

Three-way Ball Valve



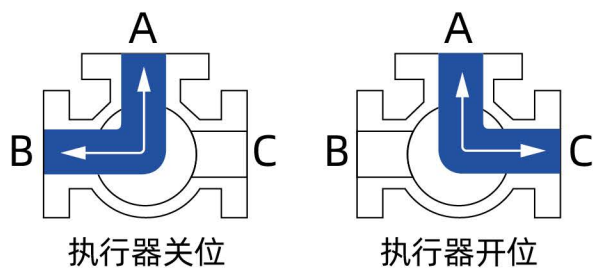
Product Introduction:

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.

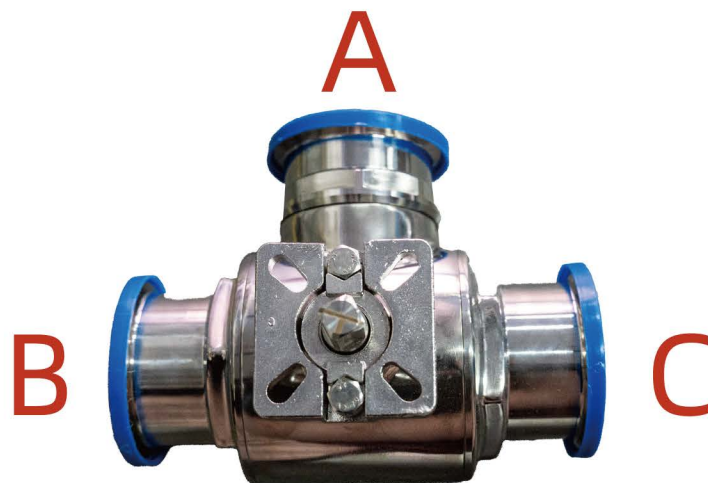
Product Features:

- 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.

