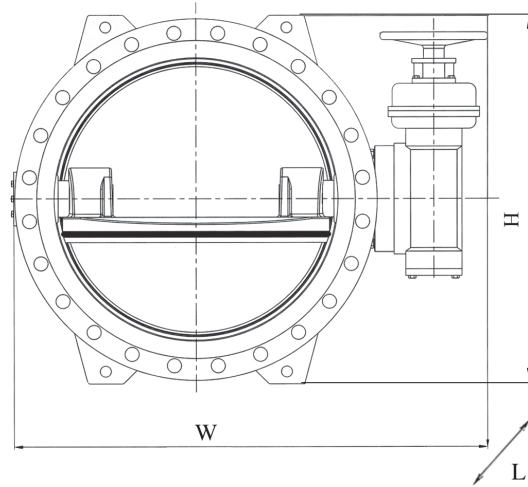


Description: Our Double Eccentric Butterfly Valve, a preferred choice in water networks, boasts a two-axis shifted disc design. This innovative feature significantly reduces operation torque values and friction on the disc sealing area, ensuring efficient performance and extended service life. Crafted from durable, corrosion-resistant stainless steel, the valve also incorporates a WRAS-approved, electrostatic fusion-bonded epoxy finish for added longevity.



Application:

Butterfly Valves are used for isolation purposes and provide drip tight sealing once they are closed. When open, the disc rotates to horizontal position, thereby allowing free flow. Butterfly Valves are not suitable for regulation purposes.

Features:

- **Corrosion-Resistant Design:** The closed-end disc design and shaft sealing system ensure a corrosion-free operation.
- **Efficiency:** High Kv values and low head loss are achieved through our CFD-perfected disc design.
- **Customizable Actuators:** Actuators are available upon request for customization.
- **Optimal Operation:** The double eccentric design and robust worm gearbox ensure low operating torque values.
- **Installation Flexibility:** Suitable for both above and underground installations with accessories such as handwheels, fixed or telescopic extension spindles, and surface boxes.
- **Convenient Maintenance:** An optional disc locking mechanism is available, facilitating gearbox replacement under pressure.



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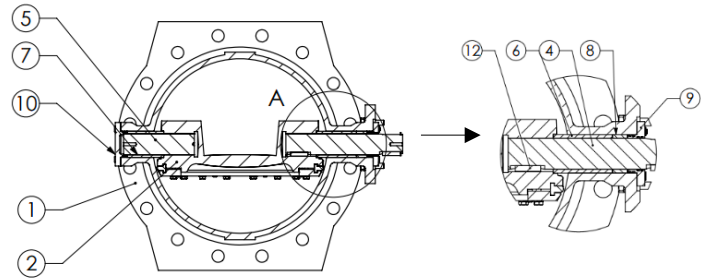
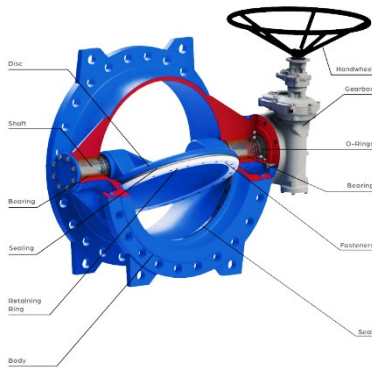
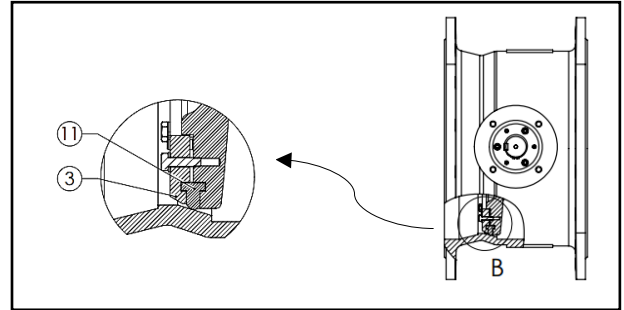
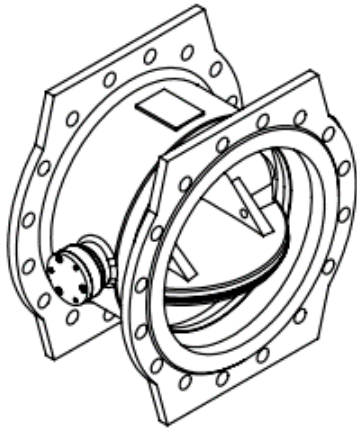
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Construction



