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# RBV060

PTFE Resilient Seated Butterfly Valve



## SISCO VALVE

## COMPANY PROFILE

SISCO is a competitive valve manufacturer that was first incorporated in 1995. As an OEM manufacturer, we specialize in premium industrial valves. Our main products include the butterfly valve, gate valve, and check valve. These products are utilized extensively by industries such as petroleum, chemical engineering, sewage treatment as well as air and water treatment. Customization services are available upon request.

SISCO owns 12,000 square meters of real estate. We maintain operations with a staff of more than 200 employees, many of whom are senior engineers and experienced technicians. Our modern facilities include 11 workshops and 3 automatic assembling machines that have been specialized for dedicated functions such as assembly, processing, painting, and testing. A complete array of advanced equipment ensures the quality of our products.

We have successfully passed the certification of internationally recognized standards such as CE, DNV, GOST, and ISO9001. Our manufacturing techniques implement state-of-the-art technologies to guarantee high processing efficiency and integrity. This level of enhanced productivity is the underlying basis for our always-on-time delivery policy. As a mature and responsible enterprise, we strive to provide considerate and attentive after-sales services.

SISCO exports worldwide to regions including the Americas, Europe, and the Middle East. Our valves have also exhibited outstanding performance on domestic markets, serving as the control node for systems such as petroleum pipelines, heat supply pipelines, water supply pipes, chemical pipelines, and sewage treatment.

Product quality has always been our top priority. All SISCO employees are trained in proper handling and operating techniques. We have developed quality control protocols to streamline everything from raw material procurement to machining, inspection, and logistics.

Please contact us with product and service related inquiries! We look forward to your correspondence.

## PTFE Resilient Seated Butterfly Valve **RBV060** Series



# RBV060

Butterfly Valve Series

## PRODUCTION CAPABILITY AND CERTIFICATE

01 02



# RBV060

Butterfly Valve Series

## FIELD OF APPLICATION

03 04

- Chemical
- Beverage
- Brewing/Wine Making
- Pharmaceutical
- Food Processing
- Petroleum Refining & Oilfield
- Transportation
- Ultrapure Water
- Marine
- Pulp & Paper
- Mining
- Power/FGD
- Nuclear Power
- Irrigation
- Water & Wastewater Treatment
- Textile
- Desalination

PTFE Resilient Seated Butterfly Valve

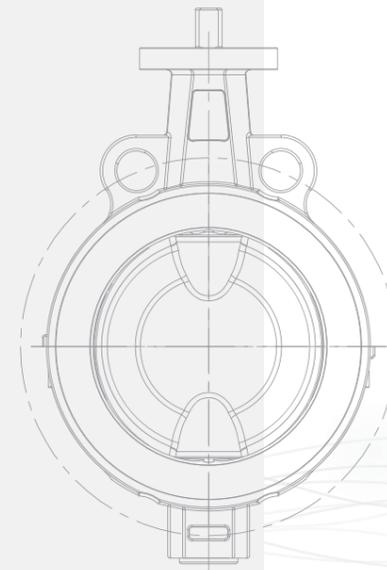
## DESIGN FEATURES

1. Bi-directional bubble tight shut off, zero leakage.
2. Full PTFE cladding design of the seat thoroughly prevent pipeline media from corroding body, body connected surface and disc.
3. Dry shaft feature isolating the pipeline media from the shaft and therefore shaft with standard material can be used.
4. Split Body Design achieves flexible torque control.
5. Light weight and volume lowering cost and achieving easy installation.
6. Full bore feature results in higher Cv value.

# RBV060

Series

SISCO RBV060 Series is designed to meet strong corrosive circumstance, and achieve pollution-free to the pipeline media as well. The Series is applicable to following industries:



# RBV060

Butterfly Valve Series

## GENERAL FEATURES

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### Body

Split body design contains adjustable clearance between upper & lower bodies and adjusting bolts, which is able to, according to actual need, effectively improve sealing effectiveness, control torque and increase service life of the seat and disc. All bodies are drilled to be compatible with DIN PN10, DIN PN16, and ANSI 150 simultaneously. Top flange meet with ISO 5211 standards for direct mounting of manual operators and actuators.

