



# Regulating Valve Selection Manual



# About Grat

Wuhan Grat Control Valve Co., Ltd. is a professional R & D and manufacturing enterprise specializing in industrial automation control valves and actuators. Founded in 2006 and located in Wuhan Optics Valley, the company holds independent import and export qualifications and offers products that comply with both international and domestic market standards.

## Our Management

- ◎ Certified with Integrated Management Systems (ISO 9001, ISO 14001, ISO 45001)
- ◎ High - tech enterprise
- ◎ Conducts over 100 process inspection items
- ◎ Holds CE certification, explosion - proof certification, CCC certification
- ◎ Adopts CRM and ERP systems for management
- ◎ Holds SIL certification
- ◎ Implements 6S management and conducts RoHS testing; holds TS certification

## Customer Structure

- ◎ Serves over 1,500 customers in the industrial sector.
- ◎ More than 20% of these customers are listed companies and industry leaders.
- ◎ Has customers distributed in over 20 countries in overseas markets.

## Value Proposition

- ◎ Simplify Complexity, Ensure Reliable Performance
- ◎ 100,000 Fault-Free Operations with Maintenance-Free Design

## Our Technology

- ◎ Employs a professional R & D team with extensive industry experience
- ◎ Adopts a dual - system talent training system
- ◎ Secures an average of 2 new patents annually

## Industry Channels

- ◎ Environmental protection, water treatment, central air conditioning
- ◎ Electric power, petroleum, natural gas, papermaking
- ◎ Oil refining, food, brewing, beverages
- ◎ Chemical industry, petrochemical industry, pharmaceutical industry, metallurgy
- ◎ Clean energy, biological fermentation

## Our Products

- ◎ Industrial automatic control valves and actuators

# Contents

|                                               |     |
|-----------------------------------------------|-----|
| Control Valve Selection Factors .....         | 01  |
| Selection Table .....                         | 03  |
| Valve Documents .....                         | 05  |
| IoT Series Control Valves .....               | 05  |
| Soft-seated Butterfly Valves .....            | 13  |
| PTFE Lined Butterfly Valves .....             | 19  |
| Metal-seated Butterfly Valves .....           | 23  |
| UPVC Butterfly Valves .....                   | 30  |
| Ventilation Butterfly Valves .....            | 34  |
| V-port Control Valves .....                   | 37  |
| Metal-seated Ball Valves .....                | 45  |
| PTFE Lined Ball Valves .....                  | 52  |
| Flanged Ball Valves .....                     | 55  |
| Ultra-short Flanged Ball Valves .....         | 59  |
| Internal Thread Ball Valves .....             | 63  |
| Plastic Anti-corrosion Ball Valves .....      | 67  |
| Three-way Ball Valves .....                   | 72  |
| Low-flow Electric Control Valves .....        | 79  |
| Quick-opening Valves .....                    | 81  |
| Single-seat Control Valves .....              | 85  |
| High Pressure Plug Valves .....               | 89  |
| Wind-solar Complementary Control Valves ..... | 91  |
| Circuit Diagrams .....                        | 93  |
| Engineering Data .....                        | 95  |
| Company Qualifications .....                  | 103 |
| Project Cases .....                           | 105 |

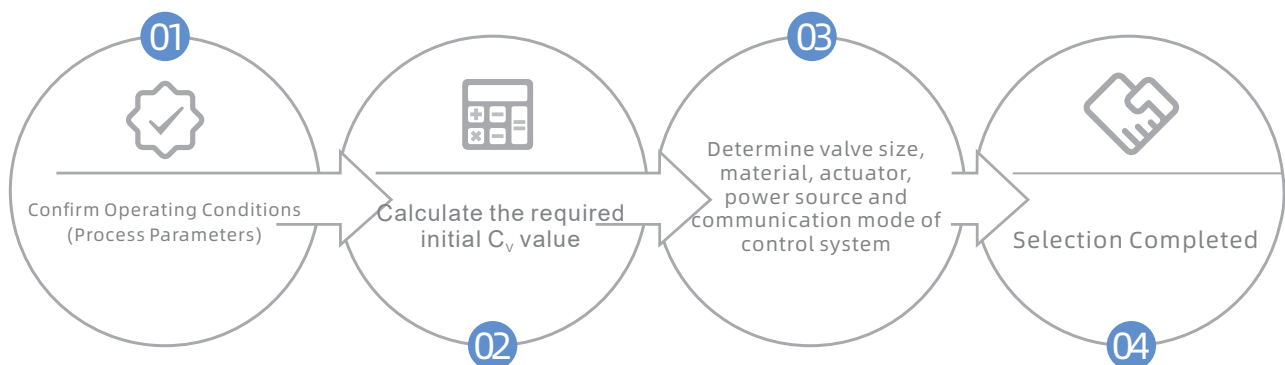
# Brief Introduction to Regulating Valve Selection Factors

Regulating valve, also known as control valve, is a vital fluid control component in modern manufacturing industry. Proper selection can boost efficiency, ensure production safety, save energy and raise economic benefits for industrial control systems.

The following process parameters help select the most suitable control valve for working conditions:

- Type of controlled fluid
- Fluid temperature
- Fluid viscosity
- Fluid specific gravity
- Required flow capacity (max. & min.)
- Valve inlet pressure (max. & min.)
- Valve outlet pressure (max. & min.)
- Pressure drop under normal flow
- Pressure drop in closed state
- Maximum allowable noise level
- Pipe diameter and wall thickness of inlet & outlet
- Valve body material
- Instrument signal (4-20mA, 0~10V, etc.)
- Valve size
- Valve body structure
- Required actuator size (optimal driving torque: 1.2~1.5 times of calculated value)
- Driving power: electric, pneumatic, electro-hydraulic
- Other technical requirements (explosion-proof, etc.)
- Other technical requirements (e.g. explosion-proof requirement, etc.)

## Selection Process:



## Regulating Valve Selection

There are various types of bodies for regulating valves. The commonly used types include straight-through single-seat, straight-through double-seat, angle, diaphragm, small flow, three-way, eccentric rotary, butterfly, cage and ball types. Please refer to the following points for selection:

### Spool profile and structure

It is mainly determined by the selected flow characteristic, unbalanced force and other factors.

### Wear resistance

For suspensions containing high-concentration abrasive particles, hard materials shall be adopted for valve internal components.

### Corrosion resistance

For corrosive media, valves with simple structure are preferred.

### Medium temperature and pressure

When the medium features high temperature, high pressure and large fluctuation, select valves whose plug and seat materials are less affected by temperature and pressure variations.

### Prevention of flashing and cavitation

Flashing and cavitation only occur in liquid media. In practical operation, they cause vibration and noise and reduce valve service life. Therefore, relevant measures shall be taken to avoid flashing and cavitation during valve selection.

## Selection of Actuators for Regulating Valves

To ensure normal operation of regulating valves, the matched actuator must deliver sufficient output force for tight sealing and full valve opening.

Double-acting pneumatic, hydraulic and electric actuators are generally not equipped with return springs, and their output force is independent of travel direction. The key selection criteria are maximum output force and motor torque.

For single-acting pneumatic actuators, output force varies with valve travel. Forces acting on the valve will affect its operating performance, so force balance shall be maintained across the full stroke range.

## Determination of Actuator Type

After confirming the actuator output force, select the appropriate type according to site operating conditions. Pneumatic actuators are preferred for explosion-proof environments. Electric actuators are recommended for energy saving. Hydraulic actuators apply to applications requiring high regulation accuracy, such as turbine speed control in power plants and temperature control of reactors in refinery catalytic units.

## Selection of Actuating Mode for Regulating Valves

Actuating mode of regulating valves applies only to pneumatic actuators, which is combined by the direct/reverse action of actuators and valves. There are four combinations: direct-direct (air-to-close), direct-reverse (air-to-open), reverse-direct (air-to-open), reverse-reverse (air-to-close). Only two final actuating modes are available: air-to-open and air-to-close.

Selection shall be based on three factors: (a) Process safety (b) Medium properties (c) Product quality and minimum economic loss

## Conversion between $K_v$ and $C_v$ Values

Overseas flow coefficient is generally denoted as  $C_v$ , which is defined under different conditions from domestic  $K_v$ .  $C_v$  refers to the flow rate (gallons per minute) of 60°F clean water passing through a fully open regulating valve, with a pressure difference  $\Delta P$  of 1 psi across the valve. Due to different definitions, the measured values of  $K_v$  and  $C_v$  differ. The conversion formula is:  $C_v = 1.156 K_v$

# Selection Table

## GRAT Control Valve Model Coding & Specification Description

A V - 50 PCU N 16 K Y P P F Y - BT  
 1 2 3 4 5 6 7 8 9 10 11 12 13

AV-50PCUN16KYPPFY-BT

### 1、Actuation Types of Control Valves

|      |          |           |     |
|------|----------|-----------|-----|
| Code | E        | A         | W   |
| Name | Electric | Pneumatic | IoT |

### 2、Valve Construction

|                           |                   |                                   |                                        |                             |                                  |                   |                   |                      |
|---------------------------|-------------------|-----------------------------------|----------------------------------------|-----------------------------|----------------------------------|-------------------|-------------------|----------------------|
| V                         | K                 | HV                                | B                                      | BT                          | B3                               | P                 | N                 | T                    |
| V-port Control Ball Valve | O-port Ball Valve | Metal-seated V-port Control Valve | Concentric Soft-seated Butterfly Valve | Ventilation Butterfly Valve | Triple Eccentric Butterfly Valve | Single-seat Valve | Double-seat Valve | Three-way Ball Valve |

### 3、Nominal Diameter DN (mm) (Reference Installation Dimensions)

### 4、Control Circuit (Reference Circuit Diagram)

| Code | PCU                                     | On/Off & Shut-off Control |                               |                       |                        |                                |
|------|-----------------------------------------|---------------------------|-------------------------------|-----------------------|------------------------|--------------------------------|
|      |                                         | S                         | MS                            | PIU                   | CPT                    | SP                             |
| Name | Proportional Control Valve (I/O:4~20mA) | On-Off Action             | With Passive Contact Feedback | 1kΩ Resistor Feedback | On-Off / 4~20mA Output | 1kΩ + Passive Contact Feedback |

### 5、Medium Temperature

|      |       |       |       |
|------|-------|-------|-------|
| Code | N     | M     | H     |
| Name | ≤120℃ | ≤220℃ | ≤450℃ |

### 6、Nominal Pressure (MPa)

|      |     |     |     |     |     |      |      |      |      |
|------|-----|-----|-----|-----|-----|------|------|------|------|
| Code | 10  | 16  | 25  | 40  | 64  | 100  | 160  | 200  | 400  |
| Name | 1.0 | 1.6 | 2.5 | 4.0 | 6.4 | 10.0 | 16.0 | 20.0 | 40.0 |

### 7、Pneumatic Action Mode (Electric type omitted)

|      |                           |                            |
|------|---------------------------|----------------------------|
| Code | K                         | B                          |
| Name | Single-acting Air-to-Open | Single-acting Air-to-Close |

### 8、Seat Seal Type

|      |            |           |
|------|------------|-----------|
| Code | Y          | R         |
| Name | Metal Seat | Soft Seat |

## 9、Valve Body Material

|      |      |     |     |      |                                         |
|------|------|-----|-----|------|-----------------------------------------|
| Code | C    | P   | R   | RL   | Note: Special materials to be confirmed |
| Name | ZG25 | 304 | 316 | 316L |                                         |

## 10、Valve Plug Material

|      |      |     |     |      |                                         |
|------|------|-----|-----|------|-----------------------------------------|
| Code | C    | P   | R   | RL   | Note: Special materials to be confirmed |
| Name | ZG25 | 304 | 316 | 316L |                                         |

## 11、Connection Type & Standards

|      |                     |                       |          |
|------|---------------------|-----------------------|----------|
| Code | D                   | F                     | S        |
| Name | Wafer, JB/T 81-2015 | Flanged, JB/T 81-2015 | Threaded |

## 12、Power Supply (Default: AC220V)

|      |        |       |
|------|--------|-------|
| Code | AC380V | DC24V |
| Name | Y      | G     |

## 13、Explosion-proof Rating (Default: No Explosion-proof Requirement)

|      |                          |                           |
|------|--------------------------|---------------------------|
| Code | Ex                       | BT                        |
| Name | Electric Explosion-proof | Pneumatic Explosion-proof |



## Control Valve Selection Tool

This valve selection tool is independently designed and developed by Great. It is easy to operate with no technical barriers, and can be used conveniently simply by scanning the QR code.

# IoT Valve



## Product Introduction:

IoT Valve is a compact intelligent fluid control device with cutting-edge technology. Adopting an integrated compact design, it supports multiple connection types and media compatibility. It enables remote monitoring, precise regulation and status feedback, widely applied in industrial automation, water treatment, HVAC and other scenarios, delivering efficient and intelligent control solutions for fluid systems.

## Product Features:

- **Easy Installation & Wide Compatibility:** Compact size saves space; multiple connection options available for simple installation and maintenance, fitting various site layouts.
- **Remote Intelligent Management:** Remote operation via mobile phone or PC anytime anywhere; real-time operating data transmission, no on-site duty required.
- **High Precision & Stable Performance:** Equipped with high-precision actuator and intelligent algorithm, featuring high control accuracy and reliable sealing, suitable for complex working conditions.
- **Safe & Low-maintenance Operation:** Supports early fault warning and traceable data, reducing labor costs and safety risks while extending service life.

# Internal Threaded IoT Electric Ball Valve

## Product Description

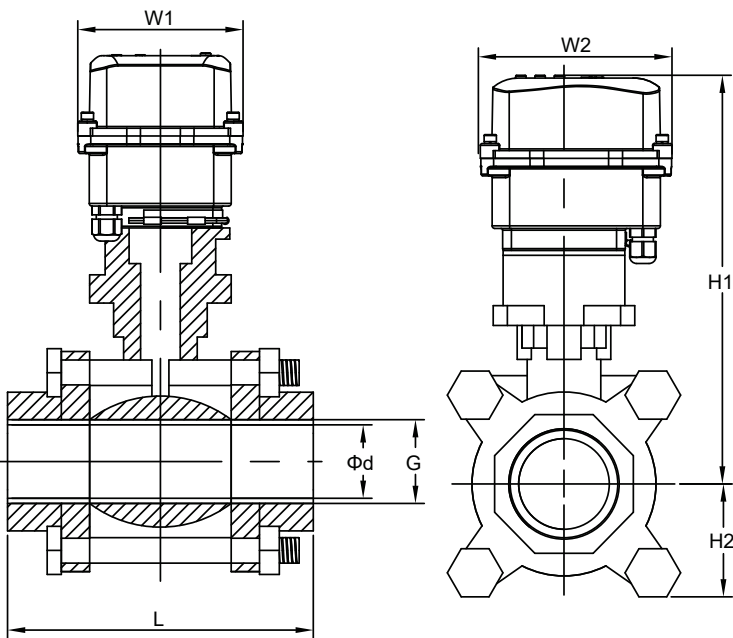
Internal Thread IoT Electric Ball Valve suits space-constrained process scenarios, widely applied in air conditioning, fire protection, water treatment, pipeline purging, analytical instruments and flue gas sampling industries.

## Main Performance Specifications

- Nominal Diameter: DN15~DN40
- Nominal Pressure: 1.6MPa
- Medium Temperature: -30°C~220°C
- Ingress Protection: Ip65
- Applicable Media: Neutral gas and liquid
- Manufacturing Standard: GB12237-2021, API 6D
- Inspection Standard: API 598



## Installation Dimension Drawing



## Product Features

- Suitable for on-off and regulating control modes.
- Special PTFE sealing design ensures excellent self-lubrication with low friction against the ball, effectively extending service life.
- Threaded connection is a widely used detachable joint. It can be directly connected to the pipeline with fewer components, offering cost-effective and practical advantages.

| Size<br>(mm) | L   | G                                                                | Φd | H2 | H1    | W1   | W2   |
|--------------|-----|------------------------------------------------------------------|----|----|-------|------|------|
| 15           | 73  | Thread<br>Connection<br>Standard<br><br>NPT<br>BSP<br>DIN<br>etc | 15 | 38 | 130   | 68.5 | 88.5 |
| 20           | 80  |                                                                  | 20 | 45 | 131.5 | 68.5 | 88.5 |
| 25           | 90  |                                                                  | 25 | 55 | 156   | 93   | 108  |
| 32           | 110 |                                                                  | 32 | 60 | 170   | 93   | 108  |
| 40           | 120 |                                                                  | 38 | 75 | 179   | 93   | 108  |

# Short Flange IoT Electric Ball Valve

## Product Description

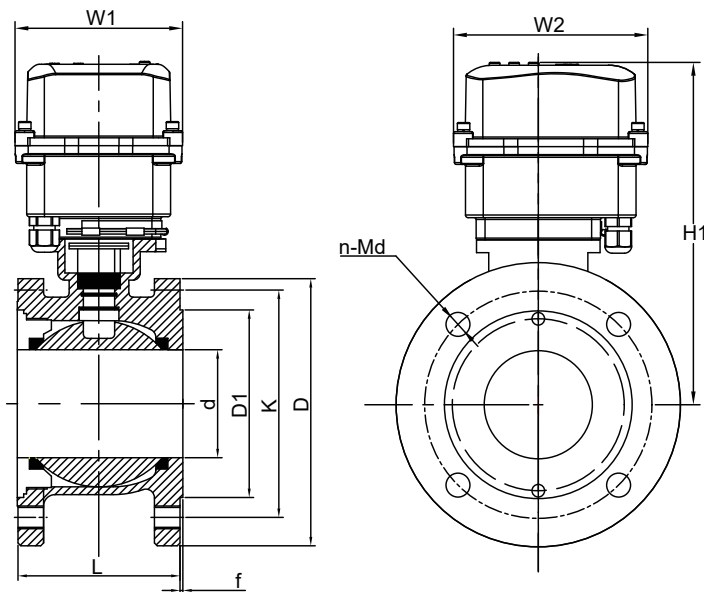
Short flange IoT Electric Ball Valve integrates actuator and ball valve as a whole. It adopts integrated structure with built-in self-lubricating valve seat sealing, compact design and small size. It has stable performance and is widely applicable to industrial pipelines.

## Main Performance Specifications

Nominal Diameter: DN15~DN40  
Nominal Pressure: 1.0MPa~1.6MPa  
Medium Temperature: -20°C~350°C (200°C for special sealing)  
Protection Grade: IP65  
Applicable Media: Water, petroleum, nitric acid, acetic acid, viscous fluid, strong oxidizing medium, etc.  
Manufacturing Standard: GB/T 12221-2005, GB12237-2021, API 6D  
Inspection Standard: API 598  
Flange Standard: JB/T 79-2015, GB/T 9124.1-2019, GB/T 9124.2-2019, ANSI B16.5, JIS B2239



## Installation Dimension Drawing



## Product Features

- Adopt double-face sealing, achieving zero-leakage grade.
- Featured short-flange design with compact structure; the distance between the valve seat and end flange is minimized, reducing medium retention and delivering excellent tightness. It is about 50% lighter than conventional ball valves, with small overall size.
- Available with rectangular, V-shaped, O-shaped and other bore configurations.

| Size |        | d  | D1 | K   | D   | n-Md  | f | L  | H1    | W1   | W2   |
|------|--------|----|----|-----|-----|-------|---|----|-------|------|------|
| mm   | in     |    |    |     |     |       |   |    |       |      |      |
| DN15 | 1/2"   | 15 | 45 | 65  | 95  | 4-M12 | 2 | 35 | 137.5 | 68.5 | 88.5 |
| DN20 | 3/4"   | 19 | 55 | 75  | 105 | 4-M12 | 2 | 38 | 143.5 | 68.5 | 88.5 |
| DN25 | 1"     | 25 | 65 | 85  | 115 | 4-M12 | 2 | 50 | 165   | 98   | 108  |
| DN32 | 1 1/4" | 28 | 76 | 100 | 140 | 4-M12 | 2 | 50 | 172   | 93   | 108  |
| DN40 | 1 1/2" | 38 | 83 | 110 | 148 | 4-M16 | 3 | 67 | 182   | 93   | 108  |

# Flanged IoT Electric Ball Valve

## Product Description

Flange-type IoT electric ball valve uses an IoT actuator to drive the valve stem and perforated segment ball. The ball rotates to open and close the valve, featuring compact size, light weight and easy pipeline installation compared with standard ball valves.

## Main Performance Specifications

Nominal Diameter: DN15 ~ Dn40

Nominal Pressure: 1.6 MPa ~ 6.4 MPa

Medium Temperature: -20 °C ~ +350 °C (up to +200 °C for special sealing)

Ingress Protection Grade: IP65

Applicable Media: Water, petroleum, nitric acid series, viscous fluid, strong oxidizing medium

Manufacturing Standard: GB12237-2021, API 6D

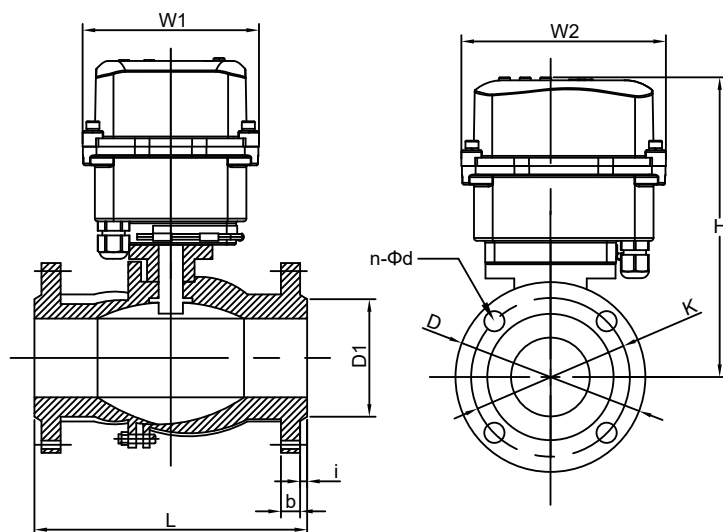
Face-to-Face Dimension Standard: GB/T 12221-2005

Inspection Standard: API 598

Flange Standard: JB/T 79-2015, GB/T 9124.1-2019, GB/T 9124.2-2019, ANSI B16.5, JIS B2239



## Installation Dimension Drawing



## Product Features

- Double-sided spherical sealing design, achieving zero leakage grade.
- Specially designed PTFE sealing features good self-lubrication, low friction loss with the ball, and effectively extends service life.
- O-type shut-off ball valve provides excellent shut-off performance.
- Ball valve passage shapes include rectangular, V-shaped and O-shaped.

| Size |        | L   | D   | K   | D1 | n-Φd  | b  | i | H     | W1   | W2   |
|------|--------|-----|-----|-----|----|-------|----|---|-------|------|------|
| mm   | in     |     |     |     |    |       |    |   |       |      |      |
| DN15 | 1/2"   | 130 | 95  | 65  | 45 | 4-Φ14 | 14 | 2 | 136.5 | 68.5 | 88.5 |
| DN20 | 3/4"   | 130 | 105 | 75  | 55 | 4-Φ14 | 16 | 2 | 138.5 | 68.5 | 88.5 |
| DN25 | 1"     | 142 | 113 | 85  | 65 | 4-Φ14 | 18 | 2 | 160.5 | 98   | 108  |
| DN32 | 1 1/4" | 165 | 140 | 100 | 78 | 4-Φ18 | 18 | 2 | 175   | 93   | 108  |
| DN40 | 1 1/2" | 165 | 150 | 110 | 85 | 4-Φ18 | 18 | 2 | 176   | 93   | 108  |

# Flanged IoT Electric Three-way Ball Valve

## Product Description

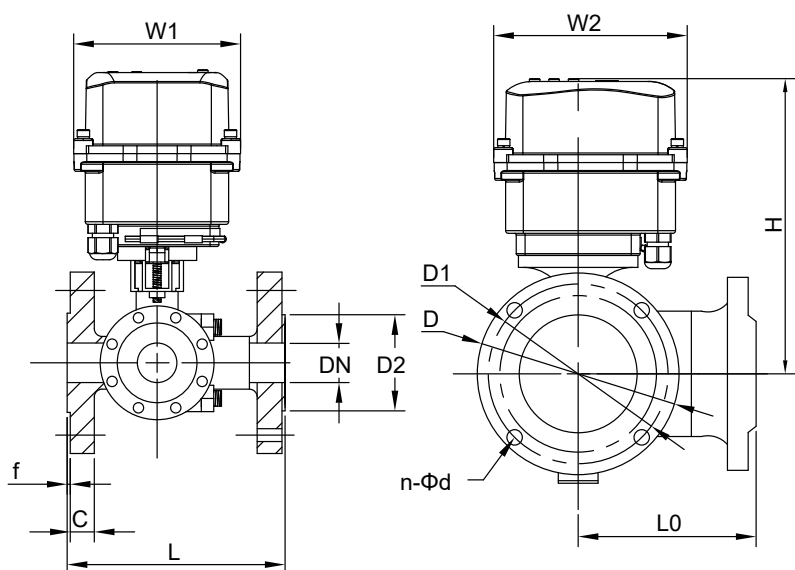
Flange-type IoT electric three-way ball valve with L/T bore for diversion, confluence and reversal. Flange connection: reliable sealing, easy assembly. Compact, supports remote control and monitoring, corrosion-resistant, suitable for petroleum, chemical and water treatment automation.

## Main Performance Specifications

- Nominal Diameter: DN15 ~ DN40
- Nominal Pressure: 0.1MPa ~ 1.6MPa
- Medium Temperature: 0°C ~ 120°C
- Protection Grade: IP65
- Applicable Media: Food, Grease, Fibrous Fluid
- Manufacturing Standards: GB12237-2021, API 6D
- Face-to-Face Dimension Standard: GB/T12221-2005
- Inspection Standard: API 598
- Flange Standards: JB/T 79-2015, GB/T 9124.1-2019, GB/T 9124.2-2019, ANSI B16.5, JIS B2239



## Installation Dimension Drawing



## Product Features

- Suitable for various control modes such as on-off and regulating operation.
- ◎ Specially designed PTFE sealing features excellent self-lubricating property, low friction loss with the ball, effectively extending the service life of the product.
- ◎ Threaded connection is a widely used detachable fixed connection. Compared with other connection forms, it requires fewer components and can be directly connected to pipelines, which is economical and practical.

| Size(mm) | L   | L0  | D2 | C  | f | D   | D1  | H     | n-Φd  | W1   | W2   |
|----------|-----|-----|----|----|---|-----|-----|-------|-------|------|------|
| DN15     | 150 | 75  | 45 | 14 | 2 | 95  | 65  | 143.5 | 4-Φ14 | 68.5 | 88.5 |
| DN20     | 160 | 80  | 55 | 14 | 2 | 105 | 75  | 162   | 4-Φ14 | 93   | 108  |
| DN25     | 180 | 90  | 65 | 14 | 2 | 115 | 85  | 178   | 4-Φ14 | 93   | 108  |
| DN32     | 200 | 100 | 78 | 16 | 2 | 135 | 100 | 187   | 4-Φ18 | 93   | 108  |

# Internal Threaded IoT Electric Three-way Ball Valve

## Product Description

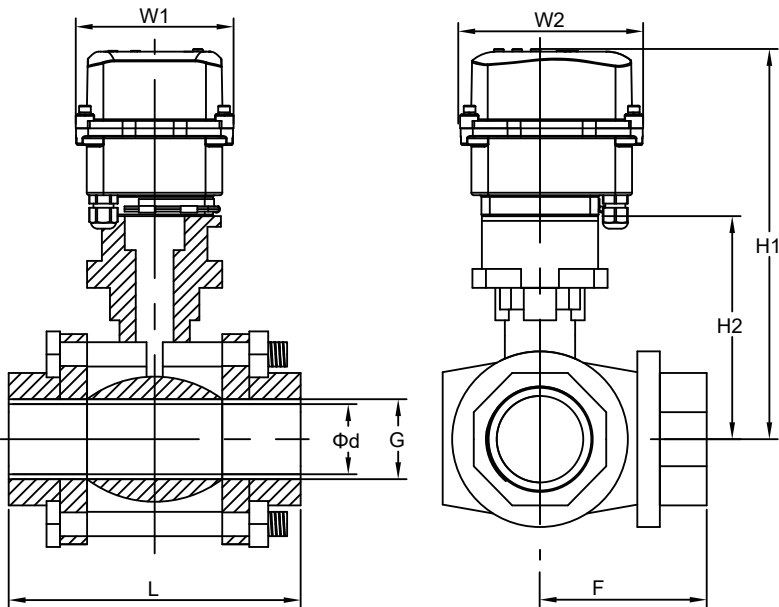
Female Thread IoT Electric 3-Way Ball Valve features easy installation, L/T flow passage for diversion, mixing and reversing, compact size suitable for narrow spaces, remote intelligent control and reliable sealing, widely used in HVAC, water treatment and other fluid automatic control systems.

## Main Performance Specifications

- Nominal Diameter: DN15~DN40
- Nominal Pressure: 0.1MPa~1.6MPa
- Medium Temperature: -30°C~60°C
- Protection Grade: IP65
- Applicable Media: Food, grease, fibrous fluid
- Manufacturing Standard: GB12237-2021, API 6D
- Face-to-Face Dimension Standard: GB/T12221-2005
- Inspection Standard: API 598



## Installation Dimension Drawing



## Product Features

- Suitable for multiple control modes such as on-off and regulating operation.
- Specially designed PTFE sealing features good self-lubricity, low friction loss with the ball, and effectively extends service life.
  - Threaded connection is a widely used detachable fixed connection. It requires fewer components and can be directly connected to pipelines, offering cost-effectiveness and practicality.

| Size(mm) | L   | G                                              | Φd | F  | H1    | H2 | W1   | W2   |
|----------|-----|------------------------------------------------|----|----|-------|----|------|------|
| 12       | 70  | Thread<br>Standard<br>NPT<br>BSP<br>DIN<br>etc | 12 | 40 | 123.5 | 38 | 68.5 | 88.5 |
| 15       | 83  |                                                | 15 | 42 | 125.5 | 40 | 68.5 | 88.5 |
| 18       | 89  |                                                | 18 | 54 | 150   | 50 | 93   | 108  |
| 25       | 116 |                                                | 25 | 60 | 159   | 59 | 93   | 108  |
| 32       | 134 |                                                | 32 | 68 | 170   | 70 | 93   | 108  |

# Wafer Type IoT Soft-sealed Butterfly Valve

## Product Description

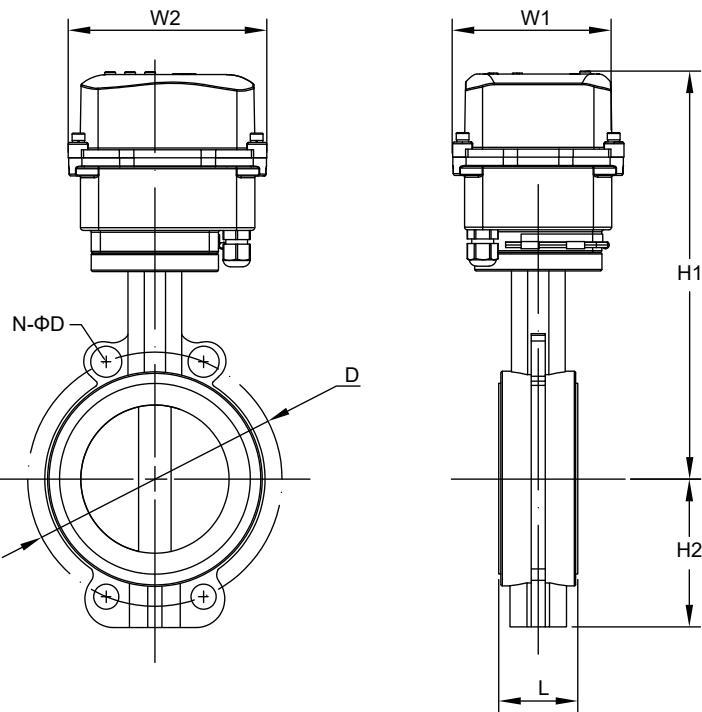
Wafer-type IoT soft-seal electric Butterfly Valve. Its disc adopts frame structure with high strength, large flow area and low flow resistance. The overall painted finish effectively prevents rust and provides bidirectional sealing function. Installation is not restricted by medium flow direction or space position, allowing installation in any orientation.

## Main Performance Specifications

Nominal Diameter: DN40~DN65  
Nominal Pressure: 0.1MPa~2.5MPa  
Medium Temperature: -30°C~60°C  
Protection Class: IP65  
Applicable Media: Water, oil, gas, corrosive media, etc.  
Manufacturing Standard: GB/T 12238-2008  
Face-to-Face Dimension Standard: GB/T 12221-2005  
Inspection Standard: GB/T 13927-2022



## Installation Dimension Drawing



## Product Features

- Pinless structure design effectively avoids pin falling off during long-term operation.
- The valve supports bidirectional sealing, installation is not limited by medium flow direction or space position, and can be mounted in any orientation.
- Sealing pair adopts stainless steel matched with NBR oil-resistant rubber, effectively prolonging service life.

| Size(mm) | L  | D   | N-ΦD  | H1  | H2 | W1 | W2  |
|----------|----|-----|-------|-----|----|----|-----|
| DN40     | 33 | 115 | 4-Φ16 | 202 | 60 | 94 | 109 |
| DN50     | 43 | 125 | 4-Φ18 | 212 | 70 | 94 | 109 |
| DN65     | 46 | 145 | 4-Φ18 | 225 | 80 | 94 | 109 |

# Wafer Type IoT Electric Fluorine-lined Butterfly Valve

## Product Description

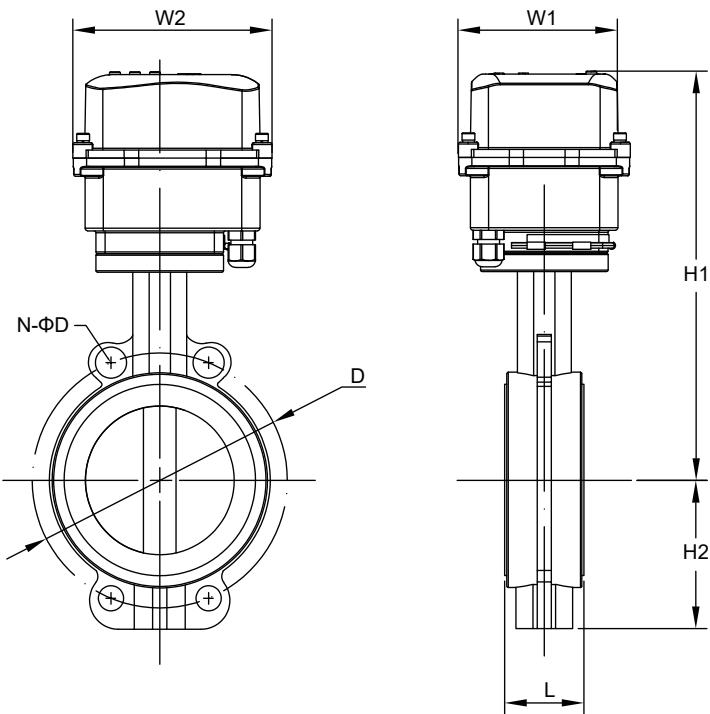
Wafer IoT electric fluorine-lined Butterfly Valve adopts spherically sealed fluorine-lined disc and silicone rubber seat gasket for excellent tightness. It is light to operate, enables quick shutoff and flow regulation, and suits applications requiring reliable sealing and precise regulation.

## Main Performance Specifications

Nominal Diameter: DN40~DN65  
Nominal Pressure: 1.0MPa~1.6MPa  
Medium Temperature: -50°C~160°C  
Protection Grade: IP65  
Applicable Media: Strongly corrosive media such as sulfuric acid, hydrofluoric acid, phosphoric acid, chlorine gas, strong alkali and aqua regia.  
Manufacturing Standard: GB12237-2021, API 6D  
Face-to-Face Dimension Standard: GB/T12221-2005  
Inspection Standard: API 598



## Installation Dimension Drawing

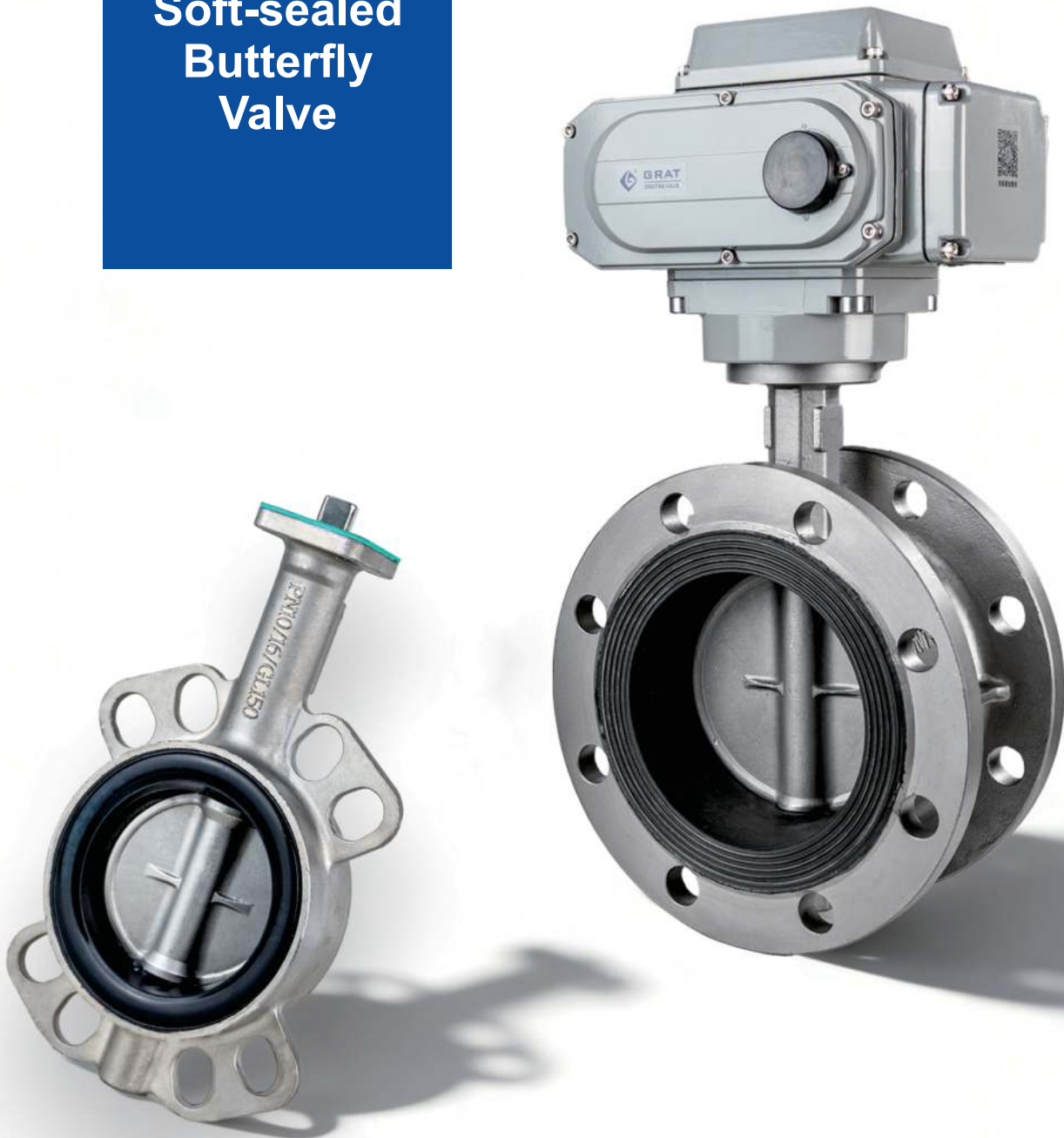


## Product Features

- Adopts FEP lining. All wetted parts are made of fluoroplastic with excellent corrosion and wear resistance, suitable for acids, alkalis and other media of any concentration, being an ideal choice for anti-corrosion equipment.
- Unique lip-type elastic sealing pair structure effectively extends service life.
- PTFE sealing material features aging resistance, corrosion resistance and long service life, achieving zero leakage in sealing performance.

| Size(mm) | L  | D   | N-ΦD  | H1  | H2 | W1 | W2  |
|----------|----|-----|-------|-----|----|----|-----|
| DN40     | 33 | 115 | 4-Φ16 | 202 | 60 | 94 | 109 |
| DN50     | 43 | 125 | 4-Φ18 | 212 | 70 | 94 | 109 |
| DN65     | 46 | 145 | 4-Φ18 | 225 | 80 | 94 | 109 |

## Soft-sealed Butterfly Valve



### Product Description:

As the most widely used Butterfly Valve, it is suitable for conveying and controlling liquid media such as water and oil. The high-strength frame disc ensures large flow area, low flow resistance and high circulation efficiency. The baked-paint valve body has excellent rust and corrosion resistance; replacing the seal seat material can adapt to different working media. With bidirectional sealing, it can be flexibly installed in any direction, not limited by medium flow or space.

