |
| Disc | 316 SS (A351-CF8M) | | |
| Stem | 17/4PH (A564-630) | | |
| Seat | PTFE, RTFE, 316 SS, INCONEL, PTFE+316 SS, RTFE+316 SS | | |
| Shaft Bearing | 316 SS+RTFE Impregnated, 316 SS+Graphite Impregnated | | |
| Packing Seal | PTFE, Graphite | | |
| Seat Materials And Rating | | | |
| Ptfe | Class VI, Bubble Tight | | |
| Rtfe | Class VI, Bubble Tight | | |
| 316 SS | Class V | | |
| Inconel | Class V | | |
| Ptfe+316 SS | Class Vi Bubble Tight, class V W/ Preferred Flow After Fire | | |
| Ptfe+316 SS | Class Vi Bubble Tight, class V W/ Preferred Flow After Fire | | |

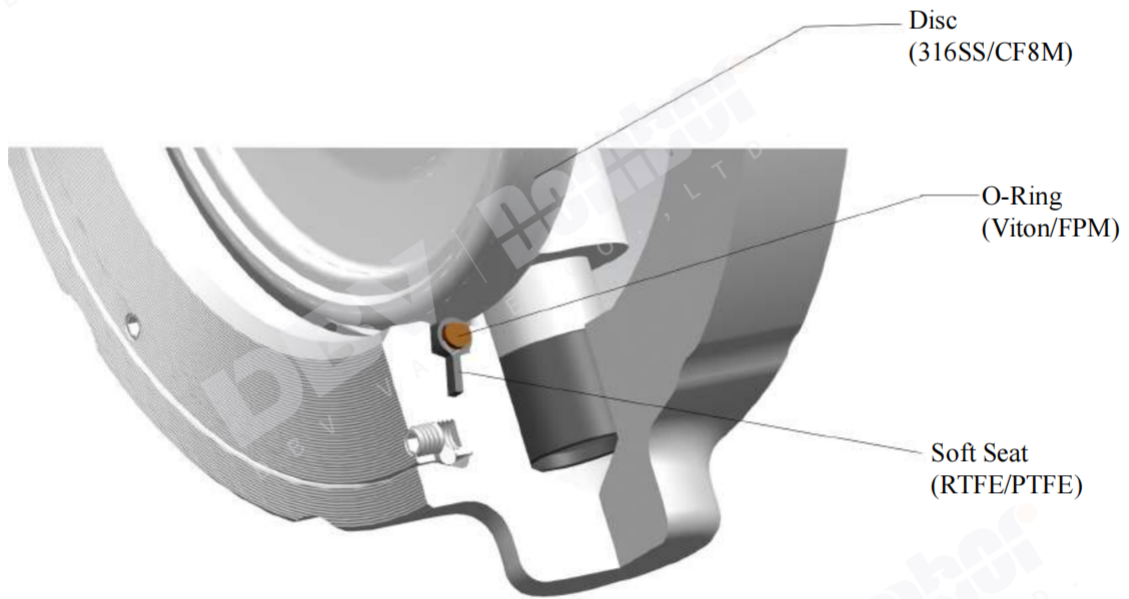
Double Offset/eccentric Design



The double offset design of the DBV High Performance Butterfly Valves assures reduced seat wear and bidirectional, zero leakage shut off throughout the full pressure range.

At the initial point of disc opening, the offset disc produces a cam-like action, pulling the disc from the seat. This cam-like action reduces seat wear and eliminates seat deformation when the disc is in the open position. When open, the disc does not contact the seat, therefore seat service life is extended and operating torques are reduced. As the valve closes, the cam-like action converts the rotary motion of the disc to a linear type motion to effectively push the disc onto the seat. The wiping action of the disc against the seat prevents undesirable material build-up from slurries or suspended solids.

Unique Valve Seat Design - Soft Seat



Bi-directional Sealing

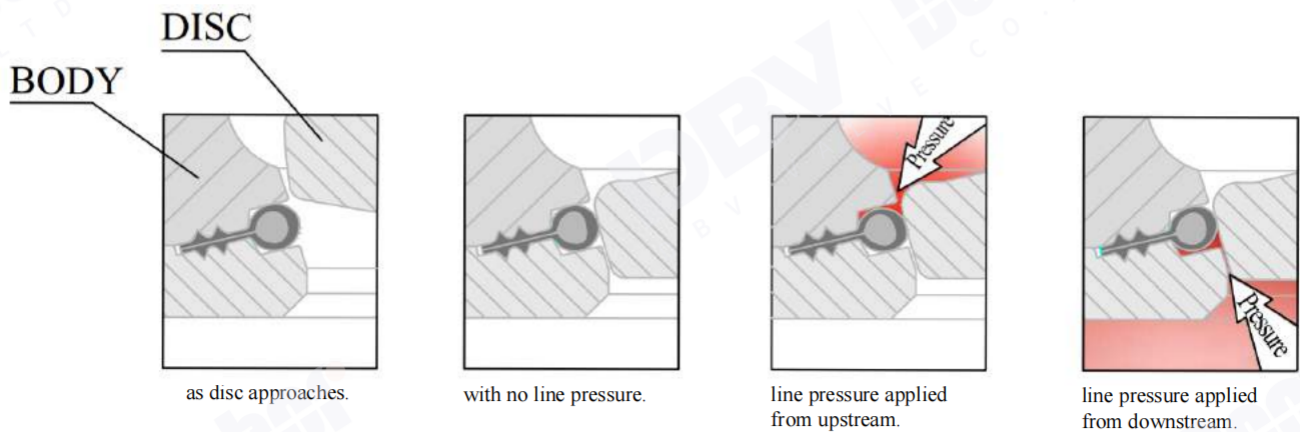


Figure 1 DISC OPEN

In Figure 1, the disc and seat are not engaged. In this position, the shoulders of the seat are forced against the cavity shoulders by the compression of the o-ring.

The seat is recessed inside the seat cavity and acts as a gasket in the anchoring groove area. The seat cavity is sealed from exposure from the process fluid and protects the seat from abrasion and wear. The o-ring, which is completely encapsulated by the seat, is also isolated from exposure to the process fluid.

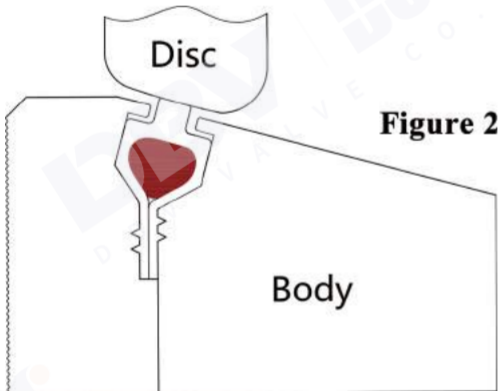
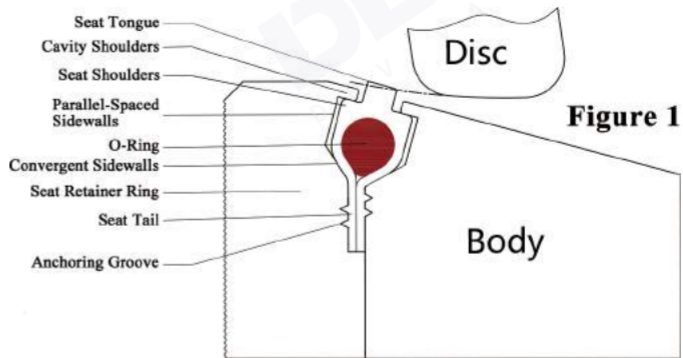


Figure 2 DISC CLOSED, Self-Energized Seal

In Figure 2, the disc and seat are engaged, and the process fluid is under low pressure. The edge of the disc, with a larger diameter than the seat tongue, directs movement of the seat radially outward, causing the seat to compress against the convergent sidewalls of the cavity. The elastomeric o-ring imparts a mechanical pre-load between the disc and seat tongue as it is compressed and flattened by the disc; this is the self-energized mode for sealing at vacuum-to-60 psig.

As the seat moves radially outward, the seat shoulders move away from the cavity shoulders and open the cavity to the process media.

Figure 3 DISC CLOSED, Pressure-Energized Seal (Seat Upstream)

As line pressure increases, the process fluid enters the sidewall area and applies a load against the parallel-spaced sidewall and convergent sidewall of the seat. The seat and cavity design permits the seat to move axially to the downstream sidewall, but confines the movement and directs the movement radially inward towards the disc; the higher the line pressure, the tighter the seal between the disc and seat. Because the o-ring is elastic, it is able to flex and deform under loads and return to original shape after removal of the load; it is the rubber which deforms, not the thermoplastic material.

This dynamic seal, sealing equal to Flowseal and Bray, is totally unique among high performance butterfly valves.

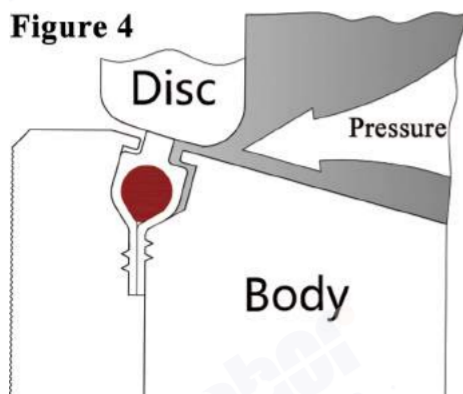
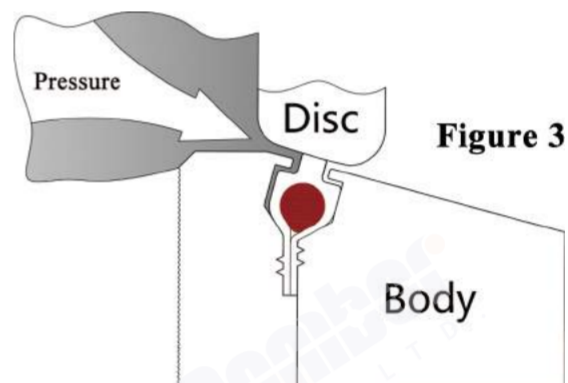


Figure 4 DISC CLOSED, Pressure-Energized Seal (Downstream)

The DBV HPBFV is bi-directional (in some instances, modifications may be required to operate this arrangement for dead end service). The cavity and seat sidewalls are symmetrically designed to permit, confine and direct movement of the seat to the disc to dynamically seal with line pressure in the reverse direction. The disc edge is the segment of a sphere, and the seat is angled towards the disc edge to seal with pipeline pressure in either direction.

Recommended installation direction is "SUS" (seat upstream), as in Figure 3.

Valve Components - Soft Seat

SQUARE

Square valve-to-operator connection applied to ISO5211 pneumatic actuators and electric actuators 2"-28" default connection as square, key type is available. 28"-60" default connection is KEY type.

GLAND FLANGE

Applies load against packing gland to prevent external leakage. Fully adjustable.

PACKING

PTFE prevents external leakage out valve neck to full ASME hydrostatic shell test pressures (150% of C.W.P.).

WEDGE RING

Stainless steel band wedged between valve body and retainer ring by set screws to lock seat and retainer ring in position on valve sizes 2" through 30". Socket head cap screws are used on valve sizes 36" and larger.

OVERTRAVEL STOP

Prevents disc from rotating into the wrong quadrant.

SET SCREWS

Cone point screws force wedge ring outward to lock seat retainer in position on valve sizes 2" through 30" wafer. Socket head cap screws are used on valve sizes 36" and larger and all DDES lug valves.

SOFT-SEAT

Patented bi-directional seat with encapsulated elastomeric o-ring core for resiliency. Common seat materials include PTFE, RTFE and UHMWPE.

BLOW OUT PROOF SHAFT

Solid shaft provides alignment and rigid support for disc. 17-4PH and 316 materials are available.

PACKING GLAND

Separate part from gland flange, preventing uneven load distribution against packing.

BEARINGS

Both above and below the disc, bearings are of composite design: 316 bonded to Dupont PTFE wound ring. Used to align shaft, with high capacity, low wear, and low friction coefficient.

WEDGE PINS

Provide positive mechanical attachment of disc to shaft.

BODY

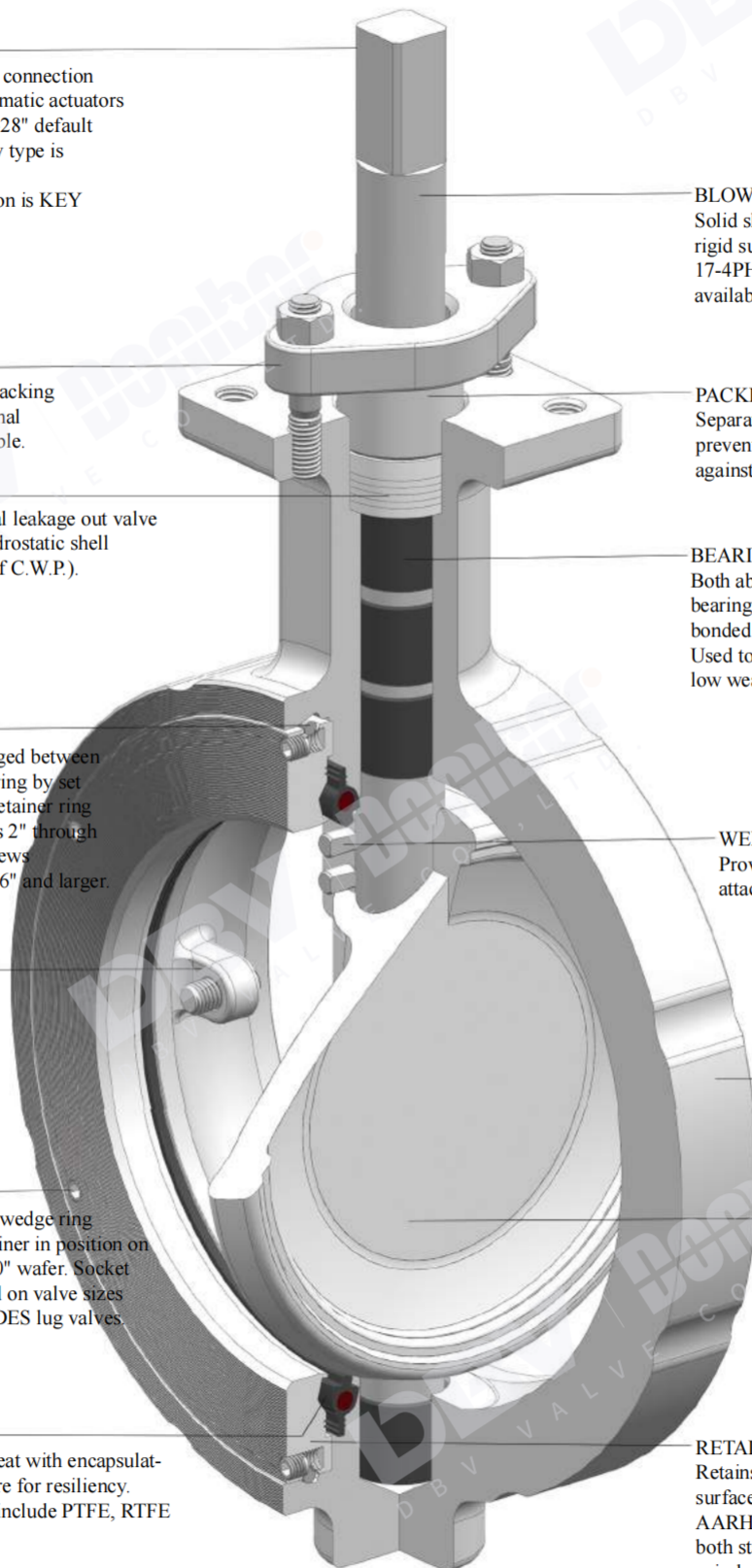
ASME B16.34 design in either wafer or lug configuration.

