

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

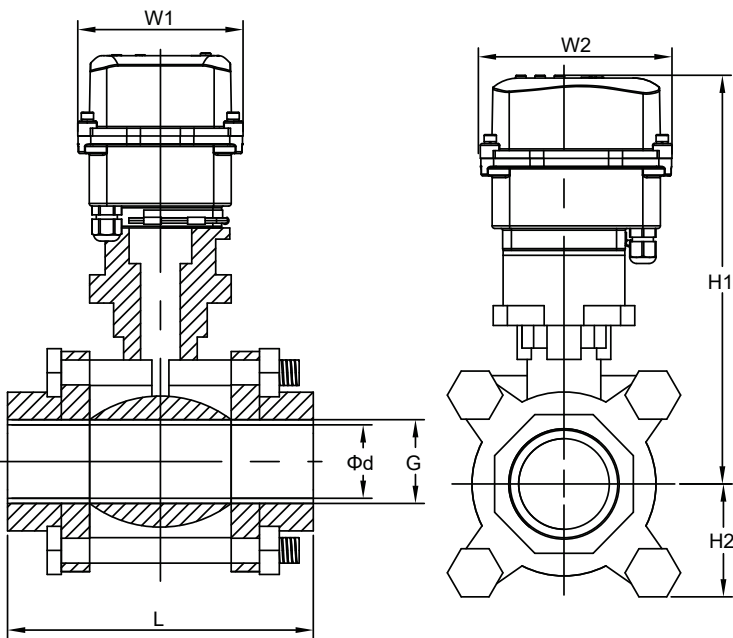
Internal Thread IoT Electric Ball Valve suits space-constrained process scenarios, widely applied in air conditioning, fire protection, water treatment, pipeline purging, analytical instruments and flue gas sampling industries.

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 (mm)	L	G	Φd	H2	H1	W1	W2
15	73	Thread Connection Standard NPT BSP DIN 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.

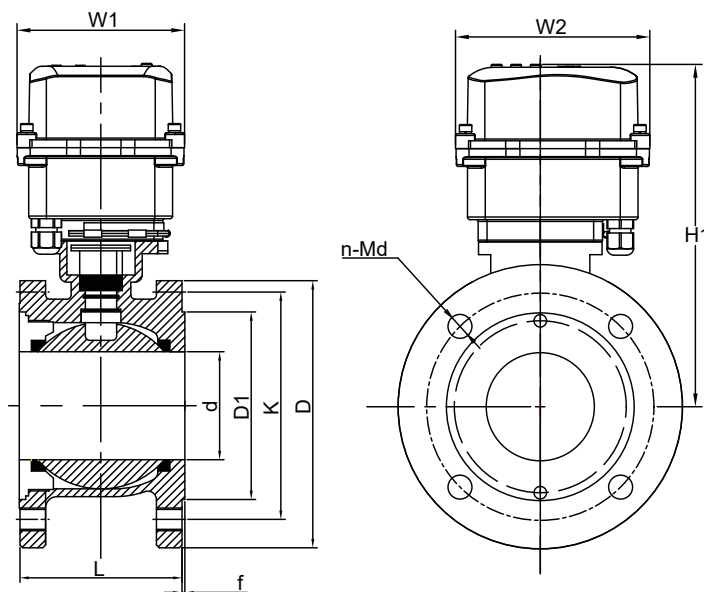
Manufacturing Standard: GB/T 12221-2005, GB12237-2021, API 6D