### Product Features:

- **Reliable structure:** Pinless design avoids pin falling off during long-term operation, ensuring stability and reducing maintenance costs;
- **Flexible installation:** Bidirectional sealing allows arbitrary installation direction, adapting to complex pipeline layouts;
- **Durable sealing:** Stainless steel and NBR oil-resistant rubber seal pair offers excellent wear/oil resistance, extending service life;
- **High cost-performance:** Compact, light, easy to install/maintain, long service life, lower comprehensive operating cost than similar products.

# Wafer Type Electric Soft-sealed Butterfly Valve

## Product Description

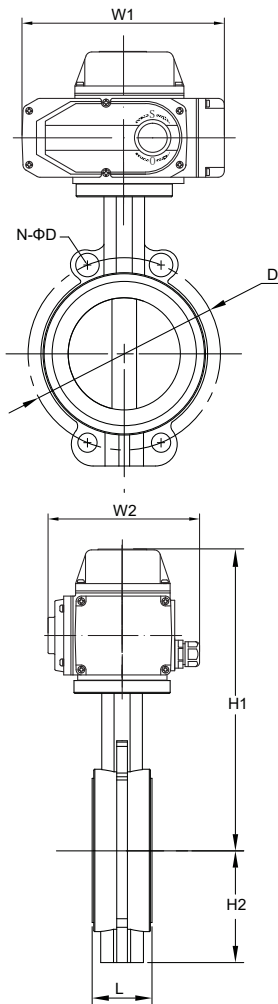
Wafer mounting, compact, lightweight and space-saving. Soft seal seat provides excellent tightness and low leakage. Electric actuator enables quick operation. Suitable for medium and low pressure, widely applied in water supply & drainage, HVAC for flow and pressure control.

## Main Performance Specifications

- Nominal Diameter: DN40 ~ Dn800
- Nominal Pressure: 0.1MPa ~ 2.5MPa
- Medium Temperature: -20°C ~ 120°C
- Ingress Protection: IP67
- Applicable Media: Water, oil, gas, corrosive media, etc.
- Manufacturing Standard: GB/T 12238-2008
- Structure Length Standard: GB/T 12221-2005
- Inspection Standard: GB/T 13927-2022



## Installation Dimension Drawing



| Size (mm) | L     | D   | N-φD  | H2    | H1   | W1  | W2  |
|-----------|-------|-----|-------|-------|------|-----|-----|
| 40        | 33    | 125 | 4-φ18 | 48    | 210  | 138 | 76  |
| 50        | 42.6  | 125 | 4-φ18 | 70    | 314  | 160 | 137 |
| 65        | 45.6  | 145 | 4-φ18 | 76    | 327  | 160 | 137 |
| 80        | 45.6  | 160 | 8-φ18 | 89    | 333  | 160 | 137 |
| 100       | 51.6  | 180 | 4-φ22 | 104   | 385  | 196 | 145 |
| 125       | 55.6  | 210 | 4-φ22 | 120   | 400  | 196 | 145 |
| 150       | 55.6  | 240 | 4-φ23 | 139   | 442  | 255 | 182 |
| 200       | 59.6  | 295 | 4-φ23 | 175   | 480  | 255 | 182 |
| 250       | 67.6  | 355 | 4-φ28 | 203   | 522  | 255 | 182 |
| 300       | 77.6  | 410 | 4-φ28 | 242   | 537  | 255 | 182 |
| 350       | 77    | 470 | 4-φ28 | 277.5 | 555  | 354 | 273 |
| 400       | 86.5  | 525 | 4-φ30 | 309   | 590  | 354 | 273 |
| 450       | 105.6 | 585 | 4-φ30 | 337   | 610  | 354 | 273 |
| 500       | 131.8 | 650 | 4-φ33 | 361   | 670  | 354 | 273 |
| 600       | 152   | 770 | 4-φ36 | 459   | 1110 | 520 | 470 |
| 700       | 163   | 840 | 4-φ36 | 527   | 1180 | 520 | 470 |
| 800       | 188   | 950 | 4-φ39 | 594   | 1220 | 520 | 470 |

# Flanged Electric Soft-sealed Butterfly Valve

## Product Description

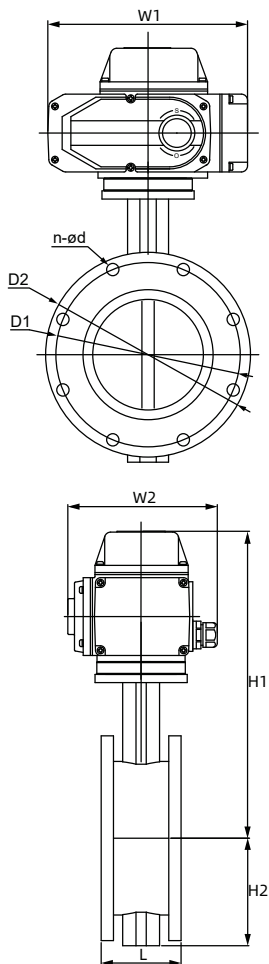
Flange-connected, firm, tight, high pressure-bearing. Soft seal seat: reliable, wear & corrosion resistant. Precise, easy-operate electric actuator. For medium-high pressure, large-diameter pipelines; used in chemical, power, metallurgical industries for medium control.

## Main Performance Specifications

- Nominal Diameter: DN50 ~ Dn800
- Nominal Pressure: 0.1MPa ~ 2.5MPa
- Medium Temperature: -20°C ~ 120°C
- Protection Grade: IP67
- Applicable Media: Water, oil, gas, corrosive media, etc.
- Manufacturing Standard: GB/T 12238-2008
- Face-to-Face Dimension Standard: GB/T 12221-2005
- Inspection Standard: GB/T 13927-2022
- Flange Standard: GB/T 9124.1-2019, GB/T 9124.2-2019, GB/T 17241.6-2008



## Installation Dimension Drawing



| Size<br>(mm) | D1  | D2   | N-ΦD   | L   | H2  | H1  | W1  | W2  |
|--------------|-----|------|--------|-----|-----|-----|-----|-----|
| 50           | 125 | 165  | 4-Φ18  | 108 | 70  | 288 | 196 | 145 |
| 65           | 145 | 185  | 4-Φ18  | 112 | 76  | 301 | 196 | 145 |
| 80           | 160 | 200  | 4-Φ18  | 114 | 89  | 313 | 196 | 145 |
| 100          | 180 | 220  | 8-Φ18  | 127 | 104 | 328 | 196 | 145 |
| 125          | 210 | 250  | 8-Φ18  | 140 | 120 | 348 | 196 | 145 |
| 150          | 240 | 285  | 8-Φ23  | 140 | 132 | 368 | 196 | 145 |
| 200          | 295 | 340  | 8-Φ23  | 152 | 167 | 435 | 255 | 182 |
| 250          | 350 | 35   | 12-Φ23 | 165 | 202 | 474 | 255 | 182 |
| 300          | 400 | 445  | 12-Φ23 | 178 | 239 | 502 | 255 | 182 |
| 350          | 460 | 505  | 16-Φ23 | 190 | 265 | 537 | 255 | 182 |
| 400          | 515 | 565  | 16-Φ28 | 216 | 308 | 640 | 354 | 273 |
| 450          | 565 | 615  | 20-Φ28 | 222 | 341 | 662 | 354 | 273 |
| 500          | 620 | 670  | 20-Φ28 | 229 | 381 | 700 | 354 | 273 |
| 600          | 725 | 780  | 20-Φ31 | 267 | 476 | 803 | 354 | 273 |
| 700          | 840 | 895  | 24-Φ34 | 292 | 520 | 866 | 354 | 273 |
| 800          | 950 | 1015 | 24-Φ37 | 318 | 591 | 949 | 354 | 273 |

# Wafer Type Pneumatic Soft-sealed Butterfly Valve

## Product Description

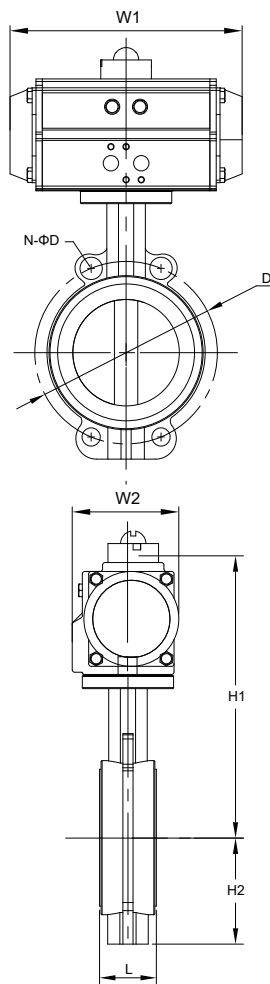
Wafer pneumatic soft-seal Butterfly Valve is compact, lightweight and space-saving with wafer installation. Its pneumatic actuator enables fast response and quick opening/closing for continuous operation. The soft seal seat offers tight shutoff, low leakage and corrosion resistance, ideal for medium-low pressure water supply, drainage and HVAC systems with frequent operation.

## Main Performance Specifications

Nominal Diameter: DN40~DN400  
Nominal Pressure: 0.1MPa~2.5MPa  
Medium Temperature: -20°C~120°C  
Protection Class: Ip66  
Applicable Media: Water, oil, gas, corrosive media, etc.  
Manufacturing Standard: GB/T 12238-2008  
Structure Length Standard: GB/T 12221-2005  
Inspection Standard: GB/T 13927-2022



## Installation Dimension Drawing



| Size<br>(mm) | L    | D   | N-φD  | H2    | 双作用 |     |     | 单作用 |     |     |
|--------------|------|-----|-------|-------|-----|-----|-----|-----|-----|-----|
|              |      |     |       |       | H1  | W1  | W2  | H1  | W1  | W2  |
| 40           | 33   | 125 | 4-φ18 | 48    | 232 | 147 | 72  | 248 | 168 | 83  |
| 50           | 42.6 | 125 | 4-φ18 | 70    | 335 | 168 | 83  | 347 | 184 | 95  |
| 65           | 45.6 | 145 | 4-φ18 | 76    | 360 | 184 | 95  | 364 | 262 | 109 |
| 80           | 45.6 | 160 | 8-φ18 | 89    | 375 | 204 | 103 | 399 | 268 | 122 |
| 100          | 51.6 | 180 | 4-φ22 | 104   | 426 | 262 | 109 | 484 | 301 | 142 |
| 125          | 55.6 | 210 | 4-φ22 | 120   | 441 | 262 | 109 | 499 | 301 | 142 |
| 150          | 55.6 | 240 | 4-φ23 | 139   | 477 | 268 | 122 | 536 | 390 | 152 |
| 200          | 59.6 | 295 | 4-φ23 | 175   | 547 | 301 | 144 | 589 | 458 | 174 |
| 250          | 67.6 | 355 | 4-φ28 | 203   | 606 | 390 | 152 | 664 | 525 | 206 |
| 300          | 77.6 | 410 | 4-φ28 | 242   | 646 | 458 | 174 | 704 | 532 | 226 |
| 350          | 77   | 470 | 4-φ28 | 277.5 | 660 | 525 | 206 | 720 | 602 | 260 |
| 400          | 86.5 | 525 | 4-φ30 | 309   | 695 | 525 | 206 | 755 | 602 | 260 |

Note: For pneumatic valves, the matching actuator model and relevant dimensions may vary depending on service medium, valve torque and control method.

# Flanged Pneumatic Soft-sealed Butterfly Valve

## Product Description

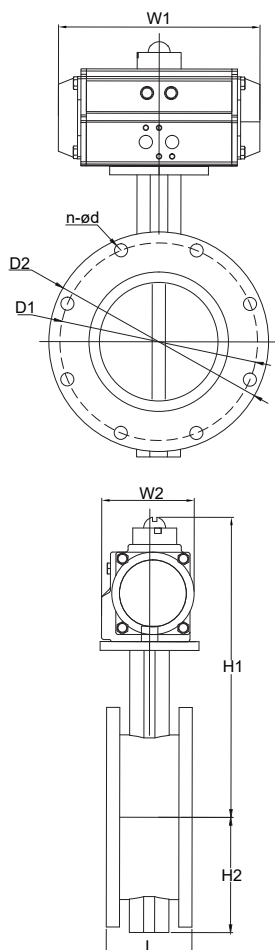
Flanged pneumatic soft-seal Butterfly Valve adopts rigid flange mounting with stable installation and higher pressure resistance than wafer type. It delivers precise control and zero leakage via high-torque actuator and soft seal seat, suitable for medium/high pressure large-diameter pipelines with corrosive media, widely applied in chemical, power and metallurgical industries.

## Main Performance Specifications

Nominal Diameter: DN50~DN400  
Nominal Pressure: 0.1MPa~2.5MPa  
Medium Temperature: -20°C~120°C  
Protection Grade: Ip67  
Applicable Media: Water, oil, gas, corrosive media, etc.  
Manufacturing Standard: GB/T 12238-2008  
Structural Length Standard: GB 12221-2005  
Inspection Standard: GB/T 13927-2022  
Flange Standard: GB/T 9124.1-2019, GB/T 9124.2-2019, GB/T 17241.6-2008



## Installation Dimension Drawing



| Size<br>(mm) | D1  | D2  | n-Φd   | L   | H2  | Double-acting |     |     | Single-acting |     |     |
|--------------|-----|-----|--------|-----|-----|---------------|-----|-----|---------------|-----|-----|
|              |     |     |        |     |     | H1            | W1  | W2  | H1            | W1  | W2  |
| 50           | 125 | 165 | 4-Φ18  | 108 | 70  | 290           | 168 | 83  | 290           | 168 | 83  |
| 65           | 145 | 185 | 4-Φ18  | 112 | 76  | 302           | 184 | 95  | 302           | 184 | 95  |
| 80           | 160 | 200 | 4-Φ18  | 114 | 89  | 311           | 204 | 103 | 319           | 262 | 109 |
| 100          | 180 | 220 | 8-Φ18  | 127 | 104 | 319           | 262 | 109 | 345           | 268 | 122 |
| 125          | 210 | 250 | 8-Φ18  | 140 | 120 | 319           | 262 | 109 | 377           | 301 | 142 |
| 150          | 240 | 285 | 8-Φ23  | 140 | 132 | 335           | 268 | 122 | 377           | 301 | 142 |
| 200          | 295 | 340 | 8-Φ23  | 152 | 167 | 377           | 301 | 144 | 394           | 390 | 152 |
| 250          | 350 | 395 | 12-Φ23 | 165 | 202 | 394           | 390 | 152 | 419           | 458 | 174 |
| 300          | 400 | 445 | 12-Φ23 | 178 | 239 | 419           | 458 | 174 | 452           | 525 | 206 |
| 350          | 460 | 505 | 16-Φ23 | 190 | 265 | 420           | 525 | 206 | 445           | 532 | 226 |
| 400          | 515 | 565 | 16-Φ28 | 216 | 308 | 452           | 525 | 206 | 512           | 602 | 260 |

Note: For pneumatic valves, the matching actuator model and relevant dimensions may vary depending on service medium, valve torque and control method.

# Wafer Type Explosion-Proof Electric Soft-sealed Butterfly Valve

## Product Description

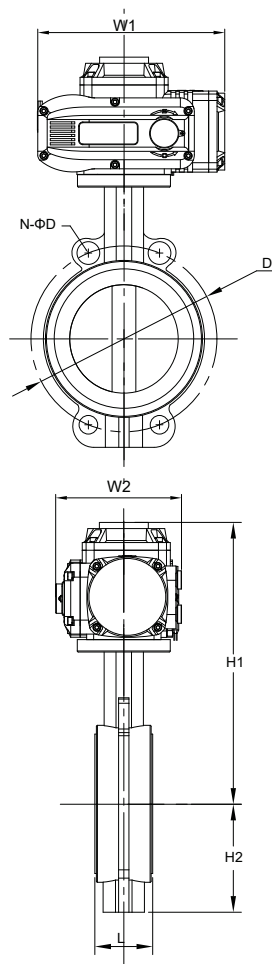
Wafer explosion-proof electric soft-seal Butterfly Valve is compact and lightweight. With explosion-proof electric actuator, it operates safely in flammable and explosive environments. It provides tight sealing, low leakage and precise control, suitable for medium-low pressure pipelines in petroleum, chemical and other explosion-proof working conditions.

## Main Performance Specifications

- Nominal Diameter: DN40~DN500
- Nominal Pressure: 0.1MPa~2.5MPa
- Medium Temperature: -20°C~120°C
- Protection Grade: Ip67
- Applicable Media: Water, oil, gas, corrosive media, etc.
- Manufacturing Standard: GB/T 12238-2008
- Structural Length Standard: GB 12221-2005
- Inspection Standard: GB/T 13927-2022



## Installation Dimension Drawing



| Size<br>(mm) | L     | D   | N-φD  | H2    | H1  | W2  | W1  |
|--------------|-------|-----|-------|-------|-----|-----|-----|
| 40           | 33    | 125 | 4-φ18 | 48    | 276 | 217 | 150 |
| 50           | 42.6  | 125 | 4-φ18 | 70    | 398 | 217 | 150 |
| 65           | 45.6  | 145 | 4-φ18 | 76    | 375 | 217 | 150 |
| 80           | 45.6  | 160 | 8-φ18 | 89    | 381 | 217 | 150 |
| 100          | 51.6  | 180 | 4-φ22 | 104   | 414 | 217 | 150 |
| 125          | 55.6  | 210 | 4-φ22 | 120   | 429 | 217 | 150 |
| 150          | 55.6  | 240 | 4-φ23 | 139   | 465 | 217 | 150 |
| 200          | 59.6  | 295 | 4-φ23 | 175   | 536 | 268 | 180 |
| 250          | 67.6  | 355 | 4-φ28 | 203   | 562 | 268 | 180 |
| 300          | 77.6  | 410 | 4-φ28 | 242   | 561 | 268 | 180 |
| 350          | 77    | 470 | 4-φ28 | 277.5 | 562 | 268 | 180 |
| 400          | 86.5  | 525 | 4-φ30 | 309   | 613 | 354 | 273 |
| 450          | 105.6 | 585 | 4-φ30 | 337   | 633 | 354 | 273 |
| 500          | 131.8 | 650 | 4-φ33 | 361   | 693 | 354 | 273 |

# Flanged Explosion-Proof Electric Soft-Sealed Butterfly Valve

## Product Description

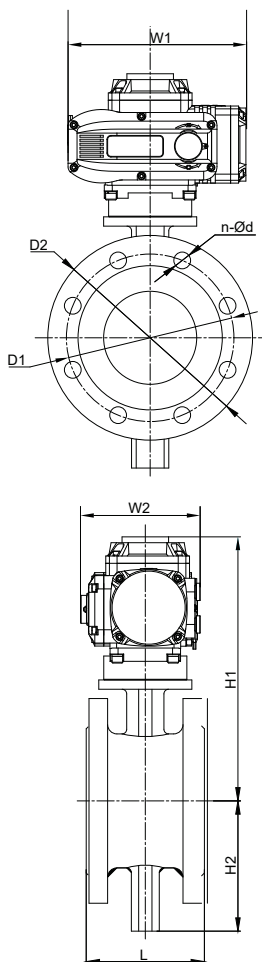
Flanged explosion-proof electric soft-seal Butterfly Valve has rigid flange connection for stable installation and high pressure resistance. Its flameproof anti-static actuator ensures safe use in hazardous environments. With wear-resistant soft seal and high torque drive, it fits high-pressure large-diameter explosion-proof pipelines for oil, chemical and coal mining

## Main Performance Specifications

Nominal Diameter: DN50~DN800  
Nominal Pressure: 0.1MPa~2.5MPa  
Medium Temperature: -20℃~120℃  
Protection Grade: Ip67  
Applicable Media: Water, oil, gas, corrosive media, etc.  
Manufacturing Standard: GB/T 12238-2008  
Structural Length Standard: GB/T 12221-2005  
Inspection Standard: GB/T 13927-2022  
Flange Standard: GB/T 9124.1-2019, GB/T 9124.2-2019, GB/T 17241.6-2008



## Installation Dimension Drawing



| Size<br>(mm) | D1  | D2   | n-Φd   | L   | H2  | H1    | W1  | W2  |
|--------------|-----|------|--------|-----|-----|-------|-----|-----|
| 50           | 125 | 165  | 4-Φ18  | 108 | 70  | 315.5 | 217 | 150 |
| 65           | 145 | 185  | 4-Φ18  | 112 | 76  | 329.5 | 217 | 150 |
| 80           | 160 | 200  | 4-Φ18  | 114 | 89  | 341.5 | 217 | 150 |
| 100          | 180 | 220  | 8-Φ18  | 127 | 104 | 356.5 | 217 | 150 |
| 125          | 210 | 250  | 8-Φ18  | 140 | 120 | 408.5 | 268 | 180 |
| 150          | 240 | 285  | 8-Φ23  | 140 | 132 | 429.5 | 268 | 180 |
| 200          | 295 | 340  | 8-Φ23  | 152 | 167 | 459   | 268 | 180 |
| 250          | 350 | 395  | 12-Φ23 | 165 | 202 | 498   | 268 | 180 |
| 300          | 400 | 445  | 12-Φ23 | 178 | 239 | 526   | 268 | 180 |
| 350          | 460 | 505  | 16-Φ23 | 190 | 265 | 561   | 268 | 180 |
| 400          | 515 | 565  | 16-Φ28 | 216 | 308 | 640   | 354 | 273 |
| 450          | 565 | 615  | 20-Φ28 | 222 | 341 | 662   | 354 | 273 |
| 500          | 620 | 670  | 20-Φ28 | 229 | 381 | 700   | 354 | 273 |
| 600          | 725 | 780  | 20-Φ31 | 267 | 476 | 803   | 354 | 273 |
| 700          | 840 | 895  | 24-Φ34 | 292 | 520 | 866   | 354 | 273 |
| 800          | 950 | 1015 | 24-Φ37 | 318 | 591 | 949   | 354 | 273 |

# V-Port Ball Valve



## Product Introduction:

Fluorine-lined butterfly valves are custom-made for severe corrosive conditions. The valve body uses carbon steel or stainless steel as the base with internal fluoroplastic lining such as PTFE. It excels in corrosion resistance against strong acids, alkalis and oxidants, protecting the valve body from chemical erosion. Compact in structure with low flow resistance and high flow capacity, it provides reliable sealing for medium and low pressure applications. Widely used in chemical, pharmaceutical, metallurgical, environmental protection and acid-base conveying systems, it runs stably long-term with low maintenance costs.

## Product Features:

- **Excellent corrosion and wear resistance:** FEP lining fully covers wetted parts, resisting acid, alkali and severe corrosive media, ideal for heavy corrosion working conditions.
- **Long-lasting reliable sealing:** Aging and corrosion resistant PTFE with lip elastic sealing structure realizes zero leakage and prolongs service life.
- **Wide application adaptability:** Full fluoroplastic media contact and superior sealing ensure stable operation in various high-demand corrosive fluid systems with low maintenance.

# Wafer Type Electric PTFE-Lined Butterfly Valve

## Product Description

Wafer-type fluorine-lined electric Butterfly Valve integrates wafer connection, anti-corrosion and electric control, with PTFE lining for acid/alkali resistance, compact installation, widely used in chemical, pharmaceutical and environmental protection for corrosive medium

## Main Performance Specifications

Nominal Diameter: DN40~DN500

Nominal Pressure: 1.0MPa~1.6MPa

Medium Temperature: -50℃~160℃

Protection Grade: Ip67

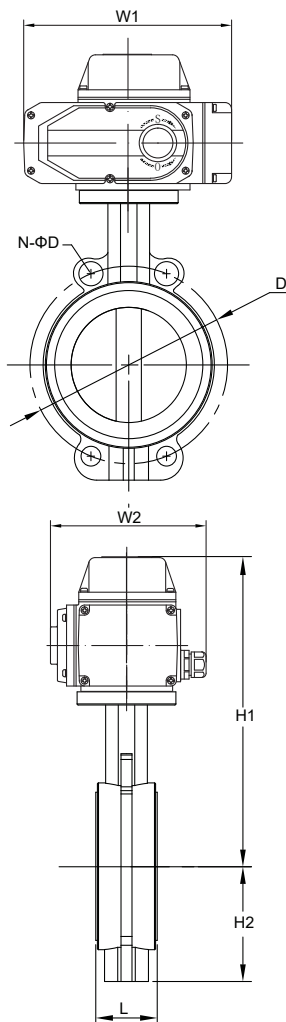
Applicable Media: Strongly corrosive media such as sulfuric acid, hydrofluoric acid, phosphoric acid, chlorine gas, strong alkali and aqua regia.

Manufacturing Standard: GB12237-2021, API 6D

Structural Length Standard: GB/T 12221-2005



## Installation Dimension Drawing



| Size<br>(mm) | L   | D   | N-ΦD   | H1  | H2    | W1  | W2  |
|--------------|-----|-----|--------|-----|-------|-----|-----|
| 40           | 33  | 115 | 4-Φ16  | 260 | 60    | 196 | 145 |
| 50           | 43  | 125 | 4-Φ18  | 270 | 70    | 196 | 145 |
| 65           | 46  | 145 | 4-Φ18  | 283 | 80    | 196 | 145 |
| 80           | 46  | 160 | 8-Φ18  | 327 | 89    | 255 | 182 |
| 100          | 52  | 180 | 8-Φ18  | 334 | 105.5 | 255 | 182 |
| 125          | 56  | 210 | 8-Φ18  | 357 | 121   | 255 | 182 |
| 150          | 56  | 240 | 8-Φ22  | 372 | 145   | 255 | 182 |
| 200          | 60  | 295 | 12-Φ22 | 420 | 177   | 255 | 182 |
| 250          | 66  | 355 | 12-Φ26 | 518 | 205   | 354 | 273 |
| 300          | 78  | 410 | 12-Φ26 | 535 | 235   | 354 | 273 |
| 350          | 78  | 470 | 16-Φ26 | 581 | 260   | 354 | 273 |
| 400          | 102 | 525 | 16-Φ30 | 630 | 299   | 354 | 273 |
| 450          | 114 | 585 | 20-Φ30 | 682 | 320   | 354 | 273 |
| 500          | 127 | 650 | 20-Φ33 | 710 | 352.5 | 354 | 273 |

# Wafer Type Pneumatic PTFE-Lined Butterfly Valve

## Product Description

GRAT wafer fluorine-lined pneumatic Butterfly Valve adopts fluorine lining on valve body and disc for strong acid and alkali corrosion resistance. Compact wafer mounting with pneumatic 90° quick rotation, ideal for corrosive medium delivery in chemical and pharmaceutical industries.

## Main Performance Specifications

Nominal Diameter: DN40~DN400

Nominal Pressure: 1.0MPa~1.6MPa

Medium Temperature: -50°C~160°C

Protection Grade: Ip66

Applicable Media: Strongly corrosive media such as sulfuric acid, hydrofluoric acid, phosphoric acid, chlorine gas, strong alkali and aqua regia.

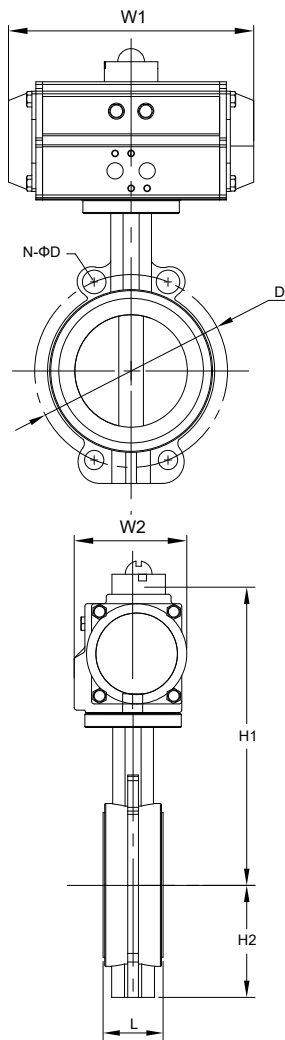
Manufacturing Standards: GB 12237-2021, API 6D

Structural Length Standard: GB 12221-2005

Inspection Standard: API 598



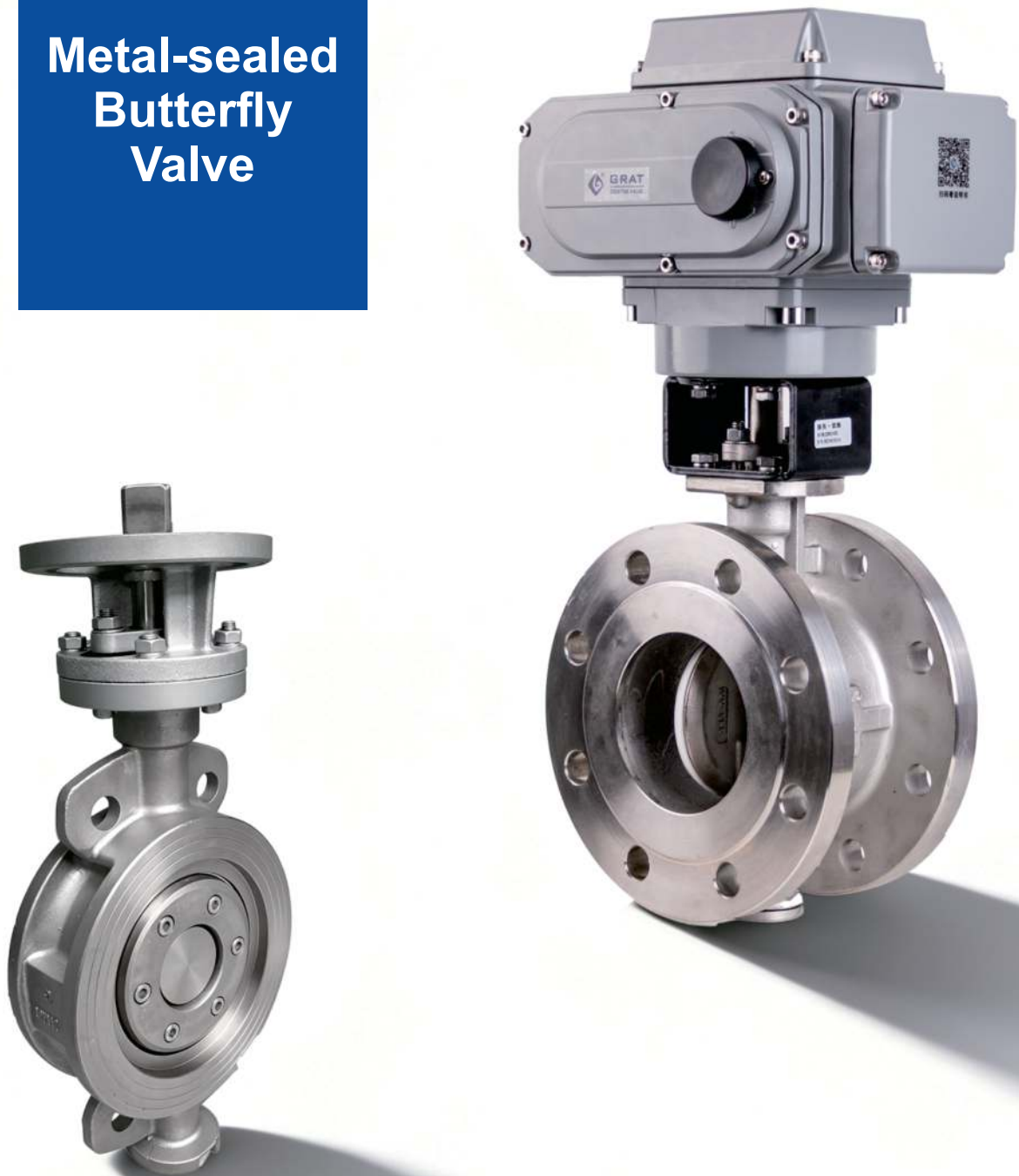
## Installation Dimension Drawing



| Size<br>(mm) | L   | D   | N-ΦD   | H2    | Double-acting |     |     | Single action |     |     |
|--------------|-----|-----|--------|-------|---------------|-----|-----|---------------|-----|-----|
|              |     |     |        |       | H1            | W1  | W2  | H1            | W1  | W2  |
| 40           | 33  | 115 | 4-Φ16  | 60    | 246           | 147 | 72  | 262           | 168 | 83  |
| 50           | 43  | 125 | 4-Φ18  | 70    | 272           | 168 | 83  | 284           | 184 | 95  |
| 65           | 46  | 145 | 4-Φ18  | 80    | 297           | 184 | 95  | 314           | 262 | 109 |
| 80           | 46  | 160 | 8-Φ18  | 89    | 328           | 204 | 103 | 352           | 268 | 122 |
| 100          | 52  | 180 | 8-Φ18  | 105.5 | 353           | 262 | 109 | 411           | 301 | 142 |
| 125          | 56  | 210 | 8-Φ18  | 121   | 376           | 262 | 109 | 434           | 301 | 142 |
| 150          | 56  | 240 | 8-Φ22  | 145   | 407           | 268 | 122 | 466           | 390 | 152 |
| 200          | 60  | 295 | 12-Φ22 | 177   | 487           | 301 | 144 | 529           | 458 | 174 |
| 250          | 66  | 355 | 12-Φ26 | 205   | 565           | 390 | 152 | 623           | 525 | 206 |
| 300          | 78  | 410 | 12-Φ26 | 235   | 607           | 458 | 174 | 665           | 532 | 226 |
| 350          | 78  | 470 | 16-Φ26 | 260   | 686           | 525 | 206 | 746           | 602 | 260 |
| 400          | 102 | 525 | 16-Φ30 | 299   | 735           | 525 | 206 | 795           | 602 | 260 |

Note: For pneumatic valves, the matching actuator model and relevant dimensions may vary depending on service medium, valve torque and control method.

# Metal-sealed Butterfly Valve



## Product Introduction:

Hard-seal Butterfly Valve is a key type for severe working conditions. Matched metal sealing surfaces of seat and disc deliver high temperature & pressure resistance, as well as wear and corrosion resistance. With compact structure, low operating torque, flexible operation, low flow resistance and high flow efficiency, it is applicable for conveying harsh media such as steam, high-temperature oil and corrosive gas. It enables accurate flow and pressure control, widely used in chemical, power, metallurgy and other industrial fields.

## Product Features:

- **Reliable sealing performance:** The valve stem adopts graphite molded sealing rings to achieve zero leakage. It maintains tight sealing before, during and after fire, featuring inherent fire safety performance.
- **Smooth opening/closing with wear resistance:** The convex conical sealing surface of the disc fully separates from the sealing ring when opening, avoiding solid accumulation. It closes relying on the elasticity of the sealing ring with almost no friction between seat and disc, achieving tighter sealing as it closes.

# Wafer Type Electric Metal-Sealed Butterfly Valve

## Product Description

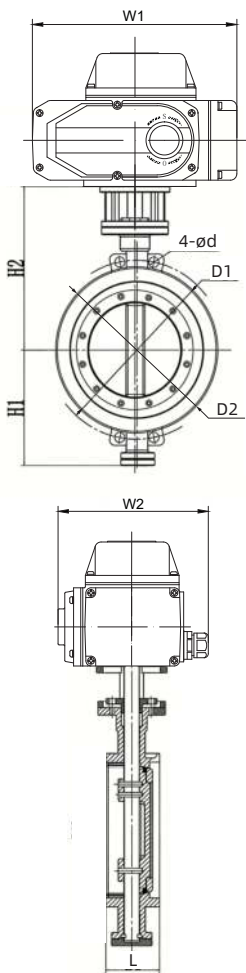
Wafer-type electric hard-seal Butterfly Valve: compact, metal-sealed, high-temp resistant, with electric control. Suitable for industrial pipelines with impurities.