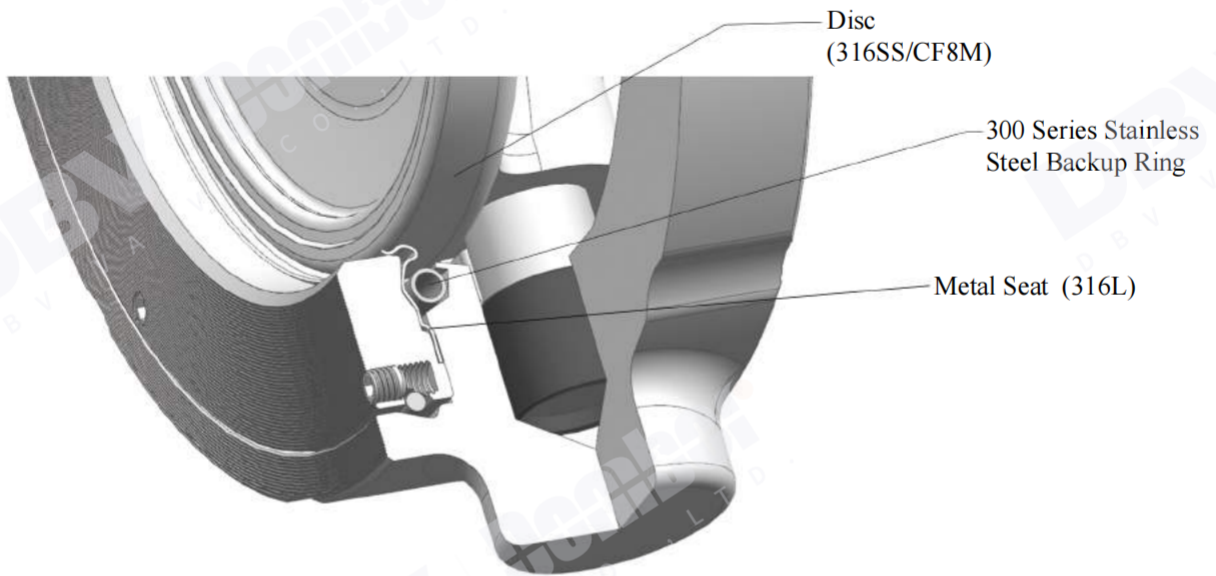
DISC

360° uninterrupted spherical edge for sealing. Profile is designed for maximum flow and equal percentage control.

RETAINER RING

Retains seat in valve. Standard surface finish is 125 to 200 AARH and is compatible with both standard gaskets and spiral wound gasket designs. Outside diameter is recessed within gasket sealing surface to prevent external leakage.





The DBV metal-to-metal seat high performance butterfly valve are with metal seat for higher tensile strength, a 300 series stainless steel back-up ring in the seat cavity for axial seat support, and a disc that is case hardened by nitriding.

The Metal seat, by its dynamic and flexible design, applies enough force per linear inch against the disc edge (Rockwell Hardness of C66 to C70) to obtain an optimum sealing characteristic while controlling the loads between the metal surfaces.

The DBV metal-to-metal seat valve is utilized for temperatures up to 900°F, (482°C) in compliance with ASME B16.34 pressure/temperature specifications. Leakage is rated at Class IV per ASME FCI 70-2.

Principle Of Seat Sealing - Metal Seat

Figure 1 PRINCIPLE OF METAL SEATING

Metal-to-metal sealing is accomplished by the “line contact” between a spherical surface and conical surface. Figure 1 illustrates a typical globe control valve seat and plug. The plug seating surface is the segment of a sphere; when engaged against the seat ring, a line contact seal is achieved.

In a metal seat design, it is necessary to apply enough force per linear inch to maintain a tight metal-to-metal contact between the sealing members; however, high linear thrust can cause a collapse of the seating members (“bearing failure”).

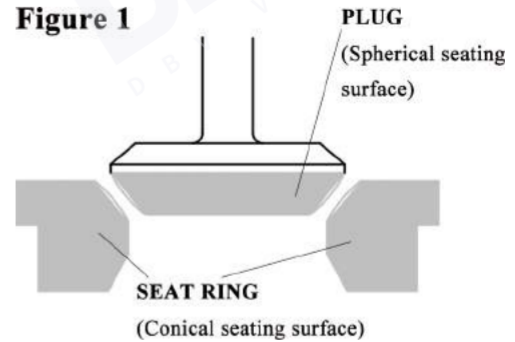


Figure 2 DISC CLOSED, Self-Energized Seal

In Figure 2, the disc and seat are engaged, and the process fluid is under low pressure. The spherical edge of the disc, with a larger diameter than the conical seat tongue, imparts a thrust of approximately 600 pounds per linear inch against the seat. The mechanical properties and shape of the metal seat allow it to both flex and maintain a constant thrust against the disc.

This controlled loading prevents the occurrence of bearing failure and reduces the leakage and wear between the components.

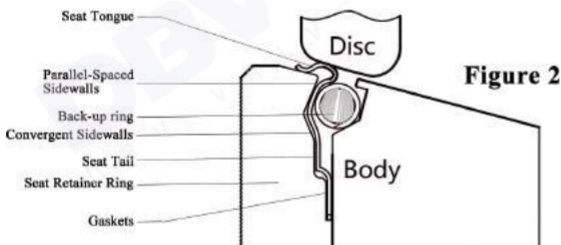


Figure 3 DISC CLOSED, Pressure-Energized Seal (Seat Upstream)

As line pressure increases, the process fluid enters the sidewall area and applies a load against the parallel-spaced sidewall and convergent sidewall of the metal seat. The seat moves towards the downstream sidewall while being supported axially by the support ring, as shown in Figure 3. The cavity shape confines the seat movement and directs the movement radially inward towards the disc; the higher the line pressure, the tighter the line contact between the disc and seat. The metal seat, shaped by a special hydroforming process, is able to flex under these loads and return to its original shape after removal of the loads.

This dynamic seal, sealing equal to Flowseal, is totally unique among high performance butterfly valves.

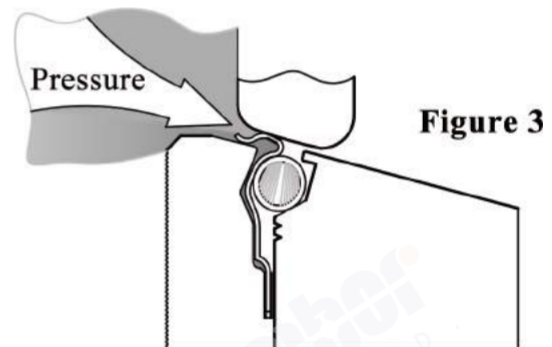


Figure 4

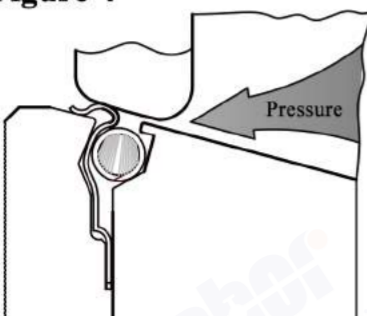


Figure 4 DISC CLOSED, Pressure-Energized Seal (Downstream)

The DBV valve is bi-directional (in some instances, modifications may be required to operate this arrangement for dead end service). The cavity and seat sidewalls are symmetrically designed to permit, confine and direct movement of the seat to the disc to dynamically seal with line pressure in the seat downstream direction, as in Figure 4. Recommended installation direction is “SUS” (seat upstream), as in Figure 3.

The stainless steel back-up ring interacts dynamically with the metal seat for axial support in seat sealing. Additionally, this ring effectively restricts corrosion and particulate build-up in the cavity.

SQUARE

Square valve-to-operator connection applied to ISO5211 pneumatic actuators and electric actuators 2"-28" default connection as square, key type is available. 28"-60" default connection is KEY type.

GLAND FLANGE

Applies load against packing gland to prevent external leakage. Fully adjustable.

PACKING

Common materials are TFE for up to 450°F (232°C) and Graphite for up to 900°F (482°C).

WEDGE RING

Stainless steel band wedged between valve body and retainer ring by set screws to lock seat and retainer ring in position on valve sizes 2" through 30". Socket head cap screws are used on valve sizes 36" and larger.

OVERTRAVEL STOP

Prevents disc from rotating into the wrong quadrant.

SET SCREWS

Cone point screws force wedge ring outward to lock seat retainer in position on valve sizes 2" through 30" wafer. Socket head cap screws are used on valve sizes 36" and larger and all DDES lug valves.

METAL SEAT

Patented metal seat with metal back-up ring.

BLOW OUT PROOF SHAFT

Solid shaft provides alignment and rigid support for disc. 17-4PH and 316 materials are available.

PACKING GLAND

Separate part from gland flange, preventing uneven load distribution against packing.

BEARINGS

Both above and below the disc, bearings are of composite design: 316 bonded to Dupont PTFE wound ring. Used to align shaft, with high capacity, low wear, and low friction coefficient.

WEDGE PINS

Provide positive mechanical attachment of disc to shaft.

BODY

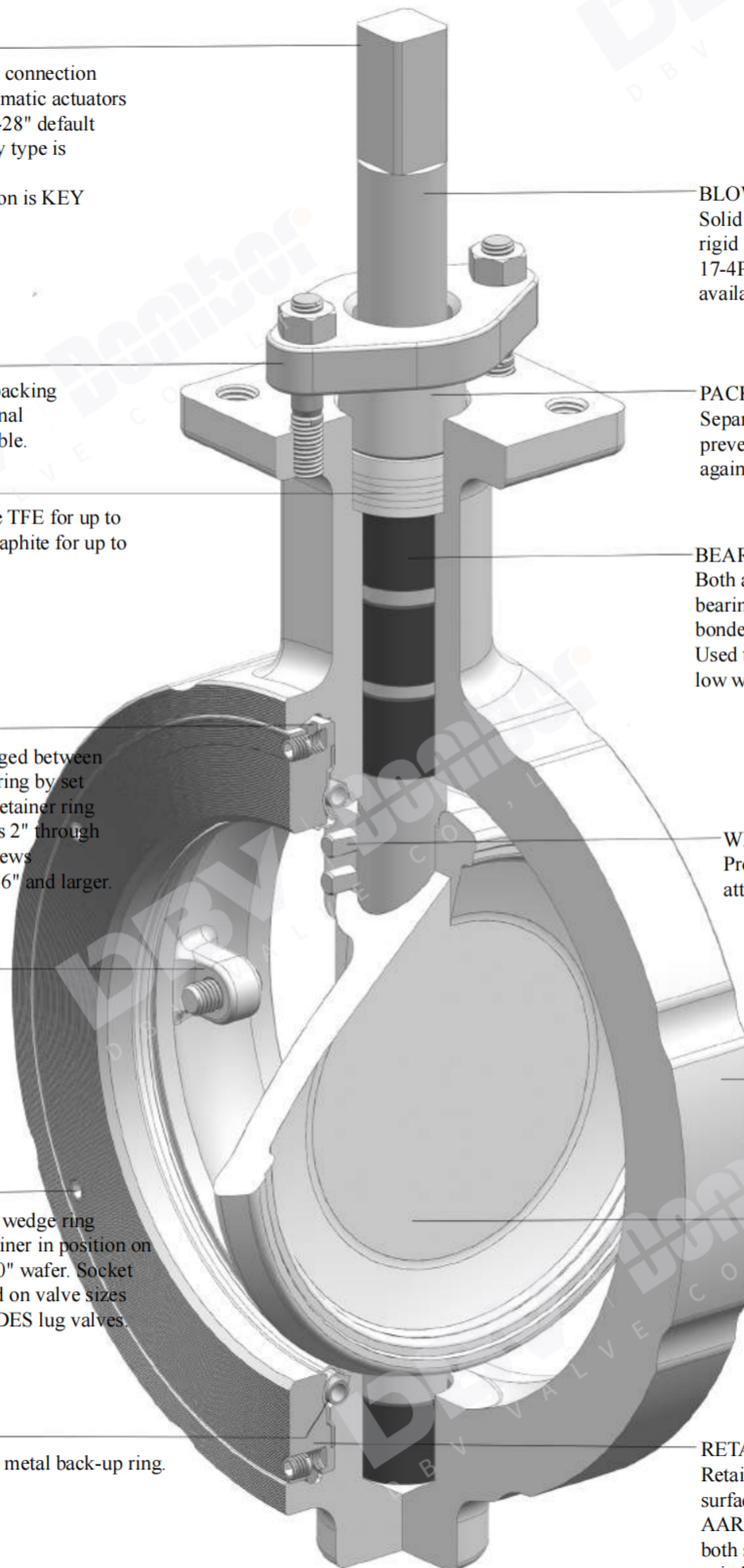
ASME B16.34 design in either wafer or lug configuration.

DISC

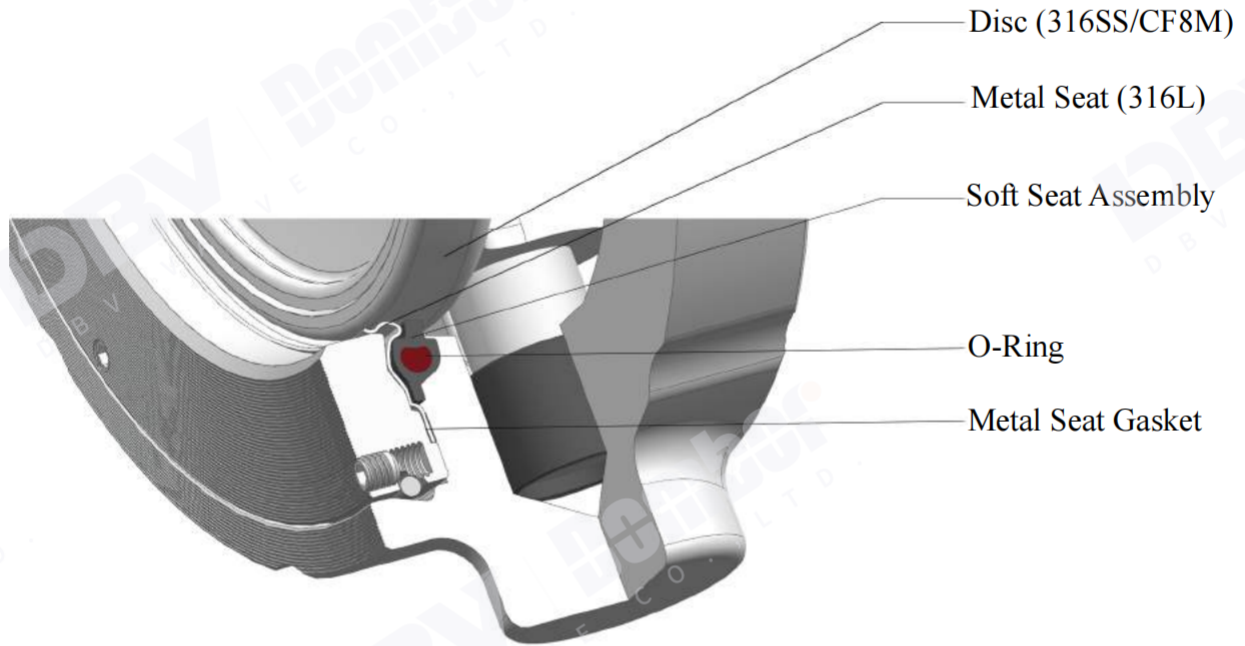
360° uninterrupted spherical edge for sealing. Profile is designed for maximum flow and equal percentage control.

RETAINER RING

Retains seat in valve. Standard surface finish is 125 to 200 AARH and is compatible with both standard gaskets and spiral wound gasket designs. Outside diameter is recessed within gasket sealing surface to prevent external leakage.



Unique Valve Seat Design - Fire Safe Seat



The DBV Fire-Safe high performance butterfly valve (HPBFV) is a fire-safe, soft seat quarter-turn valve. The fire safe design incorporates two patented seats which function together to seal off pipeline flow. In normal operation, the soft seat provides a bi-directional “bubble tight” shutoff (zero leakage); the metal seat provides bi-directional shutoff in the event of a fire, in conformance to industry fire-safe requirements.

With little or no pressure, the Fire-Safe seat creates a selfenergized seal against the disc. Higher line pressures act on the geometry of both seats to dynamically load them against the disc, creating higher sealing forces in either direction.

The Fire-Safe metal seat is made of 316L material which is shaped by a proprietary hydroform-ing process into its unique, patented design. Stainless steel outer bearings are included for post-fire disc and shaft alignment. Fireproof packing is used to prevent external shaft leakage.

Figure 1, DISC OPEN, Normal Operation

In Figure 1, the disc and seat assembly are not engaged. In this position, the metal seat acts to keep the soft seat inside the seat cavity while the soft seat shoulders seal the cavity from exposure to the process fluid. (The o-ring is under tension and imparts a load against the soft seat.)

The soft seat is protected from abrasion and wear because it is recessed inside the seat cavity area. The o-ring is isolated from exposure to the fluid because it is completely encapsulated by the seat tails which act as a (soft) gasket in the anchoring groove area. The metal seat gaskets add further high temperature protection past the anchoring grooves.

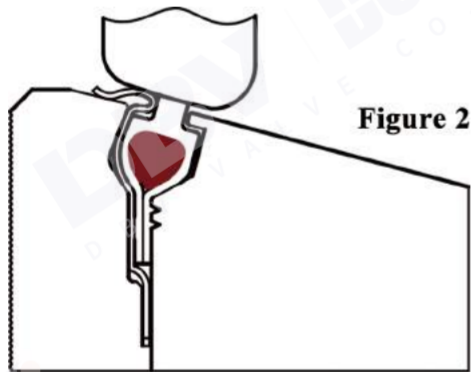
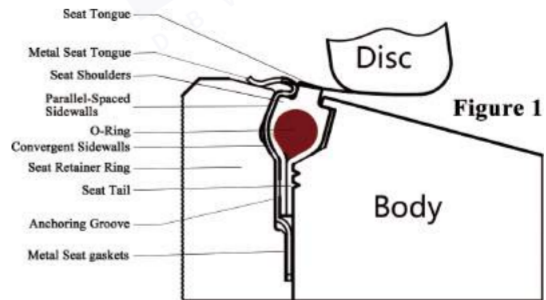


Figure 2 DISC CLOSED, Normal Operation

In Figure 2, the disc and seat assembly are engaged; both the metal seat and the soft seat are in contact with the disc. Under little to no pressure conditions, both seats are self-energized. The disc edge, with a larger diameter than the seat tongues, moves the seats radially outward; the metal seat shape, with a mechanical and dynamic flexibility, is designed to be hoop-loaded and impart a spring force against the disc, while the soft seat o-ring is stretched and flattened (without deformation of the material) and imparts a mechanical pre-load against the disc.

