











Electric butterfly valve



Committed to process automation solutions

Tel: 86-15158063876

E-mail: info@supmea.com

www.supmea.com



Electric wafer butterfly valve(HL type)

The integrated structure wafer center line butterfly valve can be used with the HL type electric actuator with input (4-20mADC, 0-10VDC or 1-5VDC) signal or single-phase power supply. It has the characteristics of small size, large flow capacity, high adjustment accuracy, good sealing and light weight. It is widely used in industrial automation control systems in food, environmental protection, light industry, petroleum, papermaking, chemical industry, teaching and scientific research equipment, electric power and other industries.

Applications

- Food
- Environmental protection
- Light industry
- Petroleum
- Papermaking
- Chemical industry
- Teaching and scientific research equipment
- Electric power

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Features

- Small size
- Large flow capacity
- High adjustment accuracy
- Good sealing
- Light weight

Electric wafer butterfly valve

Principle

The electric wafer butterfly valve operates based on an electric actuator. When an electrical signal is received, the actuator converts electrical energy into mechanical motion. This mechanical motion drives the rotation of the valve shaft. The valve shaft is connected to a circular disc, which is the closure member of



the butterfly valve. As the valve shaft rotates, the disc rotates within the valve body. When the disc is perpendicular to the flow direction of the pipeline, the valve is in a closed state, blocking the fluid flow. When the disc rotates to be parallel to the flow direction, the valve is fully open, allowing fluid to flow through with minimal resistance. This way, the electric wafer butterfly valve can precisely control the flow rate and cut off of the fluid in the pipeline.

| Parameters | |
|----------------------|--|
| Nominal diameter | DN50~DN800 |
| Nominal Pressure | PN1.0,1.6MPa |
| Suitable Temperature | -20℃~150℃ |
| Suitable medium | water,sea water,food,natural gas,alcohols,salts,acids,alkalis,oil,steam,air,etc. |

| SIZE | | ltem | OD1 | L | | H2 | H1 | n-O | | SIZE | |
|-----------|------|--------|---------|-------|-----|-----|-----|--------|--------|-------|------|
| mm | inch | | 1.0MP 1 | I.6MP | | | | 1.0MPa | 1.6MPa | mm | inch |
| DN50 | 2 | | , | 125 | 43 | 313 | 76 | | 4-018 | DN50 | 2 |
| DN65 | 21/2 | HL-05 | | 145 | 46 | 326 | 89 | | 4-018 | DN65 | 21/2 |
| DN8 0 | 3" | | , | 160 | 46 | 332 | 94 | 4-018 | 8-018 | DN80 | 3" |
| DN10 0 | 4° | HL-10 | , | 180 | 52 | 374 | 114 | | 8-018 | DN100 | 4° |
| DN12 | 5° | | 2 | 210 | 56 | 387 | 127 | | 8-018 | DN125 | 5° |
| DN15 | 6" | HL-20 | 2 | 240 | 56 | 433 | 140 | | 8-023 | DN150 | 6" |
| DN20 | 8" | | 2 | 295 | 60 | 468 | 176 | 8-023 | 12-023 | DN200 | 8" |
| DN25 | 10" | HL-50 | 350 | 355 | 68 | 518 | 207 | 12-023 | 12-025 | DN250 | 10" |
| DN30 | 12" | HL-100 | 400 | 410 | 78 | 594 | 240 | 12-023 | 12-025 | DN300 | 12" |
| DN35 | 14" | | 460 | 470 | 78 | 625 | 273 | 16-023 | 16-025 | DN350 | 14" |
| DN40 | 16" | | 515 | 525 | 102 | 657 | 322 | 16-025 | 16-030 | DN400 | 16" |
| DN45 | 18" | HL-200 | 565 | 585 | 114 | 679 | 340 | 20-025 | 20-030 | DN450 | 18" |
| DN50 | 20" | | 620 | 650 | 127 | 737 | 380 | 20-028 | 20-034 | DN500 | 20" |
| DN60 | 24" | HL-400 | 725 | 770 | 154 | 881 | 467 | 20-031 | 20-037 | DN600 | 24" |



Electric flanged soft seal butterfly valve

Electric flanged soft seal butterfly valve is suitable for temperature≤120°C,nominal pressure≤1.6MPa of food industry,pharmaceutical,chemical industry,oil,electricity power, textile,paper making and other liquid/gas regulation.

Applications

- Food industry
- Pharmaceutical
- Chemical industry
- Oil
- Electricity power
- Textile
- Paper making
- Liquid/gas regulation industry

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Features

- Design reasonable,unique structure, lightweight, open and close quickly
- Operation torque small, easy operation
- Mounted in any position, and easy maintenance
- The seal parts can be replaced, zero leakage of reliable seal performance
- The seal material is anti-aging, corrosion resistance with long life

Electric flanged soft seal butterfly valve

Principle

The electric flanged soft - seal butterfly valve functions as follows. An electric actuator is at the heart of its operation. When it receives an electrical command signal, the actuator initiates action, converting



electrical energy into mechanical power. This mechanical power is then transferred to the valve stem. The valve stem is attached to a disc made of a soft - sealing material, which is the key component for controlling the flow. As the valve stem rotates due to the action of the actuator, the disc rotates accordingly within the valve body. In the closed position, the disc presses firmly against the valve seat, creating a tight seal due to the flexibility of the soft - sealing material, thus preventing any fluid from flowing through the pipeline. When the valve is to be opened, the actuator drives the valve stem to rotate the disc until it is parallel to the direction of fluid flow. This allows the fluid to pass through the valve with relatively low resistance, enabling smooth control of the fluid flow rate within the pipeline system.

| Parameters | | | | | | | | |
|---------------------|----------------------|----------------------------------|---------------------|--|--|--|--|--|
| Nominal diame | ter DN(mm) | DN50~DN500 |) | | | | | |
| Nominal pressu | re | PN1.0MPa | PN1.6MPa | | | | | |
| Nomina | Strength test | PN1.5MPa | PN2.4MPa | | | | | |
| pressure | Seal test | PN1.1MPa | PN1.76MPa | | | | | |
| | Valve Body | Ductile Iron、WCB、Stainless Steel | | | | | | |
| | Valve Disc | Ductile iron,cast iron,WCB and | l special materials | | | | | |
| Main Parts | Valve Stem | Carbon steel, Stainles | s Steel | | | | | |
| | O-ring | Rubber,PTFE,EF | PDM | | | | | |
| | Packing | PTFE、flexible grap | phite | | | | | |
| Applicable | Applicable medium | Water、air、oils,et | tc. | | | | | |
| Operating Condition | Suitable temperature | ≤120℃ | | | | | | |

| SIZE | | _ Item | OD1 | | L |
|-------|------|---------|--------|--------|-----|
| mm | inch | | 1.0MPa | 1.6MPa | |
| DN50 | 2 | HL-05 | 125 | | 108 |
| DN65 | 21/2 | 11E-03 | 145 | | 112 |
| DN80 | 3 | | 160 | | 114 |
| DN100 | 4° | HL-10 | 180 | | 127 |
| DN125 | 5° | | 210 | | 140 |
| DN150 | 6° | HL-20 | 240 | | 140 |
| DN200 | 8 | | 295 | | 152 |
| DN250 | 10° | HL-50 | 350 | 355 | 165 |
| DN300 | 12 | HL-100 | 400 | 410 | 178 |
| DN350 | 14° | 112-100 | 460 | 470 | 190 |

| DN400 | 16° | | 515 | 525 | 216 |
|-------|-----|--------|-----|-----|-----|
| DN450 | 18° | HL-200 | 565 | 585 | 222 |
| DN500 | 20° | | 620 | 650 | 229 |



Electric triple offset metal-seal butterfly valve

Flexibility with precision U-ring and triple offset metal hard sealing multi-level structure, which is widely used in medium temperature≤425°C of metallurgical,power,petrochemical, and municipal construction,drainage and industrial pipe,for regulation traffic and fluid truncated. The valve adopt triple offset structure. The sealing face of the valve seat and disc s made of the steel and stainless steel with good corrosion resistance,long service life. With the two-way sealing function,allthe products up to the valve pressure test standard of national GB/T 13927-92.