## Main Performance Specifications

- Nominal Diameter: DN50~DN1200
- Nominal Pressure: 0.6MPa~4.0MPa
- Medium Temperature: ≤540°C
- Protection Grade: Ip67
- Applicable Media: Water, oil, gas and various high-temperature or impurity-containing media
- Manufacturing Standard: GB/T 12238-2008, API 609
- Structural Length Standard: GB/T 12221-2005
- Inspection Standard: GB/T 13927-2022, API 598



## Installation Dimension Drawing



| Size<br>(mm) | L   | D1   | D2   | 4-Φd | H1   | H2  | W1  | W2  |
|--------------|-----|------|------|------|------|-----|-----|-----|
| 50           | 43  | 125  | 105  | 18   | 238  | 112 | 196 | 145 |
| 65           | 46  | 145  | 125  | 18   | 255  | 115 | 196 | 145 |
| 80           | 56  | 160  | 140  | 18   | 260  | 120 | 196 | 145 |
| 100          | 64  | 180  | 160  | 18   | 285  | 138 | 196 | 145 |
| 125          | 70  | 210  | 190  | 18   | 300  | 164 | 196 | 145 |
| 150          | 71  | 240  | 215  | 22   | 320  | 175 | 255 | 182 |
| 200          | 76  | 295  | 270  | 22   | 370  | 208 | 255 | 182 |
| 250          | 83  | 355  | 325  | 26   | 420  | 243 | 255 | 182 |
| 300          | 92  | 410  | 375  | 26   | 500  | 283 | 255 | 182 |
| 350          | 102 | 470  | 435  | 26   | 530  | 310 | 255 | 182 |
| 400          | 114 | 525  | 545  | 30   | 570  | 340 | 354 | 273 |
| 450          | 127 | 585  | 565  | 30   | 600  | 380 | 354 | 273 |
| 500          | 154 | 650  | 590  | 33   | 680  | 410 | 354 | 273 |
| 600          | 165 | 770  | 690  | 36   | 750  | 470 | 354 | 273 |
| 700          | 190 | 840  | 805  | 36   | 810  | 550 | 354 | 273 |
| 800          | 203 | 950  | 915  | 39   | 905  | 640 | 354 | 273 |
| 900          | 216 | 1050 | 1015 | 39   | 960  | 710 | 354 | 273 |
| 1000         | 254 | 1170 | 1120 | 42   | 1010 | 770 | 354 | 273 |
| 1200         | 265 | 1390 | 1335 | 48   | 1175 | 890 | 354 | 273 |

# Flanged Electric Metal-Sealed Butterfly Valve

## Product Description

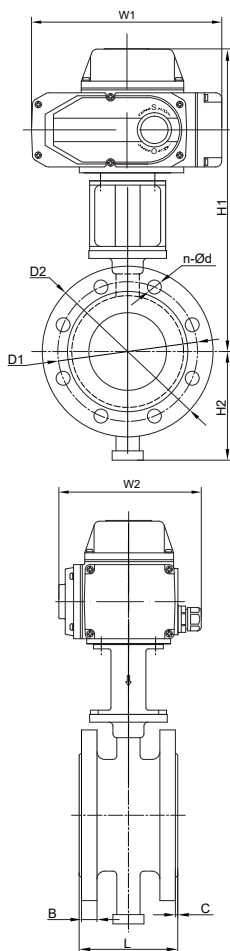
Flanged electric hard-seal Butterfly Valve features sturdy flange connection, high pressure and temperature resistance with reliable metal hard sealing. Electric drive provides precise regulation, low flow resistance and fast actuation for harsh industrial pipeline cut-off and control.

## Main Performance Specifications

- Nominal Diameter: DN50~DN1200
- Nominal Pressure: 0.6MPa~4.0MPa
- Medium Temperature: ≤540℃
- Protection Grade: Ip67
- Applicable Media: Water, oil, gas, and various high-temperature or impurity-containing media
- Manufacturing Standard: GB/T 12238-2008, API 609
- Structural Length Standard: GB/T 12221-2005
- Inspection Standard: GB/T 13927-2022, API 598
- Flange Standard: GB/T 9124.1-2019, GB/T 9124.2-2019, ASME B16.50, ASME B16.47



## Installation Dimension Drawing



| Size<br>(mm) | L   | D1   | D2   | N-Φd   | B  | C   | H1   | H2  | W1  | W2  |
|--------------|-----|------|------|--------|----|-----|------|-----|-----|-----|
| 50           | 108 | 125  | 165  | 4-Φ18  | 16 | 2   | 238  | 112 | 196 | 145 |
| 65           | 112 | 145  | 185  | 4-Φ18  | 16 | 2   | 255  | 115 | 196 | 145 |
| 80           | 114 | 160  | 200  | 8-Φ18  | 18 | 2   | 260  | 120 | 196 | 145 |
| 100          | 127 | 180  | 220  | 8-Φ18  | 20 | 3   | 285  | 138 | 196 | 145 |
| 125          | 140 | 210  | 250  | 8-Φ18  | 22 | 3   | 300  | 164 | 196 | 145 |
| 150          | 140 | 240  | 285  | 8-Φ22  | 24 | 3   | 320  | 175 | 255 | 182 |
| 200          | 152 | 295  | 340  | 12-Φ22 | 24 | 3   | 370  | 208 | 255 | 182 |
| 250          | 165 | 355  | 405  | 12-Φ26 | 26 | 3   | 420  | 243 | 255 | 182 |
| 300          | 178 | 410  | 460  | 16-Φ26 | 28 | 3.5 | 500  | 283 | 255 | 182 |
| 350          | 190 | 470  | 520  | 16-Φ30 | 30 | 3.5 | 530  | 310 | 255 | 182 |
| 400          | 216 | 525  | 580  | 20-Φ30 | 32 | 3.5 | 570  | 340 | 354 | 273 |
| 450          | 222 | 585  | 640  | 20-Φ33 | 40 | 3.5 | 600  | 380 | 354 | 273 |
| 500          | 229 | 650  | 715  | 20-Φ36 | 44 | 4   | 680  | 410 | 354 | 273 |
| 600          | 267 | 770  | 840  | 24-Φ36 | 54 | 4   | 750  | 470 | 354 | 273 |
| 700          | 292 | 840  | 910  | 24-Φ39 | 40 | 4   | 810  | 550 | 354 | 273 |
| 800          | 318 | 950  | 1025 | 28-Φ39 | 42 | 4   | 905  | 640 | 354 | 273 |
| 900          | 330 | 1050 | 1125 | 28-Φ42 | 44 | 5   | 960  | 710 | 354 | 273 |
| 1000         | 410 | 1170 | 1255 | 32-Φ48 | 46 | 5   | 1010 | 770 | 354 | 273 |
| 1200         | 470 | 1390 | 1485 | 32-Φ48 | 52 | 5   | 1175 | 890 | 354 | 273 |

# Wafer Type Pneumatic Metal-Sealed Butterfly Valve

## Product Description

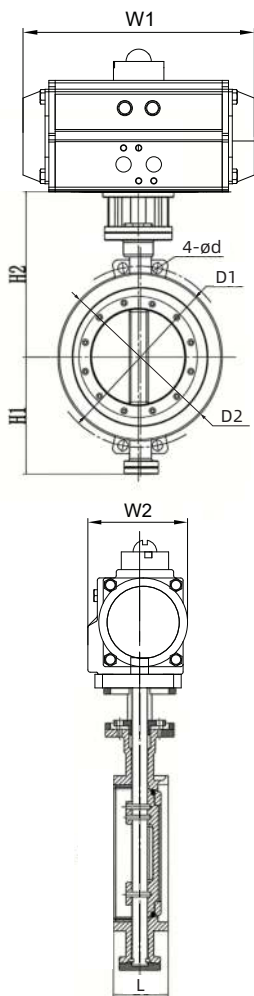
Compact wafer design with high-temperature wear-resistant metal hard seal and excellent tightness. Pneumatic drive offers fast response, precise control, low flow resistance and flexible operation, suitable for medium control in industrial pipelines under harsh conditions.

## Main Performance Specifications

Nominal Diameter: DN50~DN400  
Nominal Pressure: 0.6MPa~4.0MPa  
Medium Temperature: ≤540°C  
Protection Grade: Ip66  
Applicable Media: Water, oil, gas and other high-temperature or impurity-containing media  
Manufacturing Standards: GB/T 12238-2008, API 609  
Structural Length Standard: GB/T 12221-2005  
Inspection Standards: GB/T 13927-2022, API 598



## Installation Dimension Drawing



| Size<br>(mm) | L   | D   | N-φD  | H2  | Double-acting |     |     | Single action |     |     |
|--------------|-----|-----|-------|-----|---------------|-----|-----|---------------|-----|-----|
|              |     |     |       |     | H1            | W1  | W2  | H1            | W1  | W2  |
| 50           | 43  | 125 | 4-φ18 | 112 | 240           | 168 | 83  | 252           | 184 | 95  |
| 65           | 46  | 145 | 4-φ18 | 115 | 269           | 184 | 95  | 286           | 262 | 109 |
| 80           | 56  | 160 | 4-φ18 | 120 | 283           | 204 | 103 | 307           | 268 | 122 |
| 100          | 64  | 180 | 4-φ18 | 138 | 326           | 262 | 109 | 384           | 301 | 142 |
| 125          | 70  | 210 | 4-φ18 | 164 | 341           | 262 | 109 | 399           | 301 | 142 |
| 150          | 71  | 240 | 4-φ22 | 175 | 376           | 268 | 122 | 435           | 390 | 152 |
| 200          | 76  | 295 | 4-φ22 | 208 | 442           | 301 | 142 | 484           | 458 | 174 |
| 250          | 83  | 355 | 4-φ26 | 243 | 509           | 390 | 152 | 567           | 525 | 206 |
| 300          | 92  | 410 | 4-φ26 | 283 | 614           | 458 | 174 | 672           | 532 | 226 |
| 350          | 102 | 470 | 4-φ26 | 310 | 677           | 525 | 206 | 737           | 602 | 260 |
| 400          | 114 | 525 | 4-φ30 | 340 | 652           | 525 | 206 | 712           | 602 | 260 |

Note: For pneumatic valves, the matching actuator model and relevant dimensions may vary depending on service medium, valve torque and control method.

# Flanged Pneumatic Metal-Sealed Butterfly Valve

## Product Description

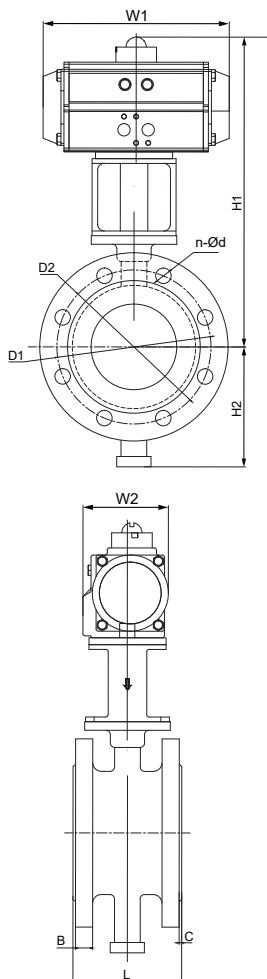
Flanged pneumatic hard-seal Butterfly Valve features fast pneumatic actuation, high pressure & temperature resistant hard seal, and leak-tight flange connection. It delivers precise flow control and long service life for harsh chemical and metallurgical conditions.

## Main Performance Specifications

Nominal Diameter: DN50~DN400  
Nominal Pressure: 0.6MPa~4.0MPa  
Medium Temperature: ≤540°C  
Protection Grade: Ip66  
Applicable Media: Water, oil, gas and various high-temperature or impurity-containing media  
Manufacturing Standards: GB/T 12238-2008, API 609  
Structural Length Standard: GB/T 12221-2005  
Inspection Standards: GB/T 13927-2022, API 598  
Flange Standards: GB/T 9124.1-2019, GB/T 9124.2-2019, ASME B16.50, ASME B16.47



## Installation Dimension Drawing



| Size<br>(mm) | L   | D1  | D2  | n-Φd   | B  | C   | H2  | Double-acting |     |     | Single-acting |     |     |
|--------------|-----|-----|-----|--------|----|-----|-----|---------------|-----|-----|---------------|-----|-----|
|              |     |     |     |        |    |     |     | H1            | W1  | W2  | H1            | W1  | W2  |
| 50           | 108 | 125 | 165 | 4-Φ18  | 16 | 2   | 112 | 240           | 168 | 83  | 252           | 184 | 95  |
| 65           | 112 | 145 | 185 | 4-Φ18  | 16 | 2   | 115 | 269           | 184 | 95  | 286           | 262 | 109 |
| 80           | 114 | 160 | 200 | 8-Φ18  | 18 | 2   | 120 | 283           | 204 | 103 | 307           | 268 | 122 |
| 100          | 127 | 180 | 220 | 8-Φ18  | 20 | 3   | 138 | 326           | 262 | 109 | 384           | 301 | 142 |
| 125          | 140 | 210 | 250 | 8-Φ18  | 22 | 3   | 164 | 341           | 262 | 109 | 399           | 301 | 142 |
| 150          | 140 | 240 | 285 | 8-Φ22  | 24 | 3   | 175 | 376           | 268 | 122 | 435           | 390 | 152 |
| 200          | 152 | 295 | 340 | 12-Φ22 | 24 | 3   | 208 | 442           | 301 | 142 | 484           | 458 | 174 |
| 250          | 165 | 355 | 405 | 12-Φ26 | 26 | 3   | 243 | 509           | 390 | 152 | 567           | 525 | 206 |
| 300          | 178 | 410 | 460 | 16-Φ26 | 28 | 3.5 | 283 | 614           | 458 | 174 | 672           | 532 | 226 |
| 350          | 190 | 470 | 520 | 16-Φ30 | 30 | 3.5 | 310 | 677           | 525 | 206 | 737           | 602 | 260 |
| 400          | 216 | 525 | 580 | 20-Φ30 | 32 | 3.5 | 340 | 675           | 525 | 206 | 735           | 602 | 260 |

Note: For pneumatic valves, the matching actuator model and relevant dimensions may vary depending on service medium, valve torque and control method.

# Wafer Type Explosion-Proof Electric Metal-Sealed Butterfly Valve

## Product Description

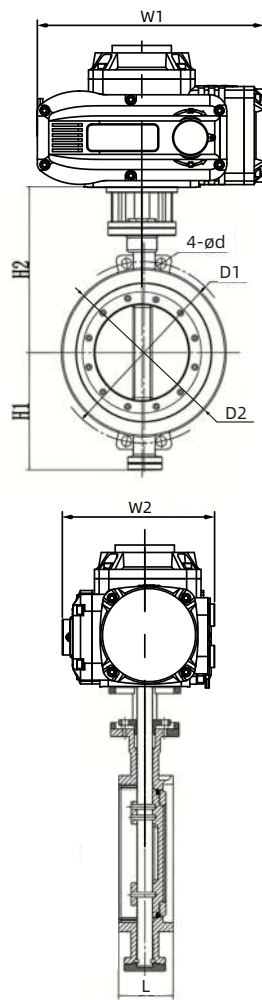
Wafer-type explosion-proof electric hard-sealed Butterfly Valve saves installation space, applies to flammable and explosive environments. Its hard seal ensures wear resistance and tight sealing, and electric drive enables accurate flow regulation, ideal for high-risk sites like chemical and oil-gas industries.

## Main Performance Specifications

Nominal Diameter: DN50~DN1200  
Nominal Pressure: 0.6MPa~4.0MPa  
Medium Temperature: ≤540°C  
Protection Class: Ip67  
Applicable Media: water, oil, gas and various high-temperature or impurity-containing media  
Manufacturing Standards: GB/T 12238-2008, API 609  
Face-to-Face Dimension Standard: GB/T 12221-2005  
Inspection Standards: GB/T 13927-2022, API 598



## Installation Dimension Drawing



| Size<br>(mm) | L   | D1   | D2   | 4-Φd | H1   | H2  | W1  | W2  |
|--------------|-----|------|------|------|------|-----|-----|-----|
| 50           | 43  | 125  | 105  | 18   | 267  | 112 | 217 | 150 |
| 65           | 46  | 145  | 125  | 18   | 284  | 115 | 217 | 150 |
| 80           | 56  | 160  | 140  | 18   | 289  | 120 | 217 | 150 |
| 100          | 64  | 180  | 160  | 18   | 347  | 138 | 268 | 180 |
| 125          | 70  | 210  | 190  | 18   | 352  | 164 | 268 | 180 |
| 150          | 71  | 240  | 215  | 22   | 381  | 175 | 268 | 180 |
| 200          | 76  | 295  | 270  | 22   | 399  | 208 | 268 | 180 |
| 250          | 83  | 355  | 325  | 26   | 449  | 243 | 268 | 180 |
| 300          | 92  | 410  | 375  | 26   | 529  | 283 | 268 | 180 |
| 350          | 102 | 470  | 435  | 26   | 559  | 310 | 268 | 180 |
| 400          | 114 | 525  | 545  | 30   | 570  | 340 | 354 | 273 |
| 450          | 127 | 585  | 565  | 30   | 600  | 380 | 354 | 273 |
| 500          | 154 | 650  | 590  | 33   | 680  | 410 | 354 | 273 |
| 600          | 165 | 770  | 690  | 36   | 750  | 470 | 354 | 273 |
| 700          | 190 | 840  | 805  | 36   | 810  | 550 | 354 | 273 |
| 800          | 203 | 950  | 915  | 39   | 905  | 640 | 354 | 273 |
| 900          | 216 | 1050 | 1015 | 39   | 960  | 710 | 354 | 273 |
| 1000         | 254 | 1170 | 1120 | 42   | 1010 | 770 | 354 | 273 |
| 1200         | 265 | 1390 | 1335 | 48   | 1175 | 890 | 354 | 273 |

# Flanged Explosion-Proof Electric Metal-Sealed Butterfly Valve

## Product Description

Flanged explosion-proof electric hard-sealed Butterfly Valve: firm leak-proof flange connection, explosion-proof motor for flammable & explosive environments, hard seal with high pressure/high temperature/wear resistance, precise efficient electric control, reliable for chemical, oil & gas and other high-risk applications.

## Main Performance Specifications

Nominal Diameter: DN50~DN1200

Nominal Pressure: 0.6MPa~4.0MPa

Medium Temperature:  $\leq 540^{\circ}\text{C}$

Protection Grade: Ip67

Applicable Media: Water, oil, gas and various high-temperature or impurity-laden media

Manufacturing Standards: GB/T 12238-2008, API 609

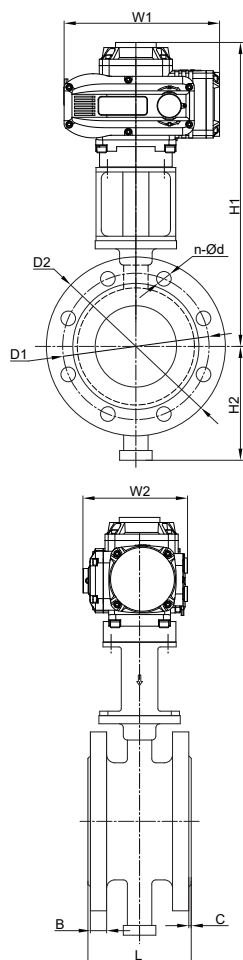
Face-to-Face Standard: GB/T 12221-2005

Inspection Standards: GB/T 13927-2022, API 598

Flange Standards: GB/T 9124.1-2019, GB/T 9124.2-2019, ASME B16.50, ASME B16.47



## Installation Dimension Drawing



| Size (mm) | L   | D1   | D2   | N-Φd   | B  | C   | H1   | H2  | W1  | W2  |
|-----------|-----|------|------|--------|----|-----|------|-----|-----|-----|
| 50        | 108 | 125  | 165  | 4-Φ18  | 16 | 2   | 267  | 112 | 217 | 150 |
| 65        | 112 | 145  | 185  | 4-Φ18  | 16 | 2   | 284  | 115 | 217 | 150 |
| 80        | 114 | 160  | 200  | 8-Φ18  | 18 | 2   | 289  | 120 | 217 | 150 |
| 100       | 127 | 180  | 220  | 8-Φ18  | 20 | 3   | 347  | 138 | 252 | 163 |
| 125       | 140 | 210  | 250  | 8-Φ18  | 22 | 3   | 362  | 164 | 252 | 163 |
| 150       | 140 | 240  | 285  | 8-Φ22  | 24 | 3   | 381  | 175 | 252 | 163 |
| 200       | 152 | 295  | 340  | 12-Φ22 | 24 | 3   | 399  | 208 | 293 | 184 |
| 250       | 165 | 355  | 405  | 12-Φ26 | 26 | 3   | 449  | 243 | 293 | 184 |
| 300       | 178 | 410  | 460  | 16-Φ26 | 28 | 3.5 | 529  | 283 | 293 | 184 |
| 350       | 190 | 470  | 520  | 16-Φ30 | 30 | 3.5 | 559  | 310 | 293 | 184 |
| 400       | 216 | 525  | 580  | 20-Φ30 | 32 | 3.5 | 570  | 340 | 354 | 273 |
| 450       | 222 | 585  | 640  | 20-Φ33 | 40 | 3.5 | 600  | 380 | 354 | 273 |
| 500       | 229 | 650  | 715  | 20-Φ36 | 44 | 4   | 680  | 410 | 354 | 273 |
| 600       | 267 | 770  | 840  | 24-Φ36 | 54 | 4   | 750  | 470 | 354 | 273 |
| 700       | 292 | 840  | 910  | 24-Φ39 | 40 | 4   | 810  | 550 | 354 | 273 |
| 800       | 318 | 950  | 1025 | 28-Φ39 | 42 | 4   | 905  | 640 | 354 | 273 |
| 900       | 330 | 1050 | 1125 | 28-Φ42 | 44 | 5   | 960  | 710 | 354 | 273 |
| 1000      | 410 | 1170 | 1255 | 32-Φ48 | 46 | 5   | 1010 | 770 | 354 | 273 |
| 1200      | 470 | 1390 | 1485 | 32-Φ48 | 52 | 5   | 1175 | 890 | 354 | 273 |

# UPVC Butterfly Valve



## Product Introduction:

UPVC Butterfly Valve, lightweight and made of UPVC, has excellent corrosion resistance against acids, alkalis and salts. Compact, easy to install and low-maintenance, it features small flow resistance, strong flow capacity, reliable sealing, suitable for medium-low pressure, widely used in chemical, water treatment and other industries, especially for corrosive media.

## Product Features:

- **Convenient Disassembly:** Flange wafer-type structure at both ends enables simple disassembly, greatly reducing maintenance time and labor costs;
- **Excellent Corrosion Resistance:** UPVC main body has superior acid-alkali resistance, withstanding strong acids and alkalis, no rust or scaling, and wider application scope;
- **Economical Operation:** Compact, light and easy to install, with low long-term maintenance cost and high cost performance;

# Wafer Type UPVC Electric Butterfly Valve

## Product Description

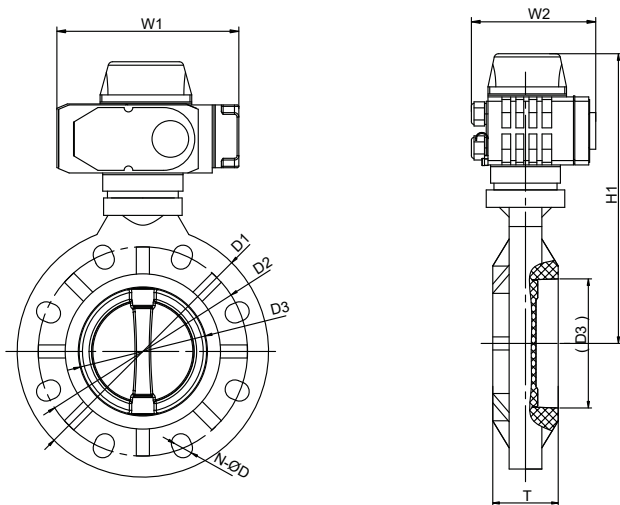
Electric UPVC Butterfly Valve is made of corrosion-resistant UPVC material. It features convenient and precise electric regulation, suitable for acid and alkali fluid conveyance. Lightweight and easy to install with good sealing performance, it is an economical choice for water treatment, chemical and other industries.

## Main Performance Specifications

- Nominal Diameter: DN80~DN400
- Nominal Pressure: 1.0MPa
- Medium Temperature: -15℃~60℃
- Protection Grade: IP67
- Applicable Media: Water, air, oil and corrosive chemical liquids
- Manufacturing Standards: GB12237-2021, API 6D
- Face-to-Face Standard: GB12221-2005
- Inspection Standards: JB/T 9092-1999, API 598
- Flange Standards: JB/T 79-2015, GB/T 9124.1-2019, GB/T 9124.2-2019, ANSI B16.5, JIS B2239



## Installation Dimension Drawing



| Size(mm) | D1  | D2  | D3    | T   | N-ΦD   | W1  | W2  | H1  |
|----------|-----|-----|-------|-----|--------|-----|-----|-----|
| 80       | 200 | 160 | 79    | 45  | 8-Φ18  | 196 | 145 | 286 |
| 100      | 220 | 178 | 98.5  | 55  | 8-Φ18  | 196 | 145 | 306 |
| 125      | 254 | 210 | 125   | 65  | 8-Φ18  | 196 | 145 | 318 |
| 150      | 288 | 240 | 148   | 75  | 8-Φ22  | 196 | 145 | 334 |
| 200      | 340 | 295 | 201   | 85  | 8-Φ24  | 255 | 182 | 407 |
| 250      | 395 | 350 | 245.5 | 110 | 12-Φ24 | 255 | 182 | 442 |
| 300      | 440 | 400 | 291.5 | 115 | 12-Φ21 | 255 | 182 | 487 |
| 350      | 510 | 460 | 340   | 127 | 16-Φ21 | 255 | 182 | 509 |
| 400      | 570 | 515 | 399   | 140 | 16-Φ30 | 354 | 273 | 580 |

# Wafer Type UPVC Pneumatic Butterfly Valve

## Product Description

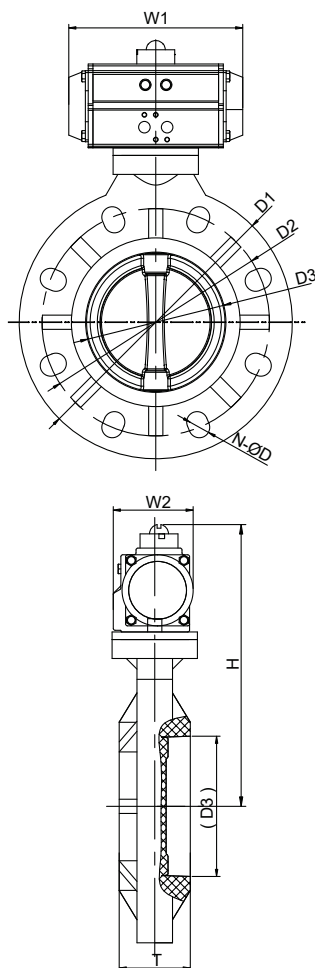
Pneumatic UPVC Butterfly Valve adopts corrosion-resistant UPVC material for fast pneumatic on-off. Suitable for acid, alkali, sewage and other media, it is easy to install and maintain with good sealing, cost-effective for water treatment and light chemical working conditions.

## Main Performance Specifications

Nominal Diameter: DN80~DN400  
Nominal Pressure: 1.0MPa  
Medium Temperature: -15°C~60°C  
Protection Grade: IP67  
Applicable Media: Water, air, oil and corrosive chemical liquids  
Manufacturing Standards: GB12237-2021, API 6D  
Face-to-Face Standard: GB12221-2005  
Inspection Standards: JB/T 9092-1999, API 598  
Flange Standards: JB/T 79-2015, GB/T 9124.1-2019, GB/T 9124.2-2019, ANSI B16.5, JIS B2239



## Installation Dimension Drawing



| Size<br>(mm) | D1  | D2  | D3    | T   | N-ΦD   | Double-acting |     |     | Single-acting |     |     |
|--------------|-----|-----|-------|-----|--------|---------------|-----|-----|---------------|-----|-----|
|              |     |     |       |     |        | H1            | W1  | W2  | H1            | W1  | W2  |
| 50           | 160 | 125 | 51    | 42  | 4-Φ18  | 168           | 83  | 290 | 168           | 83  | 290 |
| 65           | 180 | 145 | 66    | 47  | 4-Φ18  | 184           | 95  | 302 | 184           | 95  | 302 |
| 80           | 200 | 160 | 79    | 45  | 8-Φ18  | 204           | 103 | 309 | 262           | 109 | 317 |
| 100          | 220 | 178 | 98.5  | 55  | 8-Φ18  | 262           | 109 | 337 | 268           | 122 | 353 |
| 125          | 254 | 210 | 125   | 65  | 8-Φ18  | 262           | 109 | 349 | 301           | 142 | 397 |
| 150          | 288 | 240 | 148   | 75  | 8-Φ22  | 268           | 122 | 381 | 301           | 142 | 413 |
| 200          | 340 | 295 | 201   | 85  | 8-Φ24  | 301           | 144 | 474 | 390           | 152 | 491 |
| 250          | 395 | 350 | 245.5 | 110 | 12-Φ24 | 390           | 152 | 526 | 458           | 174 | 551 |
| 300          | 440 | 400 | 291.5 | 115 | 12-Φ21 | 458           | 174 | 596 | 525           | 206 | 629 |
| 350          | 510 | 460 | 340   | 127 | 16-Φ21 | 525           | 206 | 651 | 532           | 226 | 676 |
| 400          | 570 | 515 | 399   | 140 | 16-Φ30 | 525           | 206 | 685 | 602           | 260 | 745 |

Note: For pneumatic valves, the matching actuator model and relevant dimensions may vary depending on service medium, valve torque and control method.

# Ventilation Butterfly Valve



## Product Introduction:

Ventilation butterfly valves are specially designed for gas regulation, widely used in ventilation, dust removal, smoke exhaust and air handling systems. Featuring compact structure, low flow resistance and large flow area, they enable efficient gas cut-off and flow adjustment. Available in metal and soft seal types with stable sealing, flexible operation and precise control. Made of carbon steel, stainless steel and other materials, they feature high temperature resistance and wear resistance, suitable for normal and high temperature gas conditions, and are widely used in chemical, power, metallurgy, building ventilation and environmental protection industries to ensure stable gas conveying.

## Product Features:

- **Lightweight & easy installation:** Steel plate welded body and disc, simple structure, low installation difficulty and labor cost.
- **High temperature resistance & anti-jamming:** Reserved expansion gap prevents jamming caused by thermal expansion and contraction.
- **Stable & durable:** No vulnerable internal connecting rods or bolts, high reliability, long service life and low maintenance.

# Flanged Electric Ventilation Butterfly Valve

## Product Description

Flanged Electric Ventilation Butterfly Valve: Reliable flange connection, precise electric drive. For ventilation, dust removal and waste gas treatment, low flow resistance, flexible opening/closing, suitable for large-diameter air duct control in metallurgy, building materials, environmental protection.

## Main Performance Specifications

Nominal Diameter: DN50~DN2000

Nominal Pressure: 0.1MPa~0.6MPa

Medium Temperature: 0~450°C

Protection Grade: IP67

Applicable Media: Dust-laden flue gas, air, gas

Manufacturing Standard: JB/T 8692-2013

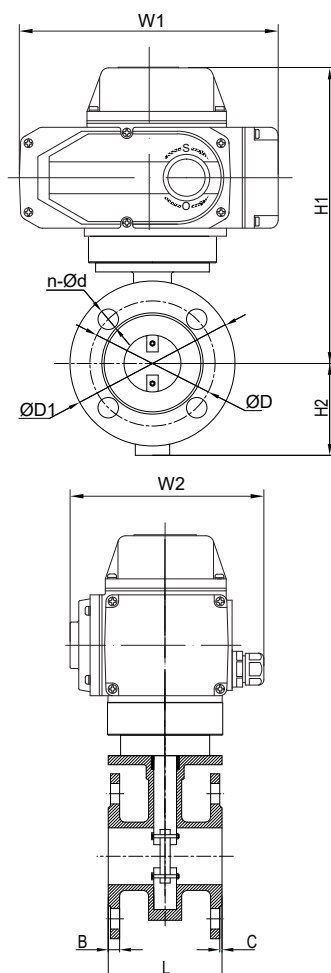
Face-to-Face Standard: GB/T 12221-2005

Inspection Standard: GB/T 13927-2022, API 598

Flange Standard: GB/T 9124.1-2019, GB/T 9124.2-2019, ASME B16.50, ASME B16.47



## Installation Dimension Drawing



| Size<br>(mm) | D1   | D    | L   | B  | C   | n-Φd   | H1   | H2   | W1  | W2  |
|--------------|------|------|-----|----|-----|--------|------|------|-----|-----|
| 50           | 165  | 125  | 100 | 8  | 1   | 4-Φ18  | 371  | 83   | 196 | 145 |
| 65           | 185  | 145  | 100 | 8  | 1   | 4-Φ18  | 391  | 93   | 196 | 145 |
| 80           | 200  | 160  | 100 | 10 | 1   | 8-Φ18  | 411  | 100  | 196 | 145 |
| 100          | 220  | 180  | 120 | 10 | 1   | 8-Φ18  | 446  | 110  | 196 | 145 |
| 125          | 250  | 210  | 120 | 10 | 1.5 | 8-Φ18  | 526  | 125  | 196 | 145 |
| 150          | 285  | 240  | 120 | 10 | 1.5 | 8-Φ22  | 561  | 143  | 196 | 145 |
| 200          | 340  | 295  | 140 | 12 | 1.5 | 8-Φ22  | 626  | 170  | 196 | 145 |
| 250          | 395  | 350  | 140 | 12 | 1.5 | 12-Φ22 | 715  | 198  | 196 | 145 |
| 300          | 445  | 400  | 170 | 15 | 1.5 | 12-Φ22 | 766  | 223  | 196 | 145 |
| 350          | 505  | 460  | 170 | 15 | 2   | 12-Φ22 | 848  | 253  | 255 | 182 |
| 400          | 565  | 515  | 190 | 15 | 2   | 16-Φ26 | 908  | 283  | 255 | 182 |
| 450          | 615  | 565  | 190 | 18 | 2   | 16-Φ26 | 948  | 308  | 255 | 182 |
| 500          | 670  | 620  | 190 | 18 | 2   | 20-Φ26 | 998  | 335  | 255 | 182 |
| 600          | 780  | 725  | 210 | 20 | 2   | 20-Φ30 | 1098 | 390  | 255 | 182 |
| 700          | 895  | 840  | 210 | 20 | 2   | 24-Φ30 | 1285 | 448  | 354 | 273 |
| 800          | 1015 | 950  | 250 | 20 | 2   | 24-Φ33 | 1405 | 508  | 354 | 273 |
| 900          | 1115 | 1050 | 250 | 25 | 2   | 24-Φ33 | 1520 | 558  | 354 | 273 |
| 1000         | 1230 | 1160 | 250 | 25 | 2   | 28-Φ36 | 1615 | 615  | 354 | 273 |
| 1200         | 1455 | 1380 | 250 | 25 | 3   | 32-Φ39 | 1840 | 728  | 354 | 273 |
| 1300         | 1565 | 1485 | 300 | 25 | 3   | 36-Φ39 | 1950 | 783  | 354 | 273 |
| 1400         | 1675 | 1590 | 300 | 25 | 3   | 36-Φ42 | 2068 | 838  | 354 | 273 |
| 1500         | 1795 | 1705 | 300 | 27 | 3   | 40-Φ42 | 2180 | 898  | 354 | 273 |
| 1600         | 1915 | 1820 | 300 | 28 | 3   | 40-Φ48 | 2300 | 958  | 354 | 273 |
| 1800         | 2115 | 2020 | 300 | 28 | 3   | 44-Φ48 | 2505 | 1058 | 354 | 273 |
| 2000         | 2325 | 2230 | 300 | 28 | 3   | 48-Φ48 | 2765 | 1163 | 354 | 273 |

# Flanged Pneumatic Ventilation Butterfly Valve

## Product Description

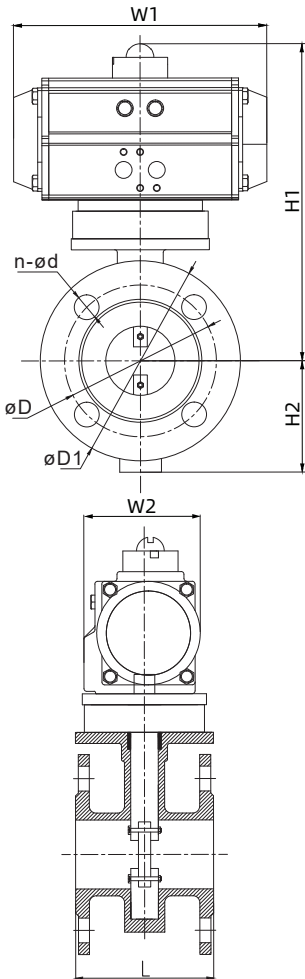
Firm leakproof flange connection and fast pneumatic operation. Designed for ventilation, dust removal and waste gas treatment systems, it features low flow resistance and sensitive regulation, ideal for precise control of large-caliber air ducts in metallurgy, building materials and environmental protection industries.

## Main Performance Specifications

- Nominal Diameter: DN50~DN2000
- Nominal Pressure: 0.1MPa~0.6MPa
- Medium Temperature: 0~450℃
- Protection Grade: Ip66
- Applicable Media: Dust-laden flue gas, air, gas
- Manufacturing Standard: JB/T 8692-2013
- Face-to-Face Standard: GB/T 12221-2005
- Inspection Standard: GB/T13927-2022, API 598
- Flange Standard: GB/T 9124.1-2019, GB/T 9124.2-2019, ASME B16.50, ASME B16.47



## Installation Dimension Drawing



| Size<br>(mm) | L   | D1  | D   | n-Φd   | H2  | Double-acting |     |     | Single-acting |     |     |
|--------------|-----|-----|-----|--------|-----|---------------|-----|-----|---------------|-----|-----|
|              |     |     |     |        |     | H1            | W1  | W2  | H1            | W1  | W2  |
| 50           | 100 | 165 | 125 | 4-Φ18  | 70  | 217           | 168 | 83  | 229           | 184 | 95  |
| 65           | 100 | 185 | 145 | 4-Φ18  | 80  | 240           | 184 | 95  | 257           | 262 | 109 |
| 80           | 100 | 200 | 160 | 8-Φ18  | 95  | 262           | 204 | 103 | 286           | 268 | 122 |
| 100          | 120 | 220 | 180 | 8-Φ18  | 105 | 290           | 262 | 109 | 348           | 301 | 142 |
| 125          | 120 | 250 | 210 | 8-Φ18  | 120 | 305           | 262 | 109 | 363           | 301 | 142 |
| 150          | 120 | 285 | 240 | 8-Φ22  | 132 | 334           | 268 | 122 | 393           | 390 | 152 |
| 200          | 140 | 340 | 295 | 8-Φ22  | 160 | 490           | 301 | 142 | 532           | 458 | 174 |
| 250          | 140 | 395 | 350 | 12-Φ22 | 187 | 537           | 390 | 152 | 595           | 525 | 206 |
| 300          | 170 | 445 | 400 | 12-Φ22 | 220 | 588           | 458 | 174 | 646           | 532 | 226 |
| 350          | 170 | 505 | 460 | 12-Φ22 | 245 | 711           | 525 | 206 | 771           | 602 | 260 |
| 400          | 190 | 565 | 515 | 16-Φ26 | 270 | 738           | 525 | 206 | 798           | 602 | 260 |

Note: For pneumatic valves, the matching actuator model and relevant dimensions may vary depending on service medium, valve torque and control method.

