Max-Seal High Performance Butterfly Valves are backed by the resources and experience of over thirty-five years of process valve and automation experience.

Butterfly Valves Designed to Perform in the Most Difficult Applications

Our extended range series is offered from Max-Seal’s manufacturing partner which has over 20 years experience of providing severe service butterfly valves in most all designs up to 120 inch.

Valves are manufactured and certified to American Petroleum Institute 6D, CE, ISO 9001, ANSI and NACE Standards

Products offered in this catalogue are special in design and manufactured per specific customer applications, changes in the order, or modifications of any kind must be made in writing and accepted in writing by Max-Seal, Inc. Please note, any changes or modifications may affect final costs and original delivery estimates.

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Characteristics:

1. This product is designed with the characteristics of excellent sealing for high cycle application.
2. The sealing rings are made of a special rubber which is resistant to high-temperatures and resists aging, thus prolong valve’s usage life.
3. The valve utilizes T-shape cross-sectional sealing rings which are suitable for steam service conditions.
4. Sealing ring is fixed on the disc, allowing for seat replacement without disassembly of the installed valve.

Max-Seal, Inc. offers a broad line of automation systems for precise proportioning or on-off control in either pneumatic or electrically powered units.

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Max-Seal works with customers to design valves tailored to their specific needs. Knowledge of applications, materials & design allows our engineers to find solutions to problems quickly and effectively.

Max-Seal's engineered valves incorporate the most innovative designs on today's market. Proven in the field, they provide uninterrupted service with the highest shutoff for longer periods of time in service.

High-Performance Butterfly Valve

Specifications
- End Connection: Flanged, Wafer and Lug
- Size: 1 1/2” to 24”
- Working Temperature: -20 to 302 °F
- Pressure Class: ANSI Class 150, 300, 600, 900
- Medium: Oil, Gas, Water, Steam, Corrosive fluid, etc.
- Valve Body: Carbon Steel, Stainless Steel & Specials
- Valve Disc: Carbon Steel, Stainless Steel & Specials
- Valve Seat: Fluorine plastics, Synthetic rubber, Stainless Steel

Characteristics:
1. Double offset construction
2. Bidirectional seal
3. Can be used in many industrial applications.
4. Available in Class IV and Class V shut off

Models:
- Wafer: BW150, BW300, BW600, BW900
- Lug: BL150, BL300, BL600, BL900
- Flanged: BF150, BF300, BF600, BF900

Applications:

Metal to Metal Seal Butterfly Valve

Specifications
- End Connection: Flanged, Welding, Wafer, Lug, wafer type
- Size: 2” to 120”
- Working Temperature: -20 to 797 °F
- Pressure Class: ANSI Class 150, 300, 600, 900, 1500
- Medium: Water, Steam, Oil, Sea Water, Acid Medium, etc.
- Valve Body: Carbon Steel, Stainless Steel, Nodular Cast Iron, High Temperature Alloy Steel & Specials
- Valve Disc: Carbon Steel, Stainless Steel, Nodular Cast Iron
- Valve Stem: Stainless Steel, Chrome-Nickel-Molybdenum-Titanium & Specials
- Valve Seat: Stellite, Stainless Steel, Alloy Steels & Specials

Characteristics:
1. Self-adjusts hermetically-sealed. Two hundred thousand cycle life tests with zero leakage.
2. Special hermetically-sealed construction has no stress deformation when valve is under both high and low temperature and can maintain zero-leakage.
3. Triple offset metal hermetically-sealed construction.
4. Axial aligning guide solves the problems of up-and-down sealed surfaces when destroyed, broken and leaked by flexing movement of axial butterfly plate and the valve driving actuator can be installed in any direction (when through the butterfly valve more than 20in, horizontal is the preferred position).
5. Available in Class V & VI shut off.

Application:
Suitable for Petrochemical, Hydropower station, Metallurgy and most severe applications.