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

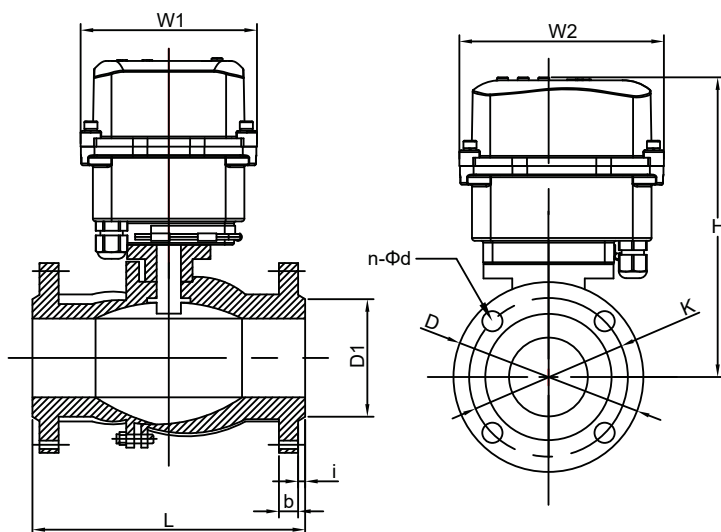
Face-to-Face Dimension Standard: GB/T 12221-2005

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

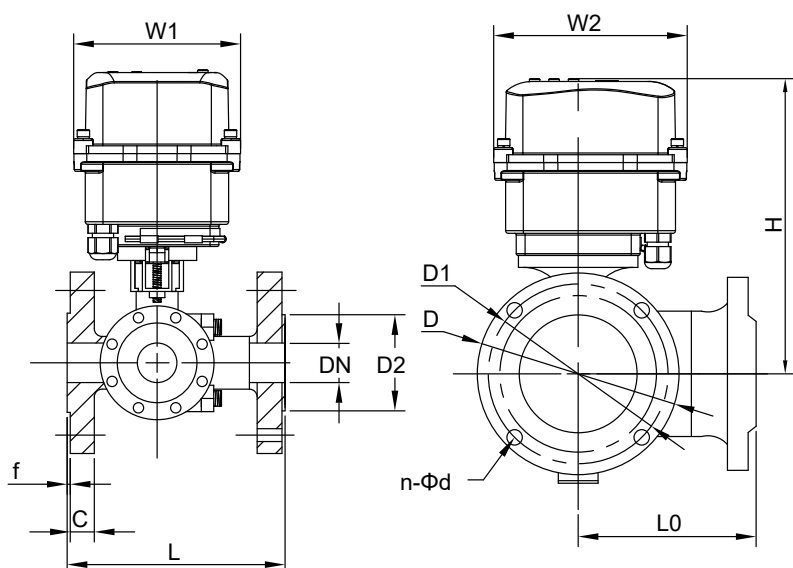
Face-to-Face Dimension Standard: GB/T12221-2005

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

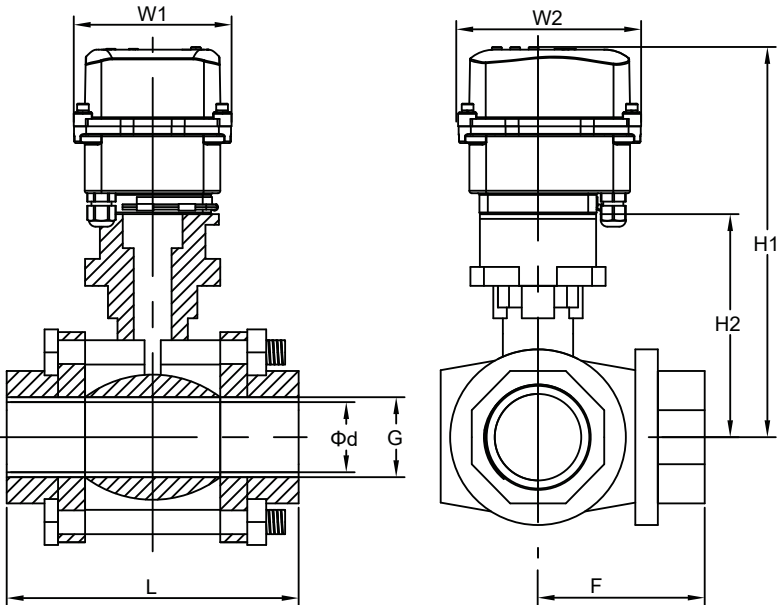
Female Thread IoT Electric 3-Way Ball Valve features easy installation, L/T flow passage for diversion, mixing and reversing, compact size suitable for narrow spaces, remote intelligent control and reliable sealing, widely used in HVAC, water treatment and other fluid automatic control systems.