Applications

- Metallurgical
- Power
- Petrochemical
- Municipal construction
- Drainage and industrial pipe



Features

- Excellent sealing performance, corrosion resistance, and long service life.
- Wear-resistant, long service life.
- Not restricted by media flow and spatial position, can be installed in any direction.

Electric triple offset metal-seal butterfly valve

Principle

The electric triple - offset metal - seal butterfly valve operates on a sophisticated principle. It is powered by an electric actuator. When an electrical signal is sent, the actuator converts electrical energy into mechanical movement. This mechanical force is transmitted to the valve shaft. The valve features a



uniquely designed disc and a metal seat. The three offsets in the valve design - offset between the axis of the disc and the axis of the valve body, offset of the disc's rotation axis from the centerline of the pipeline, and offset of the seat's cone angle - play a crucial role. As the valve shaft rotates under the action of the actuator, the disc moves. When closing, due to these offsets, the disc gradually presses against the metal seat. The metal - to - metal contact creates a tight seal, effectively blocking the flow of media in the pipeline. When opening, the actuator reverses the rotation of the shaft, moving the disc away from the seat, allowing the media to flow through the valve with minimal resistance, thus precisely controlling the flow of various fluids in industrial applications.

| Parameters | | | | | | | | |
|-------------------------|----------------------|-----------------------------|---------------|--------------|-------------|--|--|--|
| Nominal diamet | er DN(mm) | DN50~DN600 | | | | | | |
| Nominal pressu | re | PN1.0MPa | | PN1.6MPa | PN1.6MPa | | | |
| Nominal | Strength test | PN1.5MPa | | PN2.4MPa | | | | |
| pressure | Seal test | PN1.1MPa | | PN1.76MPa | | | | |
| Materials/code name | | С | Р | | R | | | |
| | Valve Body | WCB | 304 | | 316 | | | |
| Main Parts | Valve Disc | | | | | | | |
| | Valve Stem | Carbon steel,Stainless Stee | | | | | | |
| | O-ring | PTFE、stainless steel | | | | | | |
| | Packing | PTFE、flexible graphite | | | | | | |
| Applicable Operating | Applicable medium | Water,steam,oils | nitrose | | acetic acid | | | |
| Condition | Suitable temperature | Carbon steel:-29°C~425° | C Stainless s | teel:-40~600 | °C | | | |

| SI | ZE | Item | OD1 | OD2 | H2 | H1 |
|-----|------|-------|---------------|---------------|-----|-----|
| mm | inch | | 1.0MPa 1.6MPa | 1.0MPa 1.6MPa | | |
| 50 | 2 | HL-10 | 125 | 102 | 323 | 90 |
| 65 | 2.5° | | 145 | 122 | 367 | 110 |
| 80 | 3 | | 160 | 133 | 413 | 115 |
| 100 | 4° | HL-20 | 180 | 158 | 423 | 130 |
| 125 | 5° | | 210 | 185 | 473 | 150 |
| 150 | 6° | HL-50 | 240 | 216 | 511 | 165 |
| 200 | 8° | | 295 | 272 | 597 | 210 |

| 250 | 10" | HL-100 | 350 | 355 | 320 | 320 | 627 | 245 |
|-----|-----|--------|-----|-----|-----|-----|-----|-----|
| 300 | 12" | HL-200 | 400 | 410 | 372 | 372 | 677 | 280 |
| 350 | 14" | | 460 | 470 | 420 | 430 | 742 | 315 |
| 400 | 16" | HL-400 | 515 | 525 | 480 | 480 | 819 | 345 |
| 450 | 18" | | 565 | 585 | 535 | 545 | 884 | 380 |
| 500 | 20" | HL-600 | 620 | 650 | 585 | 610 | 909 | 415 |
| 600 | 24" | | 725 | 770 | 685 | 720 | 924 | 460 |



Electric flanged triple offset metal seal butterfly valve

The electric flange metal seal butterfly valve adopts J-type elastic sealing ring and triple offset metal seal structure. It is widely used in pipelines in the power, petrochemical, and drainage industries with medium temperature ≤425°C to regulate flow.

Applications

- Pipelines in the power
- Petrochemical
- Drainage industry



Features

- With more and more tightly sealing function
- Excellent sealing performance
- Corrosion resistance
- Long life and other characteristics

Electric flanged triple offset metal seal butterfly valve

Principle

The electric flanged triple - offset metal seal butterfly valve operates through an electric actuator. When



an electrical signal is received, the actuator transforms electrical energy into mechanical torque and transfers it to the valve stem. Thanks to the triple - offset design, which involves offsetting the valve shaft from the center of the disc, from the centerline of the pipeline, and having an offset angle on the conical sealing surfaces of the disc and seat, during opening, the stem rotates the disc, leveraging the cam - like action created by the offsets to lift the disc away from the seat smoothly, allowing fluid to flow through the valve with minimal resistance as the discaligns parallel to the fluid flow. When closing, the actuator rotates the stem in the opposite direction. The disc gradually makes contact with the seat, starting from a single point and then conforming precisely to the seat surface, achieving a tight metal - to - metal seal that effectively blocks the fluid flow, even under high - pressure and high - temperature conditions. The flanged connections ensure a secure and leak - proof installation to the pipeline.

| Parameters | | | | | | | |
|-------------------------|----------------------|--|-----------|--|--|--|--|
| Nominal diameter | er DN(mm) | DN40~DN600 | | | | | |
| Nominal pressur | re e | 0-1.6MPa | | | | | |
| Nominal pressure | Strength test | PN1.5MPa | PN1.6MPa | | | | |
| | Seal test | PN1.1MPa | PN1.76MPa | | | | |
| | Valve Body | Ductile Iron、WCB、Stainless Steel | | | | | |
| | Valve Disc | Ductile iron,cast iron,WCB,Stainless steel and special materials | | | | | |
| Main Parts | Valve Stem | Carbon steel,Stainless Steel | | | | | |
| | O-ring | Rubber,PTFE,EPDM | | | | | |
| | Packing | PTFE、flexible graphite | | | | | |
| Applicable Operating | Applicable medium | Water、steam、oils、nitrose、acetic | acid,etc. | | | | |
| Condition | Suitable temperature | Carbon steel:-29°C~425°C Stainless steel:-40°C~650°C | | | | | |

| SI | ZE | Item | OD1 | OD2 | H2 | H1 | L | n- | ·O |
|-----|------|-------|--------------------|--------------------|-----|-----|-----|--------|--------|
| mm | inch | | 1.0 1.6M MPa Pa | 1.0 1.6 MPa MPa | | | | 1.0MPa | 1.6MPa |
| 40 | 13/4 | | 110 | 150 | 323 | 90 | 108 | 4- | 18 |
| 50 | 2" | HL-10 | 125 | 165 | 323 | 90 | 108 | 4- | 18 |
| 65 | 2.5" | | 145 | 185 | 367 | 105 | 112 | 4- | 18 |
| 80 | 3" | | 160 | 200 | 413 | 120 | 114 | 4-18 | 8-18 |
| 100 | 4" | HL-20 | 180 | 220 | 423 | 130 | 127 | 8- | 18 |
| 125 | 5" | | 210 | 250 | 473 | 164 | 140 | 8- | 18 |
| 150 | 6" | HL-50 | 240 | 285 | 511 | 175 | 140 | 8-2 | 22 |