L型通道

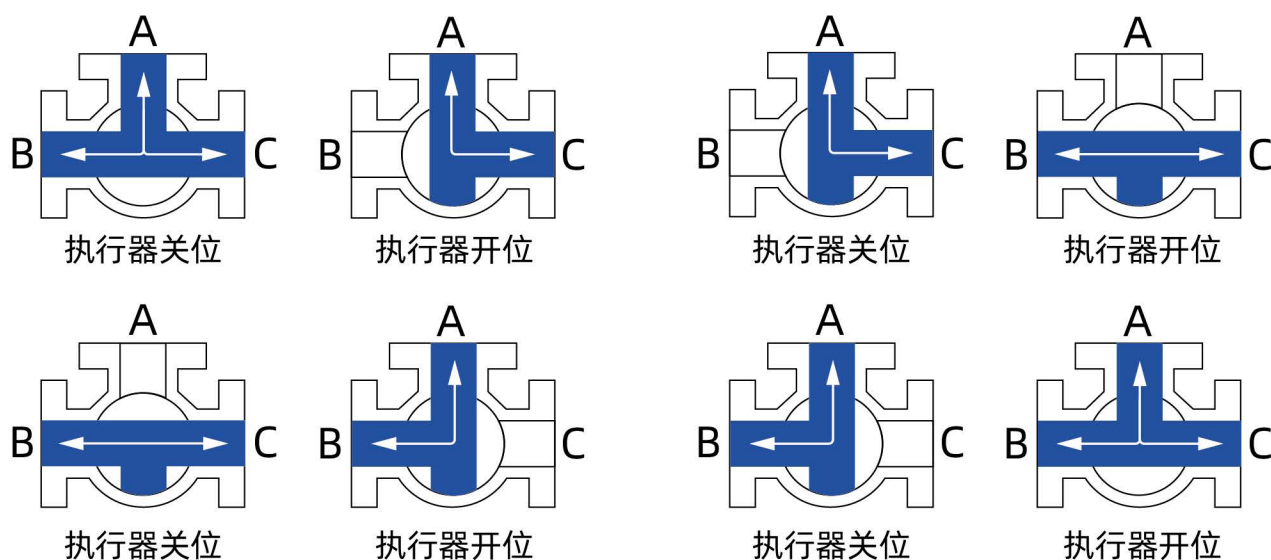


三通阀流向示意图

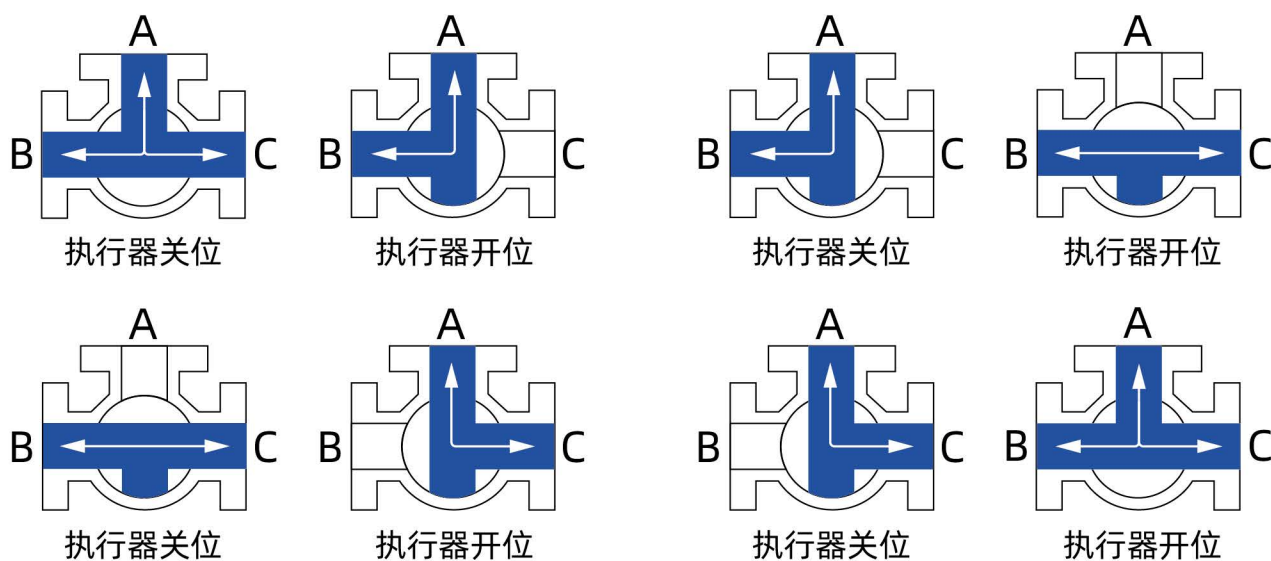


T型通道

顺时针90°旋转



逆时针90°旋转



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

Protection Class: Ip67

Applicable Media: Foodstuff, grease, fibrous fluid

Manufacturing Standard: GB12237-2021, API 6D

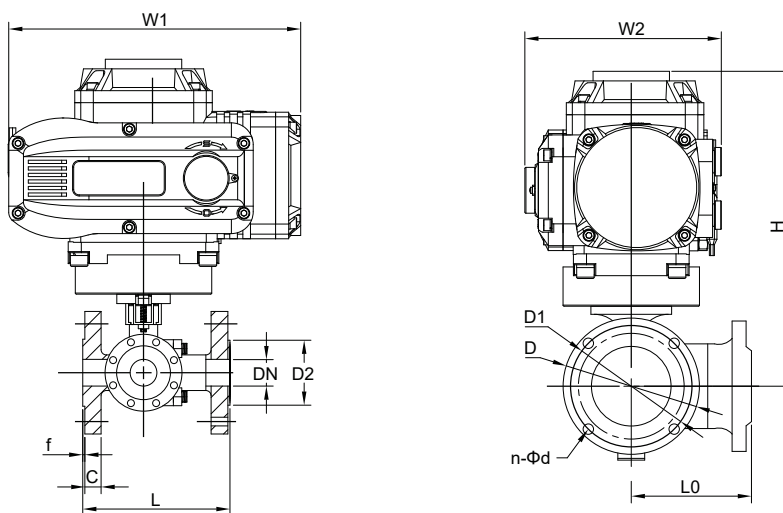
Face-to-Face Standard: GB/T 12221-2005

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 (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