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 Standard NPT BSP DIN 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

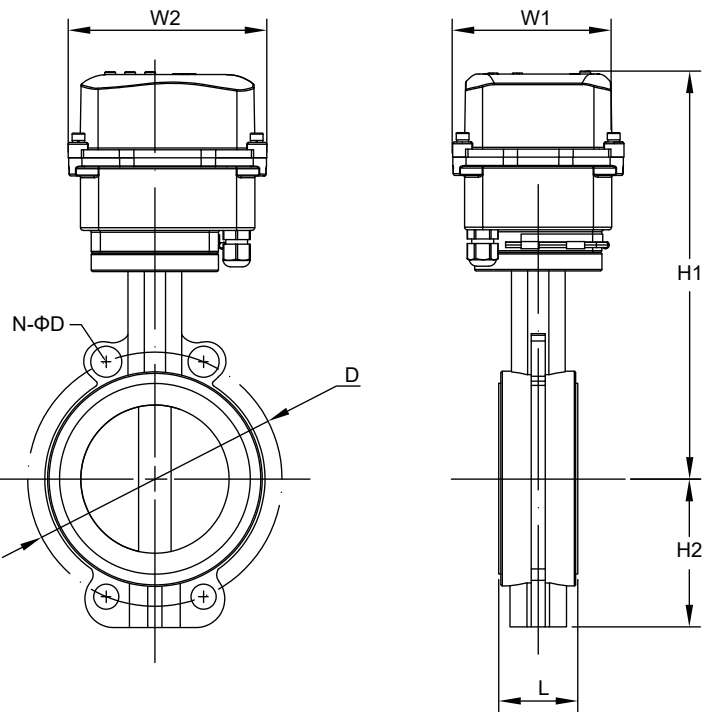
Wafer-type IoT soft-seal electric Butterfly Valve. Its disc adopts frame structure with high strength, large flow area and low flow resistance. The overall painted finish effectively prevents rust and provides bidirectional sealing function. Installation is not restricted by medium flow direction or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

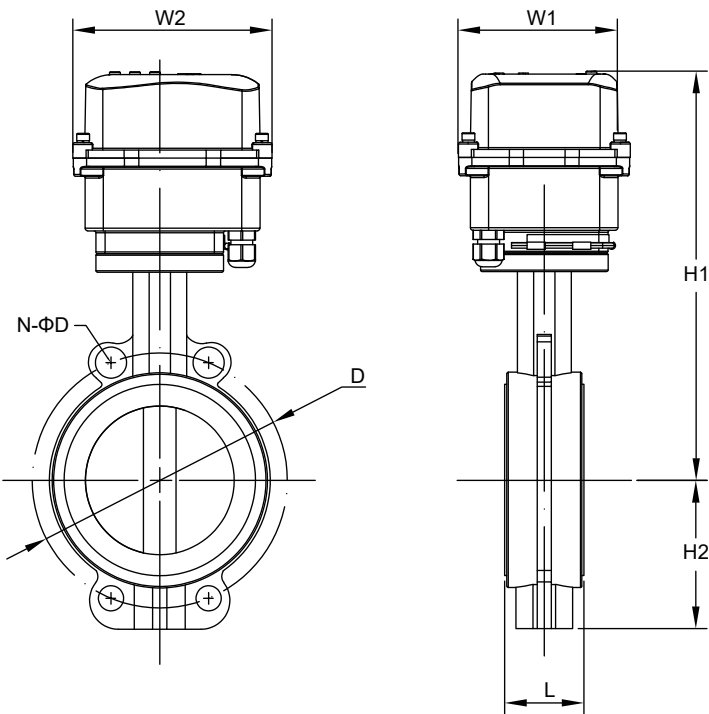
Wafer IoT electric fluorine-lined Butterfly Valve adopts spherically sealed fluorine-lined disc and silicone rubber seat gasket for excellent tightness. It is light to operate, enables quick shutoff and flow regulation, and suits applications requiring reliable sealing and precise regulation.