| 200 | 8" | | 29 | 95 | 34 | 40 | 597 | 200 | 152 | 8-22 | 12-22 |
|-----|-----|--------|-----|-----|-----|-----|-----|-----|-----|-------|-------|
| 250 | 10 | HL-100 | 350 | 355 | 395 | 405 | 627 | 243 | 165 | 12-22 | 12-26 |
| 300 | 12 | HL-200 | 400 | 410 | 445 | 460 | 677 | 250 | 178 | 12-22 | 12-26 |
| 350 | 14 | | 460 | 470 | 505 | 520 | 742 | 280 | 190 | 16-22 | 16-26 |
| 400 | 16 | HL-400 | 515 | 525 | 565 | 580 | 819 | 305 | 216 | 16-26 | 16-30 |
| 450 | 18 | | 565 | 585 | 615 | 640 | 884 | 350 | 222 | 20-26 | 20-30 |
| 500 | 20° | HL-600 | 620 | 650 | 670 | 715 | 909 | 380 | 229 | 20-26 | 20-33 |



Electric sanitary butterfly valve with tri clamp

Sanitary butterfly valve are used in applications with high sanitary requirements, such as food, beverage, pharmaceutical, dairy, beer and chemicals.

Applications

- Food
- Beverage
- Pharmaceutical
- Dairy
- Beer and chemicals



Features

- Valve body and valve bore touched with medium are 304,316 or 316L
- Removable valve body, simple structure, easy maintenance
- Design beautiful, surface smooth, without burrs
- Good quality and meet the requirements of surface accuracy
- In compliance with 3A, DIN, SMS, BS standard

Electric sanitary butterfly valve with tri clamp

Principle

The electric sanitary butterfly valve with tri - clamp operates in a straightforward yet effective manner. It



is driven by an electric actuator. When an electrical signal is received, the actuator activates and transforms electrical energy into mechanical motion. This mechanical movement is then transferred to the valve shaft. The valve shaft is connected to a disc, which is the key element for controlling the flow. In a sanitary environment, the tri - clamp connection ensures a quick, easy, and hygienic attachment to the pipeline system. When the valve is to be closed, the electric actuator rotates the valve shaft, causing the disc to turn until it is perpendicular to the flow path. This blocks the fluid flow, as the disc creates a barrier within the valve body.

Conversely, when the valve needs to be opened, the actuator rotates the shaft in the opposite direction. The disc then moves to a position parallel to the flow, enabling the fluid to pass through the valve with minimal disruption. This design allows for precise control of fluid flow in sanitary applications, such as in the food, beverage, and pharmaceutical industries, where maintaining a clean and contamination - free environment is of utmost importance.

| Parameters | |
|-------------------------|--|
| Nominal diameter DN(mm) | DN15~DN150 |
| Nominal pressure | 1.0MPa |
| Suitable temperature | -5℃~95℃ |
| Applicable medium | Dairy、beer、food、beverage、phamacy、biotechnology etc |
| Body material | 304、316、316L |
| Spool material | 304、316、316L |
| Seal material | Silicon rubber、EPDM、FPM |

| SIZE | Item | D1 | D | Н | H1 |
|------|-------|------|------|-----|------|
| mm | | | | | |
| 019 | | 16.5 | 50.5 | 173 | 38.5 |
| 025 | | 22 | 50.5 | 173 | 38.5 |
| 032 | | 29 | 50.5 | 173 | 38.5 |
| O38 | HL-05 | 35 | 50.5 | 175 | 39.5 |
| 045 | | 40 | 64 | 178 | 44 |
| 051 | | 48 | 64 | 181 | 47 |
| 063 | | 59 | 77.5 | 188 | 55.5 |
| 076 | | 72 | 91 | 194 | 61.5 |
| 089 | | 85 | 106 | 208 | 69.5 |
| 0102 | | 99 | 119 | 225 | 77.5 |
| Ø133 | HL-10 | 125 | 145 | 240 | 93 |
| 0159 | | 151 | 183 | 256 | 107 |



PVC electric butterfly valve

PVC electric butterfly valve is light in weight and corrosion-resistant. It is widely used in general water and raw water pipeline systems, pH and chemical solution systems and other industries. Its quality is recognized by the majority of users.

Applications

- General water
- Raw water piping systems
- PH and chemica solution system



Features

- Suitable temperature range:-40 °C~+95 °C
- With excellent strength and toughness
- With excellent chemical resistance capabilities
- Retardant properties is the self-extinguishing
- Low thermal conductivity,about 1/200 of the steel
- The content of heavy ion in the medium up to the ultrapure water standards
- Health indicators in line with national health standards
- Clean and smooth of the tube wall, which can generate a smaller friction and adhesion when transferring fluid
- Lightweight, the equivalent of 1/5 of steel, 1/6 of brass

PVC electric butterfly valve



- Easy to install
- Excellent anti-aging and UV resistance, long service life

Principle

Based on the Coriolis principle, the measuring tubes are periodically vibrated at a fixed frequency under the action of an alternating current using magnets and coil assemblies mounted on the measuring tubes and coil assemblies.

When the fluid medium of an industrial process flows through the measuring tubes, the Coriolis force effect, the two measuring tubes will vibrate in torsion. In addition, the vibration frequency of the tubes is determined by the total mass of the tubes and the fluid. Therefore, when the fluid density changes Therefore, when the density of the fluid changes, the vibration frequency will also change accordingly, so that the density value of the fluid in the tube can be derived.

A temperature sensor mounted on the measuring tube monitors the temperature of the fluid in real time.

After obtaining the measurement results, the Transmitter will display the measured values of mass total, density, temperature, etc. through the OLED display, on the other hand, the relevant parameters can be passed through the industry standard 4-20mA current or PWM pulse or RS485 interface output outward, easy to read by host computer or other secondary instruments.

The Transmitter is equipped with light-sensitive explosion-proof buttons, OLED display screen and LED indicator light, which can realize medium measurement, function operation, query and working status display.

| Parameters | |
|-------------------------|---|
| Nominal diameter DN(mm) | DN50~DN300 |
| End connection | Wafer |
| Body material | UPVC(-10℃~+70℃)、CPVC(-40℃~+95℃)、 RPP(-14℃~+100℃)、 PVDF(-40℃~+140℃) |
| Disc material | UPVC(-10℃~+70℃)、CPVC(-40℃~+95℃)、 RPP(-14℃~+100℃)、 PVDF(-40℃~+140℃) |
| Sealing material | PTFE、EPDM、NBR |
| Applicable medium | PVC chemical solvent compatible food industry |

| SIZE | ltem | D1 | D2 | H2 | H1 |
|-------|--------|--------|--------|-----|-----|
| mm | | 1.0MPa | 1.0MPa | | |
| DN50 | HL-5 | 125 | 165 | 263 | 82 |
| DN65 | | 145 | 185 | 274 | 92 |
| DN80 | | 160 | 200 | 318 | 100 |
| DN100 | HL-10 | 180 | 220 | 334 | 110 |
| DN125 | | 210 | 249 | 369 | 124 |
| DN150 | HL-20 | 240 | 283 | 406 | 142 |
| DN200 | | 295 | 340 | 452 | 170 |
| DN250 | HL-50 | 350 | 395 | 503 | 198 |
| DN300 | HL-100 | 410 | 460 | 557 | 230 |



Electric aeration butterfly valve

Electric aeration butterfly valve is composed of part-turn electric actuator and butterfly valve, this kind of aeration butterfly valve can be matched with HL electric actuator, which have the function of:Built-in postioner, Opening Position Signal Feedback, Position indication, Manual operation, etc. Supplied with AC220V/AC380V, and can be run with input(4- 20mADC or 0-10VDC) current and voltage signals to achieve the purpose of flowrate control by modulating control and on-off control. Its main features: nominal pressure <0.6 Mpa, the leakage rate control is less than 2%, used in industry, metallurgy, environmental protection and other piping for adjusting the flow of the medium. With the characteristics of simple structure, light weight, low operating torque, opening and closing fast, flexible movement, huge flow capacity.