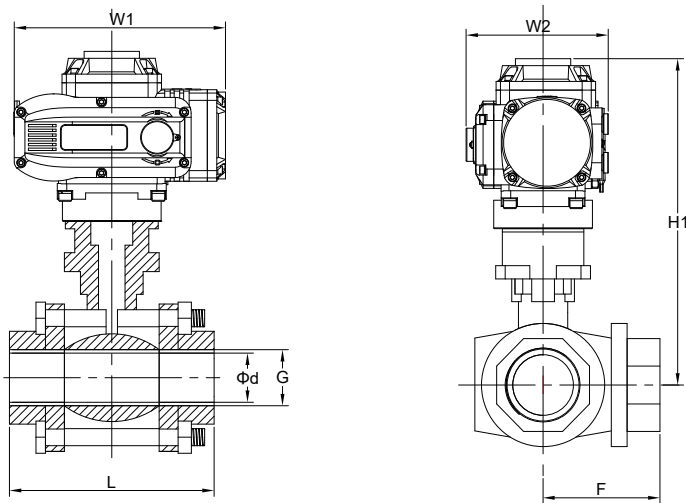
Internal thread electric three-way ball valve: easy thread connection for small/medium pipelines, precise electric control, medium shunting/confluence/reversing, tight sealing, suitable for HVAC, light industry and small chemical systems as a lightweight flow control part.

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 Standard NPT BSP DIN 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: $\leq 220^{\circ}\text{C}$

Protection Class: Ip66

Applicable Media: Foodstuff, grease, fibrous fluid

Manufacturing Standard: GB12237-2021, API 6D

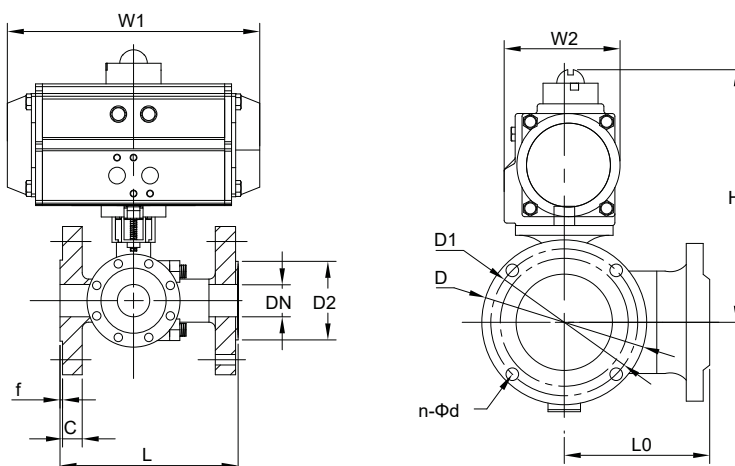
Face-to-Face Standard: GB/T 12221-2005

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 (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