Large Sized Rubber Sealed Butterfly Valve

Specifications
- End Connection: Flanged, Wafer, Lug
- Size: 4” to 64”
- Working Temperature: 32 to 248 °F
- Pressure Class: ANSI Class 125, 150
- Medium: Water, Steam, Oil, Sea Water, Acid Medium, etc.
- Valve Body: Grey Cast Iron, Ductile Iron, Stainless Steel & Cast Steel
- Valve Disc: Coated Grey Cast Iron, Ductile Iron, Stainless Steel, Cast Steel, Duplex
- Valve Stem: Stainless Steel & Specials
- Valve Seat: Rubber, Buna, EPDM, Specials

Characteristics:
1. Rubber seated concentric butterfly valves are designed for easy and compact installation.
2. Valve disc utilizes streamlined design that provides low resistance coefficient when in the fully open position (high flow disc design).
3. Valve provides full bi-directional sealing. Full bubble tight sealing is achieved. Gas sealing test reaching zero leakage. Open and close cycles can reach 100000.

Application:
This type of butterfly valve is widely used in applications such as petroleum, chemical, power, municipal and other industries for both on-off and throttling applications.

Low-Temperature & Cryogenic Butterfly Valve

Specifications
- End Connection: Flanged, Butt-Welding, Wafer
- Size: 2” to 48”
- Working Temperature: Low temperature to -320 °F
- Pressure Class: ANSI Class 150, 300, 600, 900, 1500
- Medium: Gases, Hydrogen, Oxygen, Nitrogen, etc.
- Valve Body: Stainless Steel & Specials
- Valve Disc: Stainless Steel & Specials
- Valve Stem: Alloy Steel, Stainless Steel & Specials
- Valve Seat: Stellite Alloy

Characteristics:
1. Triple offset seating design.
2. Excellent Seating over a wide range of temperatures.
3. API Fire Safe Design.

Application:
Suitable for Petrochemical, Tank field, Nitrogen-making, Fluorine-making, etc.
Max-Seal works with customers to design valves tailored to their specific needs. Knowledge of applications, materials & design allows our engineers to find solutions to problems quickly and effectively.

Max-Seal's engineered valves incorporate the most innovative designs on today's market. Proven in the field, they provide uninterrupted service with the highest shutoff for longer periods of time in service.

**HIGH-PERFORMANCE BUTTERFLY VALVE**

**Specifications**

- End Connection: Flanged, Wafer and Lug
- Size: 1 1/2” ~ 24”
- Working Temperature: -20 ~ 320 °F
- Pressure Class: ANSI Class 150, 300, 600, 900
- Medium: Oil, Gas, Water, Steam, Corrosive fluid, etc.
- Valve Body: Carbon Steel, Stainless Steel & Specials
- Valve Disc: Carbon Steel, Stainless Steel & Specials
- Valve Stem: Stainless Steel & Specials
- Valve Seat: Fluorine plastics, Synthetic rubber, Stainless Steel

**Characteristics:**

1. Double offset construction
2. Bidirectional seal
3. Can be used in many industrial applications.
4. Available in Class IV and Class V shut off

**Models:**

- Wafer: BW150 BW300 BW600 BW900
- Lug: BL150 BL300 BL600 BL900
- Flanged: BF150 BF300 BF600 BF900

**Application:** Suitable for Petrochemical, Natural gas, Oil refining, Power plant, Iron & Steel, Chemical Industry, Papermaking, Pharmacy, Pulp & Paper.

**METAL TO METAL SEAL BUTTERFLY VALVE**

**Specifications**

- End Connection: Flanged, Welding, Wafer, Lug wafer type
- Size: 2” ~ 120”
- Working Temperature: -20 ~ 797 °F
- Pressure Class: ANSI Class 150, 300, 600, 900, 1500
- Medium: Water, Steam, Oil, Sea Water, Acid Medium, etc.
- Valve Body: Carbon steel, Stainless steel, Nodular Cast Iron, High Temperature Alloy Steel & Specials
- Valve Disc: Carbon steel, Stainless steel, Nodular Cast Iron
- Valve Stem: Stainless Steel, Chrome-Nickel-Molybdenum-Titanium & Specials
- Valve Seat: Stellite, Stainless Steel, Alloy Steels & Specials

**Characteristics:**

1. Self-adjusts hermetically-sealed. Two hundred thousand cycle life tests with zero leakage.
2. Special hermetically-sealed construction has no stress deformation when valve is under both high and low temperature and can maintain zero-leakage.
3. Triple offset metal hermetically-sealed construction.
4. Axial aligning guide solves the problems of up-and-down sealed surfaces when destroyed, broken and leaked by flexing movement of axial butterfly plate and the valve driving actuator can be installed in any direction (when through the butterfly valve more than 20in, horizontal is the preferred position).
5. Available in Class V & VI shut off.