Applications

- Smoke
- Dust
- Air or slurry fluid regulation and control



Features

- Simple structure
- Light weight
- Low operating torque
- Opening and closing fast
- Flexible movement
- Huge flow capacity

Electric aeration butterfly valve

Principle

The electric aeration butterfly valve is designed to regulate the flow of air in aeration systems. Its operation is centered around an electric actuator. When an electrical signal is transmitted to the



actuator, it converts electrical energy into mechanical motion. This mechanical motion is then transferred to the valve shaft.

Attached to the valve shaft is a disc. In an aeration system, when the valve needs to increase the air flow for processes like aerating a water treatment tank, the electric actuator rotates the valve shaft, causing the disc to move to a position parallel to the air flow path. This allows air to pass through the valve with relatively low resistance.

Conversely, when less air flow is required, the actuator rotates the shaft in the opposite direction, positioning the disc perpendicular or at an angle to the air flow. As the disc blocks more of the air passage, the air flow rate is reduced. This precise control of air flow by the electric aeration butterfly valve is crucial for maintaining the optimal aeration conditions in various industrial and environmental applications.

| Parameters | | |
|----------------------------|---------------------|--|
| Nominal diamet | er DN(mm) | DN50~DN1600 |
| Nominal pro | essure | PN0.1/0.25/0.6MPa |
| Disc cor | ner | 0~70° |
| Acting type | | Electrical open or electrical close |
| Flow characteristic | | Approximately equal percentage |
| Permissible d pressure(| | 0.6 |
| Performanc | e index | basic error:+2.5%;hystersis≤+2.0%;dead space+3.0% |
| Power su | ipply | AC220V、AC380V、DC24V |
| Modulating type | Signal range | 4-20mA、0-10V、1-5V |
| On-off type | Electrical sgnal | AC220V、AC380V、DC24V;Feedback signal; Active contact signal or Passive contact signal |

| SIZ | ZE | ltem | D1 | H2 | H1 | L |
|-----|-------|-------|---------|-----|-----|-----|
| mm | inch | | 0.25MPa | | | |
| 50 | 2" | | 110 | 216 | 70 | 108 |
| 65 | 21/2" | HL-5 | 130 | 217 | 80 | 112 |
| 80 | 3" | | 150 | 225 | 95 | 114 |
| 100 | 4" | | 170 | 245 | 105 | 127 |
| 125 | 5" | HL-10 | 200 | 244 | 120 | 140 |
| 150 | 6" | | 225 | 267 | 132 | 140 |
| 200 | 8" | | 280 | 360 | 160 | 152 |
| 250 | 10° | HL-20 | 335 | 443 | 187 | 165 |

| 300 | 12 | | 395 | 480 | 220 | 178 |
|------|-----|--------|------|------|-----|-----|
| 350 | 14° | | 445 | 555 | 245 | 190 |
| 400 | 16 | HL-50 | 495 | 593 | 270 | 216 |
| 450 | 18° | | 550 | 621 | 297 | 222 |
| 500 | 20° | | 600 | 678 | 322 | 229 |
| 600 | 24 | HL-100 | 705 | 723 | 377 | 267 |
| 700 | 28 | | 810 | 803 | 430 | 292 |
| 800 | 32 | HL-200 | 920 | 857 | 487 | 318 |
| 900 | 36 | | 1020 | 1013 | 537 | 330 |
| 1000 | 40° | HL-400 | 1120 | 1073 | 587 | 410 |
| 1200 | 48 | | 1320 | 1188 | 702 | 470 |
| 1400 | 56° | HL-600 | 1520 | 1888 | 782 | 530 |
| 1600 | 64 | | 1370 | 1915 | 895 | 600 |



Electric Lined Fluorine butterfly valve

D971F46/D941F46 electric fluorine-lined butterfly valve has two control modes: switch control and regulation control. The electric actuator can work by inputting control signal (4-20mADC or 1-5VDC) and single-phase power supply. This type of butterfly valve is powerful, small in size, reliable in performance and large in flow. The valve body, valve disc and valve stem are all lined with fluorine, which has good corrosion resistance and is suitable for liquids such as acid, alkali, salt, oxidant and other liquids of any concentration. It is used in gas and liquid systems such as chemical industry, petroleum, pharmaceutical, food, steel smelting, papermaking, water treatment, etc. This product can be widely used in some fields to replace cut-off or control valves such as gate valves and stop valves.

Applications

- Chemical industry
- Petroleum
- Pharmaceuticl
- Food
- Steel smelting
- Papermaking
- Water treatment

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Features

- Powerful, small in size, reliable in performance and large in flow
- Small and lightweight, easy disassembly and mantenance, and can be installed in any location
- Simple and compact, open and close quickly
- Operating toque is small, easy to operate
- Flow characteristics tend to be straight line,good in regulation
- Valve seat with anti-aging, corrosion resistance
- Lined with F4, F3, F46 butterfly valve with corrosion-resistant, no leakage, long life

Electric Lined Fluorine butterfly valve

Principle



The electric lined fluorine butterfly valve operates based on a combination of electrical power and mechanical design. An electric actuator is the driving force behind its operation. When an electrical signal is received, the actuator converts electrical energy into mechanical torque. This torque is then transferred to the valve shaft.

The valve shaft is connected to a disc, which is the key component for controlling the flow. The interior of the valve body is lined with fluorine - based material. This lining provides excellent corrosion resistance, making the valve suitable for handling aggressive chemicals and corrosive fluids. When the valve is commanded to open, the electric actuator rotates the valve shaft, causing the disc to turn and align parallel to the direction of fluid flow. This allows the fluid to pass through the valve with minimal obstruction. To close the valve, the actuator rotates the shaft in the opposite direction, positioning the disc perpendicular to the flow. The disc then seals against the fluorine - lined seat, effectively blocking the fluid flow. This mechanism enables precise control of the flow rate and complete shut - off of corrosive media in industrial processes.

| Parameters | | |
|----------------|---------------------|--|
| Control signal | 4-20mADC or 1-5 VDC | |

| SIZ | E | Item | OD2 | L | H1 | H2 |
|-------|------|--------|-----|-----|-----|-----|
| mm | inch | | | | | |
| DN50 | 2" | HL-10 | 125 | 43 | 114 | 124 |
| DN65 | 21/2 | | 145 | 46 | 126 | |
| DN80 | 3" | | 160 | 46 | 135 | |
| DN100 | 4" | HL-20 | 180 | 52 | 148 | 148 |
| DN125 | 5" | | 210 | 56 | 168 | |
| DN150 | 6" | HL-50 | 240 | 56 | 180 | 148 |
| DN200 | 8" | | 295 | 60 | 229 | |
| DN250 | 10" | HL-100 | 350 | 68 | 280 | 159 |
| DN300 | 12° | HL-200 | 400 | 78 | 298 | 159 |
| DN350 | 14" | | 460 | 78 | 340 | |
| DN400 | 6" | | 515 | 102 | 370 | |
| DN450 | 18" | HL-400 | 565 | 114 | 390 | 179 |
| DN500 | 20" | | 620 | 127 | 440 | |
| | | | | | | |



Electric wafer butterfly valve(LQ type)

The integrated structure wafer center line butterfly valve can be used with the HL type electric actuator with input (4-20mADC, 0-10VDC or 1-5VDC) signal or single-phase power supply. It has the characteristics of small size, large flow capacity, high adjustment accuracy, good sealing and light weight. It is widely used in industrial automation control systems in food, environmental protection, light industry, petroleum, papermaking, chemical industry, teaching and scientific research equipment, electric power and other industries.