With increased line pressure, the process fluid enters the cavity sidewall area and applies loads against the seat sidewalls. The cavity design allows the seats to move toward the downstream sidewalls, but confines and directs the movement radially inward towards the disc; the higher the pressure the tighter the seal. The symmetrical shape and angle of the cavity permit the seal to be bi-directional.

Figure 3 DISC CLOSED, After Fire (Seat Upstream)

After a fire, with partial or complete destruction of the soft seat, the metal seat maintains metal-to-metal contact with the disc and restricts leakage of the process fluid in conformance to industry fire-safe requirements. With little or no line pressure, the spring force and hoop load of the metal seat maintain a “line contact” seal against the disc edge. Under higher pressures, the process fluid enters the cavity sidewall areas and applies loads against the seat sidewalls (Figure 3). The geometry of the metal seat permits the seat to move axially, but directs the movement radially inward toward the disc. The higher the pressure, the tighter the line contact seal.

Graphite gaskets, on both sides of the metal seat tail, seal the anchoring groove and prevent leakage of the process fluid.

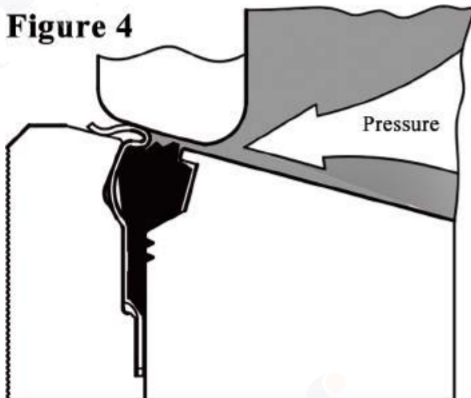
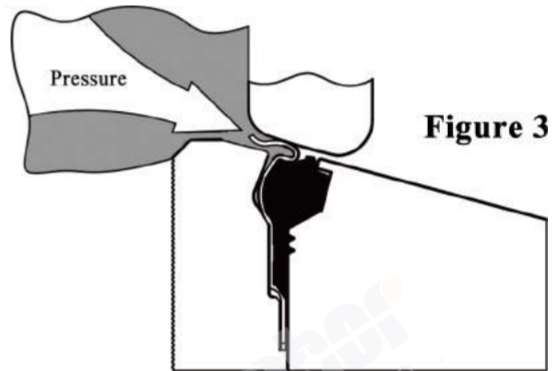


Figure 4 DISC CLOSED, After Fire (Seat Downstream)

The DBV Fire Safe HPBFV is bi-directional; however, modifications are required to operate for bi-directional dead end service. The angle and shape of the cavity and metal seat maintains metal-to-metal contact in the event of partial or complete soft seat destruction with line pressure in the reverse direction (Figure 4).

While the preferred flow direction is “seat upstream” (SUS), the bidirectional seat design is both self-energized and pressure-energized if the flow direction is “seat downstream” (SDS).

Valve Components - Fire Safe Seat

SQUARE

Square valve-to-operator connection applied to ISO5211 pneumatic actuators and electric actuators 2"-28" default connection as square, key type is available.

28"-60" default connection is KEY type.

GLAND FLANGE

Applies load against packing gland to prevent external leakage. Fully adjustable.

PACKING

Common material is graphite.

WEDGE RING

Stainless steel band wedged between valve body and retainer ring by set screws to lock seat and retainer ring in position on valve sizes 2" through 30". Socket head cap screws are used on valve sizes 36" and larger.

OVERTRAVEL STOP

Prevents disc from rotating into the wrong quadrant.

SET SCREWS

Cone point screws force wedge ring outward to lock seat retainer in position on valve sizes 2" through 30" wafer. Socket head cap screws are used on valve sizes 36" and larger and all DDES lug valves.

FIRE SAFE SEAT

Patented bi-directional soft seat design for zero-leakage in normal operation and a metal-to-metal seal after fire, meeting or exceeding industry "fire-safe" specifications.

BLOW OUT PROOF SHAFT

Solid shaft provides alignment and rigid support for disc.

17-4PH and 316 materials are available.

PACKING GLAND

Separate part from gland flange, preventing uneven load distribution against packing.

BEARINGS

Both above and below the disc, bearings are of composite design: 316 bonded to Dupont PTFE wound ring. Used to align shaft, with high capacity, low wear, and low friction coefficient.

WEDGE PINS

Provide positive mechanical attachment of disc to shaft.

BODY

ASME B16.34 design in either wafer or lug configuration.

DISC

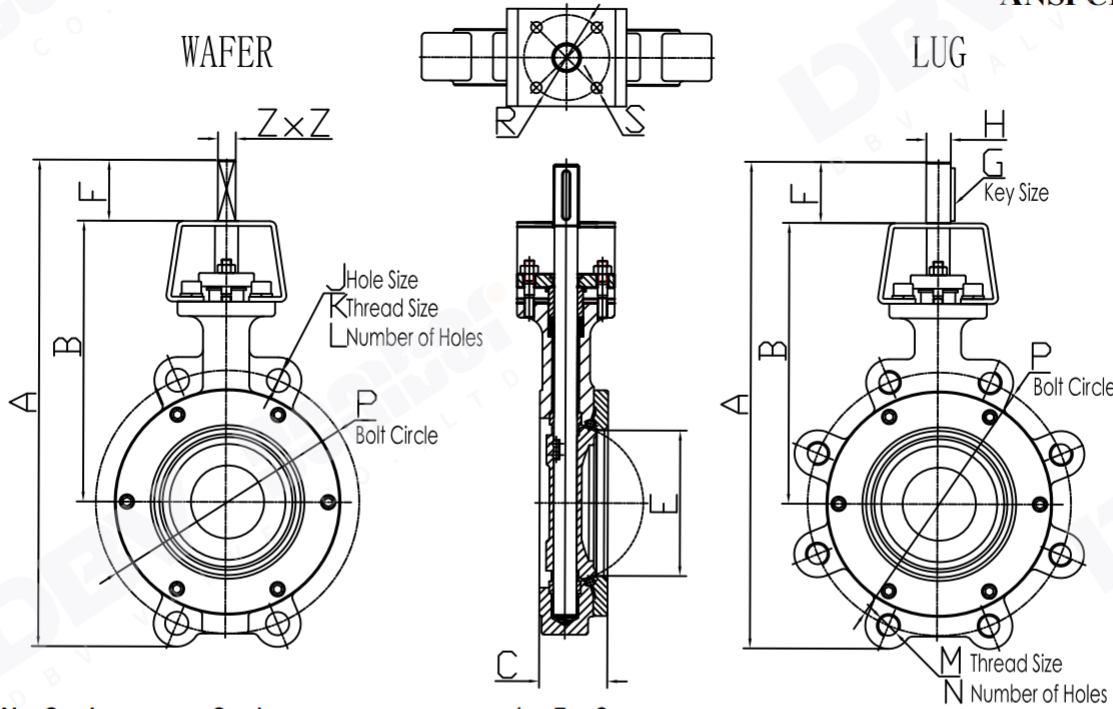
360° uninterrupted spherical edge for sealing. Profile is designed for maximum flow and equal percentage control.

RETAINER RING

Retains seat in valve. Standard surface finish is 125 to 200 AARH and is compatible with both standard gaskets and spiral wound gasket designs. Outside diameter is recessed within gasket sealing surface to prevent external leakage.

High Performance Butterfly Valve Dimensions

ANSI CLASS 150

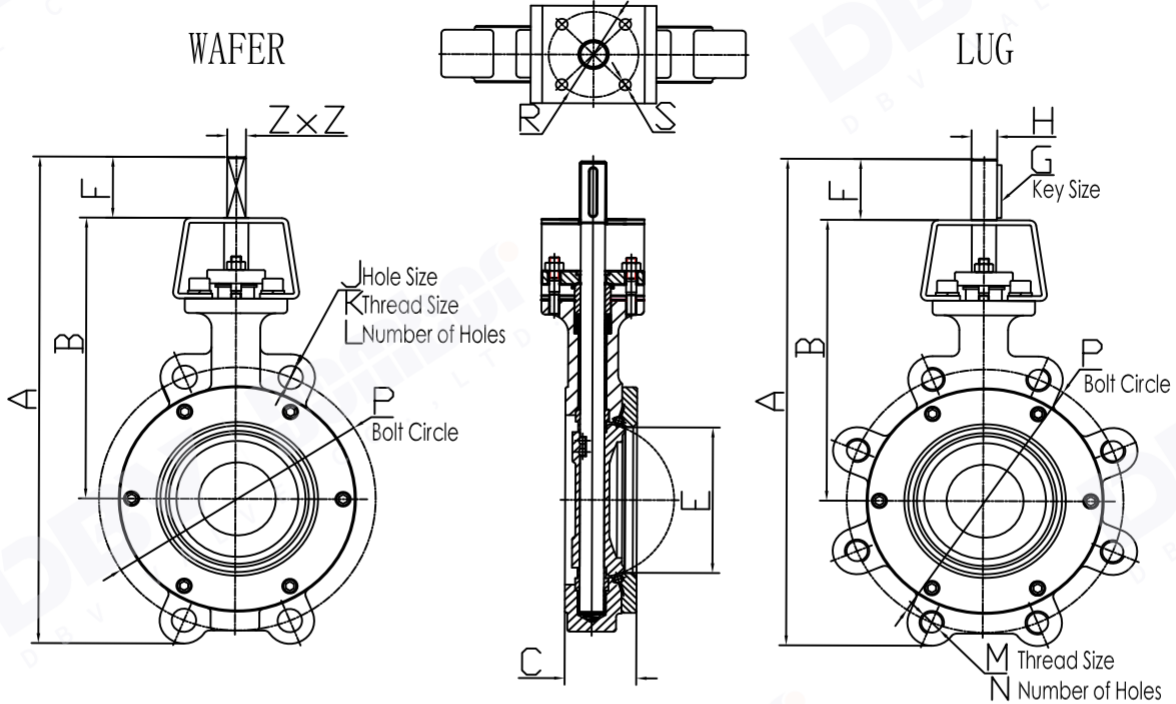


ANSI Class 150

| VALVE SIZE | WAFER | | LUG | | B | C | E | F | ZxZ | | J | K | L | M x N | P ins mm | R | S | WEIGHT (Kg) | |
|------------|--------|----------------|----------------|----------------|----------------|----------------|--------------|----------------------|--------------|---------|---------|---|---|------------|-------------------|------|-------|-------------|------|
| | mm | ins | A | A | | | | | ins/mm | | | | | | | | | G | H |
| 50 | 2" | 10,118 257 | 10,157 258 | 7,598 193 | 1,623 43 | 2,362 60 | 1,063 27 | 0.433*0.433 11*11 | | | | | | 5/8-11X4 | 4.752 120.7 | φ70 | 4Xφ9 | 4.4 | 4.8 |
| 65 | 2 1/2" | 10,236 260 | 10,236 260 | 7,598 193 | 1,811 46 | 2,756 70 | 1,063 27 | 0.433*0.433 11*11 | | | | | | 5/8-11X4 | 5.50 139.7 | φ70 | 4Xφ9 | 4.9 | 5.3 |
| 80 | 3" | 11,525 294 | 11,378 289 | 8,583 218 | 1,929 49 | 3,228 82 | 1,063 27 | 0.433*0.433 11*11 | | | | | | 5/8-11X4 | 6.00 152.4 | φ70 | 4Xφ9 | 5.6 | 6.5 |
| 100 | 4" | 13,189 335 | 13,307 338 | 9,409 239 | 2,047 52 | 4,173 106 | 1,063 27 | 0.551*0.551 14*14 | | | | | | 5/8-11X8 | 7.50 190.5 | φ70 | 4Xφ9 | 8 | 11.5 |
| 125 | 5" | 14,685 373 | 14,764 375 | 10,354 263 | 2,205 56 | 5,039 128 | 1,181 30 | 0.669*0.669 17*17 | | | | | | 3/4-10X8 | 8.50 215.9 | φ70 | 4Xφ9 | 10.5 | 13.5 |
| 150 | 6" | 15,827 402 | 16,063 408 | 10,906 277 | 2,402 61 | 5,984 152 | 1,260 32 | 0.669*0.669 17*17 | | | | | | 3/4-10X8 | 9.50 241.3 | φ70 | 4Xφ9 | 13.5 | 16.5 |
| 200 | 8" | 18,346 466 | 18,543 471 | 12,480 317 | 2,500 63.5 | 7,677 195 | 1,772 45 | 0.669*0.669 17*17 | | | | | | 3/4-10X8 | 11.750 298.45 | φ70 | 4Xφ9 | 20.6 | 24.5 |
| 250 | 10" | 21,063 535 | 21,417 544 | 13,701 348 | 2,795 71 | 9,646 245 | 1,269 50 | 0.866*0.866 22*22 | oval | | | 2 | | 7/8-9X12 | 14.250 361.95 | φ102 | 4Xφ11 | 39 | 45.5 |
| 300 | 12" | 24,606 625 | 24,803 630 | 15,748 400 | 3,228 82 | 11,496 292 | 2,362 60 | 1.063*1.063 27*27 | oval | | | 2 | | 7/8-9X12 | 17.00 431.8 | φ140 | 4Xφ18 | 55 | 67.5 |
| 350 | 14" | 28,031 712 | 27,598 701 | 16,417 417 | 3,622 92 | 13,346 339 | 2,362 60 | 1.063*1.063 27*27 | oval | | | 4 | | 1-8X12 | 18.750 476.25 | φ140 | 4Xφ18 | 68 | 115 |
| 400 | 16" | 31,181 792 | 31,181 792 | 18,740 476 | 4,008 101.8 | 15,236 387 | 3,150 80 | 1.063*1.063 27*27 | oval | | | 4 | | 1-8X16 | 21.250 539.75 | φ165 | 4Xφ21 | 116 | 132 |
| 450 | 18" | 35,315 897 | 35,315 897 | 22,205 564 | 4,512 114.6 | 17,130 435 | 3,543 90 | 1.417*1.417 36*36 | oval | | | 4 | | 1 1/8-8X16 | 22.750 577.85 | φ165 | 4Xφ21 | 145 | 168 |
| 500 | 20" | 37,992 965 | 37,992 965 | 23,543 598 | 5,000 127 | 19,291 490 | 3,543 90 | 1.417*1.417 36*36 | | 1 1/8-8 | | 4 | | 1 1/8-8X20 | 25.0 635.0 | φ165 | 4Xφ21 | 185 | 220 |
| 600 | 24" | 43,189 1097 | 43,189 1097 | 26,457 672 | 6,043 153.5 | 23,031 585 | 4,331 110 | 1.811*1.811 46*46 | | 1 1/4-8 | | 4 | | 1 1/4-8X20 | 29.50 749.3 | φ165 | 4Xφ21 | 290 | 310 |
| 650 | 26" | 45,906 1166 | 45,906 1166 | 27,874 708 | 6,496 165 | 25,200 640 | 4,331 110 | 1.811*1.811 46*46 | | 1 1/4-8 | | 4 | | 1 1/4-8X24 | 31.750 806.45 | φ165 | 4Xφ21 | 330 | 345 |
| 700 | 28" | 48,504 1232 | 48,504 1232 | 29,055 738 | 6,496 165 | 27,165 690 | 4,331 110 | 1.811*1.811 46*46 | | 1 1/4-8 | | 4 | | 1 1/4-8X28 | 34.0 863.6 | φ165 | 4Xφ21 | 495 | 579 |
| 750 | 30" | 51,260 1302 | 51,260 1302 | 30,433 773 | 7,520 191 | 28,307 719 | 4,724 120 | 0.866 22 | 3,150 80 | | 1 1/4-8 | 4 | | 1 1/4-8X28 | 36.0 914.4 | φ165 | 4Xφ21 | 652 | 773 |
| 800 | 32" | 53,425 1357 | 53,425 1357 | 31,339 796 | 7,520 191 | 30,200 767 | 4,724 120 | 0.866 22 | 3,150 80 | | 1 1/2-8 | 4 | | 1 1/2-8X28 | 38.50 977.9 | φ165 | 4Xφ21 | 736 | 922 |
| 850 | 34" | 56,850 1444 | 56,850 1444 | 33,701 856 | 7,756 197 | 32,126 816 | 4,724 120 | 0.866 22 | 3,150 80 | | 1 1/2-8 | 4 | | 1 1/2-8X32 | 40.50 1028.7 | φ254 | 8Xφ17 | 842 | 1047 |
| 900 | 36" | 59,134 1502 | 59,134 1502 | 36,417 925 | 8,268 210 | 34,016 864 | 4,724 120 | 0.866 22 | 3,150 80 | | 1 1/2-8 | 4 | | 1 1/2-8X32 | 42.750 1085.85 | φ254 | 8Xφ17 | 871 | 1160 |
| 1000 | 40" | 64,331 1634 | 64,331 1634 | 37,520 953 | 9,488 241 | 37,008 940 | 5,118 130 | 0.984 25 | 4,134 105 | | 1 1/2-8 | 4 | | 1 1/2-8X36 | 47.250 1200.15 | φ254 | 8Xφ17 | 1728 | 1779 |
| 1050 | 42" | 66,535 1690 | 66,535 1690 | 38,543 979 | 9,488 241 | 39,055 992 | 5,118 130 | 0.984 25 | 4,134 105 | | 1 1/2-8 | 4 | | 1 1/2-8X36 | 49.50 1257.3 | φ254 | 8Xφ17 | 1905 | 1930 |
| 1200 | 48" | 74,685 1897 | 74,685 1897 | 43,386 1102 | 10,000 254 | 46,102 1171 | 5,118 130 | 1.260 32 | 4,528 115 | | 1 1/2-8 | 4 | | 1 1/2-8X44 | 56.0 1422.4 | φ298 | 8Xφ22 | 2074 | 2548 |
| 1350 | 54" | 82,283 2090 | 82,283 2090 | 47,598 1209 | 10,748 273 | 52,441 1332 | 5,906 150 | 1.417 36 | 5,512 140 | | 1 3/4-8 | 4 | | 1 3/4-8X44 | 62.750 1593.85 | φ298 | 8Xφ22 | 3175 | 3210 |