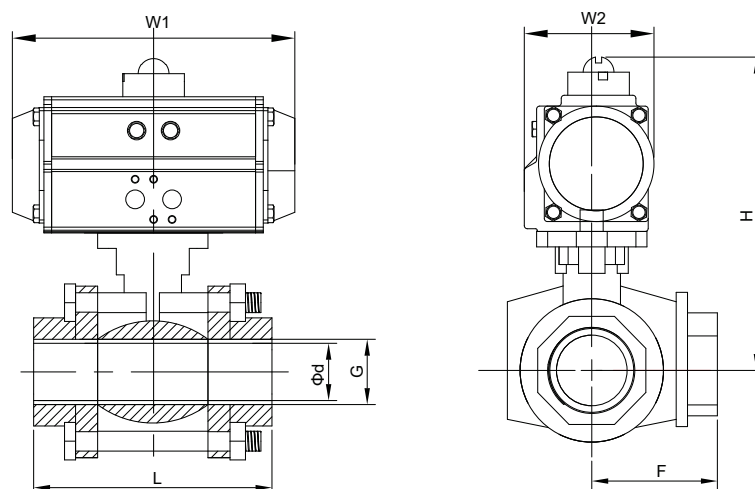
Internal thread pneumatic three-way ball valve enables quick easy installation without extra flanges, ideal for small and medium pipelines. Sensitive pneumatic drive ensures efficient switching for medium diversion, confluence and reversal with tight sealing. Lightweight flow control part for HVAC and 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 (mm)	L1	L2	L	D1	Double-acting			Single-acting		
					H1	W1	W2	H1	W1	W2
12	70	Thread 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 BSP DIN 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

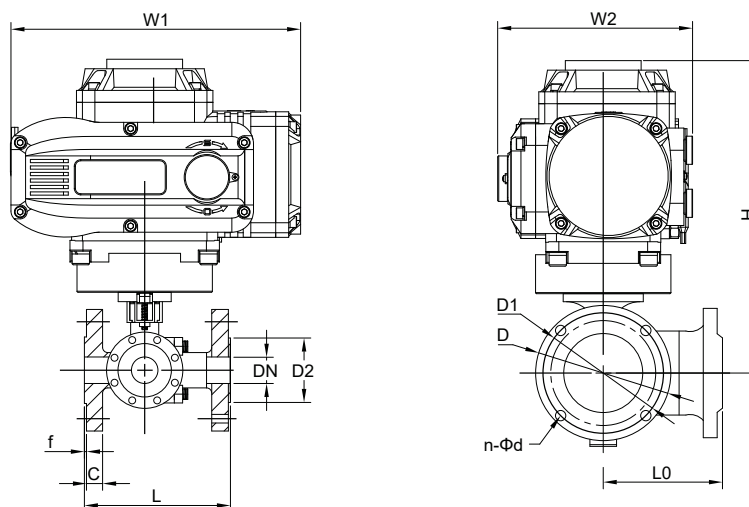
Face-to-Face Standard: GB/T 12221-2005

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 (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: $\leq 220^{\circ}\text{C}$

Protection Class: Ip67

Applicable Media: Foodstuff, grease, fibrous fluid

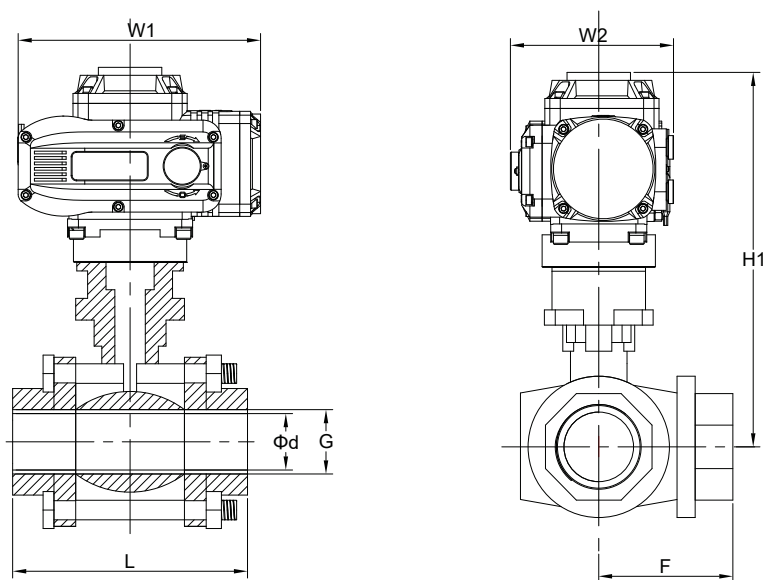
Manufacturing Standard: GB12237-2021, API 6D