# Flanged Explosion-Proof Electric Ventilation Butterfly Valve

## Product Description

Stable vibration-resistant flange connection, explosion-proof actuator for flammable/explosive environments, precise quick electric regulation, low-resistance smooth flow. Designed for ventilation, dust removal and waste gas treatment, a safe reliable choice for air duct control in petrochemical, metallurgical and other high-risk fields.

## Main Performance Specifications

Nominal Diameter: DN50~DN2000

Nominal Pressure: 0.1MPa~0.6MPa

Medium Temperature: 0~450°C

Protection Grade: Ip67

Applicable Media: Dust-laden flue gas, air, gas

Manufacturing Standard: JB/T 8692-2013

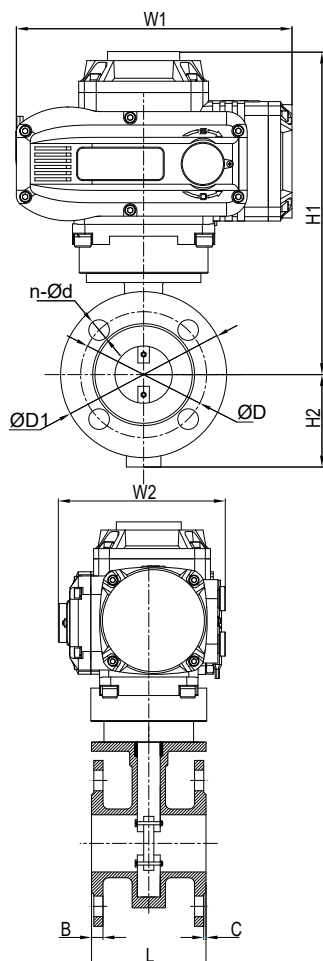
Face-to-Face Standard: GB/T 12221-2005

Inspection Standard: GB/T13927-2022, API 598

Flange Standard: GB/T 9124.1-2019, GB/T 9124.2-2019, ASME B16.50, ASME B16.47



## Installation Dimension Drawing



| Size<br>(mm) | D1   | D    | L   | B  | C   | n-Ød   | H1   | H2   | W1  | W2  |
|--------------|------|------|-----|----|-----|--------|------|------|-----|-----|
| 50           | 165  | 125  | 100 | 8  | 1   | 4-Φ18  | 371  | 83   | 196 | 145 |
| 65           | 185  | 145  | 100 | 8  | 1   | 4-Φ18  | 391  | 93   | 196 | 145 |
| 80           | 200  | 160  | 100 | 10 | 1   | 8-Φ18  | 411  | 100  | 196 | 145 |
| 100          | 220  | 180  | 120 | 10 | 1   | 8-Φ18  | 446  | 110  | 196 | 145 |
| 125          | 250  | 210  | 120 | 10 | 1.5 | 8-Φ18  | 526  | 125  | 196 | 145 |
| 150          | 285  | 240  | 120 | 10 | 1.5 | 8-Φ22  | 561  | 143  | 196 | 145 |
| 200          | 340  | 295  | 140 | 12 | 1.5 | 8-Φ22  | 626  | 170  | 196 | 145 |
| 250          | 395  | 350  | 140 | 12 | 1.5 | 12-Φ22 | 715  | 198  | 196 | 145 |
| 300          | 445  | 400  | 170 | 15 | 1.5 | 12-Φ22 | 766  | 223  | 196 | 145 |
| 350          | 505  | 460  | 170 | 15 | 2   | 12-Φ22 | 848  | 253  | 255 | 182 |
| 400          | 565  | 515  | 190 | 15 | 2   | 16-Φ26 | 908  | 283  | 255 | 182 |
| 450          | 615  | 565  | 190 | 18 | 2   | 16-Φ26 | 948  | 308  | 255 | 182 |
| 500          | 670  | 620  | 190 | 18 | 2   | 20-Φ26 | 998  | 335  | 255 | 182 |
| 600          | 780  | 725  | 210 | 20 | 2   | 20-Φ30 | 1098 | 390  | 255 | 182 |
| 700          | 895  | 840  | 210 | 20 | 2   | 24-Φ30 | 1285 | 448  | 354 | 273 |
| 800          | 1015 | 950  | 250 | 20 | 2   | 24-Φ33 | 1405 | 508  | 354 | 273 |
| 900          | 1115 | 1050 | 250 | 25 | 2   | 24-Φ33 | 1520 | 558  | 354 | 273 |
| 1000         | 1230 | 1160 | 250 | 25 | 2   | 28-Φ36 | 1615 | 615  | 354 | 273 |
| 1200         | 1455 | 1380 | 250 | 25 | 3   | 32-Φ39 | 1840 | 728  | 354 | 273 |
| 1300         | 1565 | 1485 | 300 | 25 | 3   | 36-Φ39 | 1950 | 783  | 354 | 273 |
| 1400         | 1675 | 1590 | 300 | 25 | 3   | 36-Φ42 | 2068 | 838  | 354 | 273 |
| 1500         | 1795 | 1705 | 300 | 27 | 3   | 40-Φ42 | 2180 | 898  | 354 | 273 |
| 1600         | 1915 | 1820 | 300 | 28 | 3   | 40-Φ48 | 2300 | 958  | 354 | 273 |
| 1800         | 2115 | 2020 | 300 | 28 | 3   | 44-Φ48 | 2505 | 1058 | 354 | 273 |
| 2000         | 2325 | 2230 | 300 | 28 | 3   | 48-Φ48 | 2765 | 1163 | 354 | 273 |

# V-Port Control Valve



## Product Introduction:

V-type ball valve is a high-precision control valve with cut-off and regulation functions, featuring V-shaped opening core and metal seat hard seal. Its V-opening provides strong shearing force to cut impurities and prevent clogging. With high regulation accuracy and equal percentage flow curve, it controls flow precisely. Made of stainless steel, carbon steel, etc., it resists high pressure, high temperature and corrosion, suitable for water, oil, gas and impurity-containing media, widely used in harsh conditions of petroleum, chemical and other industries.

## Product Features:

- **Lightweight & Easy Installation:** Integrated valve body with ultra-short flange distance, weight only 50% of similar ball valves, reducing installation and transportation costs;
- **Strong Anti-clogging & Shearing Force:** Precise scissor mouth between seat and core cuts pipeline impurities, ensuring unobstructed flow;
- **Precise & Stable Regulation:** V-type core solves traditional control problems; equal percentage flow ensures linear correspondence, with different opening shapes for various CV values and flow needs;
- **Excellent Sealing:** Double-sided spherical seal ensures zero leakage (Class IV), guaranteeing tight system operation;

# Ultra-short Flange Electric V - Port Control Valve

## Product Description

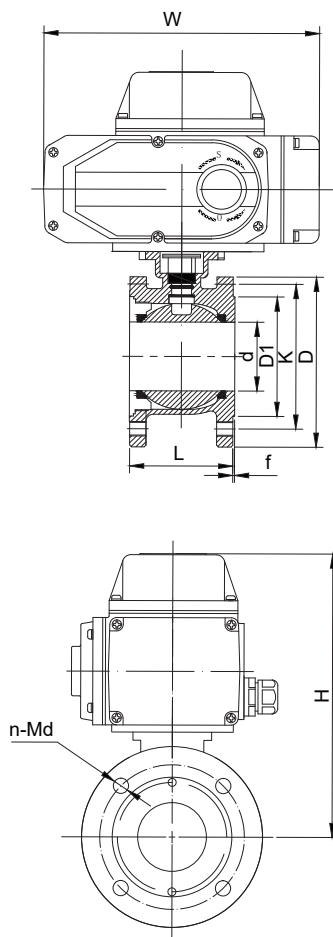
The ultra-short flanged electric V-type regulating valve adopts electric actuator to drive V-shaped plug for accurate flow control. It features compact structure and high regulation precision, ideal for space-limited working conditions requiring precise flow and pressure control in petrochemical, water treatment, metallurgy, power, food and pharmaceutical industries.

## Main Performance Specifications

- Nominal Diameter: DN15~DN200
- Nominal Pressure: 1.6MPa~6.4MPa
- Medium Temperature: ≤220°C
- Protection Grade: Ip67
- Applicable Media: Food, grease, fibrous fluid
- Manufacturing Standard: GB12237-2021, API 6D
- Face-to-Face Standard: GB/T 12221-2005
- Inspection Standard: API 598
- Flange Standard: JB/T 79-2015, GB/T 9124.1-2019, GB/T 9124.2-2019, ANSI B16.5, JIS B2239



## Installation Dimension Drawing



| Size |         | d   | D1  | K   | D   | n-Md   | f | L   | H   | W   |
|------|---------|-----|-----|-----|-----|--------|---|-----|-----|-----|
| mm   | in      |     |     |     |     |        |   |     |     |     |
| 15   | 1/2 "   | 15  | 45  | 65  | 95  | 4-M12  | 2 | 35  | 210 | 196 |
| 20   | 3/4 "   | 19  | 55  | 75  | 105 | 4-M12  | 2 | 38  | 216 | 196 |
| 25   | 1 "     | 25  | 65  | 85  | 115 | 4-M12  | 2 | 50  | 223 | 196 |
| 32   | 1-1/4 " | 28  | 76  | 100 | 140 | 4-M12  | 2 | 50  | 230 | 196 |
| 40   | 1-1/2 " | 38  | 83  | 110 | 148 | 4-M16  | 3 | 67  | 240 | 196 |
| 50   | 2 "     | 49  | 102 | 125 | 156 | 4-M16  | 3 | 72  | 250 | 196 |
| 65   | 2-1/2 " | 64  | 120 | 145 | 185 | 4-M16  | 3 | 94  | 298 | 255 |
| 80   | 3 "     | 73  | 143 | 160 | 200 | 8-M16  | 3 | 120 | 312 | 255 |
| 100  | 4 "     | 90  | 168 | 180 | 220 | 8-M16  | 3 | 141 | 322 | 255 |
| 125  | 5 "     | 110 | 185 | 210 | 245 | 8-M16  | 3 | 165 | 397 | 255 |
| 150  | 6 "     | 145 | 208 | 240 | 277 | 8-M20  | 3 | 225 | 422 | 255 |
| 200  | 8 "     | 195 | 265 | 395 | 335 | 12-M20 | 3 | 275 | 512 | 255 |

# Wafer Type Electric V-Port Control Valve

## Product Description

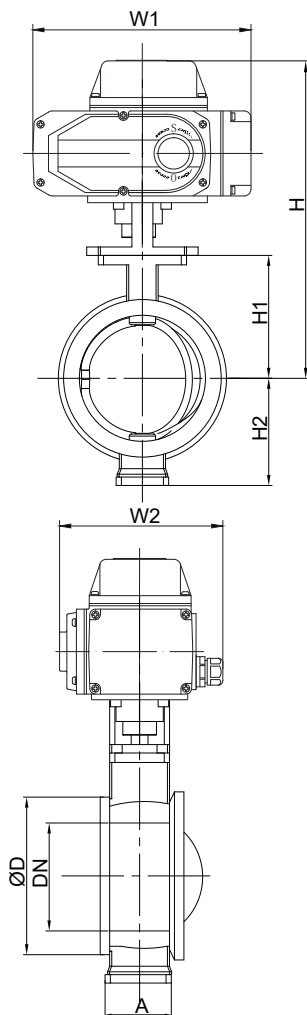
Wafer-type electric V-ball valve saves space with wafer mounting and delivers precise electric regulation. Its V-shaped plug features strong shearing force to prevent blockage, suitable for slurry, granular and other complex media with wide flow control range, ideal for chemical, papermaking, metallurgy and other industries.

## Main Performance Specifications

- Nominal Diameter: DN15~DN250
- Nominal Pressure: 1.6MPa~6.4MPa
- Medium Temperature: ≤220℃
- Protection Grade: Ip67
- Applicable Media: Food, grease, fibrous fluid
- Manufacturing Standard: GB12237-2021, API 6D
- Face-to-Face Standard: GB/T 12221-2005
- Inspection Standard: API 598



## Installation Dimension Drawing



| Size |        | A   | φD  | H1  | H2  | H   | W1  | W2  |
|------|--------|-----|-----|-----|-----|-----|-----|-----|
| mm   | in     |     |     |     |     |     |     |     |
| 15   | 1/2"   | 62  | 54  | 74  | 75  | 390 | 196 | 145 |
| 20   | 3/4"   | 62  | 54  | 74  | 75  | 390 | 196 | 145 |
| 25   | 1"     | 62  | 54  | 74  | 75  | 390 | 196 | 145 |
| 32   | 1-1/4" | 62  | 78  | 80  | 75  | 400 | 196 | 145 |
| 40   | 1-1/2" | 62  | 82  | 85  | 75  | 405 | 196 | 145 |
| 50   | 2"     | 75  | 100 | 87  | 95  | 430 | 196 | 145 |
| 65   | 2-1/2" | 80  | 120 | 105 | 115 | 498 | 255 | 182 |
| 80   | 3"     | 100 | 131 | 115 | 125 | 520 | 255 | 182 |
| 100  | 4"     | 115 | 158 | 125 | 125 | 530 | 255 | 182 |
| 125  | 5"     | 130 | 180 | 140 | 155 | 570 | 255 | 182 |
| 150  | 6"     | 160 | 216 | 153 | 165 | 600 | 255 | 182 |
| 200  | 8"     | 200 | 260 | 200 | 195 | 680 | 255 | 182 |
| 250  | 10"    | 240 | 325 | 225 | 225 | 730 | 255 | 182 |

# Flanged Electric V-Port Control Valve

## Product Description

Flanged electric V-type control valve features firm flanged connection with good sealing and precise efficient electric regulation. The V-shaped plug has strong shearing force, anti-clogging and wear-resistant, suitable for slurry, granular and other complex media, a reliable choice for flow control in chemical, metallurgical and papermaking industries.

## Main Performance Specifications

Nominal Diameter: DN15~DN250

Nominal Pressure: 1.6MPa~6.4MPa

Medium Temperature:  $\leq 220^{\circ}\text{C}$

Protection Grade: Ip67

Applicable Media: food, grease, fibrous fluid

Manufacturing Standard: GB12237-2021, API 6D

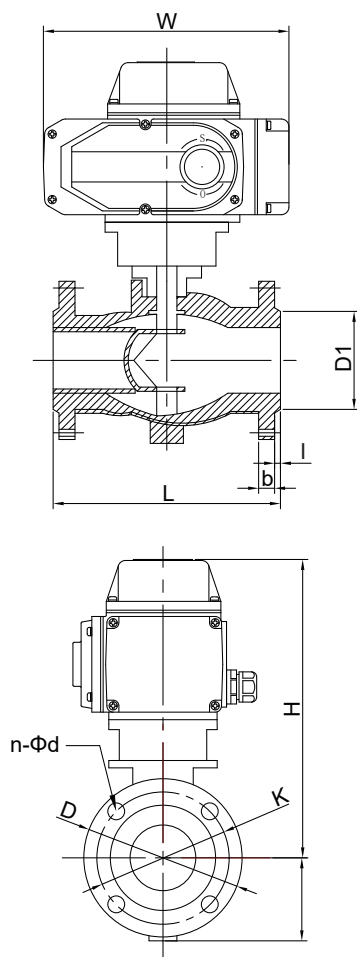
Face-to-Face Standard: GB/T 12221-2005

Inspection Standard: API 598

Flange Standard: JB/T 79-2015, GB/T 9124.1-2019, GB/T 9124.2-2019, ANSI B16.5, JIS B2239



## Installation Dimension Drawing



| Size |        | L   | D   | K   | D1  | n-Φd   | b  | i | H     | W   |
|------|--------|-----|-----|-----|-----|--------|----|---|-------|-----|
| mm   | in     |     |     |     |     |        |    |   |       |     |
| 15   | 1/2"   | 130 | 95  | 65  | 45  | 4-Φ14  | 14 | 2 | 209   | 196 |
| 20   | 3/4"   | 130 | 105 | 75  | 55  | 4-Φ14  | 16 | 2 | 211   | 196 |
| 25   | 1"     | 142 | 113 | 85  | 65  | 4-Φ14  | 18 | 2 | 218.5 | 196 |
| 32   | 1-1/4" | 165 | 140 | 100 | 78  | 4-Φ18  | 18 | 2 | 233   | 196 |
| 40   | 1-1/2" | 165 | 150 | 110 | 85  | 4-Φ18  | 18 | 2 | 234   | 196 |
| 50   | 2"     | 203 | 165 | 125 | 100 | 4-Φ18  | 20 | 2 | 248   | 196 |
| 65   | 2-1/2" | 222 | 185 | 145 | 120 | 8-Φ18  | 20 | 2 | 294   | 255 |
| 80   | 3"     | 241 | 200 | 160 | 135 | 8-Φ18  | 21 | 2 | 320   | 255 |
| 100  | 4"     | 305 | 220 | 180 | 155 | 8-Φ18  | 22 | 2 | 339   | 255 |
| 125  | 5"     | 356 | 250 | 210 | 184 | 8-Φ18  | 22 | 3 | 392   | 255 |
| 150  | 6"     | 394 | 285 | 240 | 210 | 8-Φ23  | 24 | 3 | 402   | 255 |
| 200  | 8"     | 457 | 340 | 295 | 265 | 12-Φ23 | 26 | 3 | 467   | 255 |

# Wafer Type Pneumatic V-Port Hard - Seated Control Valve

## Product Description

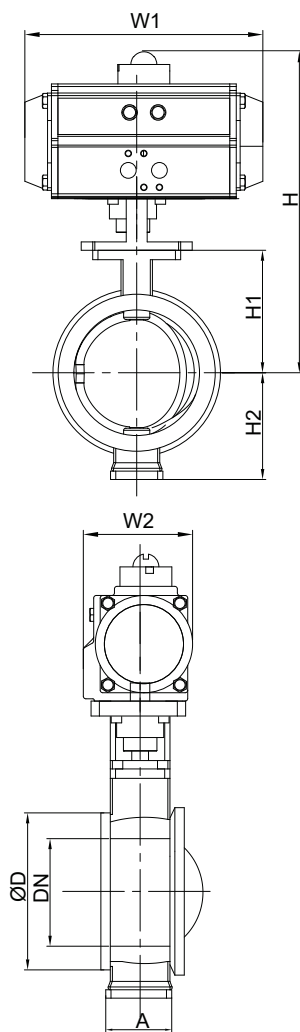
Space-saving wafer mounting for easy assembly, fast pneumatic operation. Hard-sealed V-core offers strong shearing force, wear and blockage resistance for particle and slurry media, ideal for precise flow control in chemical and mining industries.

## Main Performance Specifications

- Nominal Diameter: DN15~DN250
- Nominal Pressure: 1.6MPa~6.4MPa
- Medium Temperature: ≤220°C
- Protection Grade: Ip66
- Applicable Media: food, grease, fibrous fluid
- Manufacturing Standard: GB12237-2021, API 6D
- Face-to-Face Standard: GB/T 12221-2005
- Inspection Standard: API 598



## Installation Dimension Drawing



| Size |        | A   | φD  | H1  | H2  | Double-acting |     |     | Single-acting |     |     |
|------|--------|-----|-----|-----|-----|---------------|-----|-----|---------------|-----|-----|
| mm   | in     |     |     |     |     | H1            | W1  | W2  | H1            | W1  | W2  |
| 15   | 1/2"   | 62  | 54  | 74  | 75  | 186           | 147 | 72  | 186           | 147 | 72  |
| 20   | 3/4"   | 62  | 54  | 74  | 75  | 186           | 147 | 72  | 202           | 168 | 83  |
| 25   | 1"     | 62  | 54  | 74  | 75  | 202           | 168 | 83  | 214           | 184 | 95  |
| 32   | 1-1/4" | 62  | 78  | 80  | 75  | 208           | 168 | 83  | 229           | 204 | 103 |
| 40   | 1-1/2" | 62  | 82  | 85  | 75  | 225           | 184 | 95  | 242           | 262 | 109 |
| 50   | 2"     | 75  | 100 | 87  | 95  | 236           | 204 | 103 | 260           | 268 | 122 |
| 65   | 2-1/2" | 80  | 120 | 105 | 115 | 262           | 262 | 109 | 320           | 301 | 142 |
| 80   | 3"     | 100 | 131 | 115 | 125 | 288           | 268 | 122 | 347           | 390 | 152 |
| 100  | 4"     | 115 | 158 | 125 | 125 | 340           | 301 | 142 | 382           | 458 | 174 |
| 125  | 5"     | 130 | 180 | 140 | 155 | 355           | 301 | 142 | 397           | 458 | 174 |
| 150  | 6"     | 160 | 216 | 153 | 165 | 385           | 390 | 152 | 443           | 525 | 206 |
| 200  | 8"     | 200 | 260 | 200 | 195 | 457           | 458 | 174 | 515           | 532 | 226 |
| 250  | 10"    | 240 | 325 | 225 | 225 | 515           | 525 | 206 | 575           | 602 | 260 |

Note: For pneumatic valves, the matching actuator model and relevant dimensions may vary depending on service medium, valve torque and control method.

# Flanged Pneumatic V-Port Hard-Seated Control Valve

## Product Description

Flanged pneumatic V-type hard-seal control valve: firm leakproof flange connection, fast pneumatic opening/closing. Hard-seal structure resists high pressure and wear; V-core with strong shearing force handles slurry and particles easily, an excellent tool for flow control in harsh chemical, mining, metallurgical conditions.

## Main Performance Specifications

Nominal Diameter: DN15~DN250

Nominal Pressure: 1.6MPa~6.4MPa

Medium Temperature:  $\leq 220^{\circ}\text{C}$

Protection Grade: Ip66

Applicable Media: Food, grease, fibrous fluid

Manufacturing Standard: GB12237-2021, API 6D

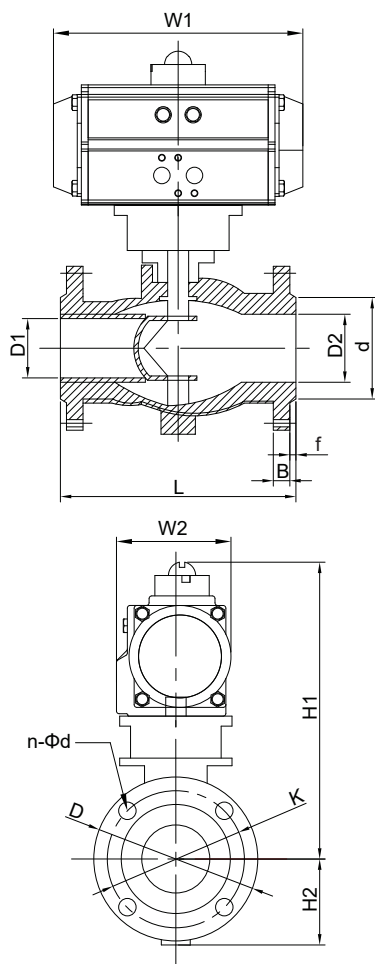
Face-to-Face Standard: GB/T 12221-2005

Inspection Standard: API 598

Flange Standard: JB/T 79-2015, GB/T 9124.1-2019, GB/T 9124.2-2019, ANSI B16.5, JIS B2239



## Installation Dimension Drawing



| Size |        | D1  | D2  | d   | K   | D   | n-φd   | B  | F | L   | H2  | Double-acting |     |     | Single-acting |     |     |
|------|--------|-----|-----|-----|-----|-----|--------|----|---|-----|-----|---------------|-----|-----|---------------|-----|-----|
| mm   | in     |     |     |     |     |     |        |    |   |     |     | H1            | W1  | W2  | H1            | W1  | W2  |
| 15   | 1/2"   | 15  | 28  | 45  | 65  | 95  | 4-Φ14  | 14 | 2 | 102 | 55  | 276           | 147 | 72  | 276           | 147 | 72  |
| 20   | 3/4"   | 15  | 28  | 55  | 75  | 105 | 4-Φ14  | 14 | 2 | 102 | 60  | 286           | 147 | 72  | 302           | 168 | 83  |
| 25   | 1"     | 20  | 40  | 66  | 85  | 115 | 4-Φ14  | 14 | 2 | 102 | 65  | 312           | 168 | 83  | 324           | 184 | 95  |
| 32   | 1-1/4" | 25  | 46  | 78  | 100 | 135 | 4-Φ18  | 16 | 2 | 114 | 75  | 322           | 168 | 83  | 343           | 204 | 103 |
| 40   | 1-1/2" | 32  | 54  | 85  | 110 | 145 | 4-Φ18  | 16 | 2 | 114 | 80  | 344           | 184 | 95  | 361           | 262 | 109 |
| 50   | 2"     | 40  | 65  | 100 | 125 | 160 | 4-Φ18  | 16 | 2 | 124 | 85  | 363           | 204 | 103 | 387           | 268 | 122 |
| 65   | 2-1/2" | 50  | 80  | 120 | 145 | 180 | 4-Φ18  | 18 | 2 | 145 | 100 | 381           | 262 | 109 | 439           | 301 | 142 |
| 80   | 3"     | 65  | 100 | 135 | 160 | 195 | 8-Φ18  | 20 | 2 | 165 | 105 | 391           | 268 | 122 | 450           | 390 | 152 |
| 100  | 4"     | 80  | 110 | 155 | 180 | 215 | 8-Φ18  | 20 | 2 | 194 | 115 | 493           | 301 | 142 | 535           | 458 | 174 |
| 125  | 5"     | 100 | 135 | 185 | 210 | 245 | 8-Φ18  | 22 | 3 | 210 | 130 | 497           | 301 | 142 | 539           | 458 | 174 |
| 150  | 6"     | 125 | 165 | 210 | 240 | 280 | 8-Φ23  | 24 | 3 | 229 | 150 | 534           | 390 | 152 | 592           | 525 | 206 |
| 200  | 8"     | 160 | 205 | 265 | 295 | 335 | 12-Φ23 | 26 | 3 | 243 | 175 | 589           | 458 | 174 | 647           | 532 | 226 |
| 250  | 10"    | 210 | 260 | 320 | 355 | 405 | 12-Φ26 | 30 | 3 | 297 | 220 | 662           | 525 | 206 | 722           | 602 | 260 |

Note: For pneumatic valves, the matching actuator model and relevant dimensions may vary depending on service medium, valve torque and control method.

# Wafer Type Explosion - Proof Electric V - Port Hard - Seated Control Valve

## Product Description

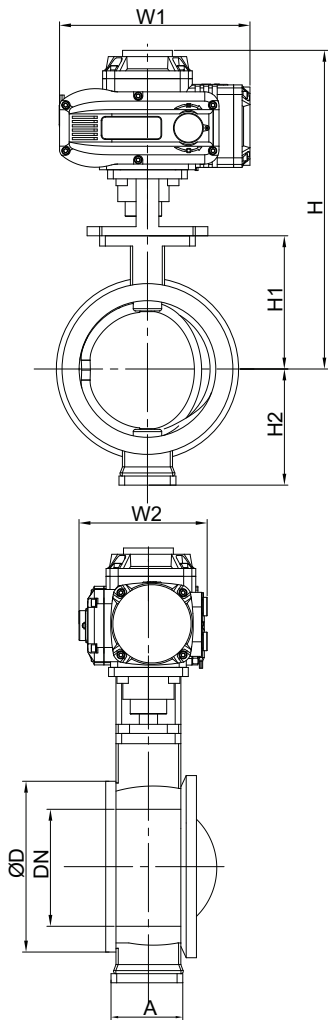
Space-saving wafer design for easy installation. Explosion-proof motor suits hazardous areas. High-pressure wear-resistant hard seal, shear-proof V-core for smooth flow, ideal for oil, gas and chemical industries.

## Main Performance Specifications

- Nominal Diameter: DN15~DN250
- Nominal Pressure: 1.6MPa~6.4MPa
- Medium Temperature: ≤220°C
- Protection Grade: Ip67
- Applicable Media: Food, grease, fibrous fluid
- Manufacturing Standard: GB12237-2021, API 6D
- Face-to-Face Standard: GB/T 12221-2005
- Inspection Standard: API 598



## Installation Dimension Drawing



| Size |        | A   | φd  | H1  | H2  | H   | W1  | W2  |
|------|--------|-----|-----|-----|-----|-----|-----|-----|
| mm   | in     |     |     |     |     |     |     |     |
| 15   | 1/2"   | 62  | 54  | 74  | 75  | 420 | 217 | 150 |
| 20   | 3/4"   | 62  | 54  | 74  | 75  | 420 | 217 | 150 |
| 25   | 1"     | 62  | 54  | 74  | 75  | 420 | 217 | 150 |
| 32   | 1 1/4" | 62  | 78  | 80  | 75  | 430 | 217 | 150 |
| 40   | 1 1/2" | 62  | 82  | 85  | 75  | 435 | 217 | 150 |
| 50   | 2"     | 75  | 100 | 87  | 95  | 459 | 217 | 150 |
| 65   | 2 1/2" | 80  | 120 | 105 | 115 | 522 | 268 | 180 |
| 80   | 3"     | 100 | 131 | 115 | 125 | 544 | 268 | 180 |
| 100  | 4"     | 115 | 158 | 125 | 125 | 554 | 268 | 180 |
| 125  | 5"     | 130 | 180 | 140 | 155 | 594 | 268 | 180 |
| 150  | 6"     | 160 | 216 | 153 | 165 | 624 | 268 | 180 |
| 200  | 8"     | 200 | 260 | 200 | 195 | 704 | 268 | 180 |
| 250  | 10"    | 240 | 325 | 225 | 225 | 754 | 268 | 180 |

# Flanged Explosion-Proof Electric V-Port Hard-Seated Control Valve

## Product Description

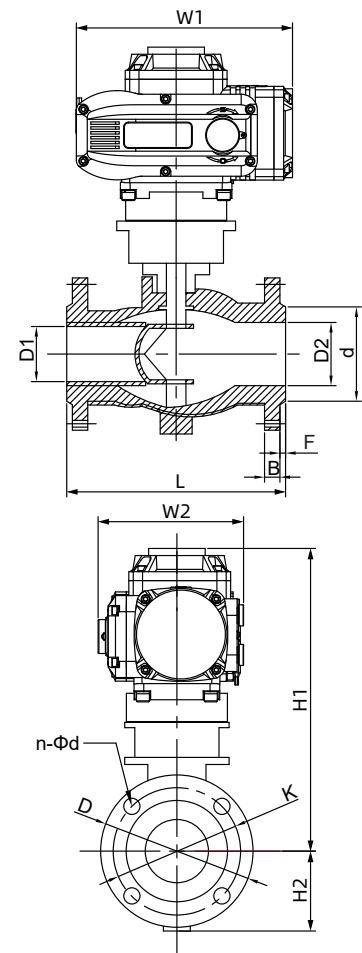
Flanged explosion-proof electric V-type hard-seal valve features tight sealing for large pipes. Explosion-proof design fits hazardous areas. Erosion-resistant hard seal and high-shear V-core precisely regulate particle and fibrous media, perfect for petrochemical and coal chemical industries.

## Main Performance Specifications

- Nominal Size: DN15~DN250
- Nominal Pressure: 1.6MPa~6.4MPa
- Medium Temperature: ≤220℃
- Protection Class: Ip67
- Applicable Media: Food, grease, fibrous fluid
- Manufacturing Standard: GB12237-2021, API 6D
- Face-to-Face Standard: GB/T 12221-2005
- Inspection Standard: API 598
- Flange Standard: JB/T 79-2015, GB/T 9124.1-2019, GB/T 9124.2-2019, ANSI B16.5, JIS B2239



## Installation Dimension Drawing



| Size |        | D1  | D2  | d   | K   | D   | n-φd   | B  | F | L   | H1  | H2  | W1  | W2  |
|------|--------|-----|-----|-----|-----|-----|--------|----|---|-----|-----|-----|-----|-----|
| mm   | in     |     |     |     |     |     |        |    |   |     |     |     |     |     |
| 15   | 1/2"   | 15  | 28  | 45  | 65  | 95  | 4-Φ14  | 14 | 2 | 102 | 320 | 55  | 217 | 150 |
| 20   | 3/4"   | 15  | 28  | 55  | 75  | 105 | 4-Φ14  | 14 | 2 | 102 | 330 | 60  | 217 | 150 |
| 25   | 1"     | 20  | 40  | 66  | 85  | 115 | 4-Φ14  | 14 | 2 | 102 | 340 | 65  | 217 | 150 |
| 32   | 1-1/4" | 25  | 46  | 78  | 100 | 135 | 4-Φ18  | 16 | 2 | 114 | 350 | 75  | 217 | 150 |
| 40   | 1-1/2" | 32  | 54  | 85  | 110 | 145 | 4-Φ18  | 16 | 2 | 114 | 360 | 80  | 217 | 150 |
| 50   | 2"     | 40  | 65  | 100 | 125 | 160 | 4-Φ18  | 16 | 2 | 124 | 369 | 85  | 217 | 150 |
| 65   | 2-1/2" | 50  | 80  | 120 | 145 | 180 | 4-Φ18  | 18 | 2 | 145 | 412 | 100 | 268 | 180 |
| 80   | 3"     | 65  | 100 | 135 | 160 | 195 | 8-Φ18  | 20 | 2 | 165 | 423 | 105 | 268 | 180 |
| 100  | 4"     | 80  | 110 | 155 | 180 | 215 | 8-Φ18  | 20 | 2 | 194 | 450 | 115 | 268 | 180 |
| 125  | 5"     | 100 | 135 | 185 | 210 | 245 | 8-Φ18  | 22 | 3 | 210 | 454 | 130 | 268 | 180 |
| 150  | 6"     | 125 | 165 | 210 | 240 | 280 | 8-Φ23  | 24 | 3 | 229 | 474 | 150 | 268 | 180 |
| 200  | 8"     | 160 | 205 | 265 | 295 | 335 | 12-Φ23 | 26 | 3 | 243 | 504 | 175 | 268 | 180 |
| 250  | 10"    | 210 | 260 | 320 | 355 | 405 | 12-Φ26 | 30 | 3 | 297 | 544 | 220 | 268 | 180 |
| 300  | 12"    | 250 | 322 | 375 | 410 | 460 | 12-Φ26 | 30 | 3 | 340 | 624 | 250 | 268 | 180 |
| 350  | 14"    | 300 | 365 | 435 | 470 | 520 | 16-Φ26 | 34 | 3 | 422 | 654 | 280 | 268 | 180 |

# Hard-sealed Ball Valve



## Product Introduction:

Metal-seated ball valve is a high-strength control valve with metal-to-metal sealing structure. Hardened valve core and seat deliver superior wear, high temperature and pressure resistance. It features stable sealing, low leakage, moderate operating torque and flexible operation. Made of carbon steel and stainless steel, it suits steam, high-temperature oil, gas and particle-laden media, ideal for severe working conditions in petroleum, chemical, power and metallurgy industries with long service life and low maintenance cost.

## Product Features:

- **Enhanced sealing performance:** Optimized non-threaded flange sealing surface reaches Class V sealing level for reliable sealing and zero flange leakage.
- **Smooth anti-blocking flow:** Built-in shear structure cuts sundries effectively to keep pipelines unobstructed.
- **Accurate high-temperature regulation:** Extended stem improves heat dissipation; integrated stem and ball core keeps rotation error  $\leq 0.5\%$  to eliminate mechanical backlash.
- **Outstanding heat resistance:** Stellite hardfaced seal withstands up to 350°C for stable operation under high-temperature harsh conditions.

# Wafer Type Electric Hard-Seated Ball Valve

## Product Description

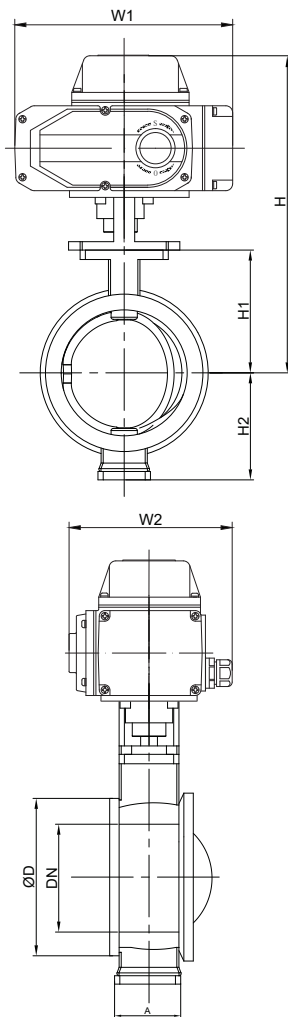
Compact wafer electric hard-seal ball valve, easy installation without extra flanges. High pressure & wear resistant, fast on-off and zero leakage. Ideal for steam and high-temperature oil in power, metallurgy and heating systems.

## Main Performance Specifications

- Nominal Diameter: DN15~DN350
- Nominal Pressure: 1.6MPa~6.4MPa
- Medium Temperature: ≤450°C
- Protection Class: Ip67
- Applicable Media: Slurry (mineral, coal, pulp), water, oil, gas
- Manufacturing Standard: GB/T 12237-2021
- Face-to-Face Standard: GB/T 12221-2005
- Inspection Standard: GB/T 13927-2022



## Installation Dimension Drawing



| Size                                                                                                                                                                                      |        | A   | φD  | H1  | H2  | H   | W1  | W2  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-----|-----|-----|-----|-----|-----|-----|
| mm                                                                                                                                                                                        | in     |     |     |     |     |     |     |     |
| 15                                                                                                                                                                                        | 1/2"   | 62  | 54  | 74  | 75  | 390 | 196 | 145 |
| 20                                                                                                                                                                                        | 3/4"   | 62  | 54  | 74  | 75  | 390 | 196 | 145 |
| 25                                                                                                                                                                                        | 1"     | 62  | 54  | 74  | 75  | 390 | 196 | 145 |
| 32                                                                                                                                                                                        | 1-1/4" | 62  | 78  | 80  | 75  | 400 | 196 | 145 |
| 40                                                                                                                                                                                        | 1-1/2" | 62  | 82  | 85  | 75  | 405 | 196 | 145 |
| 50                                                                                                                                                                                        | 2"     | 75  | 100 | 87  | 95  | 430 | 196 | 145 |
| 65                                                                                                                                                                                        | 2-1/2" | 80  | 120 | 105 | 115 | 498 | 255 | 182 |
| 80                                                                                                                                                                                        | 3"     | 100 | 131 | 115 | 125 | 520 | 255 | 182 |
| 100                                                                                                                                                                                       | 4"     | 115 | 158 | 125 | 125 | 530 | 255 | 182 |
| 125                                                                                                                                                                                       | 5"     | 130 | 180 | 140 | 155 | 570 | 255 | 182 |
| 150                                                                                                                                                                                       | 6"     | 160 | 216 | 153 | 165 | 600 | 255 | 182 |
| 200                                                                                                                                                                                       | 8"     | 200 | 260 | 200 | 195 | 680 | 255 | 182 |
| 250                                                                                                                                                                                       | 10"    | 240 | 325 | 225 | 225 | 730 | 255 | 182 |
| Hydrostatic test pressure for valve body shall be 1.5 times the maximum working pressure.<br>Sealing test pressure shall be 1.1 times the maximum working pressure.<br>Test Medium: Water |        |     |     |     |     |     |     |     |

# Flanged Electric Hard-Seated Ball Valve

## Product Description

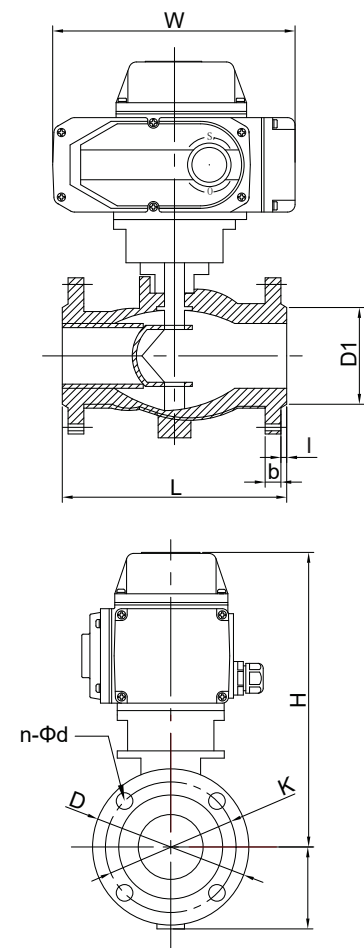
Flanged electric hard-seal ball valve features sturdy high-pressure connection for large pipes. High temp & wear resistant, smooth operation with zero leakage. Ideal for steam and hot gas, reliable for petrochemical, power and metallurgy.