Material Specification

| Parts | Main Materials | Optional Materials |
|----------------|----------------|---------------------------------|
| Body | Ductile Iron | Carbon Steel |
| Disc | | Stainless Steel |
| Gearbox | | Nickel Aluminum Bronze |
| Shaft | X20Cr13 | Monel Duplex Stainless Steel |
| Bearings | Bronze | Brass, SS 304, SS 316, NAB |
| Bushes | Teflon | PTFE |
| Retaining Ring | SS304 | SS 316, St 37 |
| Seals | EPDM | NBR |
| Fasteners | SS 304 | SS 316 |

PART NO. PART

| | |
|----|---------------------|
| 1 | Body |
| 2 | Disc |
| 3 | Disc Retaining Ring |
| 4 | Front Shaft |
| 5 | Rear Shaft |
| 6 | Front Bearing |
| 7 | Rear Bearing |
| 8 | Middle Bearing |
| 9 | Front Cover |
| 10 | Rear Cover |
| 11 | Seal Ring |
| 12 | Key |



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Benefits of Butterfly Valves

- **Efficient Flow Control:** Butterfly valves offer precise regulation of flow, enhancing overall system performance.
- **Durability:** These valves are designed to withstand rigorous operational conditions, offering long service life.
- **Customizable:** Their design can be altered to meet the specific needs of various applications.
- **Safety:** With appropriate usage following safety instructions, these valves ensure safe and secure operations.

Pre-Installation:

1. **Assessment:** Prior to installation, assess the pipeline conditions and valve compatibility with the fluid type, operating pressure and temperature.
2. **Manual Review:** Review the installation manual for specific guidelines and safety instructions.
3. **Site Preparation:** Prepare the installation site, ensuring sufficient space for valve operation and maintenance.

Operating Principles:

Butterfly valves operate through a disc that is pivotally mounted in the valve body. When the actuating mechanism (either a handwheel or an actuator) is operated, the disc rotates around its axis, allowing or restricting fluid flow.

1. **Open State:** The disc is rotated so that it allows fluid to pass through.
2. **Closed State:** The disc is rotated to block the flow of fluid completely.

Installation:

1. **Positioning:** The valve should be positioned such that it aligns with the pipeline's direction.
2. **Securing:** Once positioned, the valve should be securely fastened to the pipeline using the appropriate fittings.
3. **Testing:** After installation, perform a test to ensure the valve operates correctly, adjusting as necessary.
4. **Safety Precautions:** Ensure all safety precautions are adhered to during the installation process to prevent accidents.



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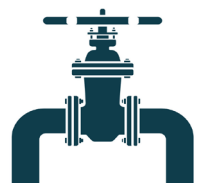
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Double Eccentricity Principle

Our Butterfly Valves boast a double eccentric design. Two points of eccentricity ensure the disc's precise positioning within the valve body. The first eccentricity shifts the disc sealing axis from the disc/shaft rotation axis, guaranteeing a perfect match between the body sealing surface and disc sealing gasket for a leak-proof seal. The second eccentricity relocates the disc axis away from the body axis, allowing the sealing gasket to detach from the body surface even with minimal rotation. This results in minimal friction during valve opening and closing, averting gasket deformation and yielding low operating torque values.

Weld Overlay Process

The valve's stainless steel sealing surface is integrated into the body through a weld overlay process, conducted by a specialized automated welding robot. The surface is polished for a seamless finish and undergoes penetration testing for quality assurance. This process amplifies the seat's wear resistance, ensuring the sealing material remains intact within the body, and boosts corrosion resistance by eliminating uncoated threads on the body.

Shaft and Disc Mechanics

Our Butterfly Valves employ a divided two-piece shaft system to guide the disc. One shaft transfers the rotational force from the gearbox to the disc, facilitating valve opening and closing when the gearbox operates. The second shaft guides the disc towards the valve body, with bronze bearings on the body reducing friction. These Butterfly Valves feature a closed-end disc design, and the shaft bearing system is shielded from the medium by o-rings, leading to enhanced corrosion resistance and durability.

Notes:

1. Different flange drillings are available, including ISO, EN, ANSI, and others.
2. The standard operating temperature range is -10°C to +80°C.
3. All RAL Colors are available.
4. Potable water certified coating is available.
5. Both thermoset and thermoplastic coatings are available.