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

Inspection Standard: API 598

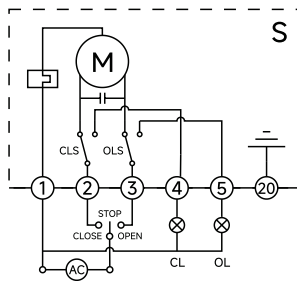


Installation Dimension Drawing



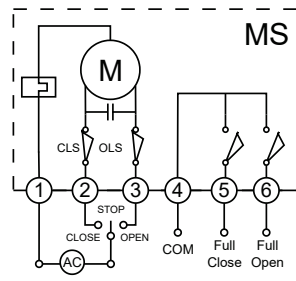
Size(mm)	L	G	Φd	F	H1	W1	W2
12	70	Thread Standard	12	40	226	217	150
15	83		15	42	228	217	150
18	89		18	54	238	217	150
25	116		25	60	247	217	150
32	134	NPT BSP DIN etc	32	68	258	217	150
38	152		38	84	262	217	150
50	200		50	98	280	217	150
65	240		65	106	325	268	180
80	278		80	114	349	268	180

Circuit Diagram



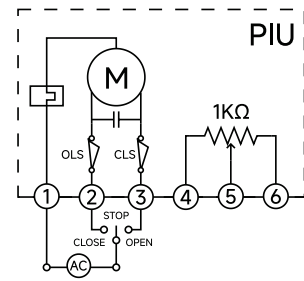
S

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.



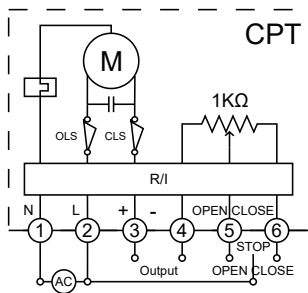
MS

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



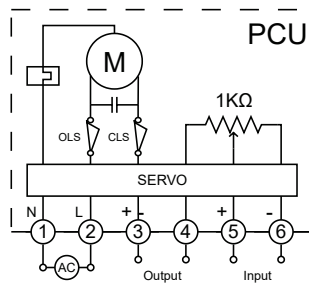
PIU

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



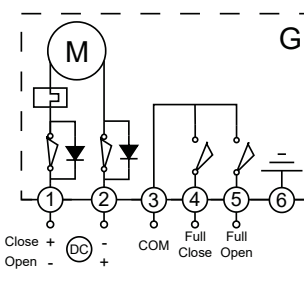
PCU

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.

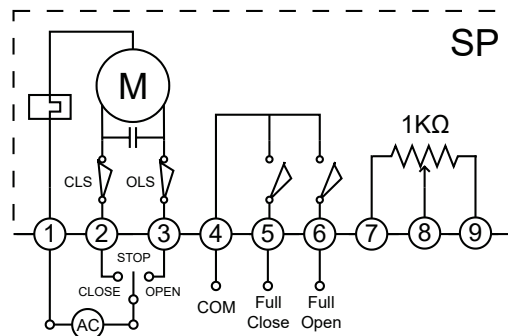


G

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.

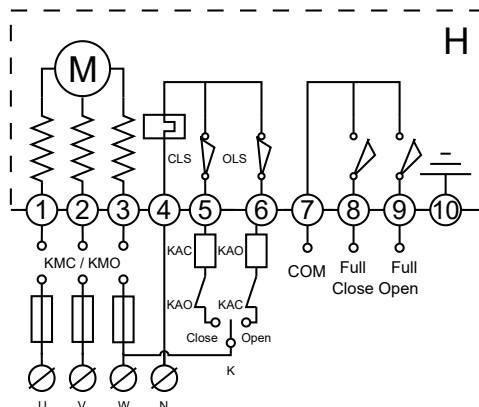
SP

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.