**Application:** Suitable for Petrochemical, Hydropower station, Metallurgy and most severe applications.

**LARGE SIZED RUBBER SEALED BUTTERFLY VALVE**

**Specifications**

- End Connection: Flanged, Wafer, Lug
- Size: 4” ~ 64”
- Working Temperature: 32 ~ 348 °F
- Pressure Class: ANSI Class 125, 150
- Medium: Water, Steam, Oil, Sea Water, Acid Medium, etc.
- Valve Body: Grey Cast Iron, Ductile Iron, Stainless Steel & Cast Steel
- Valve Disc: Coated Grey Cast Iron, Ductile Iron, Stainless Steel, Cast Steel, Duplex
- Valve Stem: Stainless Steel & Specials
- Valve Seat: Rubber, Buna, EPDM, Specials

**Characteristics:**

1. Rubber seated concentric butterfly valves are designed for easy and compact installation.
2. Valve disc utilizes streamlined design that provides low resistance coefficient when in the fully open position (high flow disc design).
3. Valve provides full bi-directional sealing. Full bubble tight sealing is achieved. Gas sealing test reaching zero leakage. Open and close cycles can reach 100000.

**Application:** This type of butterfly valve is widely used in applications such as petroleum, chemical, power, municipal and other industries for both on-off and throttling applications.

**LOW-TEMPERATURE & CRYOGENIC BUTTERFLY VALVE**

**Specifications**

- End Connection: Flanged, Butt-Welding, Wafer
- Size: 2” ~ 48”
- Working Temperature: low temperature to -320 °F
- Pressure Class: ANSI Class 150, 300, 600, 900, 1500
- Medium: Gases, Hydrogen, Oxygen, Nitrogen, etc.
- Valve Body: Stainless Steel & Specials
- Valve Disc: Stainless Steel & Specials
- Valve Stem: Alloy Steel, Stainless Steel & Specials
- Valve Seat: Nickel-Alloy

**Characteristics:**

1. Triple offset seating design.
2. Excellent Seating over a wide range of temperatures.
3. API Fire Safe Design.

**Application:** Suitable for Petrochemical, Tank field, Nitrogen-making, Fluorine-making, etc.
Max Seal - Extended Range Series

Butterfly Valves Designed to Perform in the Most Difficult Applications

Our extended range series is offered from Max-Seal’s manufacturing partner which has over 20 years experience of providing severe service butterfly valves in most all designs up to 120 inch.

We provide double and triple offset butterfly valves with high temperature metal seats, cryogenic, steam jackets and many other special designs. Installed applications ranged from: water, sea water, petroleum, chemical, petrochemical, tankfield, nitrogen & fluorine manufacturing, utilities and hydropower stations.

Valves are manufactured and certified to American Petroleum Institute 6D, CE, ISO 9001, ANSI and NACE Standards

Valves shown in this brochure are custom designed to meet application requirements. Major project orders will undergo additional inspection and testing by Max-Seal Quality Control Personnel. Due to the special nature and custom manufacturing of these valves, deliveries may extend up to 90 to 120 days.

All valves are provided with an extended 18 month warranty as standard.

Max-Seal’s focus is Safety - Performance - Value.

As a part of the Flo-Tite Group, Max-Seal High Performance Butterfly Valves are backed by the resources and experience of over thirty five years of process valve and automation experience.

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4. Sealing ring is fixed on the disc, allowing for seat replacement without disassembly of the installed valve.

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Max-Seal Inc. Offers a broad line of automation systems for precise proportioning or on-off control in either pneumatic or electrically powered units.

Application:

This type of butterfly valve is widely used in the field of electric power and other industries, ideal for steam, air or vacuum service.

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