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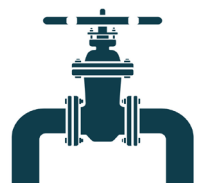
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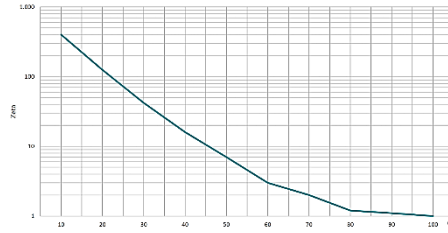
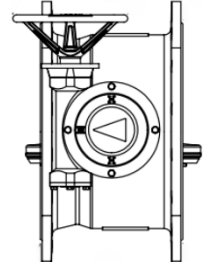
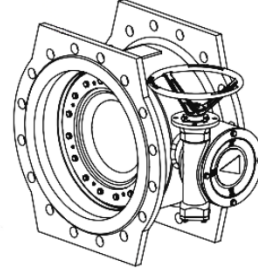
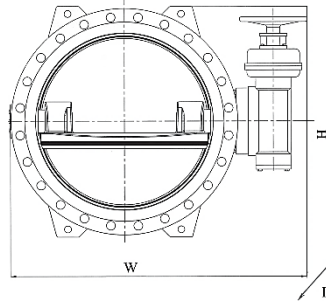


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DIMENSIONS (mm)

| DN | Length | Width | | Height | | Weight (kg) | | | |
|------|--------|---------|---------|---------|---------|-------------|------|------|------|
| | | PN10/16 | PN25/40 | PN10/16 | PN25/40 | PN10 | PN16 | PN25 | PN40 |
| 100 | 190 | 430 | 438 | 322 | 330 | 30 | 30 | 32 | 32 |
| 125 | 200 | 456 | 495 | 337 | 347 | 32 | 33 | - | - |
| 150 | 210 | 495 | 529 | 355 | 362 | 38 | 38 | 49 | 49 |
| 200 | 230 | 416 | 606 | 354 | 392 | 54 | 54 | 65 | 75 |
| 250 | 250 | 549 | 811 | 420 | 494 | 74 | 74 | 128 | 128 |
| 300 | 270 | 606 | 839 | 477,4 | 625 | 112 | 115 | 130 | 155 |
| 350 | 290 | 671 | 926 | 537 | 660 | 132 | 132 | - | - |
| 400 | 310 | 742 | 1005 | 598 | 740 | 191 | 167 | 230 | 305 |
| 450 | 330 | 797 | 1067 | 664 | 765 | 228 | 228 | - | - |
| 500 | 350 | 845 | 1130 | 705 | 859 | 258 | 258 | 405 | 408 |
| 600 | 390 | 984 | 1253 | 867 | 917 | 389 | 389 | 550 | 679 |
| 700 | 430 | 1110 | 1382 | 944 | 1009 | 500 | 570 | - | - |
| 800 | 470 | 1252 | 1522 | 1071 | 1072 | 710 | 725 | 1010 | - |
| 900 | 510 | 1386 | 1772 | 1173 | 1228 | 926 | 945 | 1378 | - |
| 1000 | 550 | 1501 | 1904 | 1305 | 1295 | 1130 | 1151 | 1710 | - |
| 1100 | 590 | 1717 | - | 1207 | - | 1500 | 1500 | - | - |
| 1200 | 630 | 1939 | 2106 | 1363 | 1390 | 1775 | 1285 | 2425 | - |
| 1300 | 670 | 2120 | - | 1428 | - | 2537 | 2537 | - | - |
| 1400 | 710 | 2143 | 2343 | 1473 | 1656 | 2530 | 2631 | - | - |
| 1500 | 750 | 2288 | - | 1688 | - | 2944 | 2944 | - | - |
| 1600 | 790 | 2478 | 2619 | 1736 | 1904 | 3120 | 3740 | - | - |
| 1800 | 870 | 2825 | - | 1843 | - | 5140 | 5340 | - | - |
| 2000 | 950 | 3074 | - | 1951 | - | 6945 | - | 9500 | - |
| 2200 | 1030 | 3248 | - | 2194 | - | - | - | - | - |
| 2400 | 1110 | 3683 | - | 2388 | - | - | - | - | - |
| 2500 | 1150 | 3797 | - | 2438 | - | - | - | - | - |



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