High Performance Butterfly Valve Dimensions

ANSI CLASS 300



ANSI Class 300

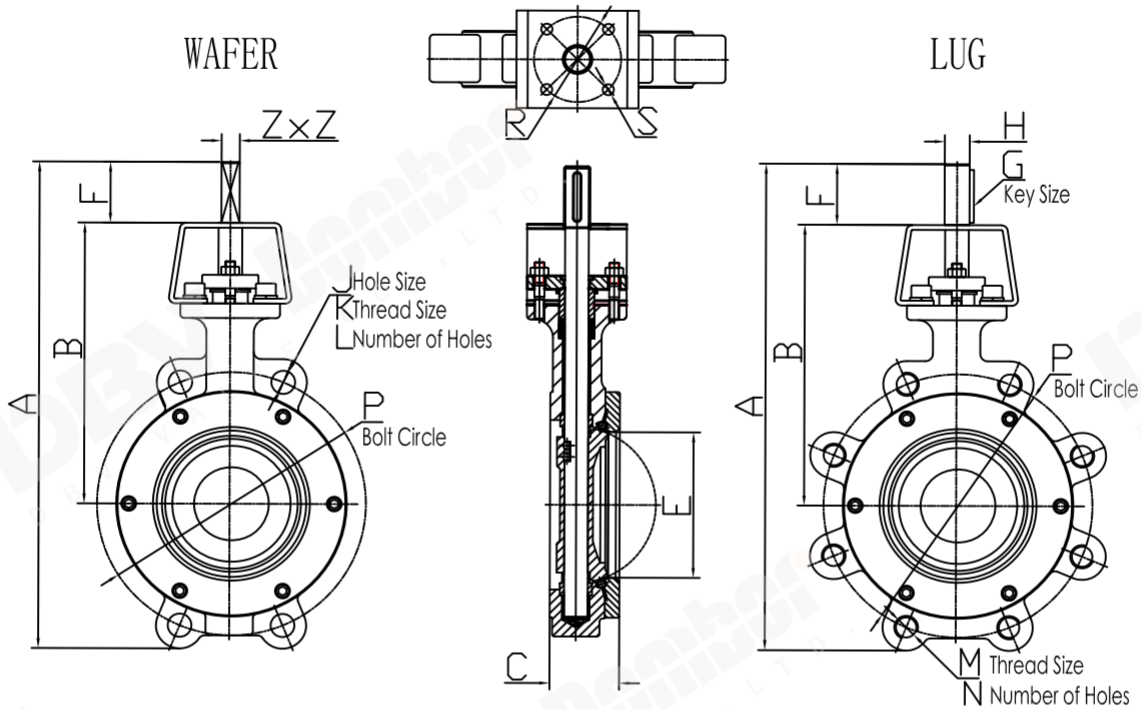
| VALVE SIZE | WAFER | | LUG | | B | C | E | F | Z x Z | | J | K | L | M x N | P ins mm | R | S | WEIGHT (Kg) | |
|------------|--------|----------------|----------------|----------------|---------------|----------------|--------------|----------------------|--------------|---------|---|------------|-----------------|-------|----------------|------|------|-------------|---|
| | mm | ins | A | A | | | | | ins/mm | | | | | | | | | G | H |
| 50 | 2" | 10.118 257 | 10.472 266 | 7.480 190 | 1.693 43 | 2.362 60 | 1.063 27 | 0.433*0.433 11*11 | oval | | 4 | 5/8-11X8 | 5.00 127 | φ70 | 4Xφ9 | 4.5 | 6.1 | | |
| 65 | 2 1/2" | 10.236 260 | 10.906 277 | 7.480 190 | 1.811 46 | 2.717 69 | 1.063 27 | 0.433*0.433 11*11 | | | | 3/4-10X8 | 5.878 149.3 | φ70 | 4Xφ9 | 5 | 7 | | |
| 80 | 3" | 11.575 294 | 12.244 311 | 8.504 216 | 1.929 49 | 3.228 82 | 1.063 27 | 0.433*0.433 11*11 | | | | 3/4-10X8 | 6.625 168.28 | φ70 | 4Xφ9 | 6.5 | 9 | | |
| 100 | 4" | 13.150 335 | 13.740 349 | 9.252 235 | 2.047 52 | 4.173 106 | 1.063 27 | 0.551*0.551 14*14 | | | | 3/4-10X8 | 7.878 200.1 | φ70 | 4Xφ9 | 8 | 14 | | |
| 125 | 5" | 14.685 373 | 15.118 384 | 10.00 254 | 2.244 57 | 5.039 128 | 1.181 30 | 0.669*0.669 17*17 | | | | 3/4-10X8 | 9.250 234.9 | φ70 | 4Xφ9 | 10.5 | 16.5 | | |
| 150 | 6" | 15.866 403 | 16.850 428 | 10.945 278 | 2.402 61 | 5.984 152 | 1.260 32 | 0.669*0.669 17*17 | | | | 3/4-10X12 | 10.618 269.7 | φ70 | 4Xφ9 | 16.5 | 22 | | |
| 200 | 8" | 19.094 485 | 19.685 500 | 12.756 324 | 2.835 72 | 7.677 195 | 1.970 50 | 0.866*0.866 22*22 | | | | 7/8-9X12 | 13.00 330.2 | φ102 | 4Xφ11 | 35 | 41 | | |
| 250 | 10" | 21.614 549 | 22.598 574 | 14.016 356 | 3.268 83 | 9.724 247 | 2.362 60 | 1.063*1.063 27*27 | oval | | 2 | 1-8X16 | 15.250 387.3 | φ102 | 4Xφ11 | 53 | 64 | | |
| 300 | 12" | 26.299 668 | 26.299 668 | 16.811 427 | 3.622 92 | 11.575 294 | 2.756 70 | 1.063*1.063 27*27 | oval | | 2 | 1 1/8-8X16 | 17.750 450.8 | φ140 | 4Xφ18 | 77 | 90 | | |
| 350 | 14" | 30.433 773 | 30.433 773 | 18.386 467 | 4.646 118 | 13.465 342 | 3.150 80 | 1.417*1.417 36*36 | | 1 1/8-8 | 4 | 1 1/8-8X20 | 20.250 514.3 | φ165 | 4Xφ21 | 124 | 146 | | |
| 400 | 16" | 35.512 902 | 35.512 902 | 23.110 587 | 5.354 136 | 15.236 387 | 3.150 80 | 1.417*1.417 36*36 | | 1 1/4-8 | 4 | 1 1/4-8X20 | 22.50 571.5 | φ165 | 4Xφ21 | 165 | 220 | | |
| 450 | 18" | 38.189 970 | 38.189 970 | 24.646 626 | 5.984 152 | 17.322 440 | 3.543 90 | 1.417*1.417 36*36 | | 1 1/4-8 | 4 | 1 1/4-8X24 | 24.750 628.6 | φ165 | 4Xφ21 | 218 | 315 | | |
| 500 | 20" | 44.646 1134 | 44.646 1134 | 26.535 674 | 6.339 161 | 19.370 492 | 3.937 100 | 1.811*1.811 46*46 | | 1 1/4-8 | 4 | 1 1/4-8X24 | 27.00 685.8 | φ165 | 4Xφ21 | 298 | 410 | | |
| 600 | 24" | 48.386 1229 | 48.386 1229 | 30.709 780 | 7.165 182 | 23.110 587 | 4.724 120 | 0.866 22 | 3.150 80 | 1 1/2-8 | 4 | 1 1/2-8X24 | 32.00 812.8 | φ254 | 8Xφ17 | 340 | 495 | | |
| 750 | 30" | 56.614 1438 | 56.614 1438 | 34.252 870 | 8.858 225 | 28.425 722 | 5.118 130 | 0.984 25 | 4.134 105 | 1 3/4-8 | 4 | 1 3/4-8X28 | 39.250 996.9 | φ254 | 8Xφ17 | 867 | 1150 | | |
| 900 | 36" | 65.394 1661 | 65.394 1661 | 40.551 1030 | 10.669 271 | 34.016 864 | 5.906 150 | 1.260 32 | 4.528 115 | 1 3/4-8 | 4 | 1 3/4-8X32 | 46.00 1168.4 | φ298 | 8Xφ22 | 1230 | 1540 | | |
| 1050 | 42" | 68.268 1734 | 68.268 1734 | 43.189 1097 | 11.496 292 | 39.291 998 | 6.299 160 | 1.417 36 | 5.512 140 | 1 5/8-8 | 4 | 1 5/8-8X32 | 47.50 1206.6 | φ298 | 8Xφ22 | 1760 | 2390 | | |
| 1200 | 48" | 75.512 1918 | 75.512 1918 | 47.441 1205 | 12.520 318 | 46.457 1180 | 7.087 180 | 1.575 40 | 6.299 160 | 1 7/8-8 | 4 | 1 7/8-8X32 | 54.00 1371.6 | φ356 | 8Xφ32 | 2270 | 2890 | | |

NOTE:

Drawings are for reference only. Please contact factory for separate drawing for each size at info@dbv-armaturen.com. DBV Valve machinery reserves the right to change product dimensions without notice.

High Performance Butterfly Valve Dimensions

ANSI CLASS 600



ANSI Class 600

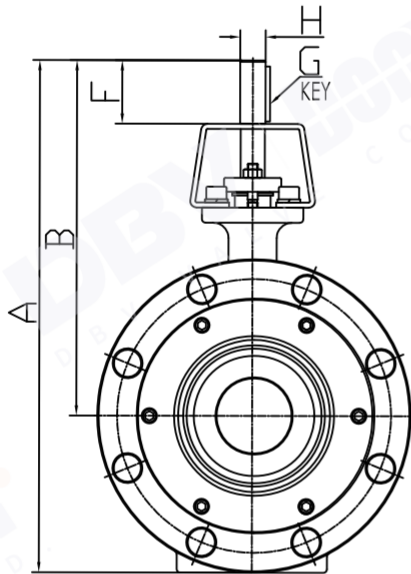
| VALVE SIZE | WAFER | LUG | B | C | E | F | ZxZ | | J | K | L | M x N | P ins mm | R mm | S mm | WBGT (Kg) | |
|------------|-------|----------------|----------------|---------------|--------------|---------------|--------------|----------------------|--------------|------|---|----------|-----------------|---------|---------|-----------|------|
| | A | A | | | | | ins/mm | | | | | | | | | G | H |
| 50 | 2" | 10.512 267 | 10.512 267 | 7.835 199 | 1.929 49 | 2.126 54 | 1.063 27 | 0.551*0.551 14*14 | oval | | 4 | 5/8-11X8 | 500 127 | φ70 | 4Xφ9 | 7.5 | 8.5 |
| 65 | 2½" | 10.512 267 | 10.906 277 | 7.835 199 | 2.047 52 | 2.598 66 | 1.063 27 | 0.551*0.551 14*14 | | | | 3/4-10X8 | 5878 149.3 | φ70 | 4Xφ9 | 8.2 | 9.5 |
| 80 | 3" | 12.165 309 | 12.559 319 | 8.898 226 | 2.205 56 | 3.031 77 | 1.181 30 | 0.669*0.669 17*17 | | | | 3/4-10X8 | 6.618 168.1 | φ70 | 4Xφ9 | 10.5 | 13 |
| 100 | 4" | 14.173 360 | 14.370 365 | 9.724 247 | 2.756 70 | 4.016 102 | 1.181 30 | 0.669*0.669 17*17 | | | | 7/8-9X8 | 8.50 215.9 | φ70 | 4Xφ9 | 18.5 | 25 |
| 150 | 6" | 18.071 459 | 18.071 459 | 11.811 300 | 3.346 85 | 5.748 146 | 2.165 55 | 1.063*1.063 27*27 | | 1-8 | 2 | 1-8X12 | 11.50 292.1 | φ102 | 4Xφ11 | 35 | 53 |
| 200 | 8" | 22.913 582 | 22.913 582 | 13.937 354 | 4.213 107 | 7.401 188 | 2.362 60 | 1.063*1.063 27*27 | | 1½-8 | 4 | 1½-8X12 | 13.75 349.3 | φ102 | 4Xφ11 | 67 | 101 |
| 250 | 10" | 26.229 668 | 26.229 668 | 15.433 392 | 4.803 122 | 9.252 235 | 2.362 60 | 1.260*1.260 32*32 | | 1¼-8 | 4 | 1¼-8X16 | 17.00 431.8 | φ165 | 4Xφ21 | 120 | 175 |
| 300 | 12" | 30.315 770 | 30.315 770 | 18.307 465 | 5.512 140 | 11.260 286 | 2.362 60 | 1.260*1.260 32*32 | | 1¼-8 | 4 | 1¼-8X20 | 19.250 489.0 | φ165 | 4Xφ21 | 170 | 230 |
| 350 | 14" | 35.276 896 | 35.276 896 | 22.362 568 | 6.103 155 | 12.835 326 | 2.953 75 | 1.417*1.417 36*36 | | 1¾-8 | 4 | 1¾-8X20 | 20.750 527.1 | φ165 | 4Xφ21 | 231 | 327 |
| 400 | 16" | 39.567 1005 | 39.567 1005 | 24.843 631 | 7.008 178 | 14.843 377 | 3.543 90 | 1.811*1.811 46*46 | | 1½-8 | 4 | 1½-8X20 | 23.750 603.3 | φ165 | 4Xφ21 | 325 | 482 |
| 450 | 18" | 45.551 1157 | 45.551 1157 | 29.685 754 | 7.756 197 | 16.654 423 | 3.937 100 | 0.866 22 | 3.150 80 | 1-8 | 4 | 1-8X20 | 25.750 654.1 | φ254 | 8Xφ17 | 480 | 652 |
| 500 | 20" | 49.370 1254 | 49.370 1254 | 31.732 806 | 8.504 216 | 18.465 469 | 4.724 120 | 0.984 25 | 4.134 105 | 1-8 | 4 | 1-8X24 | 28.50 723.9 | φ254 | 8Xφ17 | 605 | 815 |
| 600 | 24" | 58.780 1493 | 58.780 1493 | 31.260 794 | 9.134 232 | 22.283 566 | 5.906 150 | 1.260 32 | 4.528 115 | 1-8 | 4 | 1-8X24 | 33.00 838.2 | φ298 | 8Xφ22 | 950 | 1285 |

NOTE: Drawings are for reference only. Please contact factory for separate drawing for each size at info@dbv-armaturen.com. DBV Valve reserves the right to change product dimensions without notice.