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

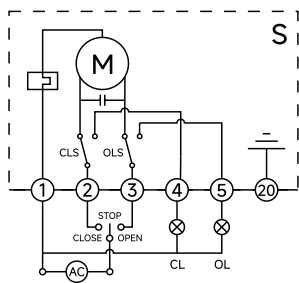


Product Features

- 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.

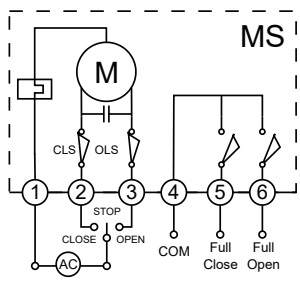
Size(mm)	L	D	N-ΦD	H1	H2	W1	W2
DN40	33	115	4-Φ16	202	60	94	109
DN50	43	125	4-Φ18	212	70	94	109
DN65	46	145	4-Φ18	225	80	94	109

Circuit Diagram



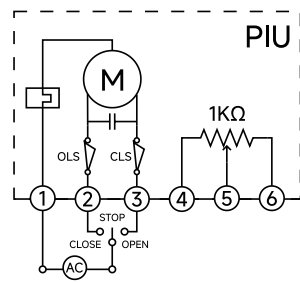
S

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.



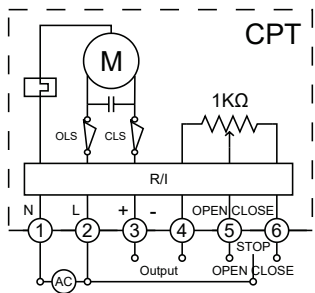
MS

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



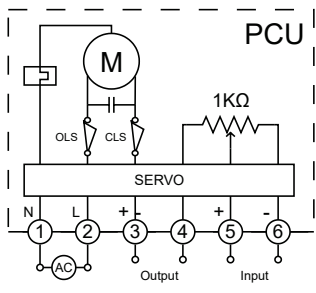
PIU

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



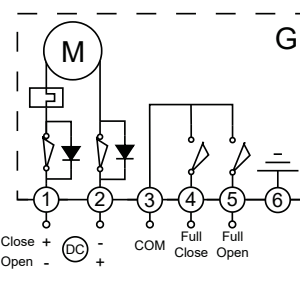
PCU

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.

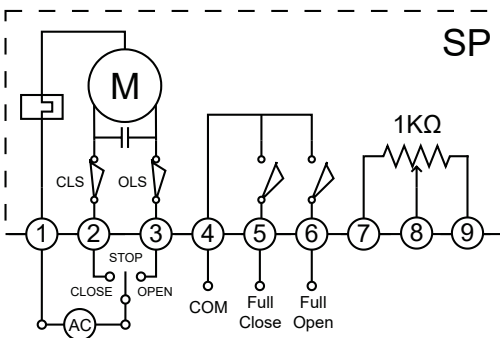


G

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.

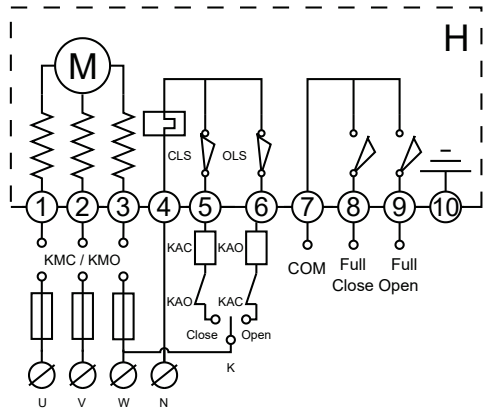
SP

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.



