



TRIPLE OFFSET BUTTERFLY VALVE – WAFER TYPE



Standards and Specifications

- Design and manufacture standard: API609, MSS SP-68, BS EN 593
- Temperature and pressure rate conform to: ASME B16.34
- Low temperature standard: BS 6364, MS SP-134
- Drive flange conform to: BS EN ISO 5211
- Connection flange conform to: ASME B16.5, ASME B16.47, ISO7005, EN1092
- Face to face conform to: API609, MSS SP-68, ISO5752, EN558
- Inspection and testing standard conform to: API 598, ISO5208
- Fireproofing test conform to: BS EN ISO 10497, API607, API F6A
- Valve mark conform to: MSS-SP-25
- Dissipation discharge test: API622, API 624, ISO/CD 15848, EPA Method21
- Operation: Handwheel, Bevel Gear, Pneumatic, Electric



Overview

Basic Parameters

Size range: 3"-128" (80mm-3200mm) (Note: the scope includes all the listed pressure class)

Pressure class: Class 150, Class 300, Class 600, Class 900, Class 1500; PN25, PN40, PN63, PN100, PN150, PN260.

Connection type: wafer, lug, double flanged, butt-welded

Working temperature: -196°C-+165°C(-321°F-+1202°F)

Drive type: worm gear, pneumatic, electric, hydraulic.

Applicable medium: applicable for the pressures ranging from vacuum to high pressure, Cryogenic to ultra-high temperature and other kinds of applications.

Industrial Applications

Triple-eccentric metal-seated butterfly valve depend on its excellent character, mainly applied to the following industries;

1. LNG storage and transport
2. 2. Petroleum and natural gas processing
3. 3. Marine drilling platform
4. 4. Oil refining
5. 5. Chemical and petrifaction industry
6. 6. District heating
7. 7. Papermaking
8. 8. Metallurgy
9. 9. Steam (saturated and overheating) 10. Power plant

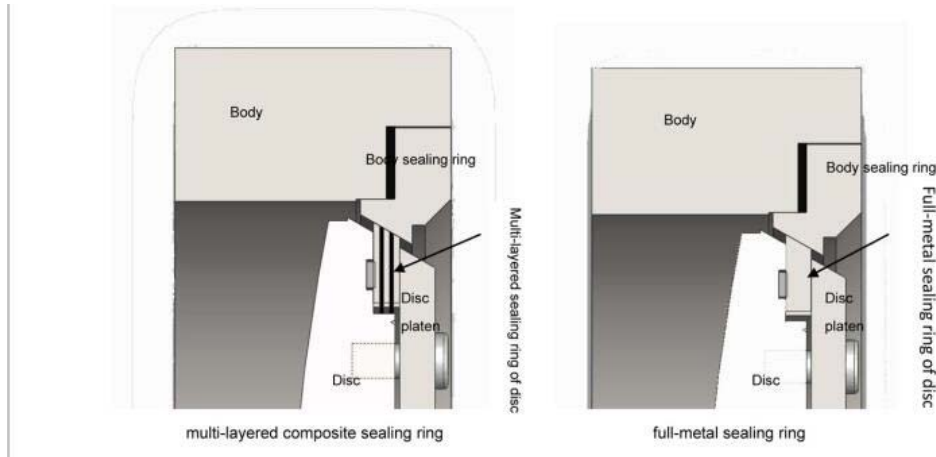


Advantages and Features

1. Bi-directional zero-leakage sealing. According with standard API 598 and ANSI/FCI 70-2 Class VI.
2. Optimized disc/shaft and inside cavity diameter makes it able to achieve a high flow coefficient (Cv. Kv) and reduce the pressure loss.
3. The separate sealing ring design make it possible to adjust the sealing between sealing ring itself, ensuring the sealing performance is reliable. And the face to face contact between valve disc ring and valve body can ensure no friction and locking, so the valve torque is small.
4. The valve can achieve the security seal by the contact force from metal on metal instead of relying on the medium pressure and/or mechanical positioning.
5. The stable torque can ensure the reliability of Bi-directional sealing.
6. When open the valve, the pressure angle is greater than the frictional angle, the disc separates from the valve body sealing ring completely and immediately which can eliminate the friction between the valve body sealing ring and disc sealing ring mand extend its service life.
7. Using internal protection ring of the bearing to prevent intrusion of impurities, enhancing the reliability of the valve.
8. The valve is suitable for various conditions with the detachable and replaceable seat. The valve body sealing ring and the disc sealing ring system can be replaced on site which can lower the maintenance costs.
9. The packing gland is composed of 2 parts to avoid the stem locking caused by offset. and allow the stem-packing regulate on site.
10. All parts of valve are interchangeable and replaceable.

Sealing Form and Principle

For the triple-eccentric metal-seated butterfly valves, customers can select different kinds of disc sealing rings for different working conditions. There are two main types of sealing rings: the multi-layered composite type and the full-metal type (a variety of materials are available to be chosen for both types).



Sealing Principle:

The external and inner shape of sealing ring is like the cone angle cutting which forms the sealing surface. Perfect contact between the sealing ring and the sealing surface of seat can achieve the tight seal when close the valve.

Features:

The disc separates from the body sealing ring completely and immediately, and all release angles are positive angle, that can avoid the friction between sealing surface and body sealing ring.

No deadlock.

No retention area.

No friction resistance from seal separation when open the valve.

It has a regulatory function at the moment of opening.

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