Double Flange

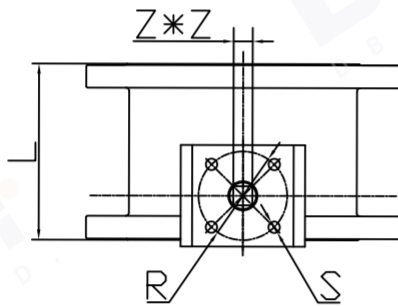
ANSI Class 150

Flanged Valves



| VALVE SIZE | | A | B | L | | F | Z x Z | | R | S | WEIGHT (Kg) | |
|------------|-----|----------------|-----------------|---------------|----------------|--------------|----------------------|-------------|------|-------|-------------|-------|
| mm | ins | ins mm | ins mm | Long | Short | ins mm | H | G | mm | mm | Long | Short |
| 80 | 3" | 12.717 323 | 8.976 228 | 8.071 205 | 4.488 114 | 1.063 27 | 0.433*0.433 11*11 | | φ70 | 4Xφ9 | 26 | 19 |
| 100 | 4" | 14.646 372 | 10.157 258 | 9.016 229 | 5.00 127 | 1.063 27 | 0.551*0.551 14*14 | | φ70 | 4Xφ9 | 34 | 25 |
| 125 | 5" | 15.906 404 | 10.906 277 | 10.00 254 | 5.512 140 | 1.181 30 | 0.669*0.669 17*17 | | φ70 | 4Xφ9 | 42 | 30 |
| 150 | 6" | 16.969 431 | 11.457 291 | 10.512 267 | 5.512 140 | 1.260 32 | 0.669*0.669 17*17 | | φ70 | 4Xφ9 | 49 | 34 |
| 200 | 8" | 19.843 504 | 13.091 332.5 | 11.496 292 | 5.984 152 | 1.272 45 | 0.669*0.669 17*17 | | φ70 | 4Xφ9 | 77 | 51 |
| 250 | 10" | 21.693 551 | 13.701 348 | 11.811 300 | 6.496 165 | 1.269 50 | 0.866*0.866 22*22 | | φ102 | 4Xφ11 | 102 | 78 |
| 300 | 12" | 25.276 642 | 15.748 400 | 14.016 356 | 7.008 178 | 2.362 60 | 1.063*1.063 27*27 | | φ140 | 4Xφ18 | 160 | 112 |
| 350 | 14" | 29.055 738 | 18.150 461 | 15.00 381 | 7.520 191 | 2.362 60 | 1.063*1.063 27*27 | | φ140 | 4Xφ18 | 198 | 141 |
| 400 | 16" | 30.354 771 | 18.623 473 | 15.984 406 | 8.504 216 | 3.150 80 | 1.063*1.063 27*27 | | φ165 | 4Xφ21 | 233 | 175 |
| 450 | 18" | 35.670 906 | 23.150 588 | 17.008 432 | 8.760 222.5 | 3.543 90 | 1.417*1.417 36*36 | | φ165 | 4Xφ21 | 272 | 213 |
| 500 | 20" | 38.071 967 | 24.331 618 | 17.992 457 | 9.016 229 | 3.543 90 | 1.417*1.417 36*36 | | φ165 | 4Xφ21 | 351 | 262 |
| 600 | 24" | 43.189 1097 | 27.205 691 | 20.00 508 | 10.512 267 | 4.331 110 | 1.811*1.811 46*46 | | φ165 | 4Xφ21 | 493 | 386 |
| 750 | 30" | 50.906 1293 | 31.535 801 | 24.016 610 | 12.520 318 | 4.724 120 | 3.150 80 | 0.866 22 | φ165 | 4Xφ21 | 652 | 598 |
| 900 | 36" | 52.409 1509 | 36.417 925 | 27.992 711 | 12.992 330 | 4.724 120 | 3.150 80 | 0.866 22 | φ254 | 8Xφ17 | 869 | 789 |

ANSI Class 300



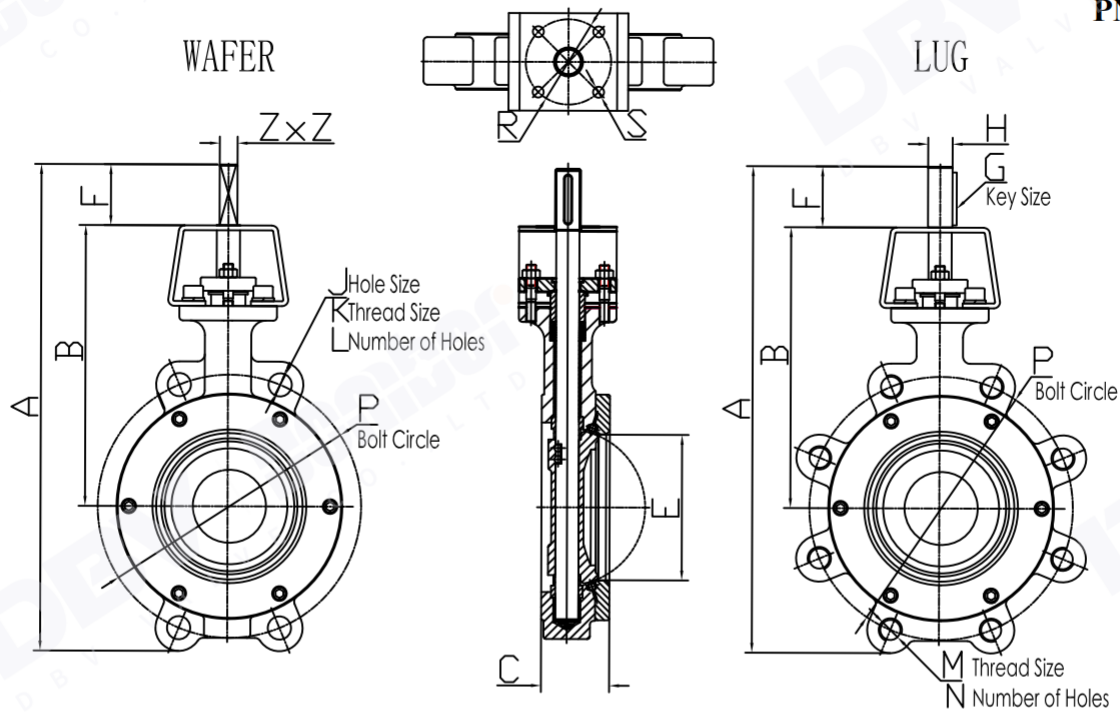
| VALVE SIZE | | A | B | L | | F | Z x Z | | R | S | WEIGHT (Kg) | |
|------------|-----|----------------|---------------|---------------|---------------|--------------|----------------------|-------------|------|-------|-------------|-------|
| mm | ins | ins mm | ins mm | Long | Short | ins mm | H | G | mm | mm | Long | Short |
| 80 | 3" | 12.717 323 | 8.976 228 | 8.071 205 | 4.488 114 | 1.063 27 | 0.433*0.433 11*11 | | φ70 | 4Xφ9 | 30 | 21 |
| 100 | 4" | 15.157 385 | 10.157 258 | 12.001 305 | 5.00 127 | 1.063 27 | 0.551*0.551 14*14 | | φ70 | 4Xφ9 | 46 | 25 |
| 125 | 5" | 16.457 418 | 10.906 277 | 15.00 381 | 5.512 140 | 1.181 30 | 0.669*0.669 17*17 | | φ70 | 4Xφ9 | 59 | 42 |
| 150 | 6" | 17.835 453 | 11.614 295 | 15.866 403 | 5.512 140 | 1.260 32 | 0.669*0.669 17*17 | | φ70 | 4Xφ9 | 79 | 51 |
| 200 | 8" | 20.472 520 | 12.992 330 | 16.496 419 | 5.984 152 | 1.269 50 | 0.866*0.866 22*22 | | φ102 | 4Xφ11 | 109 | 83 |
| 250 | 10" | 22.953 583 | 14.212 361 | 18.701 475 | 6.496 165 | 2.362 60 | 1.063*1.063 27*27 | | φ102 | 4Xφ11 | 135 | 124 |
| 300 | 12" | 27.322 694 | 17.047 433 | 19.764 502 | 7.008 178 | 2.756 70 | 1.063*1.063 27*27 | | φ140 | 4Xφ18 | 211 | 173 |
| 350 | 14" | 29.882 759 | 18.386 467 | 30.00 762 | 7.520 191 | 3.150 80 | 1.417*1.417 36*36 | | φ165 | 4Xφ21 | 330 | 235 |
| 400 | 16" | 35.827 910 | 23.071 586 | 32.992 838 | 8.504 216 | 3.150 80 | 1.417*1.417 36*36 | | φ165 | 4Xφ21 | 423 | 329 |
| 450 | 18" | 38.622 981 | 24.646 626 | 35.984 914 | 8.858 225 | 3.543 90 | 1.417*1.417 36*36 | | φ165 | 4Xφ21 | 574 | 457 |
| 500 | 20" | 53.110 1349 | 26.535 674 | 39.016 991 | 9.016 229 | 3.937 100 | 1.811*1.811 46*46 | | φ165 | 4Xφ21 | 660 | 522 |
| 600 | 24" | 48.740 1238 | 30.709 780 | 45.00 1143 | 10.433 265 | 4.724 120 | 3.150 80 | 0.866 22 | φ254 | 8Xφ17 | 862 | 808 |

NOTE:

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High Performance Butterfly Valve Dimensions

PN16/PN25

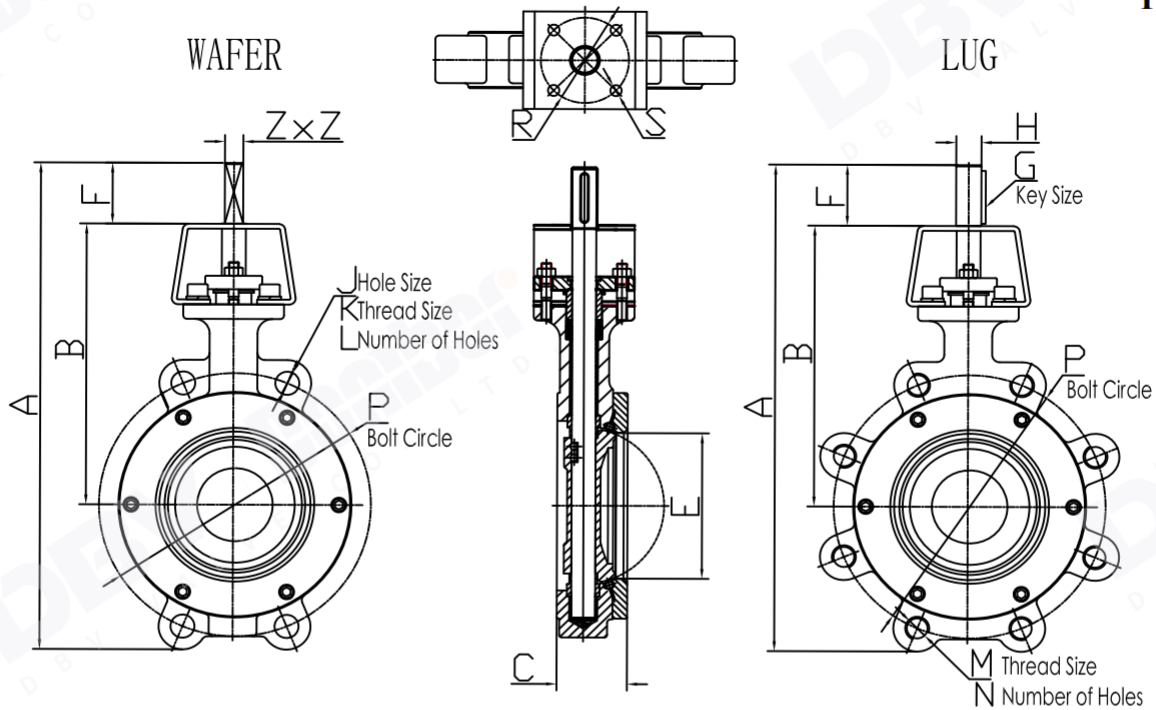


P N 1 . 6 M P a / P N 2 . 5 M P a

| VALVE SIZE | WAFER | LUG | B | C | E | F | Z x Z | | J | K | L | M x N | P | R | S | WEIGHT (kg) | |
|------------|-------|------|------|------|-------|--------|-------|-------|-----|------|------------|------------------|--------------|------|-------|-------------|------|
| | | | | | | | G | H | | | | | | | | mm | mm |
| 50 | 2" | 257 | 258 | 193 | 43 | 60.12 | 27 | 11*11 | | | | M16X4 M16X4 | 125 | φ70 | 4Xφ9 | 4.4 | 4.8 |
| 65 | 2½" | 260 | 260 | 193 | 46 | 69.5 | 27 | 11*11 | | | | M16X4 M16X8 | 145 | φ70 | 4Xφ9 | 4.9 | 5.3 |
| 80 | 3" | 294 | 289 | 218 | 49 | 82.44 | 27 | 11*11 | | | | M16X8 M16X8 | 160 | φ70 | 4Xφ9 | 5.6 | 6.5 |
| 100 | 4" | 335 | 338 | 239 | 52 | 105.7 | 27 | 14*14 | | | | M16X8 M20X8 | 180 190 | φ70 | 4Xφ9 | 8 | 11.5 |
| 125 | 5" | 373 | 375 | 263 | 56 | 128.06 | 30 | 17*17 | | | | M16X8 M24X8 | 210 220 | φ70 | 4Xφ9 | 10.5 | 13.5 |
| 150 | 6" | 402 | 408 | 277 | 61 | 151.8 | 32 | 17*17 | | | | M20X8 M24X8 | 240 250 | φ70 | 4Xφ9 | 13.5 | 16.5 |
| 200 | 8" | 466 | 471 | 317 | 63.5 | 195.3 | 45 | 17*17 | | | | M20X12 M27X12 | 295 310 | φ70 | 4Xφ9 | 20.6 | 24.5 |
| 250 | 10" | 535 | 544 | 348 | 71 | 244.7 | 50 | 22*22 | | oval | | M24X12 M21X12 | 355 370 | φ102 | 4Xφ11 | 39 | 45.5 |
| 300 | 12" | 625 | 630 | 400 | 82 | 291.9 | 60 | 27*27 | | oval | | M24X12 M27X16 | 410 430 | φ140 | 4Xφ18 | 55 | 67.5 |
| 350 | 14" | 712 | 701 | 417 | 92 | 339.2 | 60 | 27*27 | | oval | | M24X16 M30X16 | 470 490 | φ140 | 4Xφ18 | 68 | 115 |
| 400 | 16" | 792 | 792 | 476 | 101.8 | 387.4 | 70 | 27*27 | | oval | | M27X16 M33X16 | 525 550 | φ165 | 4Xφ21 | 116 | 132 |
| 500 | 20" | 965 | 965 | 598 | 127 | 489.8 | 90 | 36*36 | | | M30 M33 | M30X20 M33X20 | 650 660 | φ165 | 4Xφ21 | 185 | 220 |
| 600 | 24" | 1097 | 1097 | 672 | 153.5 | 585.4 | 110 | 46*46 | | | M33 M36 | M33X20 M36X20 | 770 770 | φ165 | 4Xφ21 | 290 | 310 |
| 700 | 28" | 1232 | 1232 | 738 | 165 | 689.9 | 148.7 | 46*46 | | | M33 M39 | M33X24 M39X24 | 840 875 | φ165 | 4Xφ21 | 495 | 579 |
| 800 | 32" | 1357 | 1357 | 796 | 191 | 767.1 | 148.7 | 22 | 80 | | M36 M45 | M36X24 M45X24 | 950 990 | φ165 | 4Xφ21 | 736 | 922 |
| 900 | 36" | 1502 | 1502 | 925 | 210 | 864.0 | 158.2 | 22 | 80 | | M36 M45 | M36X28 M45X28 | 1050 1090 | φ254 | 8Xφ17 | 871 | 1160 |
| 1000 | 40" | 1634 | 1634 | 953 | 241 | 940.0 | 158.2 | 25 | 105 | | M39 M52 | M39X28 M52X28 | 1170 1210 | φ254 | 8Xφ17 | 1728 | 1779 |
| 1200 | 48" | 1897 | 1897 | 1102 | 254 | 1171.0 | 178.2 | 32 | 115 | | M45 M52 | M45X32 M52X32 | 1390 1420 | φ298 | 8Xφ22 | 2074 | 2548 |
| 1350 | 54" | 2090 | 2090 | 1209 | 273 | 1332.0 | 178.2 | 36 | 140 | | M45 M56 | M45X36 M56X36 | 1590 1640 | φ298 | 8Xφ22 | 3175 | 3210 |