Applications

- Food
- environmental protection
- Light industry
- Petroleum
- Papermaking
- Chemical industry
- Teaching and scientific research equipment
- Electric power

ASPANIA MARINE

Features

- Small size
- Large flow capacity
- high adjustment accuracy
- good sealing and light weight

Electric wafer butterfly valve

Principle

Based on the Coriolis principle, the measuring tubes are periodically vibrated at a fixed frequency under the action of an alternating current using magnets and coil assemblies mounted on the



measuring tubes and coil assemblies.

When the fluid medium of an industrial process flows through the measuring tubes, the Coriolis force effect, the two measuring tubes will vibrate in torsion. In addition, the vibration frequency of the tubes is determined by the total mass of the tubes and the fluid. Therefore, when the fluid density changes Therefore, when the density of the fluid changes, the vibration frequency will also change accordingly, so that the density value of the fluid in the tube can be derived.

A temperature sensor mounted on the measuring tube monitors the temperature of the fluid in real time.

After obtaining the measurement results, the Transmitter will display the measured values of mass total, density, temperature, etc. through the OLED display, on the other hand, the relevant parameters can be passed through the industry standard 4-20mA current or PWM pulse or RS485 interface output outward, easy to read by host computer or other secondary instruments.

The Transmitter is equipped with light-sensitive explosion-proof buttons, OLED display screen and LED indicator light, which can realize medium measurement, function operation, query and working status display.

| Main Parts | Material | Specifications | Main Parts | Material | Specifications |
|---------------|-------------------|----------------|------------|-----------------|----------------|
| | Ductile Iron | | | Stainless Steel | |
| Valve | Cast Iron | 50mm~800mm | Valve Stem | | 50mm~800mm |
| Body | WCB | | | 45#Carbon Steel | |
| | Stainless Steel | | | | |
| | 304(CF8) | | Valve Seat | EPDM | |
| | 316(CF8M) | | | NBR | |
| Valve Disc | D.I.Plated Nickel | 50mm~800mm | | PTFE | 50mm~800mm |
| | D.I.Coated Nylon | | | Viton | |
| | Alum-bronze | | | SEP | |

| SIZ | Æ | Item | OD1 | L | _ H2 | H1 |
|-------|------|--------|-------------|-----|------|-----|
| mm | inch | | 1.0MPa 1.6M | lPa | | |
| DN50 | 2 | 1040 | 125 | 43 | 363 | 76 |
| DN65 | 21/2 | LQ1-6 | 145 | 46 | 386 | 89 |
| DN80 | 3° | | 160 | 46 | 382 | 94 |
| DN100 | 4° | LQ1-10 | 180 | 52 | 424 | 114 |
| DN125 | 5° | | 210 | 56 | 457 | 127 |

| DN150 | 6° | LQ2-20 | 240 | | 56 | 493 | 140 |
|-------|-----|-----------|-----|-----|-----|------|-----|
| DN200 | 8° | LQ2-24 | 295 | | 60 | 528 | 176 |
| DN250 | 10" | LQ3-50 | 350 | 355 | 68 | 618 | 207 |
| DN300 | 12" | LQ4-110 | 400 | 410 | 78 | 714 | 240 |
| DN350 | 14" | | 460 | 470 | 78 | 745 | 273 |
| DN400 | 16" | LQ4JS-200 | 515 | 525 | 102 | 877 | 322 |
| DN450 | 18" | LQ4JS-250 | 565 | 585 | 114 | 899 | 340 |
| DN500 | 20" | | 620 | 650 | 127 | 957 | 380 |
| DN600 | 24" | LQ4JS-400 | 725 | 770 | 154 | 1201 | 467 |



Electric wafer metal seal butterfly valve

Flexibility with precision U-ring and triple offset metal hard sealing multi-level structure, which is widely used in medium temperature ≤425°C of metallurgical, power, petrochemical, and municipal construction, drainage and industrial pipe, for regulation traffic and fluid truncated. The valve adopt triple offset structure. The sealing face of the valve seat and disc is made of the steel and stainless steel with good corrosion resstance, long service life. With the two-way sealing function, all the products up to the valve pressure test standard of national GB/T 13927-92.

Applications

- Medium temperature≤425°C of metallurgical
- Power
- Petrochemical
- Municipal construction
- Drainage and industrial pipe



Features

- Excellent sealing performance, corrosion resistance, long service life
- Wear resistance
- Installation in any direction

Electric wafer metal seal butterfly valve

Principle

The electric wafer metal - seal butterfly valve operates through the coordinated action of an electric actuator and a precisely engineered mechanical structure. At the core of its operation is an electric



actuator. When an electrical signal is received, the actuator promptly converts electrical energy into mechanical motion. This mechanical force is then transferred to the valve shaft.

The valve shaft is connected to a metal disc, which serves as the flow - controlling element. The valve body and the disc are designed with metal - to - metal sealing surfaces. When the valve is required to open, the electric actuator rotates the valve shaft, causing the disc to turn. As the disc rotates to a position parallel to the flow direction of the pipeline, it allows the fluid or gas to flow through the valve with relatively low resistance.

Conversely, when closing the valve, the actuator rotates the shaft in the opposite direction. The disc gradually moves towards the valve seat. Due to the high - precision machining of the metal - seal components, as the disc comes into contact with the seat, a tight seal is formed, effectively preventing the passage of the medium in the pipeline. This design enables the electric wafer metal - seal butterfly valve to handle high - pressure and high - temperature applications with reliable sealing performance.