## Main Performance Specifications

- Nominal Size: DN15~DN350
- Nominal Pressure: 1.6MPa~6.4MPa
- Medium Temperature: ≤450°C
- Protection Class: Ip67
- Applicable Media: Mineral slurry, coal slurry, pulp, water, oil, gas
- Manufacturing Standard: GB/T 12237-2021
- Face-to-Face Standard: GB/T 12221-2005
- Test Standard: GB/T 13927-2022
- Flange Standard: GB/T 9124.1-2019, GB/T 9124.2-2019, GB17241.6-2008



## Installation Dimension Drawing



| Size |        | D1  | D2  | d   | K   | D   | M      | B  | F | L   | H1  | H2  | W1  | W2  |
|------|--------|-----|-----|-----|-----|-----|--------|----|---|-----|-----|-----|-----|-----|
| mm   | in     |     |     |     |     |     |        |    |   |     |     |     |     |     |
| 15   | 1/2"   | 15  | 28  | 45  | 65  | 95  | 4-Φ14  | 14 | 2 | 102 | 290 | 55  | 196 | 145 |
| 20   | 3/4"   | 15  | 28  | 55  | 75  | 105 | 4-Φ14  | 14 | 2 | 102 | 300 | 60  | 196 | 145 |
| 25   | 1"     | 20  | 40  | 66  | 85  | 115 | 4-Φ14  | 14 | 2 | 102 | 310 | 65  | 196 | 145 |
| 32   | 1-1/4" | 25  | 46  | 78  | 100 | 135 | 4-Φ18  | 16 | 2 | 114 | 320 | 75  | 196 | 145 |
| 40   | 1-1/2" | 32  | 54  | 85  | 110 | 145 | 4-Φ18  | 16 | 2 | 114 | 330 | 80  | 196 | 145 |
| 50   | 2"     | 40  | 65  | 100 | 125 | 160 | 4-Φ18  | 16 | 2 | 124 | 340 | 85  | 196 | 145 |
| 65   | 2-1/2" | 50  | 80  | 120 | 145 | 180 | 4-Φ18  | 18 | 2 | 145 | 350 | 100 | 196 | 145 |
| 80   | 3"     | 65  | 100 | 135 | 160 | 195 | 8-Φ18  | 20 | 2 | 165 | 360 | 105 | 196 | 145 |
| 100  | 4"     | 80  | 110 | 155 | 180 | 215 | 8-Φ18  | 20 | 2 | 194 | 420 | 115 | 196 | 145 |
| 125  | 5"     | 100 | 135 | 185 | 210 | 245 | 8-Φ18  | 22 | 3 | 210 | 430 | 130 | 255 | 184 |
| 150  | 6"     | 125 | 165 | 210 | 240 | 280 | 8-Φ23  | 24 | 3 | 229 | 450 | 150 | 255 | 184 |
| 200  | 8"     | 160 | 205 | 265 | 295 | 335 | 12-Φ23 | 26 | 3 | 243 | 480 | 175 | 255 | 184 |
| 250  | 10"    | 210 | 260 | 320 | 355 | 405 | 12-Φ26 | 30 | 3 | 297 | 520 | 220 | 255 | 184 |
| 300  | 12"    | 250 | 322 | 375 | 410 | 460 | 12-Φ26 | 30 | 3 | 340 | 600 | 250 | 255 | 184 |
| 350  | 14"    | 300 | 365 | 435 | 470 | 520 | 16-Φ26 | 34 | 3 | 422 | 630 | 280 | 255 | 184 |

# Wafer Type Pneumatic Hard-Seated Ball Valve

## Product Description

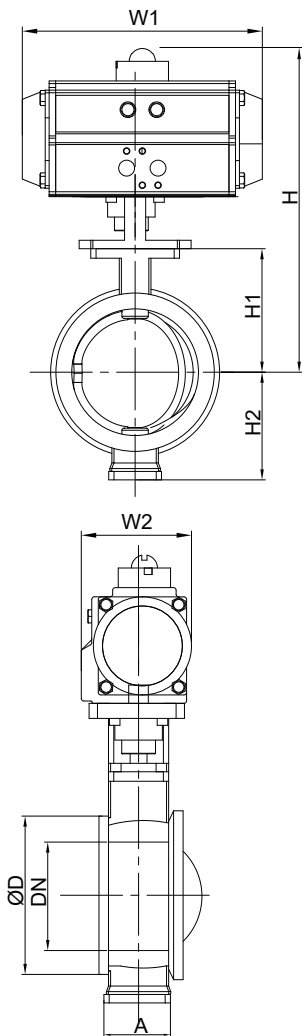
Wafer-type pneumatic hard-seal ball valve: space-saving, easy to assemble/disassemble, fast & responsive pneumatic operation. High-pressure, wear-resistant hard-seal with excellent sealing, suitable for steam and high-temperature fluids, ideal for chemical and thermal systems.

## Main Performance Specifications

- Nominal Size: DN15~DN350
- Nominal Pressure: 1.6MPa~6.4MPa
- Medium Temperature: ≤450℃
- Protection Class: Ip66
- Applicable Media: Mineral slurry, coal slurry, pulp, water, oil, gas
- Manufacturing Standard: GB/T 12237-2021
- Face-to-Face Standard: GB/T 12221-2005
- Inspection Standard: GB/T 13927-2022



## Installation Dimension Drawing



| Size |        | A   | φD  | H1  | H2  | Double-acting |     |     | Single-acting |     |     |
|------|--------|-----|-----|-----|-----|---------------|-----|-----|---------------|-----|-----|
| mm   | in     |     |     |     |     | H1            | W1  | W2  | H1            | W1  | W2  |
| 15   | 1/2"   | 62  | 54  | 74  | 75  | 186           | 147 | 72  | 186           | 147 | 72  |
| 20   | 3/4"   | 62  | 54  | 74  | 75  | 186           | 147 | 72  | 202           | 168 | 83  |
| 25   | 1"     | 62  | 54  | 74  | 75  | 202           | 168 | 83  | 214           | 184 | 95  |
| 32   | 1-1/4" | 62  | 78  | 80  | 75  | 208           | 168 | 83  | 229           | 204 | 103 |
| 40   | 1-1/2" | 62  | 82  | 85  | 75  | 225           | 184 | 95  | 242           | 262 | 109 |
| 50   | 2"     | 75  | 100 | 87  | 95  | 236           | 204 | 103 | 260           | 268 | 122 |
| 65   | 2-1/2" | 80  | 120 | 105 | 115 | 262           | 262 | 109 | 320           | 301 | 142 |
| 80   | 3"     | 100 | 131 | 115 | 125 | 288           | 268 | 122 | 347           | 390 | 152 |
| 100  | 4"     | 115 | 158 | 125 | 125 | 340           | 301 | 142 | 382           | 458 | 174 |
| 125  | 5"     | 130 | 180 | 140 | 155 | 355           | 301 | 142 | 397           | 458 | 174 |
| 150  | 6"     | 160 | 216 | 153 | 165 | 385           | 390 | 152 | 443           | 525 | 206 |
| 200  | 8"     | 200 | 260 | 200 | 195 | 457           | 458 | 174 | 515           | 532 | 226 |

Note: For pneumatic valves, the matching actuator model and relevant dimensions may vary depending on service medium, valve torque and control method.

# Flanged Pneumatic Hard-Seated Ball Valve

## Product Description

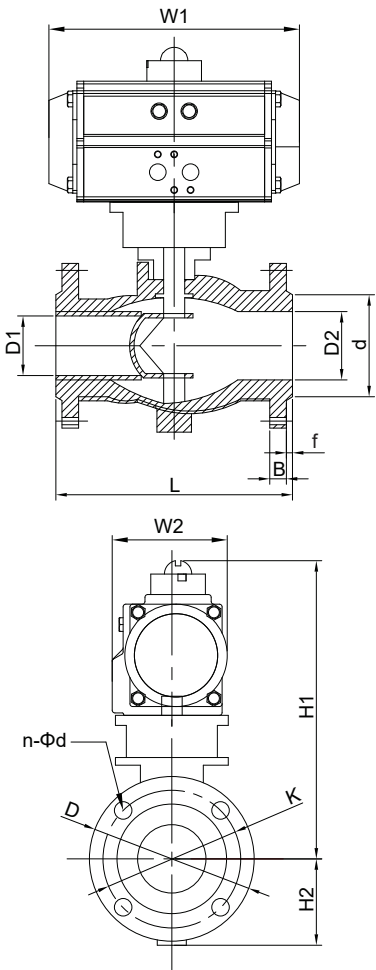
Flanged pneumatic hard-seal valve: stable flange connection, fast response, wear-resistant, zero leakage. Suitable for petrochemical and heating fields for precise control.

## Main Performance Specifications

Nominal Diameter: DN15~DN350  
Nominal Pressure: 1.6MPa~6.4MPa  
Medium Temperature: ≤450°C  
Protection Class: Ip66  
Applicable Media: Slurry, pulp, water, oil, gas  
Manufacturing Standard: GB/T (GB/T 12237-2021)  
Face-to-Face Dimension Standard: GB/T (GB/T 12221-2005)  
Inspection Standard: GB/T (GB/T 13927-2022)  
Flange Standard: GB/T 9124.1-2019, GB/T 9124.2-2019, GB17241.6-2008



## Installation Dimension Drawing



| Size |        | D1  | D2  | d   | K   | D   | n-φd   | B  | F | L   | H2  | Double-acting |     |     | Single-acting |     |     |
|------|--------|-----|-----|-----|-----|-----|--------|----|---|-----|-----|---------------|-----|-----|---------------|-----|-----|
| mm   | in     |     |     |     |     |     |        |    |   |     |     | H1            | W1  | W2  | H1            | W1  | W2  |
| 15   | 1/2"   | 15  | 28  | 45  | 65  | 95  | 4-Φ14  | 14 | 2 | 102 | 55  | 276           | 147 | 72  | 276           | 147 | 72  |
| 20   | 3/4"   | 15  | 28  | 55  | 75  | 105 | 4-Φ14  | 14 | 2 | 102 | 60  | 286           | 147 | 72  | 302           | 168 | 83  |
| 25   | 1"     | 20  | 40  | 66  | 85  | 115 | 4-Φ14  | 14 | 2 | 102 | 65  | 312           | 168 | 83  | 324           | 184 | 95  |
| 32   | 1-1/4" | 25  | 46  | 78  | 100 | 135 | 4-Φ18  | 16 | 2 | 114 | 75  | 322           | 168 | 83  | 343           | 204 | 103 |
| 40   | 1-1/2" | 32  | 54  | 85  | 110 | 145 | 4-Φ18  | 16 | 2 | 114 | 80  | 344           | 184 | 95  | 361           | 262 | 109 |
| 50   | 2"     | 40  | 65  | 100 | 125 | 160 | 4-Φ18  | 16 | 2 | 124 | 85  | 363           | 204 | 103 | 387           | 268 | 122 |
| 65   | 2-1/2" | 50  | 80  | 120 | 145 | 180 | 4-Φ18  | 18 | 2 | 145 | 100 | 381           | 262 | 109 | 439           | 301 | 142 |
| 80   | 3"     | 65  | 100 | 135 | 160 | 195 | 8-Φ18  | 20 | 2 | 165 | 105 | 391           | 268 | 122 | 450           | 390 | 152 |
| 100  | 4"     | 80  | 110 | 155 | 180 | 215 | 8-Φ18  | 20 | 2 | 194 | 115 | 493           | 301 | 142 | 535           | 458 | 174 |
| 125  | 5"     | 100 | 135 | 185 | 210 | 245 | 8-Φ18  | 22 | 3 | 210 | 130 | 497           | 301 | 142 | 539           | 458 | 174 |
| 150  | 6"     | 125 | 165 | 210 | 240 | 280 | 8-Φ23  | 24 | 3 | 229 | 150 | 534           | 390 | 152 | 592           | 525 | 206 |
| 200  | 8"     | 160 | 205 | 265 | 295 | 335 | 12-Φ23 | 26 | 3 | 243 | 175 | 589           | 458 | 174 | 647           | 532 | 226 |
| 250  | 10"    | 210 | 260 | 320 | 355 | 405 | 12-Φ26 | 30 | 3 | 297 | 220 | 662           | 525 | 206 | 722           | 602 | 260 |

Note: For pneumatic valves, the matching actuator model and relevant dimensions may vary depending on service medium, valve torque and control method.

# Wafer Type Explosion-Proof Electric Hard-Seated Ball Valve

## Product Description

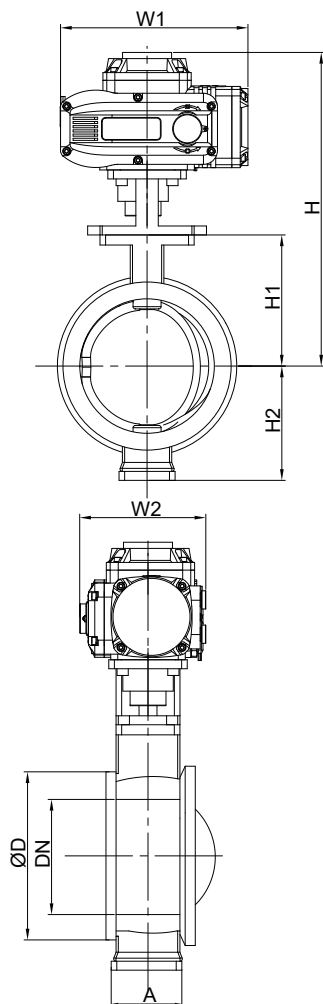
Compact wafer explosion-proof electric hard-seal ball valve, easy to install. High temp & pressure resistant with tight seal. Safe for flammable media, perfect for oil, gas and chemical hazardous environments.

## Main Performance Specifications

- Nominal Diameter: DN15~DN350
- Nominal Pressure: 1.6MPa~6.4MPa
- Medium Temperature: ≤450°C
- Protection Class: Ip67
- Applicable Media: Mineral slurry, coal slurry, paper pulp, water, oil products and gas
- Manufacturing Standard: GB/T 12237-2021
- Face-to-Face Dimension Standard: GB/T 12221-2005
- Inspection Standard: GB/T 13927-2022



## Installation Dimension Drawing



| Size |        | A   | φD  | H1  | H2  | H   | W1  | W2  |
|------|--------|-----|-----|-----|-----|-----|-----|-----|
| mm   | in     |     |     |     |     |     |     |     |
| 15   | 1/2"   | 62  | 54  | 74  | 75  | 420 | 217 | 150 |
| 20   | 3/4"   | 62  | 54  | 74  | 75  | 420 | 217 | 150 |
| 25   | 1"     | 62  | 54  | 74  | 75  | 420 | 217 | 150 |
| 32   | 1-1/4" | 62  | 78  | 80  | 75  | 430 | 217 | 150 |
| 40   | 1-1/2" | 62  | 82  | 85  | 75  | 435 | 217 | 150 |
| 50   | 2"     | 75  | 100 | 87  | 95  | 459 | 217 | 150 |
| 65   | 2-1/2" | 80  | 120 | 105 | 115 | 522 | 268 | 180 |
| 80   | 3"     | 100 | 131 | 115 | 125 | 544 | 268 | 180 |
| 100  | 4"     | 115 | 158 | 125 | 125 | 554 | 268 | 180 |
| 125  | 5"     | 130 | 180 | 140 | 155 | 594 | 268 | 180 |
| 150  | 6"     | 160 | 216 | 153 | 165 | 624 | 268 | 180 |
| 200  | 8"     | 200 | 260 | 200 | 195 | 704 | 268 | 180 |
| 250  | 10"    | 240 | 325 | 225 | 225 | 754 | 268 | 180 |

# Flanged Explosion-Proof Electric Hard-Seated Ball Valve

## Product Description

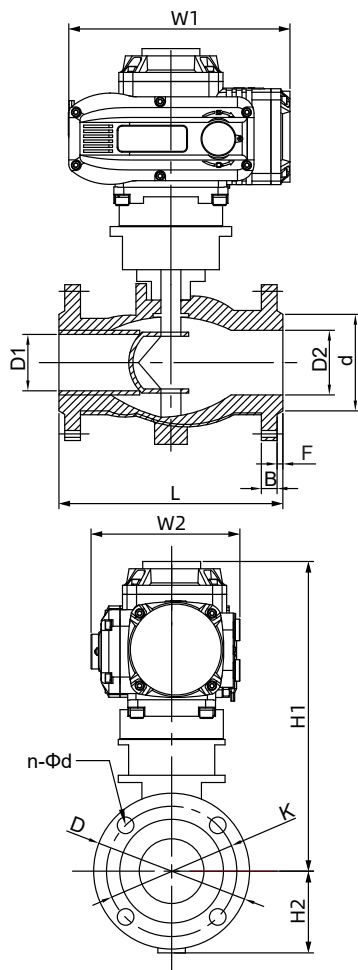
Flanged explosion-proof ball valve: pressure-resistant flange connection, wear-resistant hard seal, precise operation, suitable for flammable media.

## Main Performance Specifications

Nominal Diameter: DN15~DN350  
Nominal Pressure: 1.6MPa~6.4MPa  
Medium Temperature:  $\leq 450^{\circ}\text{C}$   
Protection Class: Ip67  
Applicable Media: Mineral slurry, coal slurry, paper pulp, water, oil products, gas  
Manufacturing Standard: GB/T 12237-2021  
Face-to-Face Standard: GB/T 12221-2005  
Inspection Standard: GB/T 13927-2022  
Flange Standard: GB/T 9124.1-2019, GB/T 9124.2-2019, GB17241.6-2008



## Installation Dimension Drawing



| Size |        | D1  | D2  | d   | K   | D   | n-φd   | B  | F | L   | H1  | H2  | W1  | W2  |
|------|--------|-----|-----|-----|-----|-----|--------|----|---|-----|-----|-----|-----|-----|
| mm   | in     |     |     |     |     |     |        |    |   |     |     |     |     |     |
| 15   | 1/2"   | 15  | 28  | 45  | 65  | 95  | 4-Φ14  | 14 | 2 | 102 | 320 | 55  | 217 | 150 |
| 20   | 3/4"   | 15  | 28  | 55  | 75  | 105 | 4-Φ14  | 14 | 2 | 102 | 330 | 60  | 217 | 150 |
| 25   | 1"     | 20  | 40  | 66  | 85  | 115 | 4-Φ14  | 14 | 2 | 102 | 340 | 65  | 217 | 150 |
| 32   | 1 1/4" | 25  | 46  | 78  | 100 | 135 | 4-Φ18  | 16 | 2 | 114 | 350 | 75  | 217 | 150 |
| 40   | 1 1/2" | 32  | 54  | 85  | 110 | 145 | 4-Φ18  | 16 | 2 | 114 | 360 | 80  | 217 | 150 |
| 50   | 2"     | 40  | 65  | 100 | 125 | 160 | 4-Φ18  | 16 | 2 | 124 | 369 | 85  | 217 | 150 |
| 65   | 2 1/2" | 50  | 80  | 120 | 145 | 180 | 4-Φ18  | 18 | 2 | 145 | 412 | 100 | 268 | 180 |
| 80   | 3"     | 65  | 100 | 135 | 160 | 195 | 8-Φ18  | 20 | 2 | 165 | 390 | 105 | 268 | 180 |
| 100  | 4"     | 80  | 110 | 155 | 180 | 215 | 8-Φ18  | 20 | 2 | 194 | 450 | 115 | 268 | 180 |
| 125  | 5"     | 100 | 135 | 185 | 210 | 245 | 8-Φ18  | 22 | 3 | 210 | 454 | 130 | 268 | 180 |
| 150  | 6"     | 125 | 165 | 210 | 240 | 280 | 8-Φ23  | 24 | 3 | 229 | 474 | 150 | 268 | 180 |
| 200  | 8"     | 160 | 205 | 265 | 295 | 335 | 12-Φ23 | 26 | 3 | 243 | 504 | 175 | 268 | 180 |
| 250  | 10"    | 210 | 260 | 320 | 355 | 405 | 12-Φ26 | 30 | 3 | 297 | 544 | 220 | 268 | 180 |
| 300  | 12"    | 250 | 322 | 375 | 410 | 460 | 12-Φ26 | 30 | 3 | 340 | 624 | 250 | 268 | 180 |

# PTFE-lined Ball Valve



## Product Introduction:

Fluorine-lined ball valves are specially developed for highly corrosive environments. With carbon steel/stainless steel bodies lined with PTFE and FEP fluoroplastics, they offer outstanding resistance to strong acids, alkalis and oxidants to avoid body corrosion. Featuring reliable sealing, low flow resistance and flexible operation, they fit medium and low pressure conditions for stable fluid delivery. Widely used in chemical, pharmaceutical, metallurgy, environmental protection and acid-base conveying fields, they enjoy long service life and low

## Product Features:

- **Durable sealing performance:** Adopts unique lip-type elastic sealing structure to reduce wear effectively and greatly extend service life.
- **Superior anti-corrosion and wear resistance:** Equipped with FEP lining layer, it withstands almost all corrosive media except molten alkali metals and elemental fluorine.
- **Outstanding safety performance:** The ball and valve stem are integrally cast or forged, eliminating impact risks of valve stem caused by pressure fluctuation and ensuring operational safety fundamentally.
- **Easy operation and maintenance:** Full-bore floating ball structure realizes leak-tight shutoff across full pressure range, facilitating pipeline pigging and system maintenance.

# Flanged Electric Fluorine-Lined Ball Valve

## Product Description

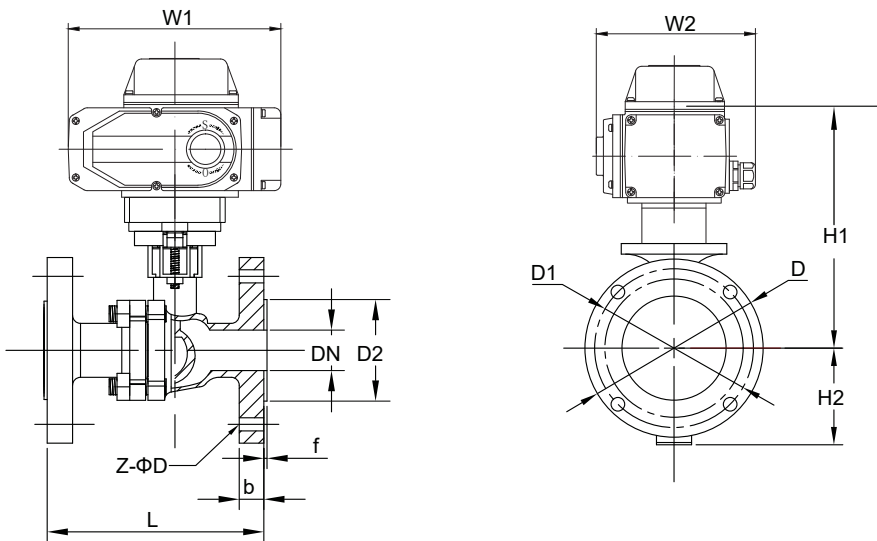
Flanged electric fluorine-lined ball valve features tight sealing and precise electric control. Fluorine lining resists strong corrosion, runs smoothly, ideal for chemical and electroplating pipelines.

## Main Performance Specifications

- Nominal Diameter: DN15~DN100
- Nominal Pressure: 1.0MPa~1.6MPa
- Medium Temperature: -15°C~+120°C
- Protection Class: Ip67
- Applicable Media: Acids, alkalis, salts, chlorine gas, steam, raw water, mineral slurry, paper pulp, aqua regia, oxidants, reducing agents and corrosive chemical liquids
- Manufacturing Standard: GB12237-2021, API 6D
- Face-to-Face Standard: GB/T 12221-2005
- Inspection Standard: API 598
- Flange Standard: JB/T 79-2015, GB/T 9124.1-2019, GB/T 9124.2-2019, ANSI B16.5, JIS B2239



## Installation Dimension Drawing



| Size (mm) | L   | D   | D1  | D2  | b  | f   | Z-ΦD  | H1  | H2   | W1  | W2  |
|-----------|-----|-----|-----|-----|----|-----|-------|-----|------|-----|-----|
| 15        | 130 | 95  | 65  | 45  | 16 | 2.5 | 4-Φ14 | 216 | 47.5 | 196 | 145 |
| 20        | 140 | 105 | 75  | 55  | 18 | 2.5 | 4-Φ14 | 231 | 52.5 | 196 | 145 |
| 25        | 150 | 115 | 85  | 65  | 19 | 3   | 4-Φ14 | 236 | 57.5 | 196 | 145 |
| 32        | 165 | 140 | 100 | 78  | 19 | 3   | 4-Φ18 | 256 | 70   | 196 | 145 |
| 40        | 180 | 150 | 110 | 85  | 19 | 3.5 | 4-Φ18 | 261 | 75   | 196 | 145 |
| 50        | 200 | 165 | 125 | 100 | 19 | 3.5 | 4-Φ18 | 271 | 82.5 | 196 | 145 |
| 65        | 220 | 185 | 145 | 120 | 19 | 3.5 | 4-Φ18 | 303 | 92.5 | 255 | 182 |
| 80        | 260 | 200 | 160 | 135 | 20 | 3.5 | 8-Φ18 | 358 | 100  | 255 | 182 |
| 100       | 280 | 220 | 180 | 155 | 21 | 4   | 8-Φ18 | 383 | 110  | 255 | 182 |

# Flanged Pneumatic Fluorine-Lined Ball Valve

## Product Description

Flanged pneumatic fluorine-lined ball valve features firm leak-proof flange connection and fast pneumatic operation. Its fluorine lining withstands strong acids, alkalis and heavy corrosion, ideal for chemical fluid delivery and electroplating wastewater treatment, a reliable choice for corrosive medium pipelines.

## Main Performance Specifications

Nominal Diameter: DN15~DN100

Nominal Pressure: 1.0MPa~1.6MPa

Medium Temperature: -15°C~+120°C

Protection Class: Ip67

Applicable Media: Acids, alkalis, salts, chlorine gas, steam, raw water, mineral slurry, paper pulp, aqua regia, oxidants, reducing agents and corrosive chemical liquids

Manufacturing Standard: GB12237-2021, API 6D

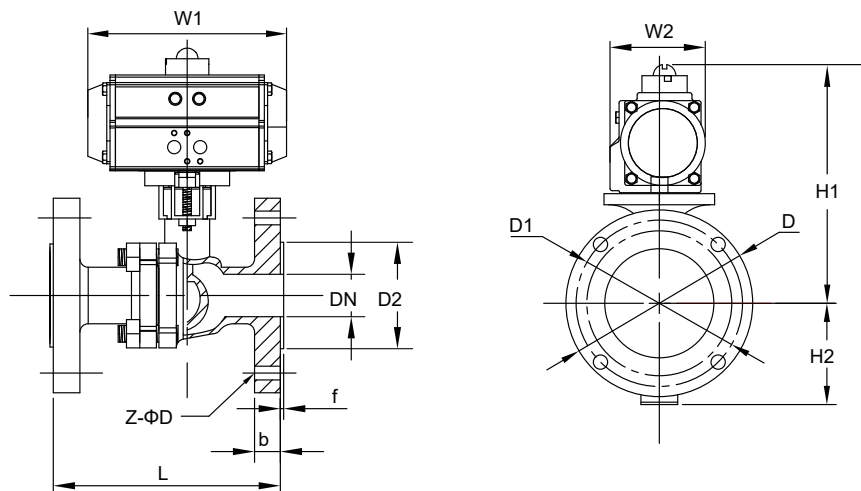
Face-to-Face Standard: GB/T 12221-2005

Inspection Standard: API 598

Flange Standard: JB/T 79-2015, GB/T 9124.1-2019, GB/T 9124.2-2019, ANSI B16.5, JIS B2239



## Installation Dimension Drawing



| Size<br>(mm) | L   | D   | D1  | D2  | b  | f   | n-Φd  | H2   | Double-acting |     |     | Single-acting |     |     |
|--------------|-----|-----|-----|-----|----|-----|-------|------|---------------|-----|-----|---------------|-----|-----|
|              |     |     |     |     |    |     |       |      | H1            | W1  | W2  | H1            | W1  | W2  |
| 15           | 130 | 95  | 65  | 45  | 16 | 2.5 | 4-Φ14 | 47.5 | 202           | 147 | 72  | 202           | 147 | 72  |
| 20           | 140 | 105 | 75  | 55  | 18 | 2.5 | 4-Φ14 | 52.5 | 217           | 147 | 72  | 233           | 168 | 83  |
| 25           | 150 | 115 | 85  | 65  | 19 | 3   | 4-Φ14 | 57.5 | 238           | 168 | 83  | 250           | 184 | 95  |
| 32           | 165 | 140 | 100 | 78  | 19 | 3   | 4-Φ18 | 70   | 258           | 168 | 83  | 279           | 204 | 103 |
| 40           | 180 | 150 | 110 | 85  | 19 | 3.5 | 4-Φ18 | 75   | 275           | 184 | 95  | 292           | 262 | 109 |
| 50           | 200 | 165 | 125 | 100 | 19 | 3.5 | 4-Φ18 | 82.5 | 294           | 204 | 103 | 318           | 268 | 122 |
| 65           | 220 | 185 | 145 | 120 | 19 | 3.5 | 4-Φ18 | 92.5 | 312           | 262 | 109 | 370           | 301 | 142 |
| 80           | 260 | 200 | 160 | 135 | 20 | 3.5 | 8-Φ18 | 100  | 383           | 268 | 122 | 442           | 390 | 152 |
| 100          | 280 | 220 | 180 | 155 | 21 | 4   | 8-Φ18 | 110  | 450           | 301 | 142 | 492           | 458 | 174 |

Note: For pneumatic valves, the matching actuator model and relevant dimensions may vary depending on service medium, valve torque and control method.

# Flanged Ball Valve



## Product Introduction:

Flanged ball valves adopt flange connection for stable installation, featuring high pressure resistance and reliable sealing. Made of high-quality carbon steel and stainless steel, they suit normal, high temperature and high pressure working conditions, applicable for water, oil, gas and partial corrosive media. Controlled by ball rotation, they have low flow resistance, fast opening & closing, less scouring on sealing surface and long service life. Easy to install and maintain, they are widely used in medium and high pressure pipelines of petroleum, chemical, power and water supply industries for medium cut-off and flow regulation.

## Product Features:

- **Excellent tightness:** Double-sided spherical sealing realizes zero leakage.
- **High wear resistance:** PTFE seal with good self-lubrication reduces friction loss and extends service life.
- **Flexible application:** Available with rectangular, V-shaped and O-shaped ball passages to meet various flow control needs.

# Flanged Electric Soft-Sealed Ball Valve

## Product Description

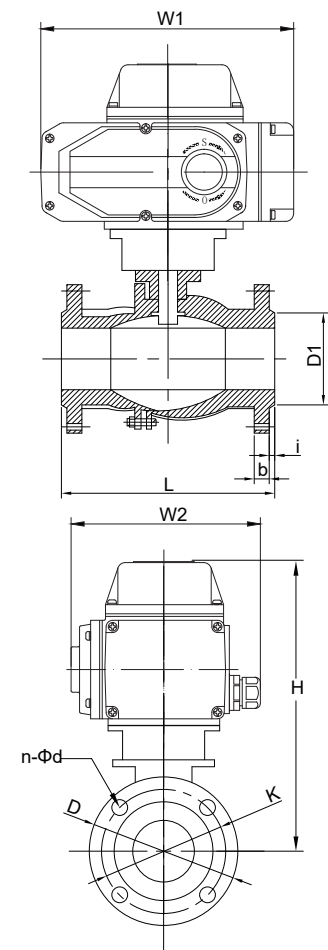
Ultra-short flanged electric V-type regulating valve adopts electric actuator to drive V-shaped core for precise flow control. Compact structure with high regulating accuracy, widely used in petrochemical, water treatment, metallurgy, power, food and pharmaceutical industries for limited-space installation and accurate fluid flow & pressure regulation.

## Main Performance Specifications

- Nominal Diameter: DN15~DN200
- Nominal Pressure: 1.0MPa~10MPa
- Medium Temperature: -20°C~+350°C
- Protection Class: Ip67
- Applicable Media: Water, petroleum, nitric acid, acetic acid, viscous fluid, slurry, strong oxidizing medium
- Manufacturing Standard: GB12237-2021, API 6D
- Face-to-Face Standard: GB/T 12221-2005
- Inspection Standard: API 598
- Flange Standard: JB/T 79-2015, GB/T 9124.1-2019, GB/T 9124.2-2019, ANSI B16.5, JIS B2239



## Installation Dimension Drawing



| Size |        | L   | D   | K   | D1  | n-Φd   | b  | i | H     | W1  | W2  |
|------|--------|-----|-----|-----|-----|--------|----|---|-------|-----|-----|
| mm   | in     |     |     |     |     |        |    |   |       |     |     |
| 15   | 1/2"   | 130 | 95  | 65  | 45  | 4-Φ14  | 14 | 2 | 209   | 196 | 145 |
| 20   | 3/4"   | 130 | 105 | 75  | 55  | 4-Φ14  | 16 | 2 | 211   | 196 | 145 |
| 25   | 1"     | 142 | 113 | 85  | 65  | 4-Φ14  | 18 | 2 | 218.5 | 196 | 145 |
| 32   | 1-1/4" | 165 | 140 | 100 | 78  | 4-Φ18  | 18 | 2 | 233   | 196 | 145 |
| 40   | 1-1/2" | 165 | 150 | 110 | 85  | 4-Φ18  | 18 | 2 | 234   | 196 | 145 |
| 50   | 2"     | 203 | 165 | 125 | 100 | 4-Φ18  | 20 | 2 | 248   | 196 | 145 |
| 65   | 2-1/2" | 222 | 185 | 145 | 120 | 8-Φ18  | 20 | 2 | 294   | 255 | 182 |
| 80   | 3"     | 241 | 200 | 160 | 135 | 8-Φ18  | 21 | 2 | 320   | 255 | 182 |
| 100  | 4"     | 305 | 220 | 180 | 155 | 8-Φ18  | 22 | 2 | 339   | 255 | 182 |
| 125  | 5"     | 356 | 250 | 210 | 184 | 8-Φ18  | 22 | 3 | 392   | 255 | 182 |
| 150  | 6"     | 394 | 285 | 240 | 210 | 8-Φ23  | 24 | 3 | 402   | 255 | 182 |
| 200  | 8"     | 457 | 340 | 295 | 265 | 12-Φ23 | 26 | 3 | 467   | 255 | 182 |

# Flanged Pneumatic Soft-Sealed Ball Valve

## Product Description

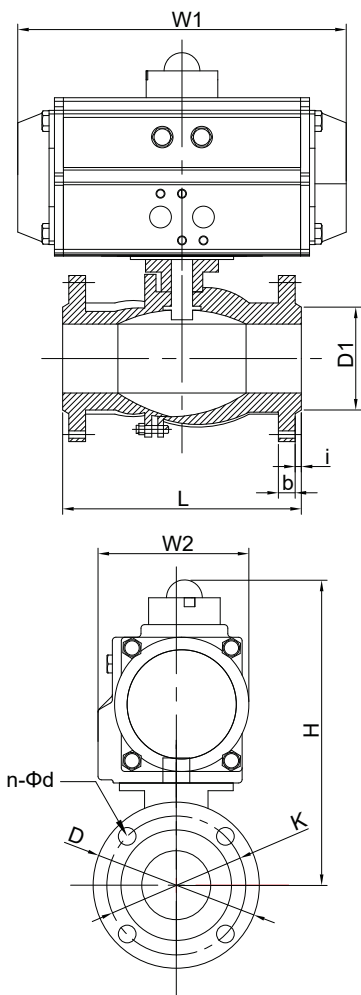
V-type regulating valve has excellent regulating performance, especially suitable for high-precision regulating links in various industrial fields such as (mineral slurry, paper pulp) and high-temperature steam regulation, realizing the regulation of medium flow in pipelines.

## Main Performance Specifications

Nominal Diameter: DN15~DN200  
Nominal Pressure: 1.0MPa~10MPa  
Medium Temperature: -20°C~+350°C  
Protection Class: Ip67  
Applicable Media: Water, petroleum, nitric acid, acetic acid, viscous fluid, slurry, strong oxidizing medium  
Manufacturing Standard: GB12237-2021, API 6D  
Face-to-Face Standard: GB/T 12221-2005  
Inspection Standard: API 598  
Flange Standard: JB/T 79-2015, GB/T 9124.1-2019, GB/T 9124.2-2019, ANSI B16.5, JIS B2239



## Installation Dimension Drawing



| Size |        | L   | D   | K   | D1  | n-Φd   | b  | i | Double-acting |     |     | Single-acting |     |     |
|------|--------|-----|-----|-----|-----|--------|----|---|---------------|-----|-----|---------------|-----|-----|
| mm   | in     |     |     |     |     |        |    |   | H1            | W1  | W2  | H1            | W1  | W2  |
| 15   | 1/2"   | 130 | 95  | 65  | 45  | 4-Φ14  | 14 | 2 | 195           | 147 | 72  | 195           | 147 | 72  |
| 20   | 3/4"   | 130 | 105 | 75  | 55  | 4-Φ14  | 16 | 2 | 197           | 147 | 72  | 213           | 168 | 83  |
| 25   | 1"     | 142 | 113 | 85  | 65  | 4-Φ14  | 18 | 2 | 221           | 168 | 83  | 233           | 184 | 95  |
| 32   | 1-1/4" | 165 | 140 | 100 | 78  | 4-Φ18  | 18 | 2 | 235           | 168 | 83  | 256           | 204 | 103 |
| 40   | 1-1/2" | 165 | 150 | 110 | 85  | 4-Φ18  | 18 | 2 | 248           | 184 | 95  | 265           | 262 | 109 |
| 50   | 2"     | 203 | 165 | 125 | 100 | 4-Φ18  | 20 | 2 | 271           | 204 | 103 | 295           | 268 | 122 |
| 65   | 2-1/2" | 222 | 185 | 145 | 120 | 8-Φ18  | 20 | 2 | 325           | 262 | 109 | 383           | 301 | 142 |
| 80   | 3"     | 241 | 200 | 160 | 135 | 8-Φ18  | 21 | 2 | 345           | 268 | 122 | 404           | 390 | 152 |
| 100  | 4"     | 305 | 220 | 180 | 155 | 8-Φ18  | 22 | 2 | 406           | 301 | 142 | 448           | 458 | 174 |
| 125  | 5"     | 356 | 250 | 210 | 184 | 8-Φ18  | 22 | 3 | 459           | 301 | 142 | 501           | 458 | 174 |
| 150  | 6"     | 394 | 285 | 240 | 210 | 8-Φ23  | 24 | 3 | 486           | 390 | 152 | 544           | 525 | 206 |
| 200  | 8"     | 457 | 340 | 295 | 265 | 12-Φ23 | 26 | 3 | 576           | 458 | 174 | 634           | 532 | 226 |

Note: For pneumatic valves, the matching actuator model and relevant dimensions may vary depending on service medium, valve torque and control method.