High Performance Butterfly Valve Dimensions

PN40



P N 4 . 0 M P a

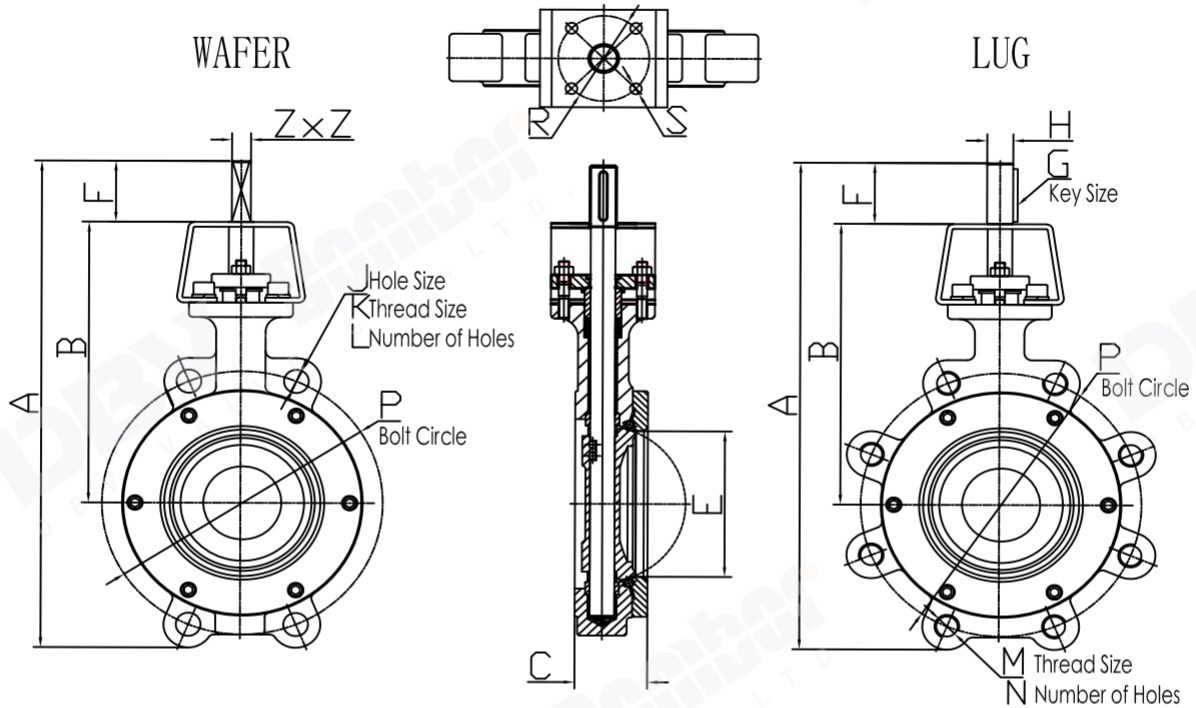
| VALVE SIZE | | WAFER | LUG | B | C | E | F | Z x Z | | J | K | L | M x N | P mm | R mm | S mm | WEIGHT (Kg) | |
|------------|-----|-------|------|-------|-----|-------|-----|-------|------|-----|---|--------|--------|---------|---------|---------|-------------|------|
| DN | ins | A | A | | | | | G | H | | | | | | | | oval | oval |
| 50 | 2" | 257 | 266 | 190 | 43 | 60 | 27 | 11*11 | oval | | | 4 | M16X4 | 125 | Ø70 | 4XØ9 | 4.5 | 6.1 |
| 65 | 2½" | 260 | 277 | 190 | 46 | 69 | 27 | 11*11 | | | | | M16X8 | 145 | Ø70 | 4XØ9 | 5 | 7 |
| 80 | 3" | 294 | 311 | 216 | 49 | 82 | 27 | 11*11 | | | | | M16X8 | 160 | Ø70 | 4XØ9 | 6.5 | 9 |
| 100 | 4" | 335 | 349 | 235 | 52 | 106 | 27 | 14*14 | | | | | M20X8 | 190 | Ø70 | 4XØ9 | 8 | 14 |
| 125 | 5" | 373 | 384 | 254 | 57 | 128 | 30 | 17*17 | | | | | M24X8 | 220 | Ø70 | 4XØ9 | 10.5 | 16.5 |
| 150 | 6" | 403 | 428 | 278 | 61 | 152 | 32 | 17*17 | | | | | M24X8 | 250 | Ø70 | 4XØ9 | 16.5 | 22 |
| 200 | 8" | 485 | 500 | 324 | 72 | 195 | 50 | 22*22 | | | | | M27X12 | 320 | Ø102 | 4XØ11 | 35 | 41 |
| 250 | 10" | 549 | 574 | 356 | 83 | 247 | 60 | 27*27 | oval | | | 2 | M30X12 | 385 | Ø102 | 4XØ11 | 53 | 64 |
| 300 | 12" | 668 | 668 | 427 | 92 | 294 | 70 | 27*27 | oval | | | 2 | M30X16 | 450 | Ø140 | 4XØ18 | 77 | 90 |
| 350 | 14" | 773 | 773 | 467.1 | 118 | 342 | 80 | 36*36 | | M33 | 4 | M33X16 | 510 | Ø165 | 4XØ21 | 124 | 146 | |
| 400 | 16" | 902 | 902 | 586.5 | 136 | 387 | 80 | 36*36 | | M36 | 4 | M36X16 | 585 | Ø165 | 4XØ21 | 165 | 220 | |
| 450 | 18" | 970 | 970 | 626 | 152 | 440 | 90 | 36*36 | | M36 | 4 | M36X20 | 610 | Ø165 | 4XØ21 | 218 | 315 | |
| 500 | 20" | 1134 | 1134 | 674 | 161 | 492.1 | 100 | 45*45 | | M39 | 4 | M39X20 | 670 | Ø165 | 4XØ21 | 298 | 410 | |
| 600 | 24" | 1229 | 1229 | 780 | 182 | 587 | 120 | 22 | 80 | M45 | 4 | M45X20 | 795 | Ø254 | 8XØ17 | 340 | 495 | |
| 700 | 28" | 1355 | 1355 | 840 | 225 | 667 | 130 | 25 | 105 | M45 | 4 | M45X24 | 900 | Ø254 | 8XØ17 | 530 | 660 | |
| 900 | 36" | 1661 | 1661 | 1030 | 271 | 864 | 150 | 32 | 115 | M52 | 4 | M52X28 | 1140 | Ø298 | 8XØ22 | 1230 | 1540 | |
| 1000 | 40" | 1710 | 1710 | 1055 | 292 | 910 | 160 | 36 | 140 | M52 | 4 | M52X28 | 1250 | Ø298 | 8XØ22 | 1450 | 1980 | |
| 1200 | 48" | 1918 | 1918 | 1205 | 318 | 1180 | 180 | 40 | 160 | M56 | 4 | M56X32 | 1371.6 | Ø356 | 8XØ32 | 2270 | 2890 | |

NOTE:

Drawings are for reference only. Please contact factory for separate drawing for each size at info@dbv-armaturen.com. DBV Valve reserves the right to change product dimensions without notice.

High Performancee Butterfly Valve Dimensions

PN100



PN 10 . 0 M P a

| VALVE SIZE | DN | INS | WAFER | LUG | B | C | E | F | Z x Z | | J | K | L | M x N | P | R | S | WEIGHT (Kg) | |
|------------|-----|------|-------|-----|-----|-------|-----|-------|-------|-----|---|---|---|--------|-----|------|-------|-------------|------|
| | | | A | A | | | | | G | H | | | | | | | | WAFER | LUG |
| 50 | 2" | 267 | 267 | 199 | 49 | 54.1 | 27 | 14*14 | oval | | | | 4 | M24X8 | 145 | φ70 | 4Xφ9 | 7.5 | 8.5 |
| 65 | 2½" | 267 | 277 | 199 | 52 | 64.6 | 27 | 14*14 | | | | | | M24X8 | 170 | φ70 | 4Xφ9 | 8.2 | 9.5 |
| 80 | 3" | 309 | 319 | 226 | 56 | 77.4 | 30 | 17*17 | | | | | | M24X8 | 180 | φ70 | 4Xφ9 | 10.5 | 13 |
| 100 | 4" | 360 | 365 | 247 | 70 | 101.8 | 30 | 17*17 | | | | | | M27X8 | 210 | φ70 | 4Xφ9 | 18.5 | 25 |
| 150 | 6" | 459 | 459 | 300 | 85 | 145.6 | 55 | 27*27 | | M30 | 2 | | | M30X12 | 290 | φ102 | 4Xφ11 | 35 | 53 |
| 200 | 8" | 582 | 582 | 354 | 107 | 188.7 | 60 | 27*27 | | M33 | 4 | | | M33X12 | 360 | φ102 | 4Xφ11 | 67 | 101 |
| 250 | 10" | 668 | 668 | 392 | 122 | 235.1 | 60 | 32*32 | | M36 | 4 | | | M36X12 | 430 | φ165 | 4Xφ21 | 120 | 175 |
| 300 | 12" | 770 | 770 | 465 | 140 | 285.7 | 60 | 32*32 | | M39 | 4 | | | M39X16 | 500 | φ165 | 4Xφ21 | 170 | 230 |
| 350 | 14" | 896 | 896 | 568 | 155 | 326.2 | 75 | 36*36 | | M45 | 4 | | | M45X16 | 560 | φ165 | 4Xφ21 | 231 | 327 |
| 400 | 16" | 1005 | 1005 | 631 | 178 | 377.3 | 90 | 46*46 | | M45 | 4 | | | M45X16 | 620 | φ165 | 4Xφ21 | 325 | 482 |
| 500 | 20" | 1254 | 1254 | 806 | 216 | 468.6 | 120 | 25 | 105 | M52 | 4 | | | M52X20 | 760 | φ254 | 8Xφ17 | 605 | 815 |
| 600 | 24" | 1493 | 1493 | 794 | 232 | 565.5 | 150 | 32 | 115 | M56 | 4 | | | M56X20 | 875 | φ298 | 8Xφ22 | 950 | 1285 |

NOTE:

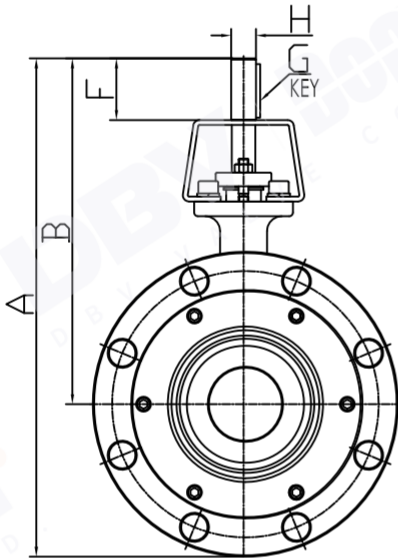
Drawings are for reference only. Please contact factory for separate drawing for each size at info@dbv-armaturen.com. DBV Valve reserves the right to change product dimensions without notice.

High Performance Butterfly Valve Dimensions

Double Flange

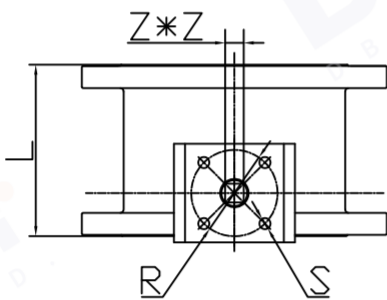
PN1. 6MP/PN2. 5MPa

Flanged Valves



| VALVE SIZE | | A | B | L | | F | Z x Z | | R mm | S mm | WEIGHT (Kg) | |
|------------|-----|------|-------|------|-------|-----|-------|------|---------|---------|-------------|-------|
| DN | ins | | | Long | Short | | H | G | | | Long | Short |
| 80 | 3" | 323 | 227 | 205 | 114 | 27 | 11*11 | φ70 | 4Xφ9 | 26 | 19 | |
| 100 | 4" | 373 | 259 | 229 | 127 | 27 | 14*14 | φ70 | 4Xφ9 | 34 | 25 | |
| 125 | 5" | 404 | 277 | 254 | 140 | 30 | 17*17 | φ70 | 4Xφ9 | 42 | 30 | |
| 150 | 6" | 431 | 291 | 267 | 140 | 32 | 17*17 | φ70 | 4Xφ9 | 49 | 34 | |
| 200 | 8" | 504 | 332 | 292 | 140 | 45 | 17*17 | φ70 | 4Xφ9 | 77 | 51 | |
| 250 | 10" | 551 | 348.2 | 300 | 165 | 50 | 22*22 | φ102 | 4Xφ11 | 102 | 78 | |
| 300 | 12" | 642 | 400 | 356 | 178 | 60 | 27*27 | φ140 | 4Xφ18 | 160 | 112 | |
| 350 | 14" | 738 | 462 | 381 | 191 | 60 | 27*27 | φ140 | 4Xφ18 | 198 | 141 | |
| 400 | 16" | 771 | 473 | 406 | 216 | 80 | 27*27 | φ165 | 4Xφ21 | 233 | 175 | |
| 450 | 18" | 906 | 589 | 432 | 223 | 90 | 36*36 | φ165 | 4Xφ21 | 272 | 213 | |
| 500 | 20" | 968 | 618 | 457 | 229 | 90 | 36*36 | φ165 | 4Xφ21 | 351 | 262 | |
| 600 | 24" | 1098 | 691 | 508 | 267 | 110 | 46*46 | φ165 | 4Xφ21 | 493 | 386 | |
| 700 | 28" | 1243 | 736 | | 292 | 110 | 46*46 | φ165 | 4Xφ21 | | 420 | |
| 750 | 30" | 1293 | 801 | 610 | 318 | 120 | 80 | 22 | φ165 | 4Xφ21 | 652 | 598 |
| 800 | 32" | 1368 | 820 | | 318 | 120 | 80 | 22 | φ165 | 4Xφ21 | | 660 |
| 900 | 36" | 1509 | 925 | 711 | 330 | 120 | 80 | 22 | φ254 | 8Xφ17 | 869 | 789 |

PN4. 0MPa



| VALVE SIZE | | A | B | L | | F | Z x Z | | R mm | S mm | WEIGHT (Kg) | |
|------------|-----|------|-----|------|-------|-----|-------|------|---------|---------|-------------|-------|
| DN | ins | | | Long | Short | | H | G | | | Long | Short |
| 80 | 3" | 332 | 228 | 202 | 114 | 27 | 11*11 | φ70 | 4Xφ9 | 30 | 21 | |
| 100 | 4" | 385 | 258 | 305 | 127 | 27 | 14*14 | φ70 | 4Xφ9 | 46 | 25 | |
| 125 | 5" | 418 | 277 | 381 | 140 | 30 | 17*17 | φ70 | 4Xφ9 | 59 | 42 | |
| 150 | 6" | 453 | 295 | 403 | 140 | 32 | 17*17 | φ70 | 4Xφ9 | 79 | 51 | |
| 200 | 8" | 520 | 330 | 419 | 152 | 50 | 22*22 | φ102 | 4Xφ11 | 109 | 83 | |
| 250 | 10" | 583 | 361 | 475 | 165 | 60 | 27*27 | φ102 | 4Xφ11 | 135 | 124 | |
| 300 | 12" | 694 | 433 | 502 | 178 | 70 | 27*27 | φ140 | 4Xφ18 | 211 | 173 | |
| 350 | 14" | 759 | 467 | 762 | 191 | 80 | 36*36 | φ165 | 4Xφ21 | 330 | 235 | |
| 400 | 16" | 910 | 586 | 838 | 216 | 80 | 36*36 | φ165 | 4Xφ21 | 423 | 329 | |
| 450 | 18" | 981 | 625 | 914 | 225 | 90 | 36*36 | φ165 | 4Xφ21 | 574 | 457 | |
| 500 | 20" | 1349 | 674 | 991 | 229 | 100 | 46*46 | φ165 | 4Xφ21 | 660 | 522 | |
| 600 | 24" | 1238 | 780 | 1143 | 265 | 120 | 80 | 22 | φ254 | 8Xφ17 | 862 | 808 |

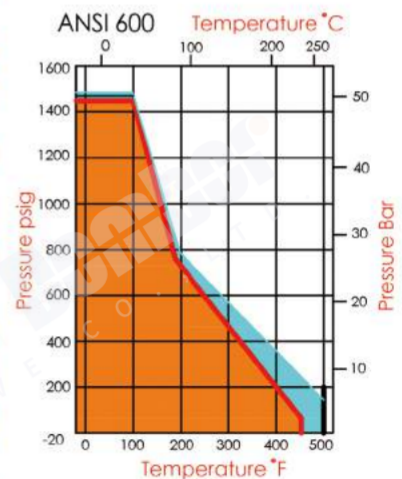
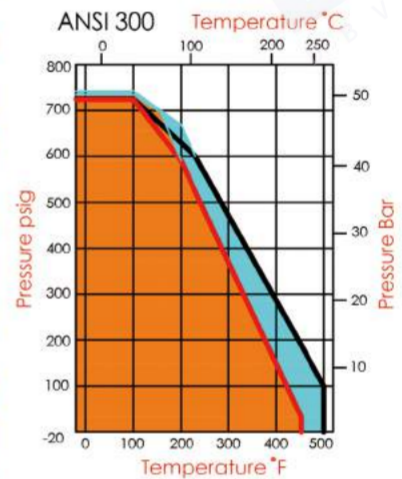
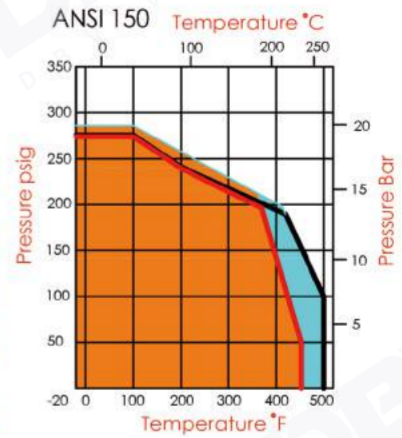
NOTE: Drawings are for reference only. Please contact factory for separate drawing for each size at info@dbv-armaturen.com. DBV Valve reserves the right to change product dimensions without notice.