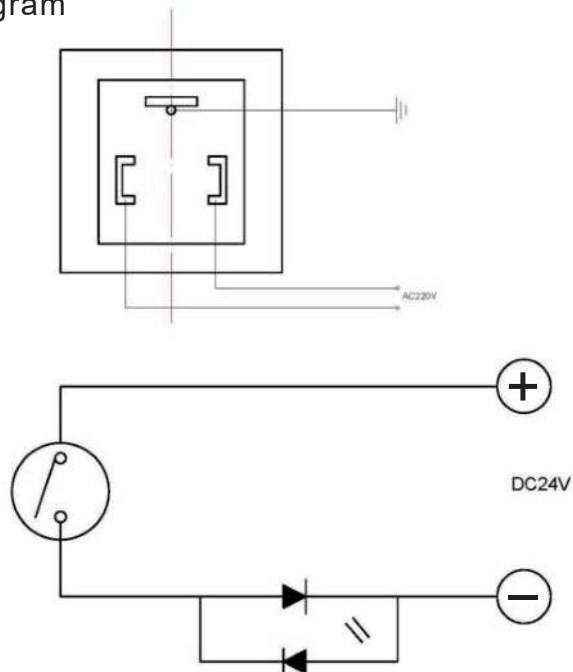
H

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.

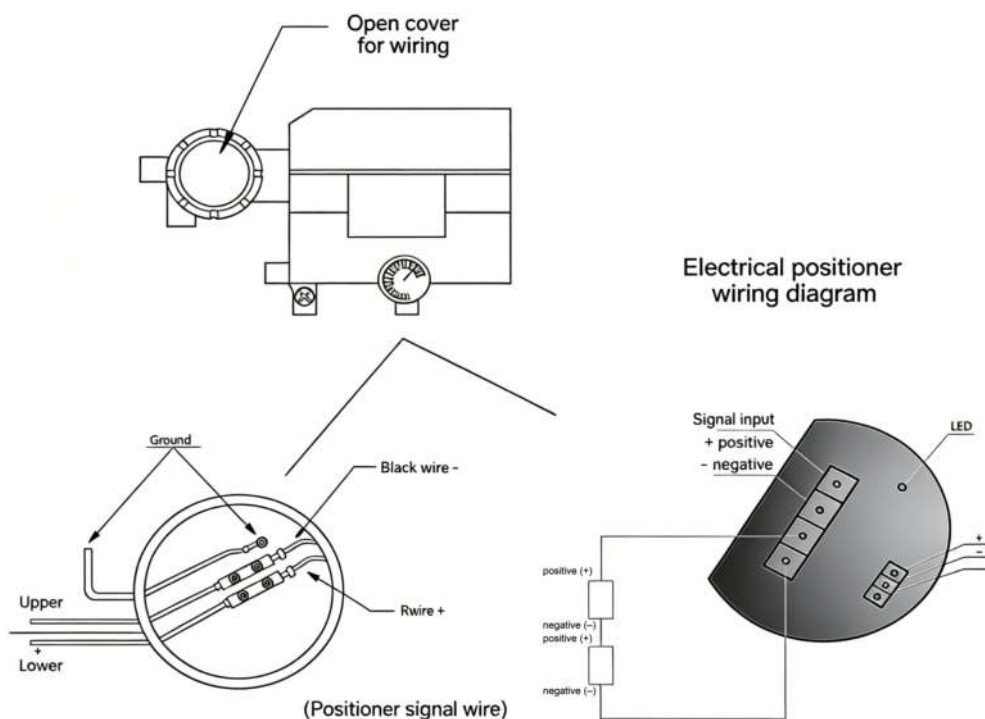


Pneumatic Valve Circuit Diagram

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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official website