# Flanged Explosion-Proof Electric Soft-Sealed Ball Valve

## Product Description

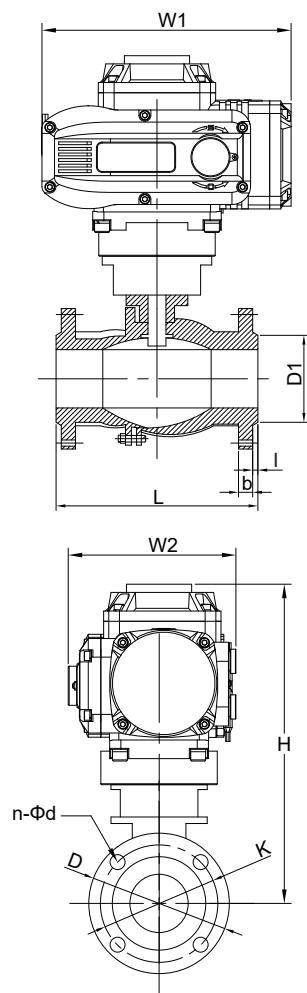
V-type regulating valve boasts excellent regulating performance. It is ideal for high-precision regulation of mineral slurry, paper pulp, high-temperature steam and other media in various industries, and accurately adjusts medium flow in pipelines.

## Main Performance Specifications

- Nominal Diameter: DN15~DN200
- Nominal Pressure: 1.0MPa~10MPa
- Medium Temperature: -20°C~+350°C
- Protection Class: Ip67
- Applicable Media: Water, petroleum, nitric acid, acetic acid, viscous fluid, slurry, strong oxidizing medium
- Manufacturing Standard: GB12237-2021, API 6D
- Face-to-Face Standard: GB/T 12221-2005
- Inspection Standard: API 598
- Flange Standard: JB/T 79-2015, GB/T 9124.1-2019, GB/T 9124.2-2019, ANSI B16.5, JIS B2239



## Installation Dimension Drawing



| Size |        | L   | D   | K   | D1  | n-Φd   | b  | i | H   | W1  | W2  |
|------|--------|-----|-----|-----|-----|--------|----|---|-----|-----|-----|
| mm   | in     |     |     |     |     |        |    |   |     |     |     |
| 15   | 1/2"   | 130 | 95  | 65  | 45  | 4-Φ14  | 14 | 2 | 239 | 217 | 150 |
| 20   | 3/4"   | 130 | 105 | 75  | 55  | 4-Φ14  | 16 | 2 | 241 | 217 | 150 |
| 25   | 1"     | 142 | 113 | 85  | 65  | 4-Φ14  | 18 | 2 | 249 | 217 | 150 |
| 32   | 1-1/4" | 165 | 140 | 100 | 78  | 4-Φ18  | 18 | 2 | 263 | 217 | 150 |
| 40   | 1-1/2" | 165 | 150 | 110 | 85  | 4-Φ18  | 18 | 2 | 264 | 217 | 150 |
| 50   | 2"     | 203 | 165 | 125 | 100 | 4-Φ18  | 20 | 2 | 277 | 217 | 150 |
| 65   | 2-1/2" | 222 | 185 | 145 | 120 | 8-Φ18  | 20 | 2 | 356 | 268 | 180 |
| 80   | 3"     | 241 | 200 | 160 | 135 | 8-Φ18  | 21 | 2 | 376 | 268 | 180 |
| 100  | 4"     | 305 | 220 | 180 | 155 | 8-Φ18  | 22 | 2 | 395 | 268 | 180 |
| 125  | 5"     | 356 | 250 | 210 | 184 | 8-Φ18  | 22 | 3 | 416 | 268 | 180 |
| 150  | 6"     | 394 | 285 | 240 | 210 | 8-Φ23  | 24 | 3 | 426 | 268 | 180 |
| 200  | 8"     | 457 | 340 | 295 | 265 | 12-Φ23 | 26 | 3 | 491 | 268 | 180 |

# Ultra-short Flanged Ball Valve



## Product Introduction:

The ultra-short flange ball valve features optimized structure with ultra-short flange distance, greatly cutting valve length and overall weight. Flange connection ensures firm installation and fits narrow spaces, lowering installation and transportation costs. It has reliable sealing, low flow resistance and fast switch action with minor wear for long service life. Made of premium carbon steel and stainless steel, it boasts high pressure and corrosion resistance, suitable for water, oil, gas and other media. Widely used in medium and high pressure pipelines of petroleum, chemical, water supply & drainage and metallurgy industries.

## Product Features:

- **Perfect sealing:** Double-sided spherical sealing achieves zero leakage for leak-free medium delivery.
- **Lightweight & compact:** Short flange design reduces material retention with better sealing; only 50% weight of ordinary ball valves, saving space and cost.
- **Excellent shut-off performance:** O-type structure realizes stable and accurate medium cut-off.
- **Wide application:** Available with rectangular, V-shaped and O-shaped passages to meet diverse flow control demands.

# Ultra-Short Flanged Electric Soft-Sealed Ball Valve

## Product Description

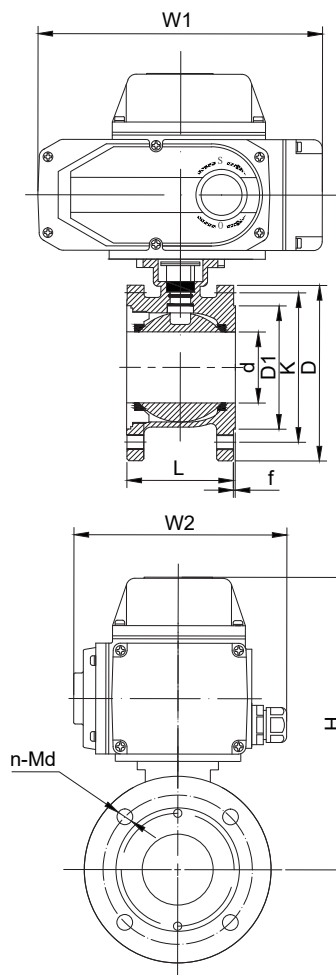
Ultra-short flanged electric soft-seal ball valve saves installation space, enables precise electric flow control and zero leakage. Stable flange connection fits various media, ideal for efficient industrial pipeline use.

## Main Performance Specifications

- Nominal Diameter: DN15~DN200
- Nominal Pressure: 1.6MPa~6.4MPa
- Medium Temperature: -20°C~350°C
- Protection Class: Ip67
- Applicable Media: Water, petroleum, nitric acid, acetic acid, viscous fluid, strong oxidizing media, etc.
- Manufacturing Standard: GB12237-2021, API 6D
- Face-to-Face Standard: GB/T 12221-2005
- Inspection Standard: API 598
- Flange Standard: JB/T 79-2015, GB/T 9124.1-2019, GB/T 9124.2-2019, ANSI B16.5, JIS B2239



## Installation Dimension Drawing



| Size |         | d   | D1  | K   | D   | n-Md   | f | L   | H   | W1  | W2  |
|------|---------|-----|-----|-----|-----|--------|---|-----|-----|-----|-----|
| mm   | in      |     |     |     |     |        |   |     |     |     |     |
| 15   | 1/2 "   | 15  | 45  | 65  | 95  | 4-M12  | 2 | 35  | 210 | 196 | 145 |
| 20   | 3/4 "   | 19  | 55  | 75  | 105 | 4-M12  | 2 | 38  | 216 | 196 | 145 |
| 25   | 1 "     | 25  | 65  | 85  | 115 | 4-M12  | 2 | 50  | 223 | 196 | 145 |
| 32   | 1-1/4 " | 28  | 76  | 100 | 140 | 4-M12  | 2 | 50  | 230 | 196 | 145 |
| 40   | 1-1/2 " | 38  | 83  | 110 | 148 | 4-M16  | 3 | 67  | 240 | 196 | 145 |
| 50   | 2 "     | 49  | 102 | 125 | 156 | 4-M16  | 3 | 72  | 250 | 196 | 145 |
| 65   | 2-1/2 " | 64  | 120 | 145 | 185 | 4-M16  | 3 | 94  | 298 | 255 | 182 |
| 80   | 3 "     | 73  | 143 | 160 | 200 | 8-M16  | 3 | 120 | 312 | 255 | 182 |
| 100  | 4 "     | 90  | 168 | 180 | 220 | 8-M16  | 3 | 141 | 322 | 255 | 182 |
| 125  | 5 "     | 110 | 185 | 210 | 245 | 8-M16  | 3 | 165 | 397 | 255 | 182 |
| 150  | 6 "     | 145 | 208 | 240 | 277 | 8-M20  | 3 | 225 | 422 | 255 | 182 |
| 200  | 8 "     | 195 | 265 | 395 | 335 | 12-M20 | 3 | 275 | 512 | 255 | 182 |

# Ultra-Short Flanged Pneumatic Soft-Sealed Butterfly Valve

## Product Description

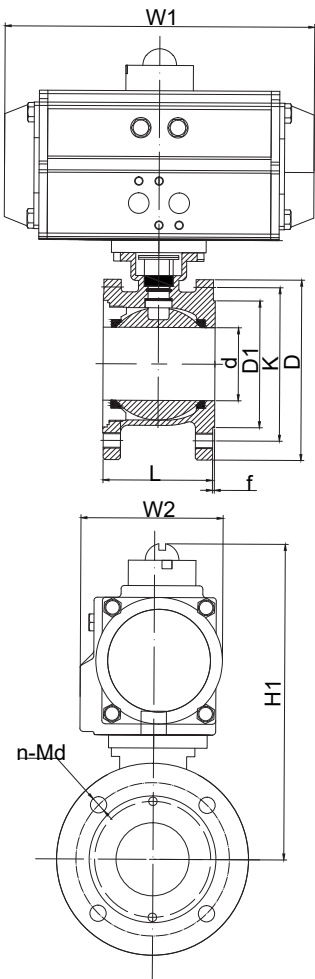
Ultra-short flanged pneumatic soft-seat Butterfly Valve saves installation space. Fast pneumatic action ensures efficient operation. Wear-resistant soft seal achieves zero leakage. Suitable for chemical, water supply and drainage and other working conditions with firm pipeline connection.

## Main Performance Specifications

- Nominal Diameter: DN15~DN200
- Nominal Pressure: 1.6MPa~6.4MPa
- Medium Temperature: -20°C~350°C
- Protection Class: Ip67
- Applicable Media: Water, petroleum, nitric acid, acetic acid, viscous fluid, strong oxidizing media, etc.
- Manufacturing Standard: GB12237-2021, API 6D
- Face-to-Face Standard: GB/T 12221-2005
- Inspection Standard: API 598
- Flange Standard: JB/T 79-2015, GB/T 9124.1-2019, GB/T 9124.2-2019, ANSI B16.5, JIS B2239



## Installation Dimension Drawing



| Size |        | d   | D1  | K   | D   | n-Md   | f | L   | Double-acting |     |     | Single-acting |     |     |
|------|--------|-----|-----|-----|-----|--------|---|-----|---------------|-----|-----|---------------|-----|-----|
| mm   | in     |     |     |     |     |        |   |     | H1            | W1  | W2  | H1            | W1  | W2  |
| 15   | 1/2"   | 15  | 45  | 65  | 95  | 4-M12  | 2 | 35  | 196           | 147 | 72  | 196           | 147 | 72  |
| 20   | 3/4"   | 19  | 55  | 75  | 105 | 4-M12  | 2 | 38  | 202           | 147 | 72  | 218           | 168 | 83  |
| 25   | 1"     | 25  | 65  | 85  | 115 | 4-M12  | 2 | 50  | 225           | 168 | 83  | 237           | 184 | 95  |
| 32   | 1-1/4" | 28  | 76  | 100 | 140 | 4-M12  | 2 | 50  | 232           | 168 | 83  | 253           | 204 | 103 |
| 40   | 1-1/2" | 38  | 83  | 110 | 148 | 4-M16  | 3 | 67  | 254           | 184 | 95  | 271           | 262 | 109 |
| 50   | 2"     | 49  | 102 | 125 | 156 | 4-M16  | 3 | 72  | 273           | 204 | 103 | 297           | 268 | 122 |
| 65   | 2-1/2" | 64  | 120 | 145 | 185 | 4-M16  | 3 | 94  | 329           | 262 | 109 | 387           | 301 | 142 |
| 80   | 3"     | 73  | 143 | 160 | 200 | 8-M16  | 3 | 120 | 337           | 268 | 122 | 396           | 390 | 152 |
| 100  | 4"     | 90  | 168 | 180 | 220 | 8-M16  | 3 | 141 | 389           | 301 | 142 | 431           | 458 | 174 |
| 125  | 5"     | 110 | 185 | 210 | 245 | 8-M16  | 3 | 165 | 464           | 301 | 142 | 506           | 458 | 174 |
| 150  | 6"     | 145 | 208 | 240 | 277 | 8-M20  | 3 | 225 | 506           | 390 | 152 | 564           | 525 | 206 |
| 200  | 8"     | 195 | 265 | 395 | 335 | 12-M20 | 3 | 275 | 621           | 458 | 174 | 679           | 532 | 226 |

Note: For pneumatic valves, the matching actuator model and relevant dimensions may vary depending on service medium, valve torque and control method.

# Ultra-Short Flanged Explosion-Proof Electric Soft-Sealed Butterfly Valve

## Product Description

Ultra-short flanged explosion-proof electric soft-seal Butterfly Valve saves installation space. Equipped with explosion-proof motor for hazardous conditions, it features stable electric regulation and zero-leakage soft seal. Safe and reliable for flammable and explosive environments such as gas and chemical industries.

## Main Performance Specifications

Nominal Diameter: DN15~DN200

Nominal Pressure: 1.6MPa~6.4MPa

Medium Temperature: -20°C~350°C

Protection Class: Ip67

Applicable Media: Water, petroleum, nitric acid, acetic acid, viscous fluid, strong oxidizing media, etc.

Manufacturing Standard: GB12237-2021, API 6D

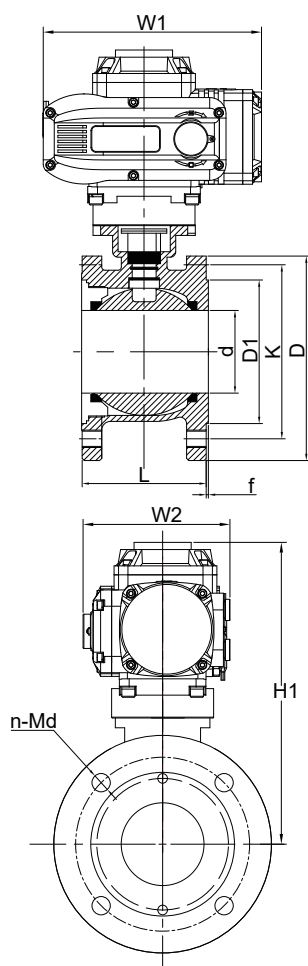
Face-to-Face Standard: GB/T 12221-2005

Inspection Standard: API 598

Flange Standard: JB/T 79-2015, GB/T 9124.1-2019, GB/T 9124.2-2019, ANSI B16.5, JIS B2239



## Installation Dimension Drawing



| Size |        | d   | D1  | K   | D   | n-Md   | f | L   | H1  | W1  | W2  |
|------|--------|-----|-----|-----|-----|--------|---|-----|-----|-----|-----|
| mm   | in     |     |     |     |     |        |   |     |     |     |     |
| 15   | 1/2"   | 15  | 45  | 65  | 95  | 4-M12  | 2 | 35  | 240 | 217 | 150 |
| 20   | 3/4"   | 19  | 55  | 75  | 105 | 4-M12  | 2 | 38  | 246 | 217 | 150 |
| 25   | 1"     | 25  | 65  | 85  | 115 | 4-M12  | 2 | 50  | 253 | 217 | 150 |
| 32   | 1-1/4" | 28  | 76  | 100 | 140 | 4-M12  | 2 | 50  | 260 | 217 | 150 |
| 40   | 1-1/2" | 38  | 83  | 110 | 148 | 4-M16  | 3 | 67  | 270 | 217 | 150 |
| 50   | 2"     | 49  | 102 | 125 | 156 | 4-M16  | 3 | 72  | 279 | 217 | 150 |
| 65   | 2-1/2" | 64  | 120 | 145 | 185 | 4-M16  | 3 | 94  | 360 | 268 | 180 |
| 80   | 3"     | 73  | 143 | 160 | 200 | 8-M16  | 3 | 120 | 368 | 268 | 180 |
| 100  | 4"     | 90  | 168 | 180 | 220 | 8-M16  | 3 | 141 | 378 | 268 | 180 |
| 125  | 5"     | 110 | 185 | 210 | 245 | 8-M16  | 3 | 165 | 421 | 268 | 180 |
| 150  | 6"     | 145 | 208 | 240 | 277 | 8-M20  | 3 | 225 | 446 | 268 | 180 |
| 200  | 8"     | 195 | 265 | 395 | 335 | 12-M20 | 3 | 275 | 536 | 268 | 180 |

# Internal Threaded Ball Valve



## Product Introduction:

Internal thread ball valves are compact valves with threaded connection. Easy to install with reliable sealing, they feature small size and light weight, ideal for limited-space pipelines. With low flow resistance and quick on-off action, they are mostly made of stainless steel and brass with good corrosion resistance, suitable for various medium & low-pressure media like water, oil and gas. Widely used in water supply, heating, chemical and gas piping systems, they are easy to maintain and cost-effective.

## Product Features:

- **Versatile control:** Available for on-off and flow regulation to meet diverse working demands.
- **Durable performance:** Self-lubricating PTFE seal lowers friction and prolongs service life.
- **Easy & economical installation:** Direct threaded connection saves accessories, cuts installation time and costs

# Internal Threaded Electric Ball Valve

## Product Description

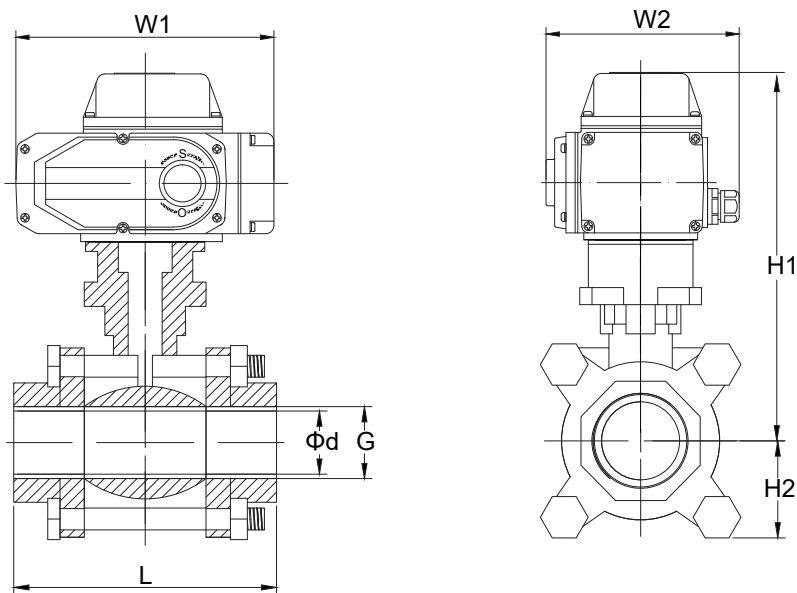
Internal thread electric ball valve features easy threaded connection without flange welding, suitable for small and medium pipelines. It delivers precise and quick electric operation with excellent sealing. Perfect for controlling water, gas, oil and other common media, ideal for HVAC, water supply and small chemical systems.

## Main Performance Specifications

- Nominal Diameter: DN15~DN100
- Nominal Pressure: 1.6MPa~6.4MPa
- Medium Temperature: -30°C~220°C
- Protection Class: Ip67
- Applicable Media: Neutral gas and liquid
- Manufacturing Standard: GB12237-2021, API 6D
- Inspection Standard: API 598



## Installation Dimension Drawing



| Size(mm) | L   | G                                              | Φd  | H2  | H1    | W1  | W2  |
|----------|-----|------------------------------------------------|-----|-----|-------|-----|-----|
| 15       | 73  | Thread<br>Standard<br>NPT<br>BSP<br>DIN<br>etc | 15  | 38  | 202.5 | 196 | 145 |
| 20       | 80  |                                                | 20  | 45  | 204   | 196 | 145 |
| 25       | 90  |                                                | 25  | 55  | 214   | 196 | 145 |
| 32       | 110 |                                                | 32  | 60  | 228   | 196 | 145 |
| 40       | 120 |                                                | 38  | 75  | 237   | 196 | 145 |
| 50       | 140 |                                                | 50  | 83  | 245   | 196 | 145 |
| 65       | 185 |                                                | 64  | 96  | 310   | 255 | 182 |
| 80       | 205 |                                                | 72  | 106 | 313   | 255 | 182 |
| 100      | 240 |                                                | 100 | 118 | 332   | 255 | 182 |

# Internal Threaded Pneumatic Ball Valve

## Product Description

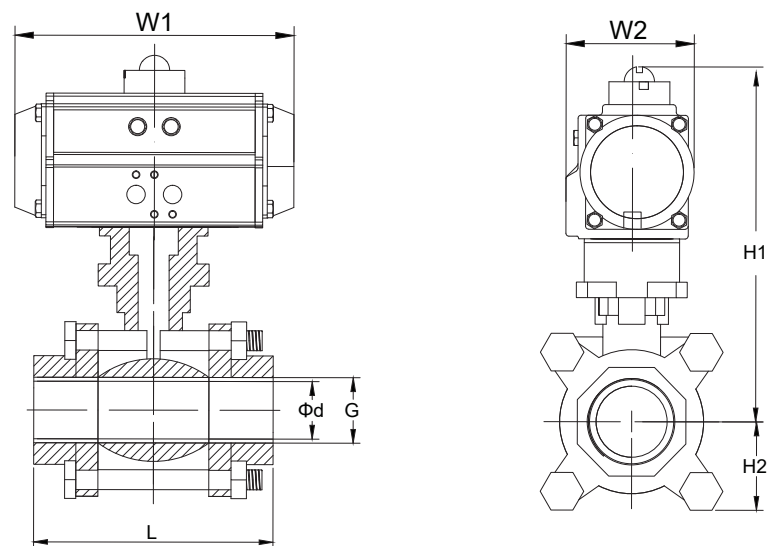
Internal thread pneumatic ball valve enables quick assembly and disassembly without extra fittings, fitting small and medium pipelines. It features sensitive pneumatic response, efficient operation and tight sealing. Suitable for water, gas, oil and other common media, ideal for HVAC, light industry and small chemical systems.

## Main Performance Specifications

- Nominal Diameter: DN15~DN100
- Nominal Pressure: 1.6MPa~6.4MPa
- Medium Temperature: -30℃~220℃
- Protection Class: Ip66
- Applicable Media: Neutral gas and liquid
- Manufacturing Standard: GB12237-2021, API 6D
- Inspection Standard: API 598



## Installation Dimension Drawing



| Size<br>(mm) | L   | G                                                  | Φd  | H2  | Double-acting |     |     | Single-acting |     |     |
|--------------|-----|----------------------------------------------------|-----|-----|---------------|-----|-----|---------------|-----|-----|
|              |     |                                                    |     |     | H1            | W1  | W2  | H1            | W1  | W2  |
| 15           | 73  | Thread<br>Standard<br><br>NPT<br>BSP<br>DIN<br>etc | 15  | 38  | 188           | 147 | 72  | 188           | 147 | 72  |
| 20           | 80  |                                                    | 20  | 45  | 190           | 147 | 72  | 206           | 168 | 83  |
| 25           | 90  |                                                    | 25  | 55  | 216           | 168 | 83  | 228           | 184 | 95  |
| 32           | 110 |                                                    | 32  | 60  | 230           | 168 | 83  | 251           | 204 | 103 |
| 40           | 120 |                                                    | 38  | 75  | 251           | 184 | 95  | 268           | 262 | 109 |
| 50           | 140 |                                                    | 50  | 83  | 268           | 204 | 103 | 292           | 268 | 122 |
| 65           | 185 |                                                    | 64  | 96  | 303           | 262 | 109 | 361           | 301 | 142 |
| 80           | 205 |                                                    | 72  | 106 | 338           | 268 | 122 | 397           | 390 | 152 |
| 100          | 240 |                                                    | 100 | 118 | 399           | 301 | 142 | 441           | 458 | 174 |

Note: For pneumatic valves, the matching actuator model and relevant dimensions may vary depending on service medium, valve torque and control method.

# Internal Threaded Explosion-Proof Electric Soft-Sealed Ball Valve

## Product Description

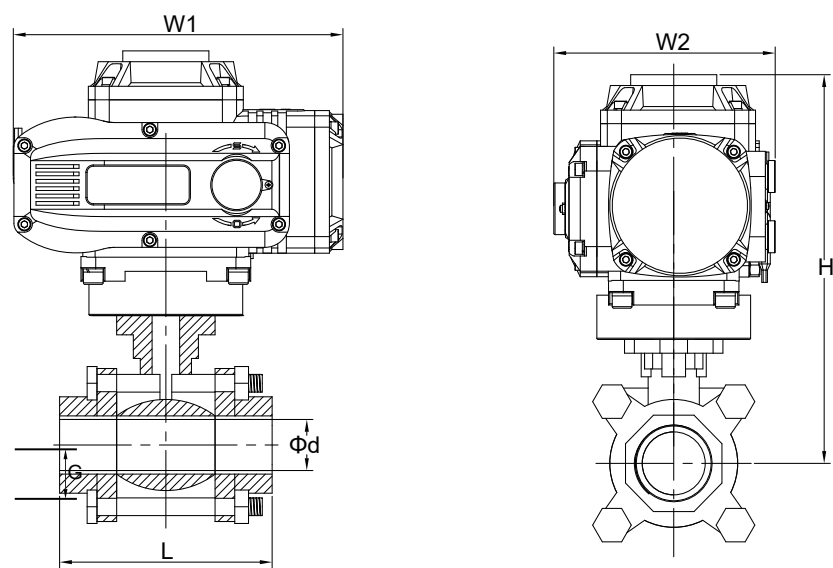
Internal thread explosion-proof electric ball valve is easy to install for small and medium pipelines. Equipped with explosion-proof motor, it operates smoothly with reliable sealing. Suitable for water, gas and oil, safe for chemical and gas equipment.

## Main Performance Specifications

- Nominal Diameter: DN15~DN100
- Nominal Pressure: 1.6MPa~6.4MPa
- Medium Temperature: -30℃~220℃
- Protection Class: Ip67
- Applicable Media: Neutral gas and liquid
- Manufacturing Standard: GB12237-2021, API 6D
- Inspection Standard: API 598



## Installation Dimension Drawing



| Size(mm) | L   | G                        | Φd  | H2  | H1  | W1  | W2  |
|----------|-----|--------------------------|-----|-----|-----|-----|-----|
| 15       | 73  | 螺纹<br>标准                 | 15  | 38  | 232 | 217 | 150 |
| 20       | 80  |                          | 20  | 45  | 234 | 217 | 150 |
| 25       | 90  |                          | 25  | 55  | 244 | 217 | 150 |
| 32       | 110 |                          | 32  | 60  | 258 | 217 | 150 |
| 40       | 120 | NPT<br>BSP<br>DIN<br>etc | 38  | 75  | 267 | 217 | 150 |
| 50       | 140 |                          | 50  | 83  | 307 | 217 | 150 |
| 65       | 185 |                          | 64  | 96  | 334 | 268 | 180 |
| 80       | 205 |                          | 72  | 106 | 337 | 268 | 180 |
| 100      | 240 |                          | 100 | 118 | 356 | 268 | 180 |

# Plastic Anti-corrosion Ball Valve



## Product Introduction:

Made of premium UPVC, PP and PVDF plastics, plastic anti-corrosion ball valves are lightweight valves for corrosive medium delivery. They feature superb corrosion resistance against acids, alkalis and salts without rust and scaling, suitable for medium and low pressure conditions. Compact, lightweight and easy to maintain, they have low flow resistance and high flow capacity with stable sealing. Widely used in chemical, water treatment, environmental protection and water supply fields, they deliver high cost performance.

## Product Features:

- Full-range anti-corrosion: Made of UPVC/CPVC, resistant to various corrosive media, free from rust and scaling.
- Easy & fast installation: Lightweight and compact, greatly reducing transportation and labor costs.
- Superior sealing & flow performance: Precise sealing ensures zero leakage; low resistance design enables efficient medium delivery.
- Cost-effective long-term use: Wear-resistant and easy to maintain, featuring low operating cost for corrosive medium pipelines.

# Flanged Electric Plastic Anti-Corrosion Ball Valve

## Product Description

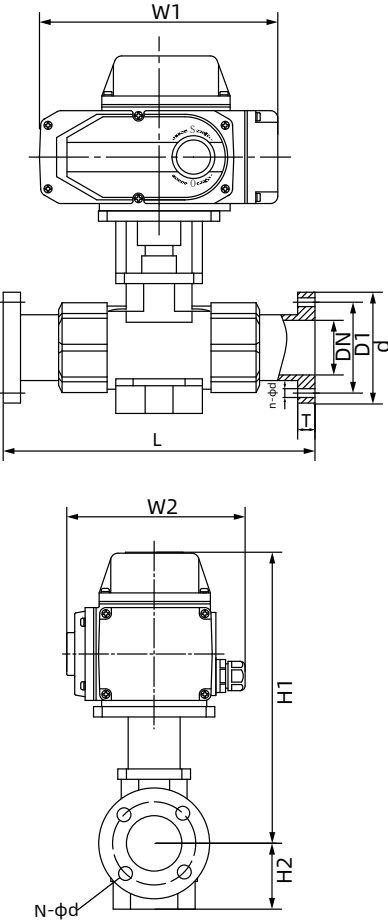
Flanged electric plastic anti-corrosion ball valve is firm and pressure-resistant for various pipelines. It achieves precise electric control. Plastic body resists strong acid and alkali with leakproof sealing, ideal for chemical waste liquid delivery in environmental protection and electroplating industries.

## Main Performance Specifications

- Nominal Diameter: DN15~DN100
- Nominal Pressure: 0.1MPa~1.6MPa
- Medium Temperature: -15°C~60°C
- Protection Class: Ip67
- Applicable Media: Water, air, oil, corrosive chemical liquids
- Manufacturing Standard: GB12237-2021, API 6D
- Face-to-Face Standard: GB/T 12221-2005
- Inspection Standard: API 598
- Flange Standard: ANSI B16.5, JIS B2239



## Installation Dimension Drawing



| Size |      | DN15  | DN20  | DN25  | DN32   | DN40   | DN50  | DN65   | DN80  | DN100 |
|------|------|-------|-------|-------|--------|--------|-------|--------|-------|-------|
|      |      | 1/2"  | 3/4"  | 1"    | 1-1/4" | 1-1/2" | 2"    | 2-1/2" | 3"    | 4"    |
| JIS  | D    | 95    | 100   | 125   | 135    | 140    | 155   | 175    | 185   | 210   |
|      | D1   | 70    | 75    | 90    | 100    | 105    | 120   | 140    | 150   | 175   |
|      | L    | 143   | 172   | 187   | 190    | 212    | 234   | 259    | 304   | 372   |
|      | N-φd | 4-φ15 | 4-φ15 | 4-φ19 | 4-φ19  | 4-φ19  | 4-φ19 | 4-φ19  | 8-φ19 | 4-φ19 |
| ANSI | D    | 89    | 98    | 108   | 117    | 127    | 152   | 178    | 191   | 229   |
|      | D1   | 61    | 70    | 79    | 89     | 99     | 121   | 140    | 152   | 191   |
|      | L    | 143   | 172   | 187   | 190    | 212    | 234   | 259    | 304   | 372   |
|      | N-φd | 4-φ16 | 4-φ16 | 4-φ16 | 4-φ16  | 4-φ16  | 4-φ19 | 4-φ19  | 4-φ19 | 8-φ19 |
| DIN  | D    | 95    | 105   | 115   | 140    | 150    | 165   | 185    | 200   | 220   |
|      | D1   | 65    | 75    | 85    | 100    | 110    | 125   | 145    | 163   | 180   |
|      | L    | 130   | 150   | 160   | 180    | 200    | 230   | 290    | 310   | 350   |
|      | N-φd | 4-φ14 | 4-φ14 | 4-φ14 | 4-φ18  | 4-φ18  | 4-φ18 | 4-φ18  | 8-φ18 | 8-φ18 |
| T    |      | 13    | 14    | 14    | 16     | 16     | 16    | 18     | 18    | 18    |
| W1   |      | 166.5 | 166.5 | 166.5 | 166.5  | 166.5  | 196   | 255    | 255   | 255   |
| W2   |      | 138   | 138   | 138   | 138    | 138    | 145   | 182    | 182   | 182   |
| H1   |      | 153   | 164   | 173   | 183    | 195    | 234   | 242    | 278   | 326   |
| H2   |      | 20.5  | 26    | 33    | 38     | 42     | 53    |        |       |       |

# Double Union Plastic Anti-Corrosion Electric Ball Valve

## Product Description

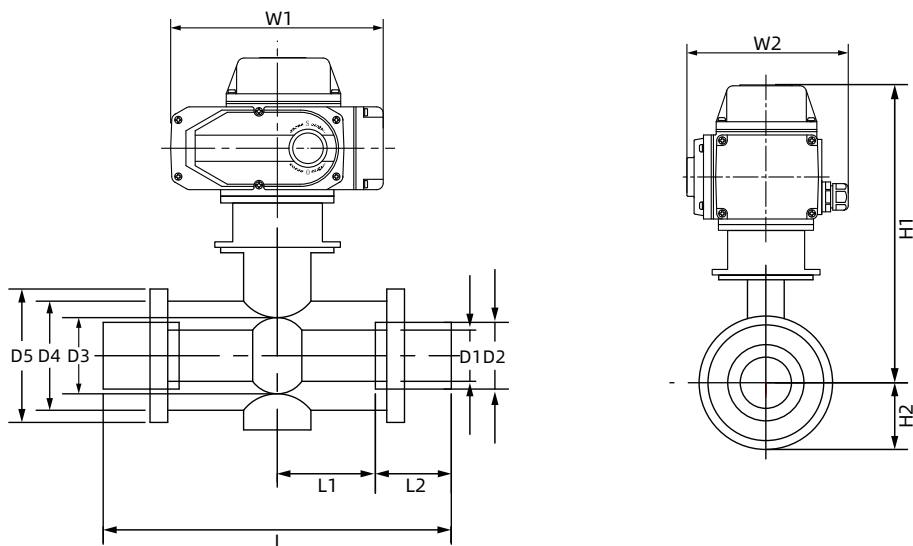
Union end electric plastic anti-corrosion ball valve is easy to install without hot work, fitting complex pipelines. Featuring precise electric control and acid-alkali resistant plastic body with stable sealing, it suits chemical waste liquid delivery, lightweight flow control gear for environmental protection and electroplating.

## Main Performance Specifications

- Nominal Diameter: DN15~DN100
- Nominal Pressure: 0.1MPa~1.6MPa
- Medium Temperature: -15°C~60°C
- Protection Class: Ip67
- Applicable Media: Water, air, oil, corrosive chemical liquids
- Manufacturing Standard: GB12237-2021, API 6D
- Face-to-Face Standard: GB/T 12221-2005
- Inspection Standard: API 598



## Installation Dimension Drawing



| Size (mm) | L1  | L2 | L   | D1 | D2  | D3  | D4  | D5  | H1    | H2   | W1  | W2  |
|-----------|-----|----|-----|----|-----|-----|-----|-----|-------|------|-----|-----|
| 15        | 37  | 23 | 120 | 13 | 20  | 22  | 31  | 45  | 223.5 | 29.5 | 196 | 145 |
| 20        | 39  | 25 | 128 | 18 | 25  | 26  | 36  | 55  | 225.5 | 33.5 | 196 | 145 |
| 25        | 44  | 28 | 144 | 23 | 32  | 32  | 47  | 66  | 232   | 39   | 196 | 145 |
| 32        | 47  | 32 | 158 | 30 | 40  | 38  | 56  | 82  | 239   | 47   | 196 | 145 |
| 40        | 54  | 37 | 182 | 38 | 50  | 48  | 65  | 98  | 255   | 54   | 196 | 145 |
| 50        | 63  | 42 | 210 | 49 | 63  | 60  | 80  | 120 | 264   | 65   | 196 | 145 |
| 65        | 78  | 45 | 246 | 64 | 75  | 76  | 94  | 140 | 334   | 82   | 255 | 182 |
| 80        | 90  | 55 | 290 | 77 | 90  | 89  | 110 | 160 | 347   | 96   | 255 | 182 |
| 100       | 106 | 65 | 342 | 98 | 110 | 114 | 134 | 225 | 374   | 114  | 255 | 182 |

# Flanged Plastic Anti-Corrosion Pneumatic Ball Valve

## Product Description

Flanged pneumatic plastic anti-corrosion ball valve is stably connected for various industrial pipelines. It opens and closes quickly with sensitive response. Acid and alkali resistant plastic body ensures tight sealing, ideal for chemical liquid and waste water treatment.