| Parameters | | | | | | | |
|-------------------------|----------------------|-------------------------------|---------------|----------|-------------|--|--|
| Nomina diamete | er DN(mm) | DN50~DN600 | | | | | |
| Nominal pressu | re | PN1.0MPa | | PN1.6MPa | | | |
| Nominal | Strength test | PN1.5MPa | | PN2.4MPa | | | |
| pressure | Seal test | PN1.1MPa | | PN1.76MP | а | | |
| Materials/code | name | С | Р | | R | | |
| | Valve Body | WCB | 304 | | 316 | | |
| | Valve Disc | | | | | | |
| Main Parts | Valve Stem | Carbon steel, Stainless Steel | | | | | |
| | O-ring | PTFE、stainless steel | | | | | |
| | Packing | PTFE、flexible graphite | | | | | |
| Applicable Operating | Applicable medium | Water,steam,oils | nitrose | | acetic acid | | |
| Condition | Suitable temperature | WCB:-29℃~425℃ Stainl | ess steel:-40 | ~600℃ | | | |

| SIZ | ZE | Item | 0D1 | OD2 | H2 | H1 |
|-----|------|--------|---------------|---------------|-----|-----|
| mm | inch | | 1.0MPa 1.6MPa | 1.0MPa 1.6MPa | | |
| 50 | 2" | LQ1-10 | 125 | 102 | 443 | 90 |
| 65 | 2.5" | | 145 | 122 | 487 | 110 |
| 80 | 3" | LQ2-16 | 160 | 133 | 523 | 115 |
| 100 | 4" | LQ2-20 | 180 | 158 | 533 | 130 |
| 125 | 5" | LQ2-24 | 210 | 185 | 583 | 150 |

| 150 | 6" | LQ3-35 | 24 | 10 | 2′ | 16 | 671 | 165 |
|-----|-----|--------------|-----|-----|-----|-----|------|-----|
| 200 | 8" | LQ3-50 | 29 | 95 | 27 | 72 | 757 | 210 |
| 250 | 10° | LQ4-110 | 350 | 355 | 320 | 320 | 817 | 245 |
| 300 | 12 | LQ4JS-200 | 400 | 410 | 372 | 372 | 967 | 280 |
| 350 | 14° | LQ4JS-250 | 460 | 470 | 420 | 430 | 1032 | 315 |
| 400 | 16 | 1.0.4.10.400 | 515 | 525 | 480 | 480 | 1209 | 345 |
| 450 | 18" | LQ4JS-400 | 565 | 585 | 535 | 545 | 1274 | 380 |
| 500 | 20 | 1.0.4.10.000 | 620 | 650 | 585 | 610 | 1299 | 415 |
| 600 | 24 | LQ4JS-600 | 725 | 770 | 685 | 720 | 1314 | 460 |



Electric soft seal butterfly valve flanged

Electric flanged soft seal butterfly valve is suitable for temperature≤120 °C, nominal pressure≤1.6MPa of food industry, pharmaceutical, chemical industry, oil,electricity power, textile, paper making and other liquid/gas regulation.

Applications

- Chemical
- Food industry
- Pharmaceutical
- Chemical industry
- Oil
- Electricity power
- Textile
- Paper making

St. Core of Carry Carry

Features

- Design reasonable, unique structure, light weight, open and close quickly
- Operation torque small, easy operation
- Mounted in any position, and easy maintenance
- The seal parts can be replaced, zero leakage of reliable seal performance
- The seal material is anti-aging, corrosion resistance with long life and other characteristics

Electric soft seal butterfly valve flanged

Principle

The electric flanged soft seal butterfly valve is a crucial component in fluid control systems. Its



operation begins when an electric actuator receives an electrical signal. This actuator is the driving force behind the valve's movement. Once the signal is received, the actuator transforms electrical energy into mechanical power.

This mechanical power is then transferred to the valve stem. Attached to the valve stem is a disc made of a soft - sealing material, which is the key to the valve's sealing performance. When the valve needs to be opened, the electric actuator rotates the valve stem. As the stem rotates, the disc also turns and moves to a position parallel to the flow direction of the fluid in the pipeline. This allows the fluid to flow through the valve with minimal resistance.

On the other hand, when the valve is required to close, the actuator rotates the stem in the opposite direction. The disc then rotates until it presses firmly against the valve seat. Thanks to the soft - sealing material of the disc, it can form a tight and reliable seal, preventing any fluid from leaking through the valve, even at relatively low pressures. This way, the electric flanged soft seal butterfly valve can accurately control the flow, start, and stop of fluids in pipelines, making it widely used in various industries where good sealing and flow control are essential.

| Parameters | | | | | | | |
|-------------------------|----------------------|-------------------------------------|--|--|--|--|--|
| Nominal diame | ter DN(mm) | DN50~DN700 | DN50~DN700 | | | | |
| Nominal pressu | ıre | PN1.0MPa | PN1.6MPa | | | | |
| Nominal | Strength test | PN1.5MPa | PN1.6MPa | | | | |
| pressure | Seal test | PN1.1MPa | PN1.76MPa | | | | |
| | Valve Body | Ductile iron、WCB、Stainless Steel | | | | | |
| | Valve Disc | Ductile iron,cast iron,WCB,Stainles | Ductile iron,cast iron,WCB,Stainless steel and special materials | | | | |
| Main Parts | Valve Stem | Carbon steel,Stainless Steel | Carbon steel, Stainless Steel | | | | |
| | O-ring | Rubber,PTFE,EPDM | Rubber,PTFE,EPDM | | | | |
| | Packing | PTFE、flexible graphite | | | | | |
| Applicable Operating | Applicable medium | Water、air、oils,etc. | | | | | |
| Condition | Suitable temperature | ≤120℃ | | | | | |

| SIZ | Έ | Item | OD1 | L | H2 | H1 |
|-------|------|--------|---------------|-----|-----|-----|
| mm | inch | | 1.0MPa 1.6MPa | | | |
| DN50 | 2" | LQ1-6 | 125 | 108 | 331 | 70 |
| DN65 | 21/2 | | 145 | 112 | 355 | 78 |
| DN80 | 3" | | 160 | 114 | 372 | 87 |
| DN100 | 4" | LQ1-10 | 180 | 127 | 394 | 105 |

| DN125 | 5" | | 210 | | 140 | 414 | 120 |
|-------|-----|-----------|-----|-----|-----|-----|-----|
| DN150 | 6" | LQ2-20 | 240 | | 140 | 478 | 134 |
| DN200 | 8" | LQ2-24 | 295 | | 152 | 508 | 163 |
| DN250 | 10" | LQ3-50 | 350 | 355 | 165 | 571 | 202 |
| DN300 | 12" | | 400 | 410 | 178 | 735 | 230 |
| DN350 | 14" | LQ4-110 | 460 | 470 | 190 | 783 | 245 |
| DN400 | 16" | LQ4JS-200 | 515 | 525 | 216 | 852 | 305 |
| DN450 | 18" | | 565 | 585 | 222 | 875 | 345 |
| DN500 | 20" | LQ4JS-250 | 620 | 650 | 229 | 907 | 375 |



Electric metal seal butterfly valve flanged

Electric flanged metal seal butterfly valve use J-shaped elastic seal ring and triple offset metal seal structure, which is widely used in medium temperature ≤425°C of electricity power, petrochemical industry, as well as drainage and other industries of the pipeline for regulating the flow.

Applications

- Electricity power
- Petrochemical industry
- Drainage
- Pipeline industry



Features

- Excellent sealing performance
- Corrosion resistance
- Long service life

Electric metal seal butterfly valve flanged

Principle

The electric flanged metal seal butterfly valve is a sophisticated device for controlling fluid flow. It operates primarily through an electric actuator. When an electrical signal is sent to the actuator, it



converts electrical energy into mechanical motion. This mechanical motion is then transferred to the valve shaft.

The valve shaft is connected to a metal disc, which is the main element for regulating the flow. The valve body and the disc are designed with metal - to - metal sealing surfaces. When the valve is to be opened, the electric actuator rotates the valve shaft, causing the disc to turn and align parallel to the fluid flow direction in the pipeline. As a result, the fluid can flow through the valve with relatively low resistance.