### Seat

SISCO RBV060 Series uses PTFE+SILICON or PTFE+FKM double-layer compound seat, a complete SILICON or FKM-made layer is as a seat energizer between the seat and body, which not only makes up the poor resilience of the PTFE material, but enhances the seal-

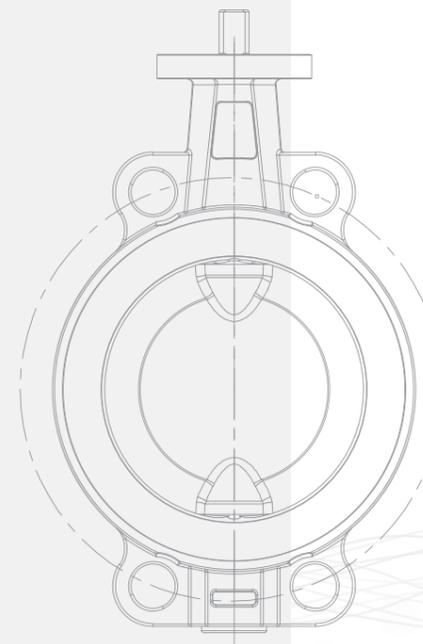
ing efficiency of the valve. RBV060B Series adopts PTFE coated disc and body contact face, the design thoroughly prevent line media from corroding body, body contact face and disc, and greatly increase lifetime of the valve.

### Disc

The high-strength once-casting-molding disc is fully coated with PTFE materials, completely isolates the line media from the disc and shaft, and achieves most excellent and comprehensive sealing and anti-corrosion. The customized disc exactly matches full PTFE coated seat, combined with torque-adjustable split body design, which avoids the increase of the torque value caused by PTFE coating, and makes SISCO RBV060B Series possesses lower torque value and better sealing to compare with the products of same kind.



PTFE Resilient Seated Butterfly Valve



## GENERAL FEATURES

### Shaft

Alternative to high corrosion resistance shaft materials, RBV060B is equipped with the dry shaft design because of its concentric nature and axial sealing design, where shaft with standard material is completely isolated from the flowing media.

Double shafts pin-less design is available to be chosen depending on customers' preference. Precision machining of the disc and the stem connection minimizes hysteresis and produces maximum strength engagements.

All stem designs incorporate a blow-out proof feature.

Connection between shaft and disc are welded, then coated with PTFE, so shaft and disc are a whole piece. This design avoid leakage caused by deformation of disc and shaft, and extremely enhance the strength of disc and shaft. Both disc/stem designs inherently provide complete protection from particle entrapment and bacterial decay, protection that is required for sanitary performance. For superior erosion and abrasion resistance, the one-piece disc/stem is fully encased in either EPDM or BUNA-N.

For double shafts pin-less design, precision double "D" or "Square" disc to stem connection drives the disc without the need for screws or pins. The close tolerance, double "D" or "Square" connection which drives the valve disc are exclusive features of SISCO valve.

### Blow-out Proof

A retaining ring, installed between the stem groove and gland retainer step, provides full retention of the stem in the unlikely event of internal stem failure.

### Primary & Secondary SEALS

These seals prevent line media from contacting with the stem or body. Primary seal is achieved by a molded o-ring between disc and seat. Secondary Seal is created by the completed connection between disc, shaft and seat, they shall be a whole piece. Self-adjusting O-ring sealing is also applied to give positive sealing in both directions and prevents external substances from entering the stem bore.

# RBV060

Butterfly Valve Series

## GENERAL FEATURES

07  08

### Shaft Bushing

Non-corrosive, phenolic resin bushing absorbs actuator side thrust.

### Actuator Mounting

Due to a modular design, all SISCO actuators including Handles, Gear Operators, Pneumatic and Electric Actuators can be mounted directly to SISCO resilient seated valves, no brackets are required, which allows of simple installation in the field, minimizes possible misalignment and reduces overall height.

Nominal Dimension	Nominal Pressure	Connectivity Standard	Part Name	Material
Available DN50 ~ DN600	Available PN10 or PN16	Available DIN PN10/16 or ANSI 150lb	Body	Ductile Iron ASTM Stainless Steel
			Body Coating	Epoxy Coating
			Disc	Ductile Iron / CF8/CF8M ASTM Stainless Steel
			Disc Surfacing	Electroplate
			Stem	ASTM 304 Stainless Steel
				ASTM 316 Stainless Steel
ASTM 416/420 Stainless Steel				
Seat	PTFE			

## PTFE Resilient Seated Butterfly Valve

# RBV060 Series