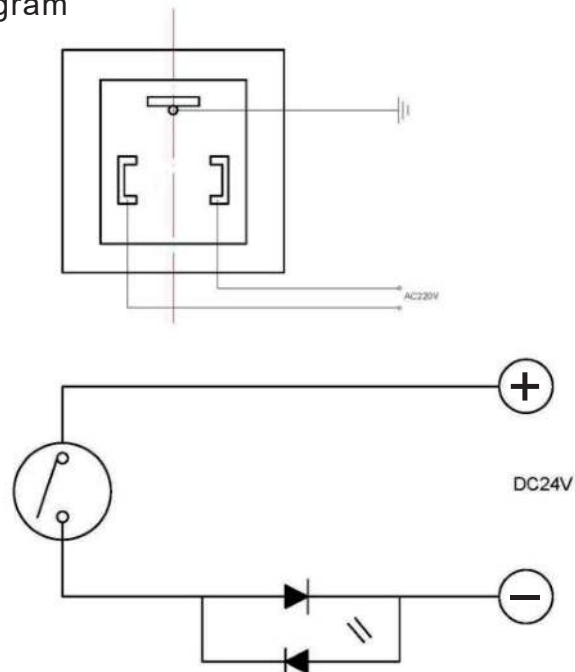
H

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.

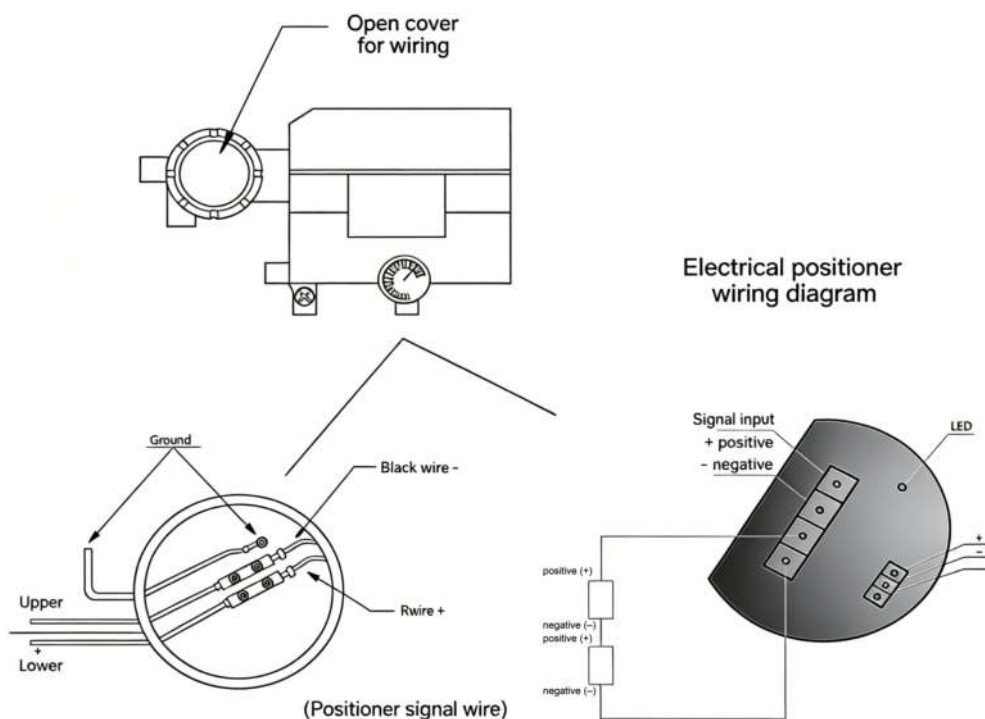


Pneumatic Valve Circuit Diagram

On-off Type Wiring Diagram



Regulating Type Wiring Diagram



Vision: Build more robust industrial automatic control systems

Mission: Make industrial automation technologies simpler and more reliable

Core Values: Simplify complexity, Continuous Innovation, Win-Win Collaboration



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