Cv (Coefficient of Volume) is the number of U.S. gallons per minute of water required to pass through a valve with a pressure drop of 1 psi. The chart below records this Cv factor for the DBV Valve classes and sizes at ten degree increments between open and closed. The values shown are for the valve installed in the seat upstream ("SUS") position.

Recommended control angles are between 25°-70°, 60°-65° are preferred.

| VALVE SIZE | | Class | Disc Position (degrees) | | | | | | | | | |
|------------|-----|-------|-------------------------|------|-------|-------|-------|-------|-------|-------|--------|--------|
| mm | ins | | 10° | 20° | 30° | 40° | 50° | 60° | 70° | 80° | 90° | |
| 50 | 2" | 150 | 1.6 | 6 | 14 | 26 | 40 | 55 | 76 | 99 | 103 | |
| | | 300 | 1.5 | 6 | 13 | 25 | 37 | 51 | 70 | 95 | 99 | |
| | | 600 | 1.5 | 5 | 13 | 24 | 36 | 50 | 69 | 90 | 92 | |
| 65 | 2½" | 150 | 3 | 9 | 17 | 30 | 50 | 79 | 100 | 135 | 160 | |
| | | 300 | 3 | 9 | 17 | 29 | 48 | 79 | 100 | 135 | 160 | |
| | | 600 | 2.8 | 8 | 15 | 29 | 48 | 78 | 99 | 130 | 155 | |
| 80 | 3" | 150 | 4.7 | 14 | 32 | 56 | 87 | 124 | 156 | 178 | 185 | |
| | | 300 | 4.7 | 14 | 32 | 56 | 87 | 124 | 156 | 178 | 185 | |
| | | 600 | 3 | 8 | 12 | 46 | 67 | 103 | 135 | 158 | 165 | |
| 100 | 4" | 150 | 10 | 30 | 62 | 116 | 175 | 251 | 315 | 365 | 375 | |
| | | 300 | 10 | 30 | 62 | 116 | 175 | 251 | 315 | 365 | 375 | |
| | | 600 | 5 | 28 | 45 | 72 | 95 | 150 | 210 | 272 | 305 | |
| 125 | 5" | 150 | 16 | 42 | 79 | 145 | 238 | 365 | 502 | 678 | 795 | |
| | | 300 | 16 | 42 | 79 | 145 | 238 | 365 | 502 | 678 | 795 | |
| | | 600 | 15 | 42 | 79 | 145 | 238 | 365 | 502 | 678 | 795 | |
| 150 | 6" | 150 | 37 | 85 | 142 | 220 | 335 | 515 | 760 | 1080 | 1360 | |
| | | 300 | 27 | 80 | 138 | 225 | 360 | 520 | 720 | 880 | 1050 | |
| | | 600 | 16 | 72 | 132 | 205 | 280 | 435 | 620 | 780 | 870 | |
| 200 | 8" | 150 | 68 | 170 | 285 | 460 | 690 | 1070 | 1610 | 2250 | 2830 | |
| | | 300 | 48 | 123 | 242 | 410 | 640 | 930 | 1350 | 1720 | 2010 | |
| | | 600 | 21 | 79 | 212 | 350 | 490 | 760 | 1060 | 1350 | 1510 | |
| 250 | 10" | 150 | 105 | 255 | 460 | 710 | 1070 | 1650 | 2440 | 3470 | 4320 | |
| | | 300 | 63 | 153 | 300 | 515 | 785 | 1210 | 1750 | 2260 | 2660 | |
| | | 600 | 42 | 140 | 305 | 510 | 710 | 1100 | 1530 | 1960 | 2200 | |
| 300 | 12" | 150 | 160 | 395 | 710 | 1090 | 1640 | 2540 | 3760 | 5350 | 6660 | |
| | | 300 | 95 | 225 | 435 | 710 | 1100 | 1690 | 2510 | 3420 | 4000 | |
| | | 600 | 57 | 193 | 410 | 680 | 1010 | 1550 | 2170 | 2800 | 3100 | |
| 350 | 14" | 150 | 180 | 450 | 810 | 1250 | 1890 | 2910 | 4320 | 6100 | 7650 | |
| | | 300 | 102 | 243 | 495 | 835 | 1210 | 1780 | 2610 | 3500 | 4120 | |
| | | 600 | 70 | 202 | 425 | 735 | 1100 | 1570 | 2410 | 3300 | 3900 | |
| 400 | 16" | 150 | 235 | 580 | 1030 | 1550 | 2430 | 3710 | 5500 | 7870 | 9820 | |
| | | 300 | 180 | 420 | 730 | 1170 | 1840 | 2980 | 4560 | 6540 | 7810 | |
| | | 600 | 97 | 250 | 510 | 800 | 1210 | 1910 | 2900 | 4210 | 5020 | |
| 450 | 18" | 150 | 180 | 520 | 1190 | 2240 | 3530 | 5110 | 6980 | 9120 | 10520 | |
| | | 300 | 100 | 450 | 1080 | 1980 | 3100 | 4540 | 6180 | 8020 | 9500 | |
| | | 600 | 120 | 300 | 660 | 1210 | 1920 | 2800 | 3950 | 5100 | 6050 | |
| | 20" | 150 | 210 | 650 | 1540 | 2830 | 4510 | 6500 | 8800 | 11700 | 13550 | |
| | | 300 | 115 | 540 | 1250 | 2340 | 3730 | 5400 | 7310 | 9580 | 11000 | |
| | | 600 | 140 | 410 | 940 | 1700 | 2700 | 3920 | 5300 | 6950 | 8050 | |
| | 24" | 150 | 245 | 930 | 2210 | 3890 | 6650 | 9570 | 12800 | 17500 | 20000 | |
| | | 300 | 185 | 830 | 2010 | 3700 | 5930 | 8570 | 11400 | 15100 | 18050 | |
| | | 600 | 180 | 510 | 1210 | 2260 | 3600 | 5200 | 7000 | 9310 | 11000 | |
| | 26" | 150 | 260 | 950 | 2230 | 3900 | 6750 | 9600 | 12900 | 17300 | 24000 | |
| | | 300 | 290 | 1300 | 3120 | 5800 | 9350 | 13600 | 18300 | 24000 | 28100 | |
| | | 600 | 150 | 320 | 1520 | 3600 | 6750 | 10700 | 15600 | 21000 | 27400 | 32200 |
| | 30" | 150 | 320 | 1520 | 3600 | 6750 | 10700 | 15600 | 21000 | 27400 | 32200 | |
| | | 300 | 285 | 1320 | 3210 | 6010 | 8500 | 13710 | 18900 | 24400 | 28500 | |
| | | 600 | 150 | 340 | 1620 | 3840 | 6160 | 11400 | 16500 | 22300 | 29200 | 34100 |
| | 34" | 150 | 380 | 2050 | 4900 | 8250 | 14500 | 19700 | 25300 | 32000 | 37500 | |
| | | 300 | 150 | 470 | 2650 | 5440 | 10200 | 16420 | 23200 | 31800 | 41100 | 48600 |
| | | 600 | 370 | 1710 | 4650 | 9100 | 14800 | 21200 | 29300 | 38000 | 45200 | |
| | 40" | 150 | 660 | 3510 | 8600 | 15200 | 23800 | 33200 | 43900 | 55300 | 62100 | |
| | | 300 | 150 | 710 | 3710 | 9020 | 16000 | 25000 | 35100 | 46200 | 58100 | 65000 |
| | | 600 | 460 | 2650 | 7520 | 13000 | 19000 | 30100 | 42200 | 54100 | 60000 | |
| | 48" | 150 | 920 | 4600 | 10050 | 20000 | 29000 | 43600 | 63800 | 81000 | 91100 | |
| | | 300 | 800 | 4450 | 10000 | 17000 | 26000 | 41000 | 58100 | 74000 | 83100 | |
| | | 600 | 150 | 1250 | 6000 | 15000 | 27500 | 40100 | 60200 | 87600 | 111000 | 125500 |

PRESSURE/TEMPERATURE



- Carbon steel bodies RPTFE Seats
- Stainless steel bodies RPTFE Seats
- Carbon steel bodies PTFE Seats
- Stainless steel bodies PTFE Seats

Seating & Unseating Torques-Class 150

ASME 150 - Torques (N-m) SOFT SEAT

| Valve Size | | Less than 10.3 Bar | | >10.3-14 Bar | | >14-17.2 Bar | | >17.2-20 Bar | |
|------------|--------|------------------------|------------|--------------|------------|--------------|------------|--------------|------------|
| | | Upstream | Downstream | Upstream | Downstream | Upstream | Downstream | Upstream | Downstream |
| DN50 | 2" | 17 | 25 | 19 | 29 | 22 | 34 | 22 | 36 |
| DN65 | 2 1/2" | 21 | 25 | 23 | 29 | 26 | 34 | 26 | 36 |
| DN80 | 3" | 23 | 27 | 26 | 31 | 27 | 36 | 28 | 38 |
| DN100 | 4" | 32 | 38 | 35 | 44 | 37 | 49 | 37 | 54 |
| DN125 | 5" | 65 | 75 | 75 | 92 | 83 | 108 | 85 | 120 |
| DN150 | 6" | 85 | 99 | 94 | 115 | 100 | 131 | 102 | 143 |
| DN200 | 8" | 170 | 195 | 183 | 217 | 195 | 245 | 202 | 262 |
| DN250 | 10" | 310 | 355 | 450 | 412 | 358 | 464 | 363 | 502 |
| DN300 | 12" | 520 | 587 | 576 | 689 | 621 | 791 | 638 | 859 |
| DN350 | 14" | 690 | 792 | 749 | 916 | 803 | 1041 | 831 | 1154 |
| DN400 | 16" | 985 | 1143 | 1137 | 1392 | 1256 | 1641 | 1302 | 1810 |
| DN450 | 18" | 1530 | 1767 | 1722 | 2106 | 1880 | 2445 | 1925 | 2671 |
| DN500 | 20" | 1925 | 2230 | 2128 | 2603 | 2287 | 2987 | 2332 | 3247 |
| DN600 | 24" | 3115 | 3607 | 3458 | 4240 | 3720 | 4861 | 3810 | 5302 |
| DN650 | 26" | 3225 | 3717 | 3568 | 4350 | 3830 | 4971 | 3920 | 5412 |
| DN700 | 28" | 3988 | 4683 | 4299 | 5361 | 5056 | 6740 | 5079 | 7226 |
| DN750 | 30" | 4556 | 5353 | 4896 | 6110 | 5782 | 7692 | 5975 | 8499 |
| DN800 | 32" | 5128 | 6032 | 5557 | 6936 | 6552 | 8721 | 6687 | 9535 |
| DN850 | 34" | 5128 | 6032 | 5557 | 6936 | 6552 | 8721 | 6687 | 9535 |
| DN900 | 36" | 6152 | 7323 | 7372 | 9203 | 8356 | 11124 | 8751 | 12480 |
| DN1,000 | 40" | 7026 | 8269 | 8337 | 10416 | 9343 | 12450 | 9591 | 13693 |
| DN1,050 | 42" | 8073 | 9429 | 9542 | 11915 | 10813 | 14401 | 11463 | 16209 |
| DN1,200 | 48" | 11184 | 13105 | 13851 | 17286 | 16213 | 21580 | 17275 | 24631 |
| DN1,350 | 54" | 15418 | 18130 | 19215 | 24006 | 22424 | 29995 | 23938 | 34176 |
| DN1,500 | 60" | Please Consult Factory | | | | | | | |

ASME 150 - Torques (N-m) FIRE SAFE SEAT

| Valve Size | | Less than 10.3 Bar | | >10.3-14 Bar | | >14-17.2 Bar | | >17.2-20 Bar | |
|------------|--------|------------------------|------------|--------------|------------|--------------|------------|--------------|------------|
| | | Upstream | Downstream | Upstream | Downstream | Upstream | Downstream | Upstream | Downstream |
| DN50 | 2" | 79 | 83 | 80 | 89 | 81 | 94 | 82 | 97 |
| DN65 | 2 1/2" | 79 | 83 | 80 | 89 | 81 | 94 | 82 | 97 |
| DN80 | 3" | 88 | 93 | 89 | 97 | 90 | 101 | 91 | 105 |
| DN100 | 4" | 99 | 105 | 102 | 114 | 104 | 122 | 106 | 127 |
| DN125 | 5" | 165 | 175 | 171 | 189 | 175 | 203 | 186 | 214 |
| DN150 | 6" | 194 | 204 | 197 | 218 | 209 | 232 | 221 | 243 |
| DN200 | 8" | 301 | 323 | 311 | 340 | 318 | 357 | 330 | 369 |
| DN250 | 10" | 449 | 483 | 471 | 520 | 488 | 557 | 505 | 584 |
| DN300 | 12" | 744 | 789 | 755 | 840 | 766 | 889 | 789 | 924 |
| DN350 | 14" | 1391 | 1470 | 1425 | 1583 | 1493 | 1753 | 1538 | 1922 |
| DN400 | 16" | 1721 | 1811 | 1788 | 1992 | 1845 | 2173 | 1847 | 2308 |
| DN450 | 18" | 2315 | 2158 | 2147 | 2384 | 2158 | 2554 | 2181 | 2723 |
| DN500 | 20" | 2475 | 2611 | 2555 | 2837 | 2701 | 3176 | 3266 | 4080 |
| DN600 | 24" | 3516 | 3742 | 3878 | 4307 | 4239 | 4985 | 5708 | 7132 |
| DN650 | 26" | Please Consult Factory | | | | | | | |
| DN700 | 28" | Please Consult Factory | | | | | | | |
| DN750 | 30" | Please Consult Factory | | | | | | | |
| DN800 | 32" | Please Consult Factory | | | | | | | |
| DN850 | 34" | Please Consult Factory | | | | | | | |
| DN900 | 36" | Please Consult Factory | | | | | | | |
| DN1,000 | 40" | Please Consult Factory | | | | | | | |

ASME 150 - Torques (N-m) METAL SEAT

| Valve Size | | Less than 10.3 Bar | | >10.3-14 Bar | | >14-17.2 Bar | | >17.2-20 Bar | |
|------------|--------|------------------------|------------|--------------|------------|--------------|------------|--------------|------------|
| | | Upstream | Downstream | Upstream | Downstream | Upstream | Downstream | Upstream | Downstream |
| DN50 | 2" | 27 | 35 | 29 | 39 | 32 | 44 | 33 | 46 |
| DN65 | 2 1/2" | 32 | 36 | 34 | 40 | 37 | 45 | 38 | 47 |
| DN80 | 3" | 35 | 39 | 38 | 43 | 39 | 48 | 40 | 50 |
| DN100 | 4" | 45 | 51 | 48 | 57 | 50 | 62 | 50 | 67 |
| DN125 | 5" | 70 | 80 | 80 | 97 | 88 | 113 | 90 | 125 |
| DN150 | 6" | 99 | 113 | 108 | 129 | 114 | 145 | 116 | 157 |
| DN200 | 8" | 185 | 210 | 198 | 232 | 210 | 260 | 217 | 277 |
| DN250 | 10" | 326 | 371 | 466 | 428 | 374 | 480 | 379 | 518 |
| DN300 | 12" | 537 | 604 | 593 | 706 | 638 | 808 | 655 | 876 |
| DN350 | 14" | 708 | 810 | 767 | 934 | 821 | 1059 | 849 | 1172 |
| DN400 | 16" | 1004 | 1162 | 1156 | 1411 | 1275 | 1660 | 1321 | 1829 |
| DN450 | 18" | 1550 | 1787 | 1742 | 2126 | 1900 | 2465 | 1945 | 2691 |
| DN500 | 20" | 1946 | 2251 | 2149 | 2624 | 2308 | 3008 | 2353 | 3268 |
| DN600 | 24" | 3137 | 3629 | 3480 | 4262 | 3742 | 4883 | 3832 | 5324 |
| DN650 | 26" | Please Consult Factory | | | | | | | |
| DN700 | 28" | Please Consult Factory | | | | | | | |
| DN750 | 30" | Please Consult Factory | | | | | | | |
| DN800 | 32" | Please Consult Factory | | | | | | | |
| DN850 | 34" | Please Consult Factory | | | | | | | |
| DN900 | 36" | Please Consult Factory | | | | | | | |
| DN1,000 | 40" | Please Consult Factory | | | | | | | |