## Main Performance Specifications

Nominal Diameter: DN15~DN100

Nominal Pressure: 0.1MPa~1.6MPa

Medium Temperature: -15°C~60°C

Protection Class: Ip66

Applicable Media: Water, air, oil, corrosive chemical liquids

Manufacturing Standard: GB12237-2021, API 6D

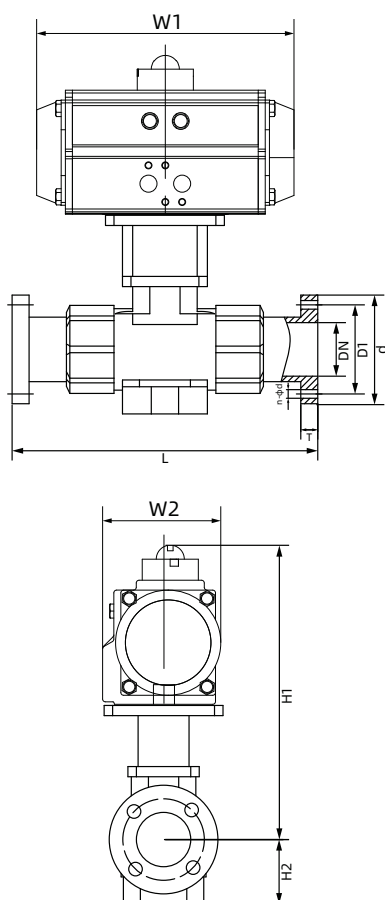
Face-to-Face Standard: GB/T 12221-2005

Inspection Standard: API 598

Flange Standard: ANSI B16.5, JIS B2239



## Installation Dimension Drawing



| Size |      | DN15  | DN20  | DN25  | DN32   | DN40   | DN50  | DN65   | DN80  | DN100 |
|------|------|-------|-------|-------|--------|--------|-------|--------|-------|-------|
|      |      | 1/2"  | 3/4"  | 1"    | 1-1/4" | 1-1/2" | 2"    | 2-1/2" | 3"    | 4"    |
| JIS  | D    | 95    | 100   | 125   | 135    | 140    | 155   | 175    | 185   | 210   |
|      | D1   | 70    | 75    | 90    | 100    | 105    | 120   | 140    | 150   | 175   |
|      | L    | 143   | 172   | 187   | 190    | 212    | 234   | 259    | 304   | 372   |
|      | n-φd | 4-φ15 | 4-φ15 | 4-φ19 | 4-φ19  | 4-φ19  | 4-φ19 | 4-φ19  | 8-φ19 | 4-φ19 |
| ANSI | D    | 89    | 98    | 108   | 117    | 127    | 152   | 178    | 191   | 229   |
|      | D1   | 61    | 70    | 79    | 89     | 99     | 121   | 140    | 152   | 191   |
|      | L    | 143   | 172   | 187   | 190    | 212    | 234   | 259    | 304   | 372   |
|      | n-φd | 4-φ16 | 4-φ16 | 4-φ16 | 4-φ16  | 4-φ16  | 4-φ19 | 4-φ19  | 4-φ19 | 8-φ19 |
| DIN  | D    | 95    | 105   | 115   | 140    | 150    | 165   | 185    | 200   | 220   |
|      | D1   | 65    | 75    | 85    | 100    | 110    | 125   | 145    | 163   | 180   |
|      | L    | 130   | 150   | 160   | 180    | 200    | 230   | 290    | 310   | 350   |
|      | n-φd | 4-φ14 | 4-φ14 | 4-φ14 | 4-φ18  | 4-φ18  | 4-φ18 | 4-φ18  | 8-φ18 | 8-φ18 |
| T    |      | 13    | 14    | 14    | 16     | 16     | 16    | 18     | 18    | 18    |
| 双作用  | W1   | 147   | 147   | 168   | 168    | 184    | 204   | 262    | 268   | 301   |
|      | W2   | 72    | 72    | 83    | 83     | 95     | 103   | 109    | 122   | 142   |
|      | H1   | 160   | 169   | 194   | 204    | 228    | 257   | 273    | 303   | 393   |
| 单作用  | W1   | 147   | 168   | 184   | 204    | 262    | 268   | 301    | 390   | 458   |
|      | W2   | 72    | 83    | 95    | 103    | 109    | 122   | 142    | 152   | 174   |
|      | H1   | 160   | 185   | 225   | 225    | 245    | 281   | 331    | 362   | 435   |
| H2   |      | 20.5  | 26    | 33    | 38     | 42     | 53    |        |       |       |

Note: For pneumatic valves, the matching actuator model and relevant dimensions may vary depending on service medium, valve torque and control method.

# Double Union Plastic Anti-Corrosion Pneumatic Ball Valve

## Product Description

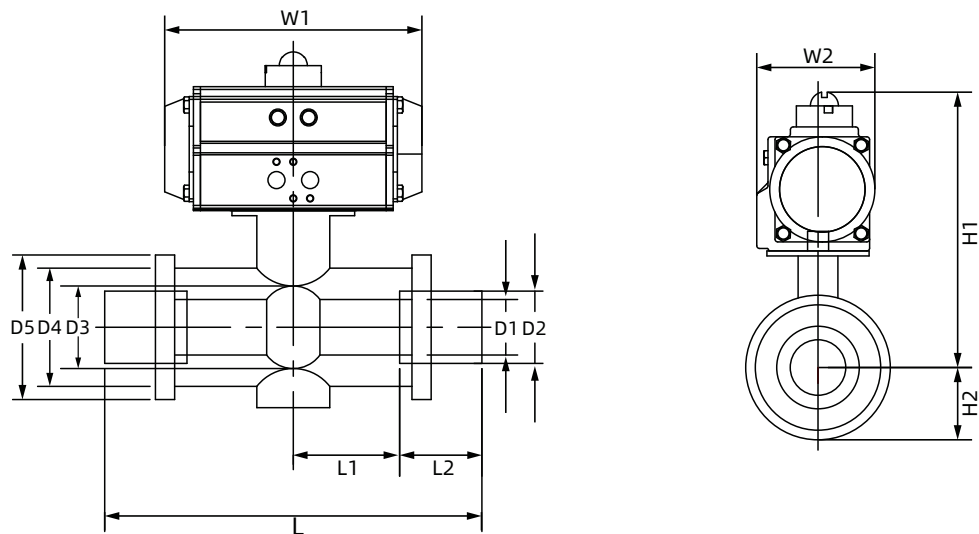
Union end pneumatic plastic anti-corrosion ball valve: weld-free union connection for easy assembly, disassembly and maintenance, suitable for complex pipelines. Fast and sensitive pneumatic operation, acid-alkali resistant plastic body and tight sealing, ideal for electroplating and fine chemical anti-corrosion flow control.

## Main Performance Specifications

- Nominal Diameter: DN15~DN100
- Nominal Pressure: 0.1MPa~1.6MPa
- Medium Temperature: -15°C~60°C
- Protection Class: Ip66
- Applicable Media: Water, air, oil, corrosive chemical liquids
- Manufacturing Standard: GB12237-2021, API 6D
- Face-to-Face Standard: GB/T 12221-2005
- Inspection Standard: API 598
- Flange Standard: ANSI B16.5, JIS B2239



## Installation Dimension Drawing



| Size<br>(mm) | L1  | L2 | L   | D1 | D2  | D3  | D4  | D5  | H2   | 双作用   |     |     | 单作用   |     |     |
|--------------|-----|----|-----|----|-----|-----|-----|-----|------|-------|-----|-----|-------|-----|-----|
|              |     |    |     |    |     |     |     |     |      | H1    | W1  | W2  | H1    | W1  | W2  |
| 15           | 37  | 23 | 120 | 13 | 20  | 22  | 31  | 45  | 29.5 | 209.5 | 147 | 72  | 209.5 | 147 | 72  |
| 20           | 39  | 25 | 128 | 18 | 25  | 26  | 36  | 55  | 33.5 | 211.5 | 147 | 72  | 227.5 | 168 | 83  |
| 25           | 44  | 28 | 144 | 23 | 32  | 32  | 47  | 66  | 39   | 234   | 168 | 83  | 246   | 184 | 95  |
| 32           | 47  | 32 | 158 | 30 | 40  | 38  | 56  | 82  | 47   | 241   | 168 | 83  | 262   | 204 | 103 |
| 40           | 54  | 37 | 182 | 38 | 50  | 48  | 65  | 98  | 54   | 269   | 184 | 95  | 286   | 262 | 109 |
| 50           | 63  | 42 | 210 | 49 | 63  | 60  | 80  | 120 | 65   | 287   | 204 | 103 | 311   | 268 | 122 |
| 65           | 78  | 45 | 246 | 64 | 75  | 76  | 94  | 140 | 82   | 327   | 262 | 109 | 385   | 301 | 142 |
| 80           | 90  | 55 | 290 | 77 | 90  | 89  | 110 | 160 | 96   | 372   | 268 | 122 | 431   | 390 | 152 |
| 100          | 106 | 65 | 342 | 98 | 110 | 114 | 134 | 225 | 114  | 441   | 301 | 142 | 483   | 458 | 174 |

Note: For pneumatic valves, the matching actuator model and relevant dimensions may vary depending on service medium, valve torque and control method.

# Three-way Ball Valve



## Product Introduction:

Three-way ball valves are control valves with multi-path switching function. Equipped with T-type or L-type valve cores, they can realize medium confluence, shunting and flow direction switching. Compact in structure, they feature low flow resistance and quick opening & closing for precise control of medium flow direction and flow rate. Available in carbon steel, stainless steel, plastic and other materials, they are suitable for water, oil, gas and corrosive media with reliable sealing and little leakage. Widely used in petroleum, chemical, water supply, heating and other industries, they simplify pipeline layout and reduce equipment costs for multi-path medium switching systems.

## Product Features:

- Flexible multi-path switching: T-type/L-type valve core design enables quick medium confluence, shunting and flow direction switching, simplifying pipeline layout.
- Efficient and stable circulation: Low flow resistance, large flow area and quick opening & closing ensure efficient medium delivery, suitable for medium and low pressure conditions.
- Wide material adaptability: Optional carbon steel, stainless steel, plastic and other materials, applicable to water, oil and corrosive media for diverse scenarios.
- Reliable and durable sealing: Precision sealing structure with little leakage, less component wear, long service life and low maintenance cost.

# Internal Threaded Electric Three-Way Ball Valve

## Product Description

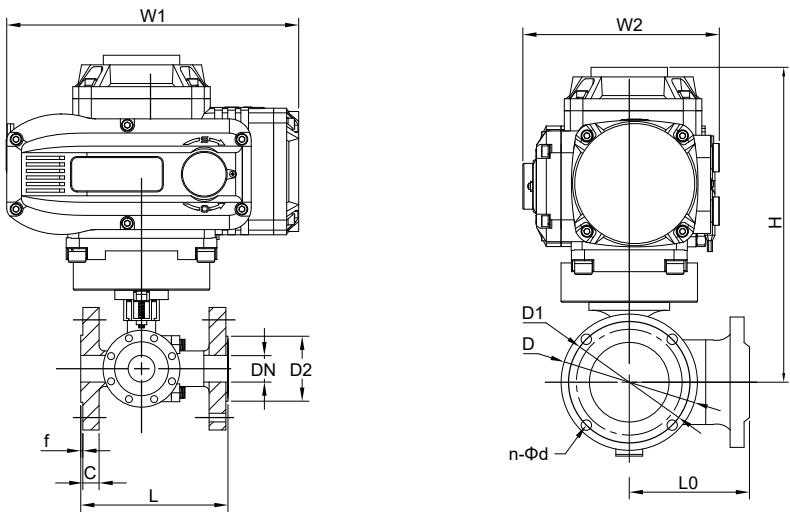
Flanged electric three-way valve has stable flange connection, precise electric control, fast response and excellent sealing. It is suitable for medium mixing, shunting/reversing, and meets the needs of chemical, HVAC and energy systems as an efficient flow control core component.

## Main Performance Specifications

- Nominal Diameter: DN15~DN250
- Nominal Pressure: 1.6MPa~6.4MPa
- Medium Temperature: ≤220℃
- Protection Class: Ip67
- Applicable Media: Foodstuff, grease, fibrous fluid
- Manufacturing Standard: GB12237-2021, API 6D
- Face-to-Face Standard: GB/T 12221-2005
- Inspection Standard: API 598
- Flange Standard: JB/T 79-2015, GB/T 9124.1-2019, GB/T 9124.2-2019, ANSI B16.5, JIS B2239



## Installation Dimension Drawing



| Size<br>(mm) | L   | L0  | D2  | C  | f | D   | D1  | H   | n-Φd  |
|--------------|-----|-----|-----|----|---|-----|-----|-----|-------|
| 15           | 150 | 75  | 45  | 14 | 2 | 95  | 65  | 216 | 4-Φ14 |
| 20           | 160 | 80  | 55  | 14 | 2 | 105 | 75  | 230 | 4-Φ14 |
| 25           | 180 | 90  | 65  | 14 | 2 | 115 | 85  | 236 | 4-Φ14 |
| 32           | 200 | 100 | 78  | 16 | 2 | 135 | 100 | 245 | 4-Φ18 |
| 40           | 220 | 110 | 85  | 16 | 3 | 145 | 110 | 258 | 4-Φ18 |
| 50           | 240 | 120 | 100 | 16 | 3 | 160 | 125 | 264 | 4-Φ18 |
| 65           | 260 | 130 | 120 | 16 | 3 | 180 | 145 | 302 | 4-Φ18 |

# Internal Threaded Electric Three-Way Ball Valve

## Product Description

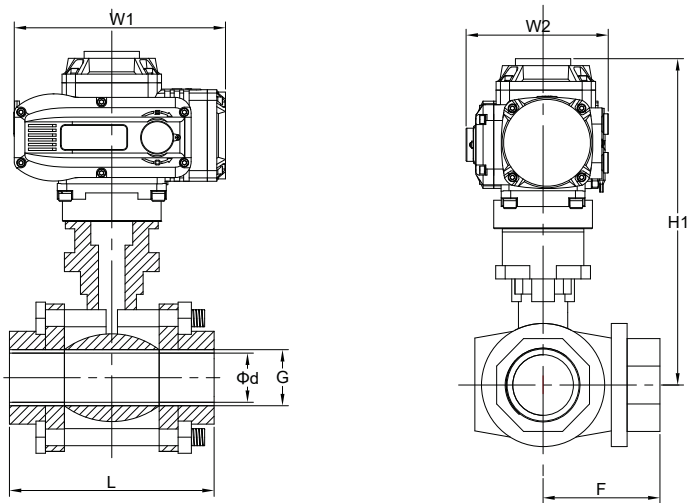
Internal thread electric three-way ball valve: easy thread connection for small/medium pipelines, precise electric control, medium shunting/confluence/reversing, tight sealing, suitable for HVAC, light industry and small chemical systems as a lightweight flow control part.

## Main Performance Specifications

- Nominal Diameter: DN15~DN250
- Nominal Pressure: 1.6MPa~6.4MPa
- Medium Temperature: ≤220℃
- Protection Class: Ip67
- Applicable Media: Foodstuff, grease, fibrous fluid
- Manufacturing Standard: GB12237-2021, API 6D
- Face-to-Face Standard: GB/T 12221-2005
- Inspection Standard: API 598



## Installation Dimension Drawing



| Size (mm) | L   | G                                              | Φd | F   | H1  | H2  | W1  | W2  |
|-----------|-----|------------------------------------------------|----|-----|-----|-----|-----|-----|
| 12        | 70  | Thread<br>Standard<br>NPT<br>BSP<br>DIN<br>etc | 12 | 40  | 196 | 38  | 196 | 145 |
| 15        | 83  |                                                | 15 | 42  | 198 | 40  | 196 | 145 |
| 18        | 89  |                                                | 18 | 54  | 208 | 50  | 196 | 145 |
| 25        | 116 |                                                | 25 | 60  | 217 | 59  | 196 | 145 |
| 32        | 134 |                                                | 32 | 68  | 228 | 70  | 196 | 145 |
| 38        | 152 |                                                | 38 | 84  | 232 | 74  | 196 | 145 |
| 50        | 200 |                                                | 50 | 98  | 251 | 93  | 196 | 145 |
| 65        | 240 |                                                | 65 | 106 | 302 | 110 | 255 | 182 |
| 80        | 278 |                                                | 80 | 114 | 325 | 133 | 255 | 182 |

# Flanged Pneumatic Three-Way Ball Valve

## Product Description

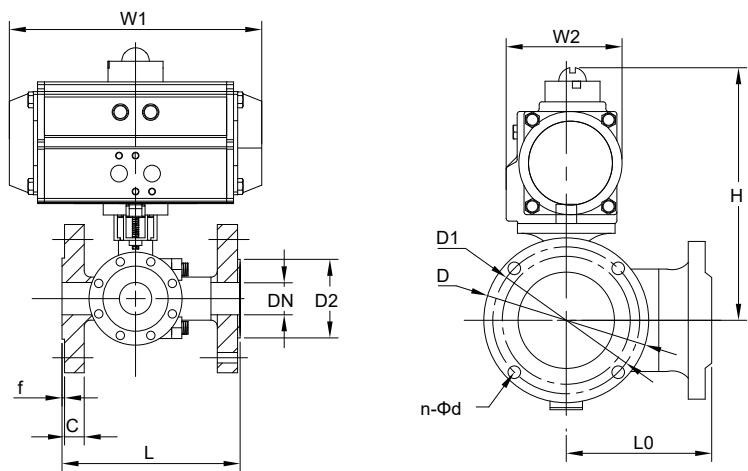
Flanged pneumatic three-way ball valve features pressure and vibration resistant flange connection for large industrial pipelines. It achieves quick pneumatic action to divert, converge and reverse media with stable leakproof sealing, perfect for complex pipeline regulation in chemical, thermal and fluid engineering.

## Main Performance Specifications

Nominal Diameter: DN15~DN250  
Nominal Pressure: 1.6MPa~6.4MPa  
Medium Temperature: ≤220℃  
Protection Class: Ip66  
Applicable Media: Foodstuff, grease, fibrous fluid  
Manufacturing Standard: GB12237-2021, API 6D  
Face-to-Face Standard: GB/T 12221-2005  
Inspection Standard: API 598  
Flange Standard: JB/T 79-2015, GB/T 9124.1-2019, GB/T 9124.2-2019, ANSI B16.5, JIS B2239



## Installation Dimension Drawing



| Size<br>(mm) | L   | L0  | D2  | C  | f | D   | D1  | n-Φd  | Double-acting |     |     | Single-acting |     |     |
|--------------|-----|-----|-----|----|---|-----|-----|-------|---------------|-----|-----|---------------|-----|-----|
|              |     |     |     |    |   |     |     |       | H1            | W1  | W2  | H1            | W1  | W2  |
| 15           | 150 | 75  | 45  | 14 | 2 | 95  | 65  | 4-Φ14 | 202           | 147 | 72  | 202           | 147 | 72  |
| 20           | 160 | 80  | 55  | 14 | 2 | 105 | 75  | 4-Φ14 | 216           | 147 | 72  | 232           | 168 | 83  |
| 25           | 180 | 90  | 65  | 14 | 2 | 115 | 85  | 4-Φ14 | 238           | 168 | 83  | 250           | 184 | 95  |
| 32           | 200 | 100 | 78  | 16 | 2 | 135 | 100 | 4-Φ18 | 247           | 168 | 83  | 268           | 204 | 103 |
| 40           | 220 | 110 | 85  | 16 | 3 | 145 | 110 | 4-Φ18 | 272           | 184 | 95  | 289           | 262 | 109 |
| 50           | 240 | 120 | 100 | 16 | 3 | 160 | 125 | 4-Φ18 | 287           | 204 | 103 | 311           | 268 | 122 |
| 65           | 260 | 130 | 120 | 16 | 3 | 180 | 145 | 4-Φ18 | 311           | 262 | 109 | 369           | 301 | 142 |
| 80           | 280 | 140 | 135 | 18 | 3 | 195 | 160 | 8-Φ18 | 351           | 268 | 122 | 410           | 390 | 152 |
| 100          | 320 | 160 | 155 | 20 | 3 | 215 | 180 | 8-Φ18 | 413           | 301 | 142 | 455           | 458 | 174 |

Note: For pneumatic valves, the matching actuator model and relevant dimensions may vary depending on service medium, valve torque and control method.

# Internal Threaded Pneumatic Three-Way Ball Valve

## Product Description

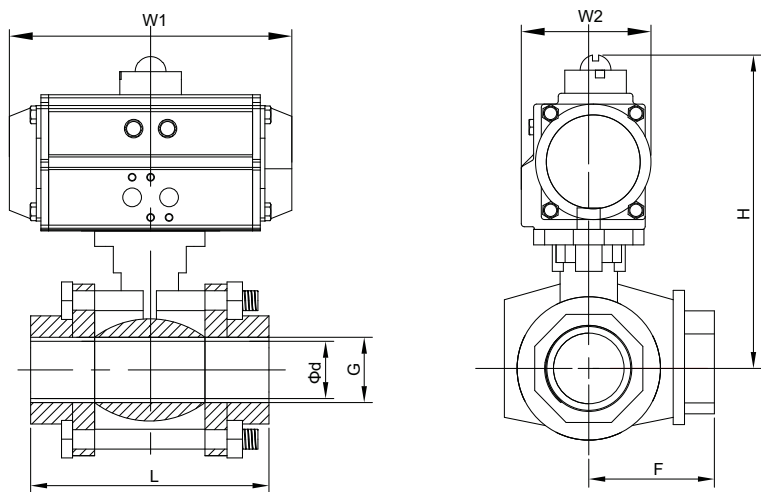
Internal thread pneumatic three-way ball valve enables quick easy installation without extra flanges, ideal for small and medium pipelines. Sensitive pneumatic drive ensures efficient switching for medium diversion, confluence and reversal with tight sealing. Lightweight flow control part for HVAC and light industry systems.

## Main Performance Specifications

Nominal Diameter: DN15~DN250  
Nominal Pressure: 1.6MPa~6.4MPa  
Medium Temperature: ≤220℃  
Protection Class: Ip67  
Applicable Media: Foodstuff, grease, fibrous fluid  
Manufacturing Standard: GB12237-2021, API 6D  
Face-to-Face Standard: GB/T 12221-2005  
Inspection Standard: API 598



## Installation Dimension Drawing



| Size<br>(mm) | L1  | L2                       | L  | D1  | Double-acting |     |     | Single-acting |     |     |
|--------------|-----|--------------------------|----|-----|---------------|-----|-----|---------------|-----|-----|
|              |     |                          |    |     | H1            | W1  | W2  | H1            | W1  | W2  |
| 12           | 70  | Thread<br>Standard       | 12 | 40  | 182           | 147 | 72  | 182           | 147 | 72  |
| 15           | 83  |                          | 15 | 42  | 184           | 147 | 72  | 184           | 147 | 72  |
| 18           | 89  |                          | 18 | 54  | 194           | 147 | 72  | 210           | 168 | 83  |
| 25           | 116 |                          | 25 | 60  | 219           | 168 | 83  | 231           | 184 | 95  |
| 32           | 134 | NPT<br>BSP<br>DIN<br>etc | 32 | 68  | 230           | 168 | 83  | 251           | 204 | 103 |
| 38           | 152 |                          | 38 | 84  | 246           | 184 | 95  | 263           | 262 | 109 |
| 50           | 200 |                          | 50 | 98  | 274           | 204 | 103 | 298           | 268 | 122 |
| 65           | 240 |                          | 65 | 106 | 311           | 262 | 109 | 369           | 301 | 142 |
| 80           | 278 |                          | 80 | 114 | 350           | 268 | 122 | 409           | 390 | 152 |

Note: For pneumatic valves, the matching actuator model and relevant dimensions may vary depending on service medium, valve torque and control method.

# Flanged Explosion-Proof Electric Three-Way Ball Valve

## Product Description

Flanged explosion-proof electric three-way ball valve is sturdy for large hazardous pipelines. With safe explosion-proof motor, it realizes precise flow diversion and reversal leak-tight, ideal for petrochemical and gas industry.

## Main Performance Specifications

Nominal Diameter: DN15~DN250

Nominal Pressure: 1.6MPa~6.4MPa

Medium Temperature:  $\leq 220^{\circ}\text{C}$

Protection Class: Ip67

Applicable Media: Foodstuff, grease, fibrous fluid

Manufacturing Standard: GB12237-2021, API 6D

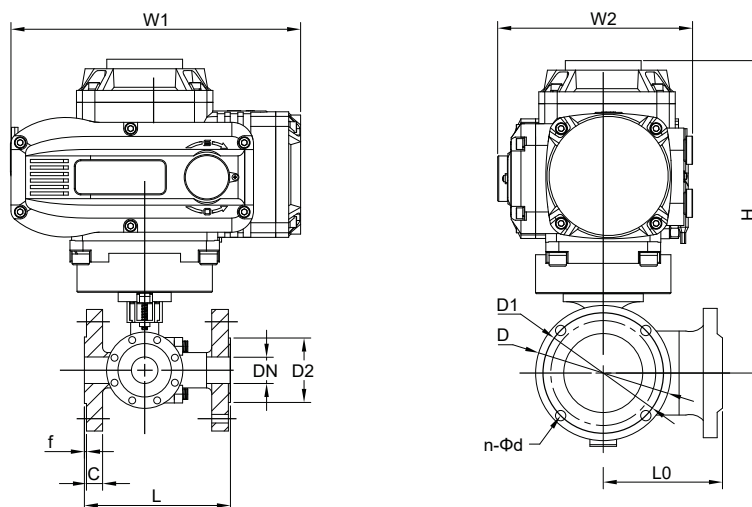
Face-to-Face Standard: GB/T 12221-2005

Inspection Standard: API 598

Flange Standard: JB/T 79-2015, GB/T 9124.1-2019, GB/T 9124.2-2019, ANSI B16.5, JIS B2239



## Installation Dimension Drawing



| Size<br>(mm) | L   | L0  | D2  | C  | f | D   | D1  | H   | n-Φd  | W1  | W2  |
|--------------|-----|-----|-----|----|---|-----|-----|-----|-------|-----|-----|
| 15           | 150 | 75  | 45  | 14 | 2 | 95  | 65  | 246 | 4-Φ14 | 217 | 150 |
| 20           | 160 | 80  | 55  | 14 | 2 | 105 | 75  | 260 | 4-Φ14 | 217 | 150 |
| 25           | 180 | 90  | 65  | 14 | 2 | 115 | 85  | 266 | 4-Φ14 | 217 | 150 |
| 32           | 200 | 100 | 78  | 16 | 2 | 135 | 100 | 275 | 4-Φ18 | 217 | 150 |
| 40           | 220 | 110 | 85  | 16 | 3 | 145 | 110 | 288 | 4-Φ18 | 217 | 150 |
| 50           | 240 | 120 | 100 | 16 | 3 | 160 | 125 | 293 | 4-Φ18 | 217 | 150 |
| 65           | 260 | 130 | 120 | 16 | 3 | 180 | 145 | 325 | 4-Φ18 | 268 | 180 |
| 80           | 280 | 140 | 135 | 18 | 3 | 195 | 160 | 350 | 8-Φ18 | 268 | 180 |
| 100          | 320 | 160 | 155 | 20 | 3 | 215 | 180 | 370 | 8-Φ18 | 268 | 180 |

# Internal Threaded Explosion-Proof Electric Three-Way Ball Valve

## Product Description

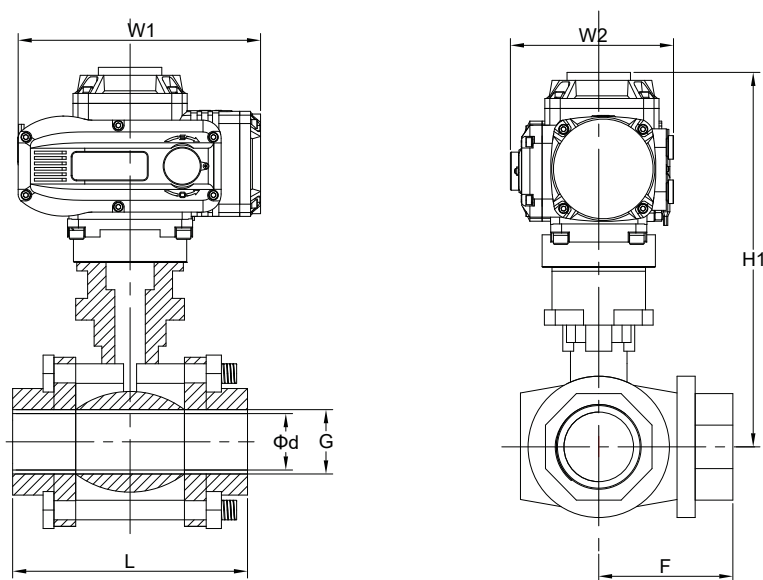
Internal thread explosion-proof electric three-way ball valve is easy to install for small&medium hazardous pipelines. Safe explosion-proof motor enables precise flow diversion and reversal with tight sealing, ideal for gas and mini petrochemical systems.

## Main Performance Specifications

- Nominal Diameter: DN15~DN250
- Nominal Pressure: 1.6MPa~6.4MPa
- Medium Temperature: ≤220℃
- Protection Class: Ip67
- Applicable Media: Foodstuff, grease, fibrous fluid
- Manufacturing Standard: GB12237-2021, API 6D
- Face-to-Face Standard: GB/T 12221-2005
- Inspection Standard: API 598



## Installation Dimension Drawing



| Size(mm) | L   | G                        | Φd | F   | H1  | W1  | W2  |
|----------|-----|--------------------------|----|-----|-----|-----|-----|
| 12       | 70  | Thread Standard          | 12 | 40  | 226 | 217 | 150 |
| 15       | 83  |                          | 15 | 42  | 228 | 217 | 150 |
| 18       | 89  |                          | 18 | 54  | 238 | 217 | 150 |
| 25       | 116 |                          | 25 | 60  | 247 | 217 | 150 |
| 32       | 134 | NPT<br>BSP<br>DIN<br>etc | 32 | 68  | 258 | 217 | 150 |
| 38       | 152 |                          | 38 | 84  | 262 | 217 | 150 |
| 50       | 200 |                          | 50 | 98  | 280 | 217 | 150 |
| 65       | 240 |                          | 65 | 106 | 325 | 268 | 180 |
| 80       | 278 |                          | 80 | 114 | 349 | 268 | 180 |

# Low-flow Control Valve



## Product Introduction:

As an MFR patented product, the small flow electric control valve operates with input control signals and single-phase power supply. It realizes regulation of pressure, flow, temperature, liquid level and other parameters in various special process fields requiring micro-flow precision adjustment, specifically designed for small-flow and high-precision adjustment scenarios.

## Product Features:

- Upgraded temperature resistance: PTFE soft seal can be replaced with high-performance Stellite overlay alloy seal ring, with a high temperature resistance limit of up to 350°C.
- Impurity cut-off guarantee: Rectangular port design formed by valve seat and valve core can easily cut off various pipeline impurities, ensuring long-term unobstructed pipelines.
- Extended valve stem for heat dissipation: Equipped with optional extended valve stem structure to increase the distance between the actuator and high-temperature medium, greatly improving heat dissipation performance.
- Flange sealing anti-leakage: Innovative improved hard-seal flange sealing surface without screw holes enhances sealing strength, eliminates flange leakage risks, and reaches Class V sealing level.

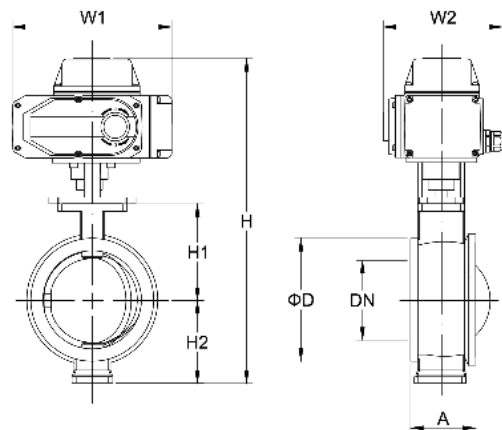
# Wafer / Flange Type Small Flow Electric Control Valve

## Main Performance Specifications

Nominal Diameter: Dn15  
Nominal Pressure: 1.6MPa~6.4MPa  
Medium Temperature: -30°C~60°C  
Protection Class: Ip67  
Applicable Media: Liquid, gas  
Manufacturing Standard: GB/T 12238-2008  
Face-to-Face Standard: GB/T 12221-2005  
Test Standard: GB/T 13927-2008  
Flange Standard: GB/T 9124.1-2019, GB/T 9124.2-2019, GB/T 17241.6-2008

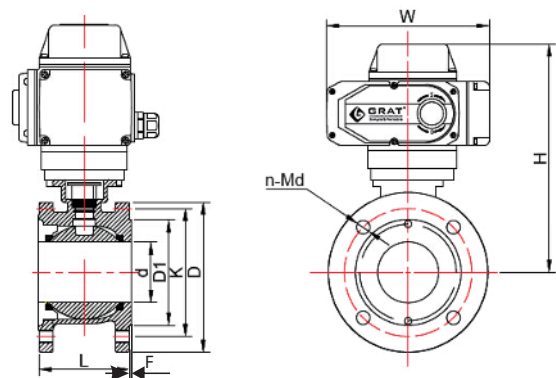


## Installation Dimension Drawing



| Size (mm) | in   | A  | ΦD | H1 | H2 | H   | W1  | W2  |
|-----------|------|----|----|----|----|-----|-----|-----|
| 15        | 1/2" | 62 | 54 | 74 | 75 | 390 | 196 | 145 |

## 对夹式快速开关电动蝶阀安装尺寸图



| Size |      | d  | D1 | K  | D  | n-Md  | f | L  | H   | W   |
|------|------|----|----|----|----|-------|---|----|-----|-----|
| mm   | in   |    |    |    |    |       |   |    |     |     |
| DN15 | 1/2" | 15 | 45 | 65 | 95 | 4-M12 | 2 | 35 | 210 | 196 |

# Quick-Opening Valve



## Product Introduction:

Designed for efficient industrial fluid control, the quick on-off valve features fast opening and closing to quickly cut off or conduct media, suitable for chemical, water supply and drainage and other working conditions. Compact in structure and easy to operate, it has excellent sealing performance and corrosion resistance, stably copes with complex media, and is an ideal choice for improving system operation efficiency.

## Product Features:

- High opening and closing efficiency: The valve core has a small rotation angle, and the switching action is completed in seconds, greatly shortening the fluid on-off response time.
- Strong durability: Adopting wear-resistant sealing material, it is erosion-resistant and anti-aging, adapts to harsh working conditions, and extends the service life of equipment.
- Low operation and maintenance cost: With a simplified structure, it is easy to disassemble and maintain, no complex tools are needed for daily maintenance, reducing downtime for maintenance.

# Wafer Type Electric Quick-Opening Butterfly Valve

## Product Description

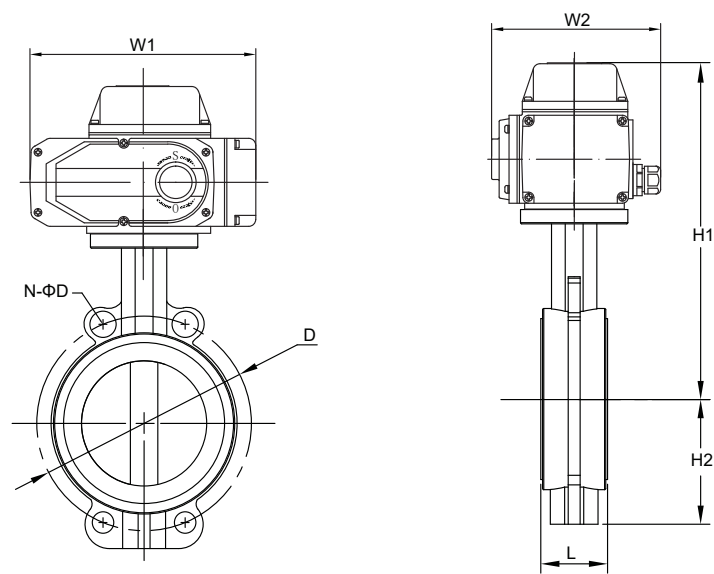
Wafer quick-opening electric Butterfly Valve integrates electric actuator. It opens and closes rapidly via 90° disc rotation, featuring compact structure and low flow resistance. It supports precise adjustment and remote control, stable, reliable and easy to maintain for various fluid delivery.

## Main Performance Specifications

- Nominal Diameter: DN40~DN800
- Nominal Pressure: 0.1MPa~1.6MPa
- Medium Temperature: ≤60°C
- Protection Class: Ip67
- Applicable Media: Water, oil, gas, etc.
- Manufacturing Standards: GB/T 12238-2008, API 609
- Face-to-Face Standard: GB/T 12221-2005
- Test Standard: GB/T 13927-2022



## Installation Dimension Drawing



| Size(mm) | L    | D   | N-φD  | H2  | H1  | W1  | W2  |
|----------|------|-----|-------|-----|-----|-----|-----|
| 40       | 33   | 125 | 4-φ18 | 48  | 210 | 167 | 138 |
| 50       | 42.6 | 125 | 4-φ18 | 70  | 314 | 196 | 145 |
| 65       | 45.6 | 145 | 4-φ18 | 76  | 327 | 196 | 145 |
| 80       | 45.6 | 160 | 8-φ18 | 89  | 333 | 255 | 182 |
| 100      | 51.6 | 180 | 4-φ22 | 104 | 385 | 255 | 182 |
| 125      | 55.6 | 210 | 4-φ22 | 120 | 400 | 255 | 182 |
| 150      | 55.6 | 240 | 4-φ23 | 139 | 442 | 255 | 182 |
| 200      | 59.6 | 295 | 4-φ23 | 175 | 480 | 354 | 251 |

# Flanged Electric Quick-Opening Butterfly Valve

## Product Description

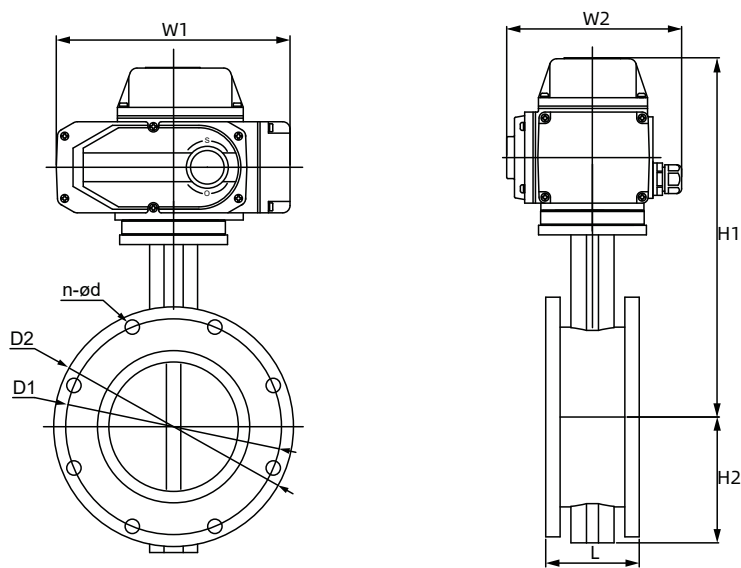
Flanged quick-opening electric Butterfly Valve is equipped with a high-efficiency electric actuator, enabling rapid opening and closing via 90° disc rotation. It features high valve body strength and excellent sealing, suitable for complex medium control, with convenient remote operation, stable operation and low maintenance cost.