When it comes to closing the valve, the actuator rotates the shaft in the opposite direction. The disc gradually moves towards the valve seat. Due to the high - precision machining and proper design of the metal - seal components, when the disc contacts the seat, a tight and reliable seal is formed. This effectively blocks the passage of the fluid in the pipeline, enabling the valve to handle high - pressure and high - temperature applications, as well as media that demand excellent sealing performance. The flanged connection ensures a secure and leak - proof installation between the valve and the pipeline, facilitating the valve's smooth operation in industrial fluid control systems.

| Parameters | | | | | | | |
|-------------------------|----------------------|--------------------------------------|--|--|--|--|--|
| Nominal diamet | er DN(mm) | DN40~DN600 | DN40~DN600 | | | | |
| Nominal pressu | re | 0-1.6MPa | | | | | |
| Nominal | Strength test | PN1.5MPa | PN1.6MPa | | | | |
| pressure | Seal test | PN1.1MPa | PN1.76MPa | | | | |
| | Valve Body | Ductile iron、WCB、Stainless Steel | | | | | |
| | Valve Disc | Ductile iron,cast iron,WCB,Stainless | Ductile iron,cast iron,WCB,Stainless steel and special materials | | | | |
| Main Parts | Valve Stem | Carbon steel,Stainless Steel | Carbon steel, Stainless Steel | | | | |
| | O-ring | Rubber,PTFE,EPDM | | | | | |
| | Packing | PTFE、flexible graphite | | | | | |
| Applicable Operating | Applicable medium | Water、steam、oils、nitrose、aceti | c acid,etc. | | | | |
| Condition | Suitable temperature | Carbon steel:-29℃~425℃ Stainless | steel:-40°C~650°C | | | | |

| SIZ | SIZE Item | | OD1 OD2 | | H2 | H1 |
|-----|-----------|---------|---------------|---------------|-----|-----|
| mm | inch | | 1.0MPa 1.6MPa | 1.0MPa 1.6MPa | | |
| 40 | 13/4 | 1.04.40 | 110 | 150 | 443 | 90 |
| 50 | 2° | LQ1-10 | 125 | 165 | 443 | 90 |
| 65 | 2.5" | | 145 | 185 | 487 | 105 |
| 80 | 3° | LQ2-16 | 160 | 200 | 523 | 120 |

| 100 | 4° | LQ2-20 | 18 | 30 | 22 | 20 | 533 | 130 |
|-----|-----|-----------|-----|-----|-----|-----|------|-----|
| 125 | 5° | LQ2-24 | 21 | 10 | 25 | 50 | 583 | 164 |
| 150 | 6" | LQ3-35 | 24 | 10 | 28 | 35 | 671 | 175 |
| 200 | 8" | LQ3-50 | 29 | 95 | 34 | 10 | 757 | 200 |
| 250 | 10" | LQ4-110 | 350 | 355 | 395 | 405 | 817 | 243 |
| 300 | 12" | LQ4JS-200 | 400 | 410 | 445 | 460 | 967 | 250 |
| 350 | 14" | LQ4JS-250 | 460 | 470 | 505 | 520 | 1032 | 280 |
| 400 | 16" | LQ4JS-400 | 515 | 525 | 565 | 580 | 1209 | 305 |
| 450 | 18" | | 565 | 585 | 615 | 640 | 1274 | 350 |
| 500 | 20" | LQ4JS-600 | 620 | 650 | 670 | 715 | 1299 | 380 |
| 600 | 24" | | 725 | 770 | 780 | 840 | 1314 | 445 |



Electric PVC butterfly valve

Mass flow meter is a new type of advanced flow measurement instrument and has been rapidly developed in the world. It has been widely used for process detection and custody transfer measurement in many industries such as petroleum, petrochemical, chemical, pharmacy, marine, pharmaceutical, municipal, paper, food and energy and so on. It has been highly valued by the flow research community and welcomed by users at home and abroad. Are used in conjunction with BPM Transmitters to provide accurate instantaneous flow, flow totals, and real-time monitoring of density and temperature.

Applications

- General water and raw water piping system
- Drainage and sewage piping systems
- Salt water and sea water piping systems
- PH and chemical solution system



Features

- Light weight, corrosion resistance
- Excellent strength and toughness
- Excellent chemical corrosion resistance
- Flame retardant is self-extinguishing
- Low thermal conductivity, about 1/200 of steel
- Hygiene indicators meet national health standards
- The pipe wall is smooth and clean, and produces less friction and adhesion when conveying fluids
- Easy to install
- Excellent anti-aging and anti-ultraviolet performance, long service life

Electric PVC butterfly valve

Principle



The electric PVC butterfly valve operates on a principle that combines electrical control with mechanical movement. At the heart of its functionality is an electric actuator. When an electrical signal is transmitted to the actuator, it transforms electrical energy into mechanical force. This mechanical force is then transferred to the valve shaft.

The valve shaft is connected to a disc made of PVC (Polyvinyl Chloride), which is the main component for regulating the flow of fluid. When the valve is commanded to open, the electric actuator rotates the valve shaft, causing the disc to turn until it is parallel to the direction of fluid flow. This allows the fluid to pass through the valve with minimal obstruction, enabling a smooth flow through the pipeline. Conversely, when the valve needs to be closed, the actuator rotates the shaft in the opposite direction. The disc then moves to a position perpendicular to the fluid flow, effectively blocking the passage of the fluid. The PVC material of the valve offers corrosion - resistance, making it suitable for handling a variety of fluids in applications where chemical resistance is required. Through this mechanism, the electric PVC butterfly valve can precisely control the start, stop, and flow rate of fluid in the pipeline system.

| Parameters | |
|-------------------------|---|
| Nominal diameter DN(mm) | DN50~DN300 |
| End connection | Wafer |
| Valve body material | UPVC(-10℃~+70℃)、CPVC(-40℃~+95℃)、 RPP(-14℃~+100℃)、 PVDF(-40℃~+140℃) |
| Disc material | UPVC(-10℃~+70℃)、CPVC(-40℃~+95℃)、 RPP(-14℃~+100℃)、 PVDF(-40℃~+140℃) |
| Sealing material | PTFE、EPDM、NBR |
| Applicable medium | PVC chemical solvent compatible food industry |

| SIZE | Item | D1 | D2 | H2 | H1 |
|-------|--------|--------|--------|-----|-----|
| mm | | 1.0MPa | 1.0MPa | | |
| DN50 | LQ1-6 | 125 | 165 | 333 | 82 |
| DN65 | | 145 | 185 | 344 | 92 |
| DN80 | | 160 | 200 | 388 | 100 |
| DN100 | LQ1-10 | 180 | 220 | 404 | 110 |
| DN125 | | 210 | 249 | 439 | 124 |
| DN150 | LQ2-20 | 240 | 283 | 486 | 142 |
| DN200 | LQ2-24 | 295 | 340 | 532 | 170 |
| DN250 | LQ3-50 | 350 | 395 | 603 | 198 |
| DN300 | LQ4-80 | 410 | 460 | 817 | 230 |



Electric sanitary butterfly valve

Sanitary butterfly valves are suitable for applications with high hygiene requirements, such as food, beverages, pharmaceuticals, dairy products, beer and chemicals.

Applications

- Food
- Beverages
- Pharmaceuticals
- Dairy products
- Beer and chemicals



Features

- Valve body and valve bore touched with medium are 304,316 or 316L
- Removable valve body, simple structure, easy maintenance.
- Design beautful,surface smooth,without burrs
- End connection:weld,clamp,thread
- Product Quality:polishing treatment to meet surface accuracy requirements
- Product accuracy:In compliance with 3A, DIN, SMS, BS standard.