Seating & Unseating Torques-Class 300

ASME300 - Torques (N-m) **SOFT SEAT**

| Valve Size | | Less than 10.3 Bar | | >10.3-24 Bar | | >24-38 Bar | | >38-51 Bar | |
|------------|--------|------------------------|------------|--------------|------------|------------|------------|------------|------------|
| | | Upstream | Downstream | Upstream | Downstream | Upstream | Downstream | Upstream | Downstream |
| DN50 | 2" | 20 | 24 | 34 | 42 | 44 | 59 | 54 | 77 |
| DN65 | 2 1/2" | 21 | 25 | 35 | 43 | 45 | 60 | 55 | 78 |
| DN80 | 3" | 24 | 28 | 38 | 46 | 48 | 63 | 58 | 81 |
| DN100 | 4" | 35 | 40 | 51 | 64 | 66 | 86 | 83 | 117 |
| DN125 | 5" | 67 | 78 | 118 | 146 | 162 | 214 | 208 | 293 |
| DN150 | 6" | 102 | 119 | 155 | 192 | 200 | 266 | 243 | 345 |
| DN200 | 8" | 186 | 216 | 287 | 357 | 372 | 493 | 425 | 606 |
| DN250 | 10" | 324 | 381 | 505 | 630 | 652 | 867 | 799 | 1138 |
| DN300 | 12" | 489 | 574 | 759 | 947 | 984 | 1309 | 1196 | 1704 |
| DN350 | 14" | 835 | 982 | 1221 | 1524 | 1558 | 2078 | 1750 | 2496 |
| DN400 | 16" | 1356 | 1593 | 1955 | 2441 | 2474 | 3288 | 3017 | 4305 |
| DN450 | 18" | 1741 | 2046 | 2423 | 3063 | 3074 | 4091 | 3572 | 5097 |
| DN500 | 20" | 2318 | 2725 | 3335 | 4160 | 4194 | 5584 | 4838 | 6906 |
| DN600 | 24" | 3664 | 4308 | 5167 | 6455 | 6512 | 8681 | 7529 | 10749 |
| DN750 | 30" | 7699 | 9055 | 11496 | 14366 | 14592 | 19451 | 16626 | 23745 |
| DN900 | 36" | 11446 | 13463 | 16288 | 20356 | 20356 | 27136 | 22955 | 32786 |
| DN1,000 | 40" | 13080 | 15385 | 19001 | 23747 | 25103 | 33465 | 31499 | 44991 |
| DN1,200 | 48" | 14426 | 16968 | 24607 | 30754 | 36291 | 48382 | 45580 | 65106 |
| DN1,350 | 54" | Please Consult Factory | | | | | | | |

ASME 300 - Torques (N-m) **FIRE SAFE SEAT**

| Valve Size | | Less than 10.3 Bar | | >10.3-24 Bar | | >24-38 Bar | | >38-51 Bar | |
|------------|--------|------------------------|------------|--------------|------------|------------|------------|------------|------------|
| | | Upstream | Downstream | Upstream | Downstream | Upstream | Downstream | Upstream | Downstream |
| DN50 | 2" | 78 | 82 | 89 | 98 | 98 | 115 | 100 | 125 |
| DN65 | 2 1/2" | 79 | 83 | 90 | 99 | 99 | 116 | 101 | 126 |
| DN80 | 3" | 88 | 93 | 100 | 110 | 109 | 127 | 111 | 139 |
| DN100 | 4" | 100 | 106 | 126 | 140 | 148 | 174 | 158 | 196 |
| DN125 | 5" | 165 | 175 | 239 | 265 | 303 | 355 | 330 | 412 |
| DN150 | 6" | 232 | 243 | 301 | 334 | 362 | 424 | 395 | 492 |
| DN200 | 8" | 346 | 363 | 444 | 493 | 535 | 629 | 567 | 708 |
| DN250 | 10" | 788 | 833 | 1045 | 1161 | 1257 | 1477 | 1364 | 1703 |
| DN300 | 12" | 1190 | 1252 | 1501 | 1670 | 1776 | 2088 | 1907 | 2382 |
| DN350 | 14" | 2050 | 2157 | 2451 | 2722 | 2507 | 2948 | 2541 | 3174 |
| DN400 | 16" | 3017 | 3175 | 3876 | 4305 | 4237 | 4983 | 4441 | 5548 |
| DN450 | 18" | Please Consult Factory | | | | | | | |
| DN500 | 20" | Please Consult Factory | | | | | | | |
| DN600 | 24" | Please Consult Factory | | | | | | | |

ASME 300 - Torques (N-m) **METAL SEAT**

| Valve Size | | Less than 10.3 Bar | | >10.3-24 Bar | | >24-38 Bar | | >38-51 Bar | |
|------------|--------|------------------------|------------|--------------|------------|------------|------------|------------|------------|
| | | Upstream | Downstream | Upstream | Downstream | Upstream | Downstream | Upstream | Downstream |
| DN50 | 2" | 30 | 34 | 44 | 52 | 54 | 69 | 64 | 87 |
| DN65 | 2 1/2" | 32 | 36 | 46 | 54 | 56 | 71 | 66 | 89 |
| DN80 | 3" | 36 | 40 | 50 | 58 | 60 | 75 | 70 | 93 |
| DN100 | 4" | 48 | 53 | 64 | 77 | 79 | 99 | 96 | 130 |
| DN125 | 5" | 72 | 83 | 123 | 151 | 167 | 219 | 213 | 298 |
| DN150 | 6" | 116 | 133 | 169 | 206 | 214 | 280 | 257 | 359 |
| DN200 | 8" | 201 | 231 | 302 | 372 | 387 | 508 | 440 | 621 |
| DN250 | 10" | 340 | 397 | 521 | 646 | 668 | 883 | 815 | 1154 |
| DN300 | 12" | 506 | 591 | 776 | 964 | 1001 | 1326 | 1213 | 1721 |
| DN350 | 14" | 853 | 1000 | 1239 | 1542 | 1576 | 2096 | 1768 | 2514 |
| DN400 | 16" | 1375 | 1612 | 1974 | 2460 | 2493 | 3307 | 3036 | 4324 |
| DN450 | 18" | Please Consult Factory | | | | | | | |
| DN500 | 20" | Please Consult Factory | | | | | | | |
| DN600 | 24" | Please Consult Factory | | | | | | | |

Seating & Unseating Torques-Class 600

ASME 600 - Torques (N-m) **SOFT SEAT**

| Valve Size | | Less than 10.3 Bar | | >10.3-41.4 Bar | | >41.4-72.4 Bar | | >72.4-102 Bar | |
|------------|--------|--------------------|------------|----------------|------------|----------------|------------|---------------|------------|
| | | Upstream | Downstream | Upstream | Downstream | Upstream | Downstream | Upstream | Downstream |
| DN50 | 2" | 46 | 55 | 80 | 99 | 103 | 137 | 114 | 165 |
| DN65 | 2 1/2" | 47 | 56 | 81 | 100 | 104 | 138 | 115 | 166 |
| DN80 | 3" | 48 | 57 | 82 | 101 | 105 | 139 | 116 | 167 |
| DN100 | 4" | 100 | 112 | 149 | 185 | 183 | 241 | 219 | 309 |
| DN125 | 5" | 169 | 197 | 294 | 367 | 395 | 525 | 468 | 660 |
| DN150 | 6" | 402 | 469 | 657 | 820 | 865 | 1147 | 1113 | 1588 |
| DN200 | 8" | 809 | 945 | 1092 | 1363 | 1533 | 2041 | 1905 | 2719 |
| DN250 | 10" | 1149 | 1341 | 1274 | 1590 | 2212 | 2946 | 2381 | 3398 |
| DN300 | 12" | 1354 | 1591 | 2179 | 2721 | 2811 | 3738 | 3399 | 4868 |
| DN350 | 14" | 1592 | 1875 | 3219 | 4022 | 3909 | 5208 | 5152 | 7355 |
| DN400 | 16" | 1842 | 2158 | 3898 | 4870 | 5548 | 7356 | 7288 | 10407 |
| DN450 | 18" | 2419 | 2837 | 5165 | 6453 | 7470 | 9956 | 9843 | 14024 |
| DN500 | 20" | 3742 | 4420 | 8036 | 10070 | 10635 | 14138 | 13912 | 19788 |
| DN600 | 24" | 8037 | 9393 | 15495 | 19450 | 20354 | 27134 | 24535 | 35044 |
| DN750 | 30" | 7699 | 9055 | 11496 | 14366 | 14592 | 19451 | 16626 | 23745 |

ASME 600 - Torques (N-m) **FIRE SAFE SEAT**

| Valve Size | | Less than 10.3 Bar | | >10.3-24 Bar | | >24-38 Bar | | >38-51 Bar | |
|------------|--------|------------------------|------------|--------------|------------|------------|------------|------------|------------|
| | | Upstream | Downstream | Upstream | Downstream | Upstream | Downstream | Upstream | Downstream |
| DN50 | 2" | Please Consult Factory | | | | | | | |
| DN65 | 2 1/2" | Please Consult Factory | | | | | | | |
| DN80 | 3" | Please Consult Factory | | | | | | | |
| DN100 | 4" | Please Consult Factory | | | | | | | |
| DN125 | 5" | Please Consult Factory | | | | | | | |
| DN150 | 6" | Please Consult Factory | | | | | | | |
| DN200 | 8" | Please Consult Factory | | | | | | | |
| DN250 | 10" | Please Consult Factory | | | | | | | |
| DN300 | 12" | Please Consult Factory | | | | | | | |
| DN350 | 14" | Please Consult Factory | | | | | | | |

ASME 600 - Torques (N-m) **METAL SEAT**

| Valve Size | | Less than 10.3 Bar | | >10.3-24 Bar | | >24-38 Bar | | >38-51 Bar | |
|------------|--------|------------------------|------------|--------------|------------|------------|------------|------------|------------|
| | | Upstream | Downstream | Upstream | Downstream | Upstream | Downstream | Upstream | Downstream |
| DN50 | 2" | Please Consult Factory | | | | | | | |
| DN65 | 2 1/2" | Please Consult Factory | | | | | | | |
| DN80 | 3" | Please Consult Factory | | | | | | | |
| DN100 | 4" | Please Consult Factory | | | | | | | |
| DN125 | 5" | Please Consult Factory | | | | | | | |
| DN150 | 6" | Please Consult Factory | | | | | | | |
| DN200 | 8" | Please Consult Factory | | | | | | | |
| DN250 | 10" | Please Consult Factory | | | | | | | |
| DN300 | 12" | Please Consult Factory | | | | | | | |
| DN350 | 14" | Please Consult Factory | | | | | | | |

Note:

1. x1.3 safety factor is recommended.

2. Seating & Unseating Torques:

Valve orientation to the flow of media affects the torque. Torque values are presented in two categories (SUS / SDS).

3. Torques shown are for on/off applications and include sizing margins appropriate to normal liquid and gas applications. For severe services, or unusual fluids or slurries, consult factory.

Aximum Allowable Shaft Torques (N-m)

| Valve Size | | ASME 150 | ASME 300 | ASME 600 |
|------------|--------|-----------------|-----------------|-----------------|
| DN50 | 2" | 201 | 201 | NA |
| DN65 | 2 1/2" | 201 | 201 | 337 |
| DN80 | 3" | 201 | 201 | 337 |
| DN100 | 4" | 201 | 201 | 576 |
| DN125 | 5" | 337 | 337 | Consult Factory |
| DN150 | 6" | 337 | 576 | 1,481 |
| DN200 | 8" | 576 | 1481 | 2,574 |
| DN250 | 10" | 1,481 | 2574 | 8,213 |
| DN300 | 12" | 1,481 | 2574 | 8,213 |
| DN350 | 14" | 2,574 | 8,213 | 16,112 |
| DN400 | 16" | 8,213 | 16,112 | 27,829 |
| DN450 | 18" | 8,213 | 16,112 | 47,813 |
| DN500 | 20" | 16,112 | 22,901 | 70,649 |
| DN600 | 24" | 22,901 | 47,813 | 119,711 |
| DN650 | 26" | 22,901 | Consult Factory | |
| DN700 | 28" | 27,829 | Consult Factory | |
| DN750 | 30" | 47,813 | 95,010 | Consult Factory |
| DN800 | 32" | 47,813 | Consult Factory | NA |
| DN850 | 34" | 47,813 | Consult Factory | NA |
| DN900 | 36" | 47,813 | 119,711 | NA |
| DN1,000 | 40" | 95,010 | 218,012 | NA |
| DN1,050 | 42" | 95,010 | 218,012 | NA |
| DN1,200 | 48" | 119,711 | 246,931 | NA |
| DN1,350 | 54" | 140,422 | 367,737 | NA |
| DN1,500 | 60" | Consult Factory | NA | NA |

Based on shaft Material 17-4 PH stainless steel, ASTM A564 Type 630.

Installation Instructions

PRE – INSTALLATION PROCEDURE

1. Remove the protective face covers from the valve.
2. Inspect the valve to be certain the waterway is free from dirt and foreign matter. Be certain the adjoining pipeline is free from any foreign material such as rust and pipe scale or welding slag that could damage the seat and disc sealing surfaces.
3. Actuators should be mounted on the valve prior to installation to facilitate proper alignment of the disc in the valve seat.
4. **The valve should be in the closed position.** Make sure the open and closed positions of the actuator correspond to the counter-clockwise to open direction of rotation of the valve.
5. Cycle the valve to the fully open position, then back to the fully closed position, checking the actuator travel stop settings for proper disc alignment.
6. Check the valve identification tag for valve class, materials, and operating pressure to be sure they are correct for the application.
WARNING: Injury or property damage may result if the valve is installed where service conditions could exceed the valve ratings.
7. Check the flange bolts or studs on both sides of the valve for proper size, threading, and length.

VALVE INSTALLATION PROCEDURE

The DBV High Performance Butterfly Valve can be installed in the pipeline with the shaft in the vertical, horizontal, or other intermediate position. Based on applications experience, however, in media with concentrations of solid or abrasive particles or media subject to solidification buildup, valve performance and service life will be enhanced by mounting the valve with the shaft in the horizontal position.

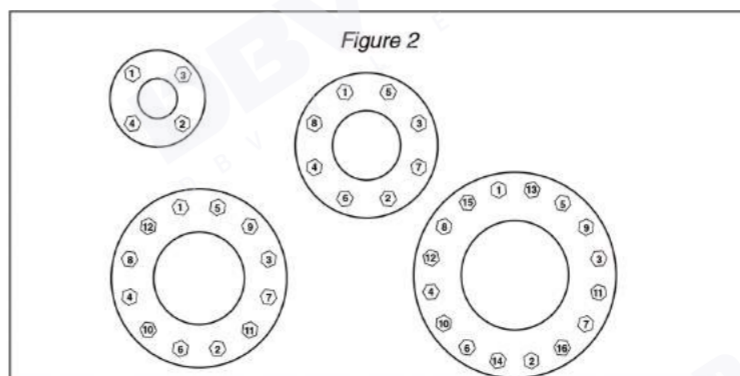
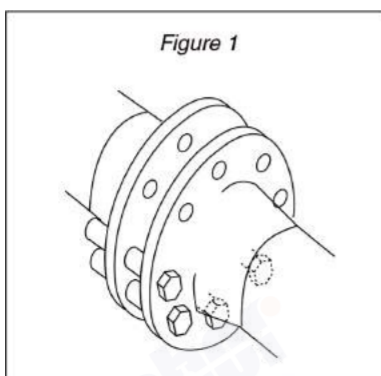
All DBV valves are bi-directional (in some instances, modifications may be required to operate this arrangement for dead end service) and can be mounted in the pipeline in either flow direction; however, the preferred flow direction for all seat styles and materials is with the seat retainer ring located upstream (sus) to provide maximum seat protection.

1. For Wafer style (flangeless) valves:
 - a. Loosely install the lower flange bolts to form a cradle between the flanges. See Figure 1.
 - b. Note the flow direction arrow on the tag, place the valve and flange gaskets between the flanges, making sure the arrow on the tag points in the direction of the flow.
 - c. Install the remaining flange bolts, shifting the valve as necessary to permit the bolts to pass by or through the valve body.
 2. For Lug style (single flange) valves:
 - a. Note the flow direction arrow on the tag, place the valve between the flanges, making sure the arrow on the tag points in the direction of the flow.
 - b. Install the lower flange bolts loosely, leaving space for the flange gaskets.
 - c. After inserting the flange gaskets, install the remaining bolts.
3. Using the sequence shown in Figure 2, tighten the flange bolts evenly to assure uniform gasket compression.

Caution: The DBV valve should be centered between the flanges and gaskets to prevent damage to the disc edge and shaft as a result of the disc striking the flange, gasket, or pipe.

4. If an actuator is to be used, air hoses or electricity should be connected to the unit as specified by the actuator manufacturer.
5. The valve is now ready for operation.

Remember: Install the valve with the disc in the fullclosed position! For more assistance, please feel free to contact DBV Valve.





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