## Main Performance Specifications

- Nominal Diameter: DN50~DN200
- Nominal Pressure: 0.1MPa~1.6MPa
- Medium Temperature: ≤60°C
- Protection Class: Ip67
- Applicable Media: Water, oil, gas, etc.
- Manufacturing Standards: GB/T 12238-2008, API 609
- Face-to-Face Standard: GB/T 12221-2005
- Test Standards: GB/T 13927-2008, API 598



## Installation Dimension Drawing



| Size(mm) | D1  | D2  | N-ΦD  | L   | H2  | H1  | W1  | W2  |
|----------|-----|-----|-------|-----|-----|-----|-----|-----|
| 50       | 125 | 165 | 4-Φ18 | 108 | 70  | 288 | 196 | 145 |
| 65       | 145 | 185 | 4-Φ18 | 112 | 76  | 301 | 196 | 145 |
| 80       | 160 | 200 | 4-Φ18 | 114 | 89  | 313 | 255 | 182 |
| 100      | 180 | 220 | 8-Φ18 | 127 | 104 | 328 | 255 | 182 |
| 125      | 210 | 250 | 8-Φ18 | 140 | 120 | 348 | 255 | 182 |
| 150      | 240 | 285 | 8-Φ23 | 140 | 132 | 368 | 255 | 182 |
| 200      | 295 | 340 | 8-Φ23 | 152 | 167 | 435 | 354 | 251 |

# Ultra-Short Flanged Electric Quick-Opening Valve Ball Valve

## Product Description

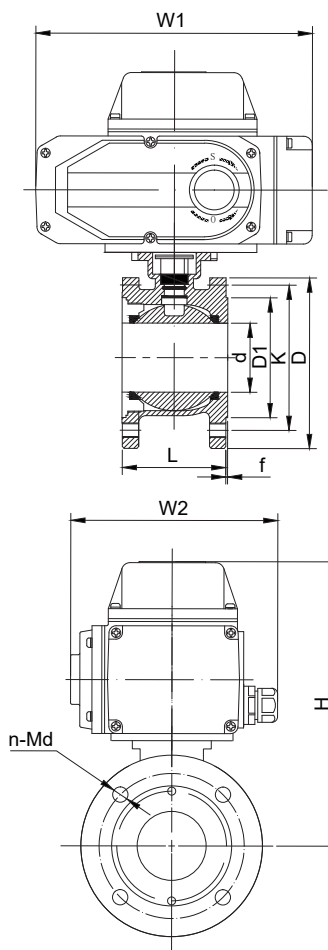
Flanged fast-switch electric ball valve cuts off flow instantly via 90° ball rotation. Firm flange connection and great sealing suit high-pressure & corrosive conditions, with precise remote control and easy maintenance.

## Main Performance Specifications

- Nominal Diameter: DN15~DN100
- Nominal Pressure: 0.1MPa~6.4MPa
- Medium Temperature: ≤220°C
- Protection Class: Ip67
- Applicable Media: Water, oil, gas, etc.
- Manufacturing Standards: GB12237-2021, API 6D
- Face-to-Face Standard: GB/T 12221-2005
- Test Standard: API 598
- Flange Standards: JB/T 79-2015, GB/T 9124.1-2019, GB/T 9124.2-2019, ANSI B16.5, JIS B2239



## Installation Dimension Drawing



| Size |         | d  | D1  | K   | D   | n-Md  | f | L   | H   | W1  | W2  |
|------|---------|----|-----|-----|-----|-------|---|-----|-----|-----|-----|
| mm   | in      |    |     |     |     |       |   |     |     |     |     |
| 15   | 1/2 "   | 15 | 45  | 65  | 95  | 4-M12 | 2 | 35  | 210 | 196 | 145 |
| 20   | 3/4 "   | 19 | 55  | 75  | 105 | 4-M12 | 2 | 38  | 216 | 196 | 145 |
| 25   | 1 "     | 25 | 65  | 85  | 115 | 4-M12 | 2 | 50  | 223 | 196 | 145 |
| 32   | 1-1/4 " | 28 | 76  | 100 | 140 | 4-M12 | 2 | 50  | 230 | 196 | 145 |
| 40   | 1-1/2 " | 38 | 83  | 110 | 148 | 4-M16 | 3 | 67  | 240 | 196 | 145 |
| 50   | 2 "     | 49 | 102 | 125 | 156 | 4-M16 | 3 | 72  | 250 | 196 | 145 |
| 65   | 2-1/2 " | 64 | 120 | 145 | 185 | 4-M16 | 3 | 94  | 298 | 255 | 182 |
| 80   | 3 "     | 73 | 143 | 160 | 200 | 8-M16 | 3 | 120 | 312 | 255 | 182 |
| 100  | 4 "     | 90 | 168 | 180 | 220 | 8-M16 | 3 | 141 | 322 | 255 | 182 |

# 单座 调节阀

Single-seated  
Control Valve



## Product Introduction:

As a commonly used high-precision control valve in industrial automation control systems, the single-seat control valve adopts a top-guided structure and is equipped with a multi-spring actuator. It features compact structure, light weight, sensitive action, S-shaped streamlined fluid channel, small pressure drop loss, large valve capacity, accurate flow characteristics and easy disassembly. Made of carbon steel, stainless steel, etc., some can adopt lining technology to enhance corrosion resistance. It is widely used in petroleum, chemical, power, metallurgy, water supply and drainage industries for precise regulation of various media.

## Product Features:

- Strong high-temperature adaptability: Optional extended valve stem increases the distance between the actuator and high-temperature medium for better heat dissipation; hard seal adopts Stellite overlay alloy seal ring, with high temperature resistance up to 350°C.
- High regulation precision: Integrated design of valve stem and ball core effectively solves mechanical backlash, with rotation error  $\leq 0.35\%$  to ensure regulation accuracy.
- Reliable sealing performance: Hard seal structure with high-quality alloy seal ring ensures tight sealing and small leakage, suitable for harsh high-pressure and high-temperature working conditions.
- Stable and durable operation: Integrated structure improves mechanical strength, reduces component wear, extends service life and lowers maintenance costs.

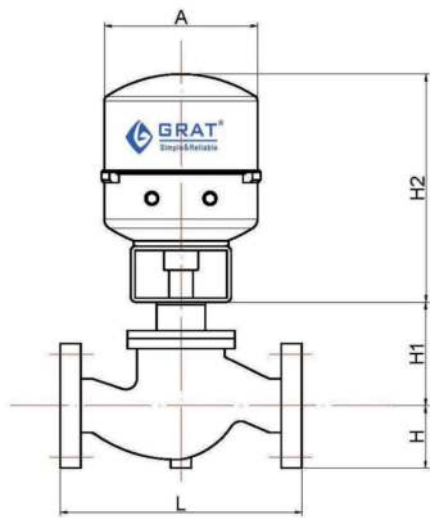
# Single-Seated Electric Control Valve

## Product Description

Single-seat regulating valve adopts top-guided structure with multi-spring actuator. It features compact design, light weight, sensitive action, S-shaped flow passage, low pressure drop, large flow capacity, accurate flow characteristic and easy installation. Widely used for precise control of gas, liquid and other media.

## Main Performance Specifications

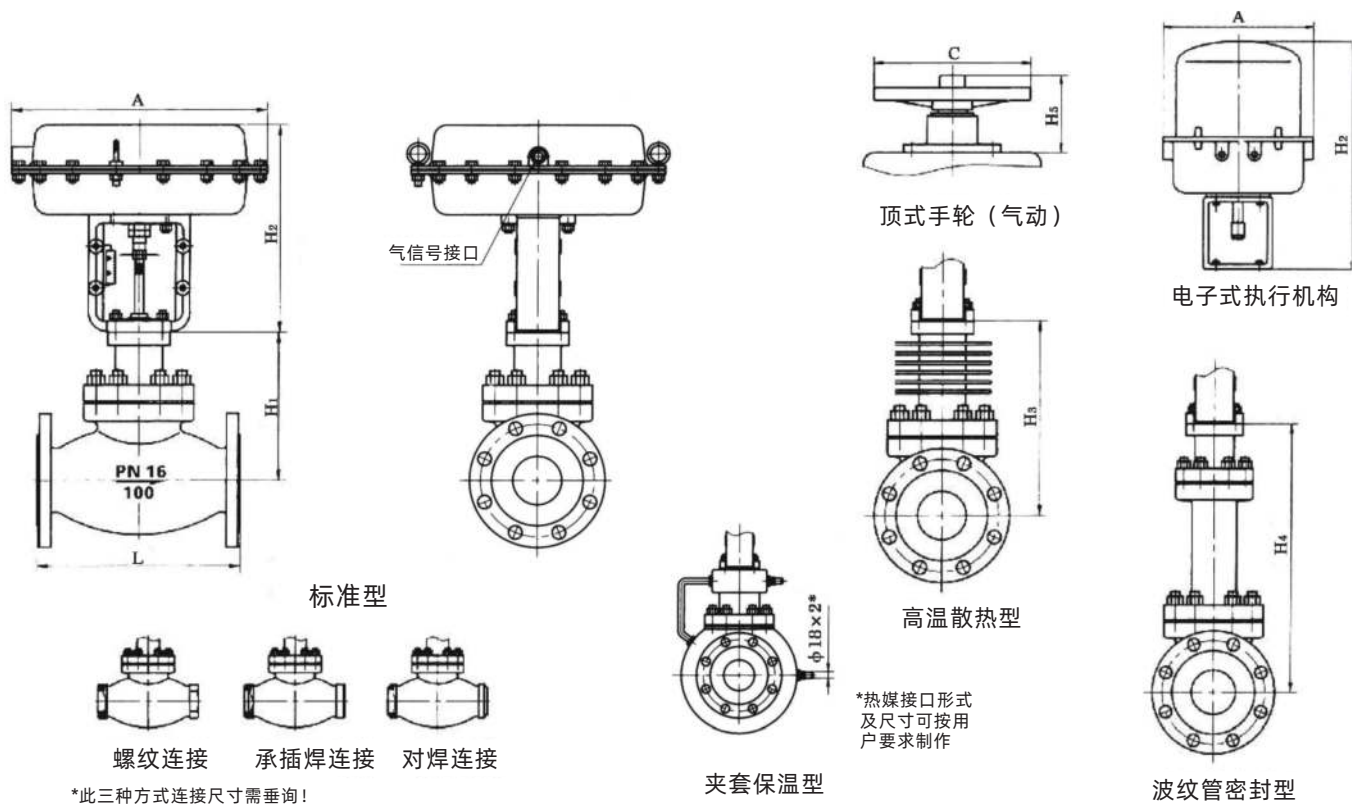
- Nominal Diameter: DN20~DN200
- Nominal Pressure: 1.6MPa~6.4MPa
- Medium Temperature: ≤350°C
- Protection Class: Ip67
- Applicable Media: Food, grease, fibrous fluid
- Manufacturing Standard: GB/T 12238-2008
- Face-to-Face Standard: GB/T 12221-2005
- Test Standard: GB/T 13927-2022
- Flange Standards: GB/T 9124.1-2019, GB/T 17241.6-2008



| Size(mm)         |          | 20       | 25  | 32  | 40       | 50  | 65  | 80       | 100 | 125 | 150      | 200 |
|------------------|----------|----------|-----|-----|----------|-----|-----|----------|-----|-----|----------|-----|
| L                | PN16~40  | 150      | 160 | 180 | 200      | 230 | 290 | 310      | 350 | 400 | 480      | 600 |
|                  | PN64~100 | 205      | 210 | 230 | 251      | 286 | 311 | 337      | 394 | 450 | 508      | 650 |
| H                | PN16~40  | 52       | 57  | 75  | 75       | 82  | 92  | 100      | 117 | 150 | 167      | 187 |
|                  | PN64~100 | 66       | 70  | 85  | 85       | 90  | 103 | 108      | 125 | 173 | 195      | 208 |
| H1               |          | 125      | 125 | 155 | 155      | 165 | 200 | 205      | 210 | 275 | 330      | 372 |
| A*H2             |          | Φ225*370 |     |     | Φ255*500 |     |     | Φ310*700 |     |     | Φ310*750 |     |
| Weight (kg) PN16 |          | 20       | 21  | 24  | 33       | 37  | 65  | 68       | 56  | 118 | 145      | 215 |
| Weight (kg) PN64 |          | 23       | 24  | 32  | 44       | 53  | 76  | 81       | 100 | 156 | 178      | 265 |

# Single-Seated Pneumatic Control Valve

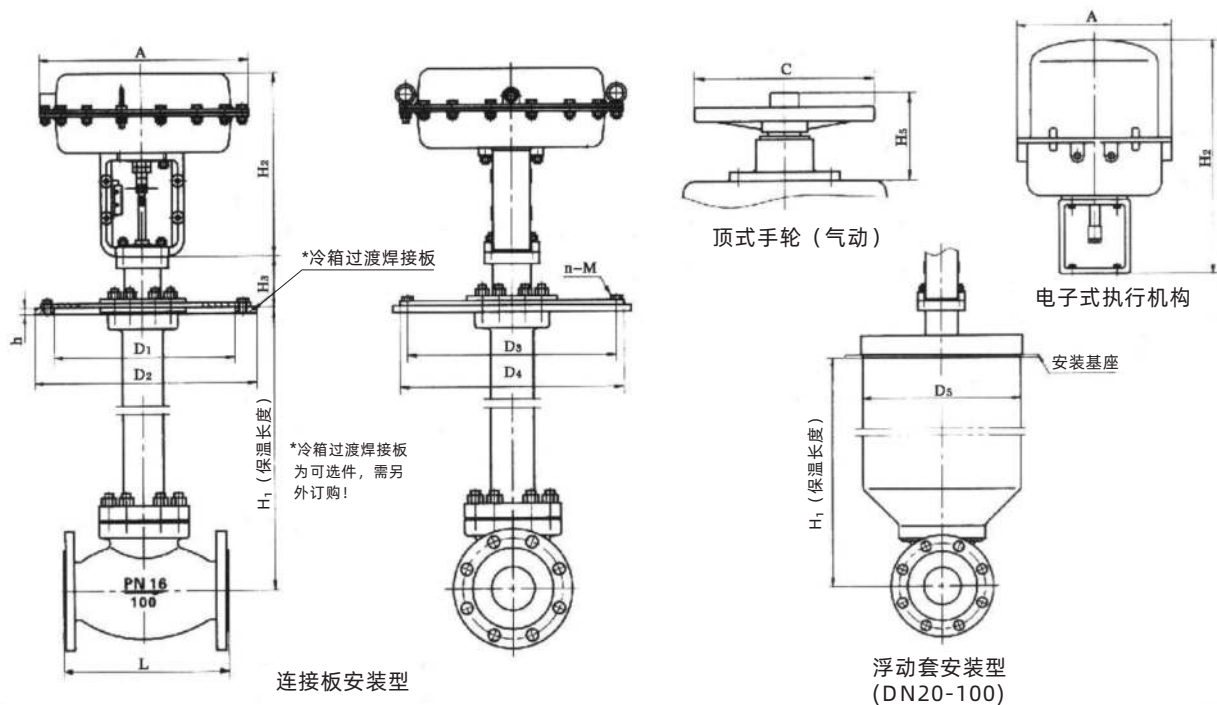
标准型、散热性、波纹管密封型、夹套保温型外形尺寸及重量



| Size(mm)                                   |           | 20       | 25  | 32  | 40       | 50  | 65       | 80       | 100 | 125 | 150      | 200 |
|--------------------------------------------|-----------|----------|-----|-----|----------|-----|----------|----------|-----|-----|----------|-----|
| L                                          | PN16~40   | 150      | 160 | 180 | 200      | 230 | 290      | 310      | 350 | 400 | 480      | 600 |
|                                            | PN64~100  | 206      | 210 | 230 | 251      | 286 | 311      | 337      | 394 | 450 | 508      | 650 |
| H <sub>2</sub>                             |           | 125      | 125 | 155 | 155      | 165 | 200      | 205      | 210 | 275 | 330      | 372 |
| A×H <sub>2</sub>                           | Pneumatic | Φ282*260 |     |     | Φ308*282 |     |          | Φ394*362 |     |     | Φ498*436 |     |
|                                            | Electric  | Φ225*370 |     |     | Φ255*500 |     |          | Φ310*700 |     |     | Φ310*750 |     |
| H <sub>3</sub>                             |           | 212      | 212 | 222 | 226      | 230 | 335      | 335      | 345 | 414 | 456      | 478 |
| H <sub>4</sub>                             |           | 326      | 326 | 394 | 394      | 398 | 605      | 605      | 618 | 688 | 690      | 708 |
| C×H <sub>5</sub>                           |           | Φ220*180 |     |     |          |     | Φ270*240 |          |     |     | Φ320*315 |     |
| Jacketed Flange Dimensions DH <sub>2</sub> |           | 40       | 40  | 50  | 65       | 80  | 100      | 125      | 150 | 200 | 250      | 300 |
| Weight (Kg)                                | PN16      | 20       | 21  | 24  | 33       | 37  | 65       | 68       | 56  | 118 | 145      | 215 |
|                                            | PN64      | 23       | 24  | 32  | 44       | 53  | 76       | 81       | 100 | 156 | 178      | 265 |

Note: Table weights are for standard pneumatic units excluding handwheels and other accessories.  
Electric actuators adopt 3610 series.

# Single-Seated Pneumatic Low-temperature Control Valve



| Size(mm) |          | 20       | 25  | 32  | 40    | 50  | 65       | 80     | 100    | 125      | 150    | 200    |
|----------|----------|----------|-----|-----|-------|-----|----------|--------|--------|----------|--------|--------|
| L、A×H2   |          | 见表一      |     |     |       |     |          |        |        |          |        |        |
| H1       |          | 700      |     |     |       |     |          |        |        |          |        |        |
| H3       |          | 92       |     |     |       |     | 96       |        |        | 115      |        |        |
| ΦD1      | PN16~40  | 230      | 230 | 250 | 270   | 305 | 342      | 375    | 430    | 490      | 556    | 665    |
|          | PN64~100 | 270      | 270 | 305 | 342   | 375 | 430      | 492    | 556    | 665      | 665    | 765    |
| ΦD2      | PN16~40  | 310      | 310 | 335 | 355   | 390 | 430      | 465    | 520    | 585      | 660    | 770    |
|          | PN64~100 | 355      | 355 | 390 | 430   | 465 | 520      | 585    | 600    | 770      | 770    | 890    |
| h        |          | 12       |     |     |       |     | 15       |        |        | 18       |        |        |
|          | PN16~40  | 260      | 260 | 285 | 305   | 340 | 370      | 405    | 460    | 525      | 590    | 700    |
|          | PN64~100 | 305      | 305 | 340 | 370   | 405 | 460      | 525    | 590    | 700      | 700    | 805    |
|          | PN16~40  | 290      | 290 | 315 | 335   | 370 | 400      | 435    | 490    | 555      | 630    | 740    |
|          | PN64~100 | 335      | 335 | 370 | 400   | 435 | 490      | 555    | 630    | 740      | 740    | 845    |
| D5       |          | Φ285     |     |     |       |     | Φ470     |        |        | Φ115     |        |        |
| n-M      |          | 8-M12    |     |     | 8-M14 |     | 10-M14   | 10-M14 | 12-M16 | 14-M16   | 16-M16 | 18-M16 |
| C×H5     |          | Φ220×182 |     |     |       |     | Φ270×240 |        |        | Φ320×315 |        |        |
| 重量 (Kg)  |          | 24       | 25  | 28  | 36    | 45  | 68       | 73     | 88     | 162      | 176    | 284    |

Note: Heat preservation length: 700mm. Weights shown are for standard PN16 pneumatic units excluding handwheels and other accessories.

# 高压 旋塞阀

Plug Valve



## Product Introduction:

The electric cock valve is a rotary valve driven by an electric actuator, which controls pipeline on-off or flow regulation by rotating the cock around the axis. Compact in structure, it features quick opening & closing and good sealing performance, suitable for water, steam, oil and other media. Widely used in petroleum, chemical, water supply and drainage industrial systems, it can realize remote automatic control with convenient operation and high reliability.

## Product Features:

- Fast opening & closing: Simple structure, completing on-off with 90° rotation, fast response, suitable for emergency working conditions.
- Low flow resistance loss: Straight-through channel ensures smooth medium flow, with pressure loss much lower than globe valves and other types.
- Excellent sealing performance: Adopting elastic sealing structure, it fits tightly when closed, with minimal or even zero leakage.
- Low maintenance cost: Few parts and compact structure, wearable parts are easy to replace, and daily maintenance is simple and convenient.

# Union Ends Explosion-proof Electric Plug Valve

## Product Description

Wafer quick-opening electric Butterfly Valve integrates electric actuator. 90° disc rotation for fast opening/closing, compact structure, low flow resistance, with precise adjustment and remote control, stable and easy to maintain for multi-industry fluid delivery.

## Main Performance Specifications

Nominal Size: 2", 3"

Nominal Pressure: 35MPa~105MPa

Medium Temperature: 29°C~121°C

Specification Level: PSL 3

Applicable Media: Petroleum, etc.

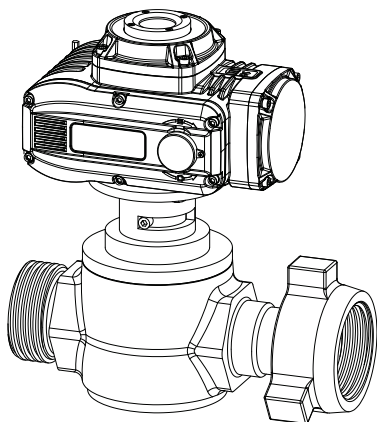
Performance Level: PR 1

Material Class: DD

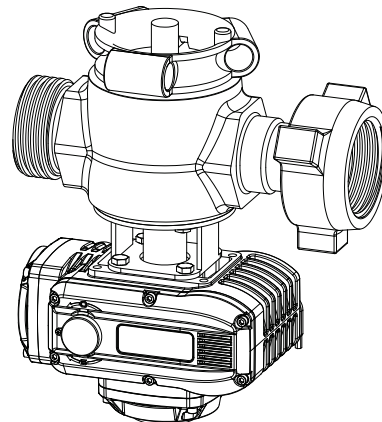


## Electric Plug Valve Installation Methods

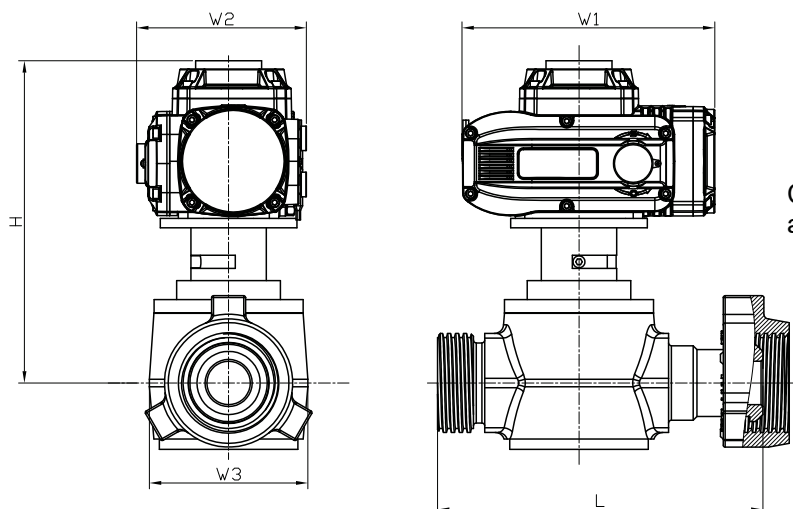
Top-entry



Bottom-entry



## Electric Plug Valve Installation Dimension Drawing



Contact sales for detailed parameters and professional support.

# Wind-Solar Hybrid Smart Control Valve



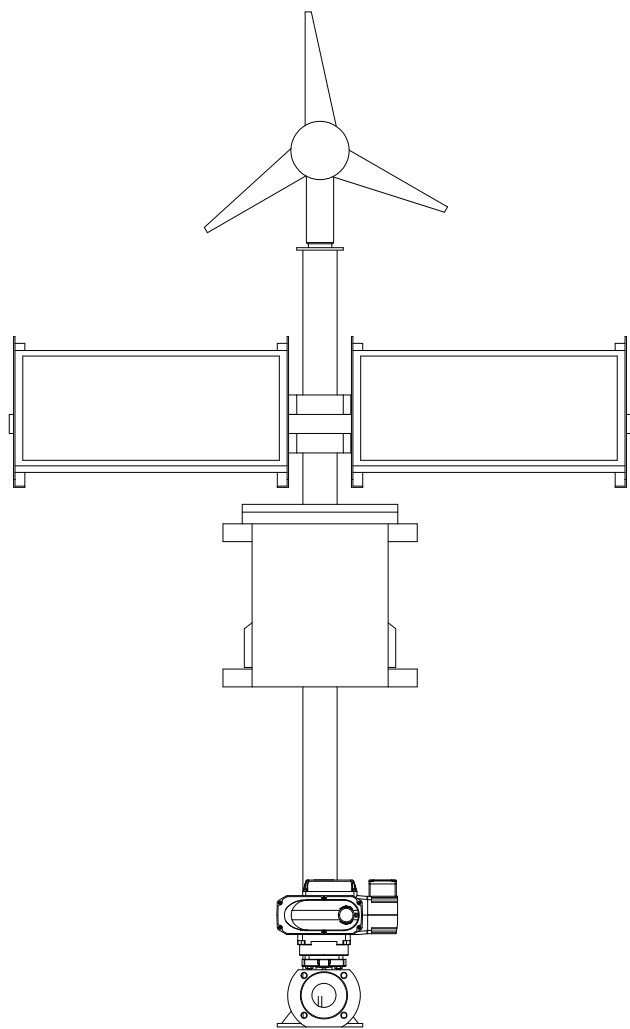
## Product Introduction:

The wind-solar complementary control valve is an intelligent flow control device integrating wind and solar energy. It operates independently via a wind-solar complementary power supply system (no reliance on the traditional power grid), integrating high-efficiency wind turbines, solar panels and energy storage modules to automatically switch power modes for stable operation in all weathers. Widely used in agricultural irrigation, urban water supply and drainage, industrial circulation and other scenarios.

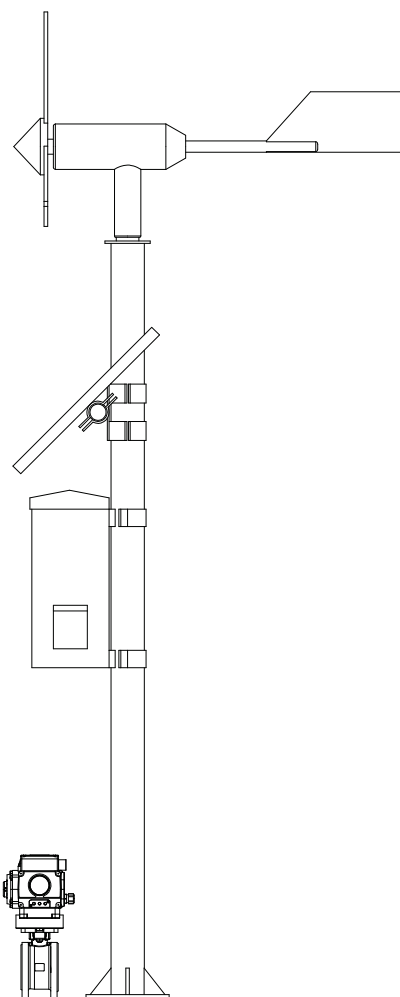
## Product Features:

- Intelligent remote control: Integrated with 4G communication module, supporting real-time mobile phone monitoring and remote control.
- Adaptation to non-electric environments: Equipped with photovoltaic and wind power generation devices, suitable for various non-electric environments.
- Long-lasting battery life guarantee: Equipped with a large-capacity battery, it can work continuously for 2 weeks.

## Front View and Side View of Wind-Solar Complementary Regulating Valve



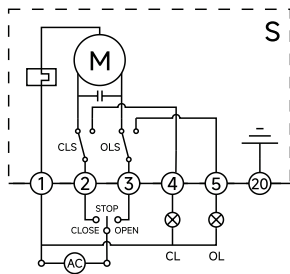
Front View



Side View

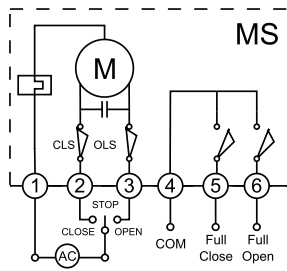
For detailed parameters, please contact our sales team  
for professional assistance.

# Circuit Diagram



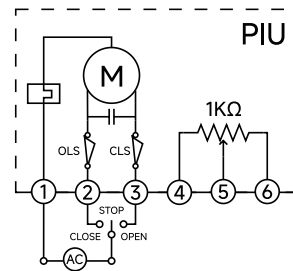
S

Switching Action Mode :  
Switching operations (open/close) are achieved via AC switching signals, and a set of active position signals indicating fully open/fully closed status are output.



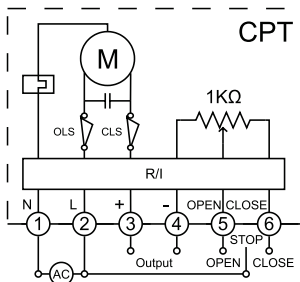
MS

Switching Action Mode: Outputs passive contact signals.  
Structure: Equipped with two intermediate position switches.



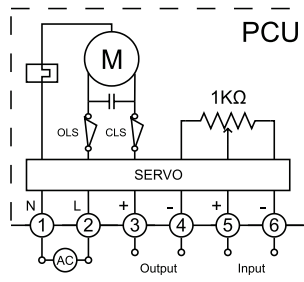
PIU

Switching Action Mode: Outputs 0~1000Ω feedback signal.  
Structure: Equipped with 500Ω or 1kΩ potentiometer.



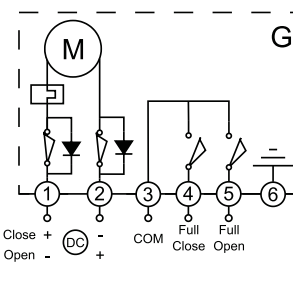
PCU

Regulating Action Mode: Accepts 4~20mA control signal input and outputs 4~20mA valve position feedback signal.  
Structure: Integrated with 1kΩ potentiometer and control module (servo amplifier).



CPT

Switching Action Mode: Outputs 4~20mA valve position feedback signal.  
Structure: Equipped with 1kΩ potentiometer and R/I converter.

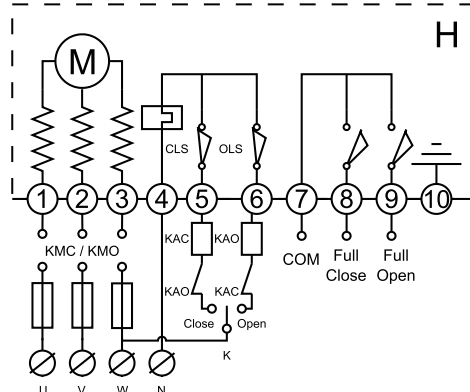
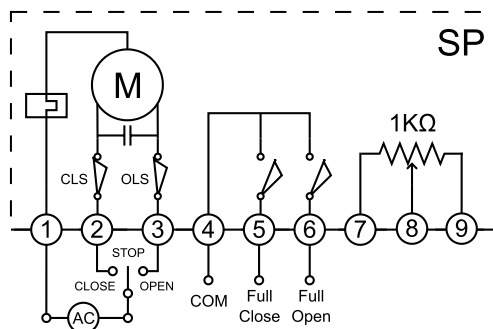


G

DC switching signals are output from the circuit via an external DC power supply to control the opening/closing program, and a set of passive contact signals corresponding to fully open/fully closed positions are provided.

SP

Switching Action Mode: Controls valve opening angle via switching circuit, corresponding to potentiometer resistance value, while enabling intermediate position control function.  
Structure: Integrated with potentiometer and intermediate position switch.

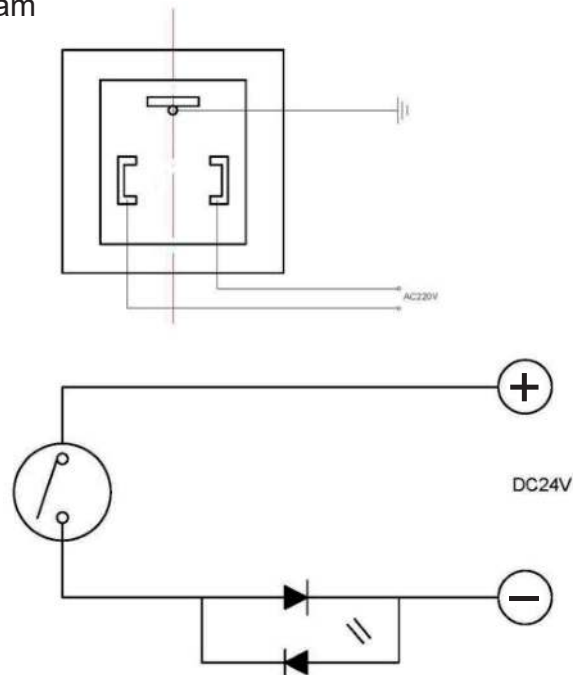


H

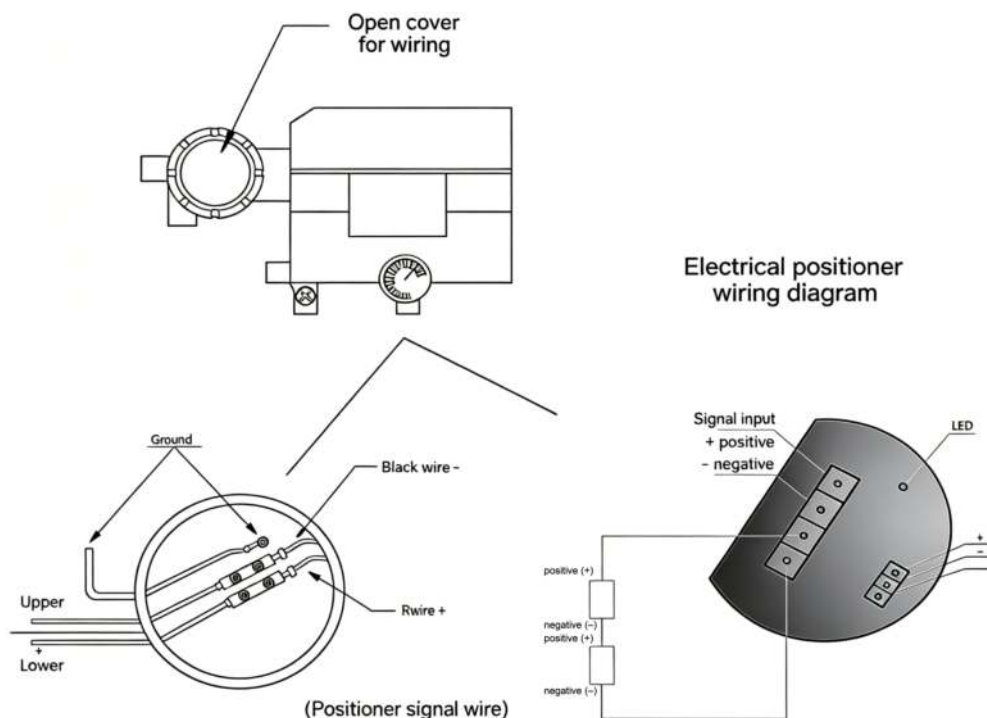
Three-phase AC switching signals are output through an external three-phase power phase-reversing circuit to control opening/closing operations, accompanied by a set of passive contact signals for fully open/fully closed position indication.

# Pneumatic Valve Circuit Diagram

On-off Type Wiring Diagram



Regulating Type Wiring Diagram



# Honors & Qualifications



High-Tech Enterprise Certificate



SIL



ISO45001



ISO14001



ISO9001



CE (EMC)



CE (LVD)



CCS



RoHS



SETTC(Ball Valve)



SETTC(Butterfly Valve)



TTC



Salt Spray Test Certificate



CNEX



CCC



IP68

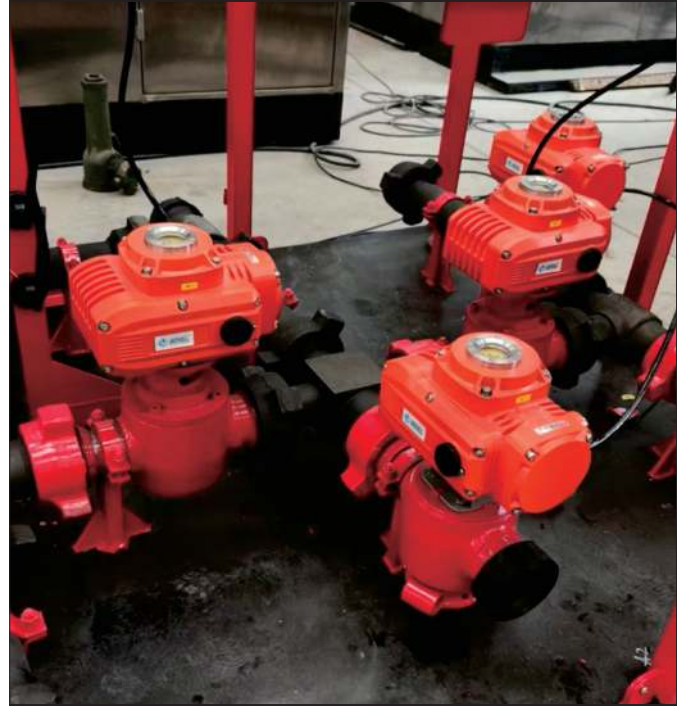


100,000 Cycles



More than **2** new patents are added every year.

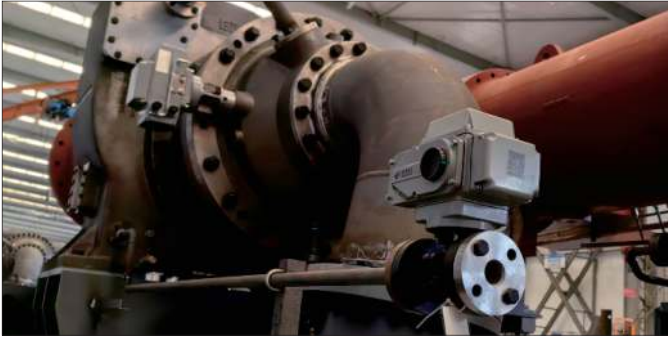
# Performance Cases



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Refrigeration Industry



Metallurgical Industry



Food & Pharmaceutical



Sewage Treatment

Hydropower Station



Automatic Control



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