Electric sanitary butterfly valve

Principle



The electric sanitary butterfly valve is a key component in hygienic fluid control systems. Its operation is driven by an electric actuator. When an electrical signal is received by the actuator, it converts the electrical energy into mechanical motion. This mechanical motion is then transferred to the valve shaft. The valve shaft is connected to a disc, which is the main part for controlling the fluid flow. In sanitary applications, where maintaining a high - level of cleanliness and preventing contamination is crucial, the valve is designed with smooth surfaces and materials that meet strict sanitary standards. When the valve is required to open, the electric actuator rotates the valve shaft, causing the disc to turn and align parallel to the direction of the fluid flow in the pipeline. This allows the fluid, such as food products, pharmaceuticals, or clean water, to pass through the valve with minimal resistance and without causing any damage to the media.

To close the valve, the actuator rotates the shaft in the opposite direction. The disc then moves to a position perpendicular to the fluid flow, effectively blocking the passage of the fluid. The tight - fitting seal between the disc and the valve seat ensures that there is no leakage, which is essential for maintaining the integrity of the sanitary process. Through this simple yet effective mechanism, the electric sanitary butterfly valve provides accurate and reliable control of fluid flow in sanitary environments.

| Parameters | |
|-------------------------|---|
| Nominal diameter DN(mm) | DN15~DN150 |
| Nominal pressure | 1.0MPa |
| Suitable temperature | -10℃~150℃ |
| Suitable medium | Liquid ,gas,oil,Various corrosion chemistry mediums |
| Valve body material | 304、316、316L |
| Valve bore material | 304、316、316L |
| Seal material | Silicon rubber,EPDM,FPM |
| Nominal diameter DN(mm) | DN15~DN150 |
| Nominal pressure | 1.0MPa |
| Suitable temperature | -10℃~150℃ |
| Suitable medium | Liquid ,gas,oil,Various corrosion chemistry mediums |
| Valve body material | 304、316、316L |
| Valve bore material | 304、316、316L |
| Seal material | Silicon rubber,EPDM,FPM |

| SIZE | ltem | D1 | D | Н | H1 |
|------|--------|------|------|-----|------|
| mm | | | | | |
| 019 | | 16.5 | 50.5 | 298 | 38.5 |
| 025 | | 22 | 50.5 | 298 | 38.5 |
| 032 | | 29 | 50.5 | 298 | 38.5 |
| 038 | | 35 | 50.5 | 300 | 39.5 |
| 045 | | 40 | 64 | 302 | 44 |
| 051 | LQ1-10 | 48 | 64 | 305 | 47 |
| 063 | | 59 | 77.5 | 312 | 55.5 |
| 076 | | 72 | 91 | 318 | 61.5 |
| 089 | | 85 | 106 | 322 | 69.5 |
| 0102 | | 99 | 119 | 349 | 77.5 |
| 0133 | | 125 | 145 | 164 | 93 |
| 0159 | | 151 | 183 | 380 | 107 |



Electric Lined Fluorine butterfly valve

D971F46/D941F46 electric lined Fluorine butterfly valve has two kinds of control methods ON-OFF and Modulating control. Electric actuator can work when the control signal (4- 20mADC or 1-5 VDC) and single-phase power supply to be input, this kind of butterfly valve has a strong function with small size, reliable performance, high flow capacity. Valve body, valve disc and valve stem all lined with Fluorine, with excellent corrosion resistance, suitable for any concentrations of liquid such as acid, alkali, salt and oxidants, and used at chemical, petroleum, pharmaceutical, food, iron and steel smelting, paper making, water treatment and other systems like gas, liquid. The products can be widely used in some areas to instead of the gate valve, globe valve and other types of shut-off or control valves.

Applications

- Acid
- Alkali
- Salt, oxidants
- Chemical
- Petroleum, pharmaceutical
- Food, iron and steel smelting
- Paper making
- Water treatment and other systems like gas

BOR ANTICLA CANADA CANA

Features

- Convenient man-machine interface
- Small and lightweight, easy to disassemble and maintain, and can be installed in any location
- simple and compact, open and close quickly
- Operating toque is small, easy to operate
- Flow characteristics tend to be straight line, good in regulation
- Valve seat with anti-aging, corrosion resistance

Electric Lined Fluorine butterfly valve

Principle

The electric lined fluorine butterfly valve is a specialized device designed for handling corrosive fluids.



Its operation hinges on an electric actuator. When an electrical signal is sent to the actuator, it converts electrical energy into mechanical movement. This mechanical force is then transferred to the valve shaft.

The valve shaft is connected to a disc. The interior of the valve body is lined with fluorine - based materials, which offer excellent chemical resistance. When the valve needs to open, the electric actuator rotates the valve shaft, causing the disc to turn and align parallel to the flow direction of the fluid. As a result, the corrosive fluid can flow through the valve with relatively low resistance, as the fluorine lining protects the valve body from the corrosive action of the fluid.

When closing the valve, the actuator rotates the shaft in the opposite direction. The disc gradually moves towards the valve seat. Once the disc makes contact with the seat, a tight seal is formed due to the precision - engineered design. This effectively blocks the flow of the corrosive fluid, preventing any leakage. In this way, the electric lined fluorine butterfly valve can accurately control the flow and shut - off of highly corrosive media in industrial pipelines.

| Parameters | | | | | | |
|------------------------------------|--|---------------------------|--|--|--|--|
| Nominal diameter range | DN10~DN350 | | | | | |
| Measuring range | Mass flow, mass total, volume flow, volume total, temperature, density | | | | | |
| Pressure level | Standard configurations are 1.6MPa and 4.0MPa, supporting customer-specific customized pressure levels. The maximum pressure can reach 25MPa | | | | | |
| Mass flow technical indicators | Accuracy | ±0.1%,±0.15%,±0.25%,±0.5% | | | | |
| | Repeatability | ±0.025% | | | | |
| Density Performance Index (Liquid) | Density error | ±0.0005g/cm³ | | | | |
| | Repeatability | ±0.0001g/cm³ | | | | |
| , | Measuring range | (0.2~2.0)g/cm³ | | | | |
| Temperature measurement range | (-240~204)°C | | | | | |
| Ambient temperature | (-40~60)° C | | | | | |
| Explosion-proof level | Sensor | Ex ib IIC T1~T6 Gb | | | | |
| | Launcher | Ex d [ib] IIC T4 Gb | | | | |
| Protection level | Sensor | IP67 | | | | |
| | Launcher | IP65 | | | | |
| Signal output | Pulse, 4-20mA, RS-485 communication | | | | | |
| Power | 24VDC and 220VAC adaptive | | | | | |

| SIZ | E | ltem | D2 | L | H1 | H2 |
|-------|------|-----------|-----|-----|-----|-----|
| mm | inch | | | | | |
| DN50 | 2 | LQ1-10 | 125 | 43 | 114 | 223 |
| DN65 | 21/2 | | 145 | 46 | 126 | |
| DN80 | 3 | | 160 | 46 | 135 | |
| DN100 | 4° | LQ2-20 | 180 | 52 | 148 | 261 |
| DN125 | 5° | | 210 | 56 | 168 | |
| DN150 | 6° | LQ3-50 | 240 | 56 | 180 | 315 |
| DN200 | 8 | | 295 | 60 | 229 | |
| DN250 | 10° | LQ4-110 | 350 | 68 | 280 | 353 |
| DN300 | 12 | LQ4JS-250 | 400 | 78 | 298 | 457 |
| DN350 | 14° | | 460 | 78 | 340 | |
| DN400 | 16 | | 515 | 102 | 370 | |
| DN450 | 18° | LQ4JS-400 | 565 | 114 | 390 | 575 |
| DN500 | 20° | | 620 | 127 | 440 | |