GRAT®
Simple & Reliable

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

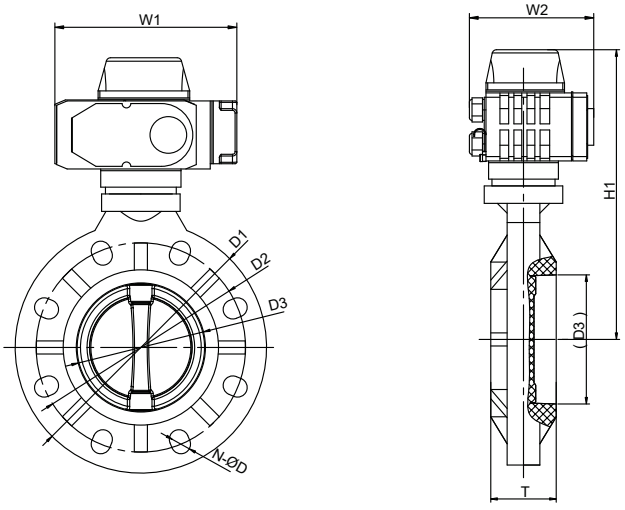
Product Description

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°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(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

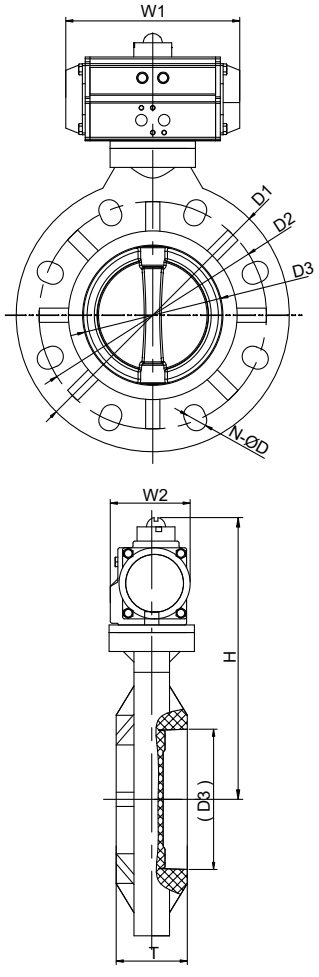
Product Description

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

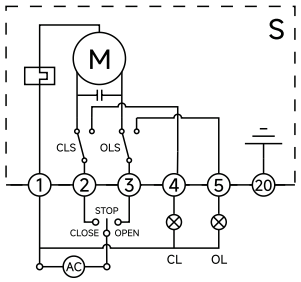
Installation Dimension Drawing



Size (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

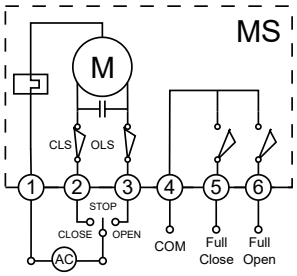
Note: For pneumatic valves, the matching actuator model and relevant dimensions may vary depending on service medium, valve torque and control method.

Circuit Diagram



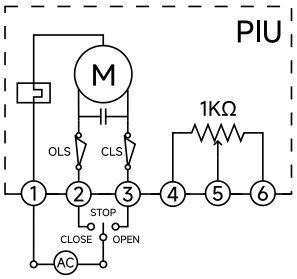
S

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.



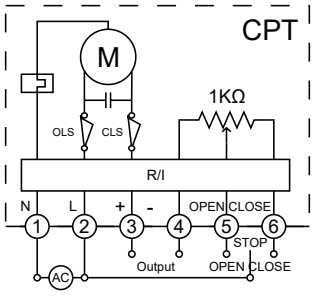
MS

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



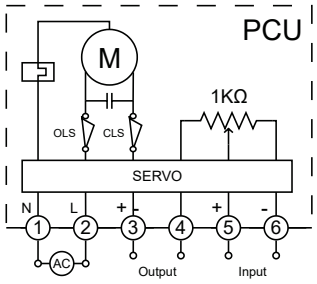
PIU

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



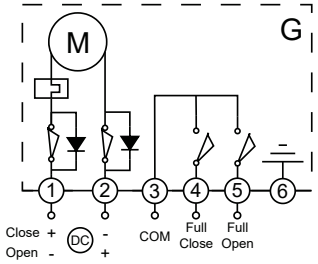
PCU

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.

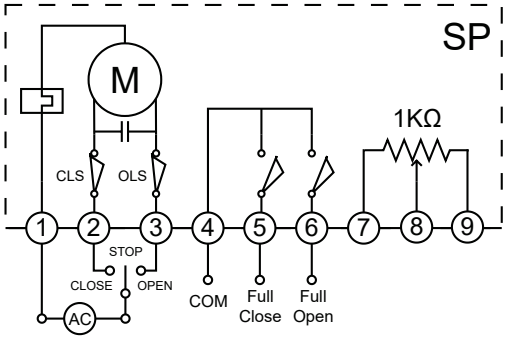


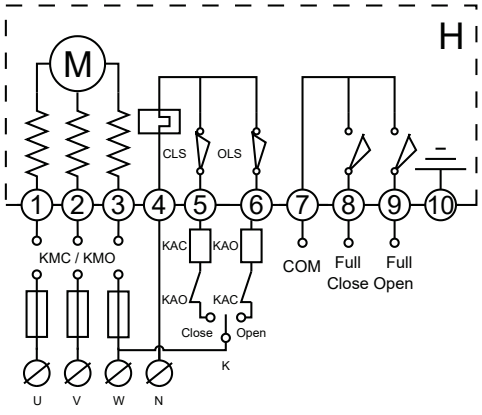
G

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.



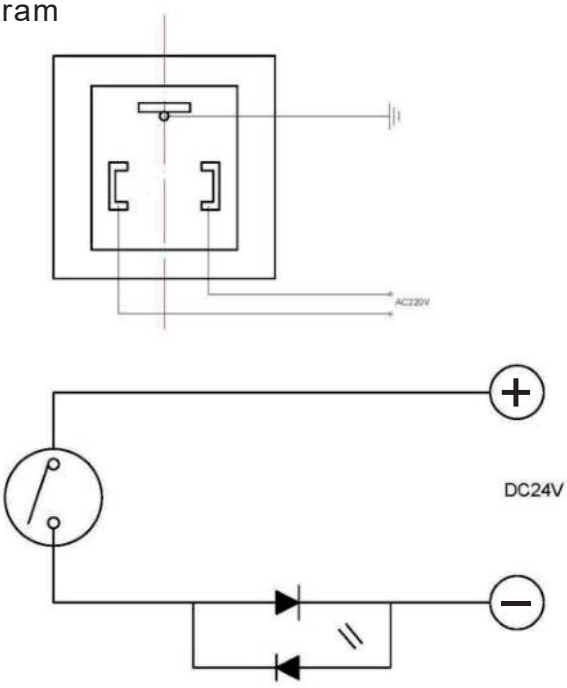


H

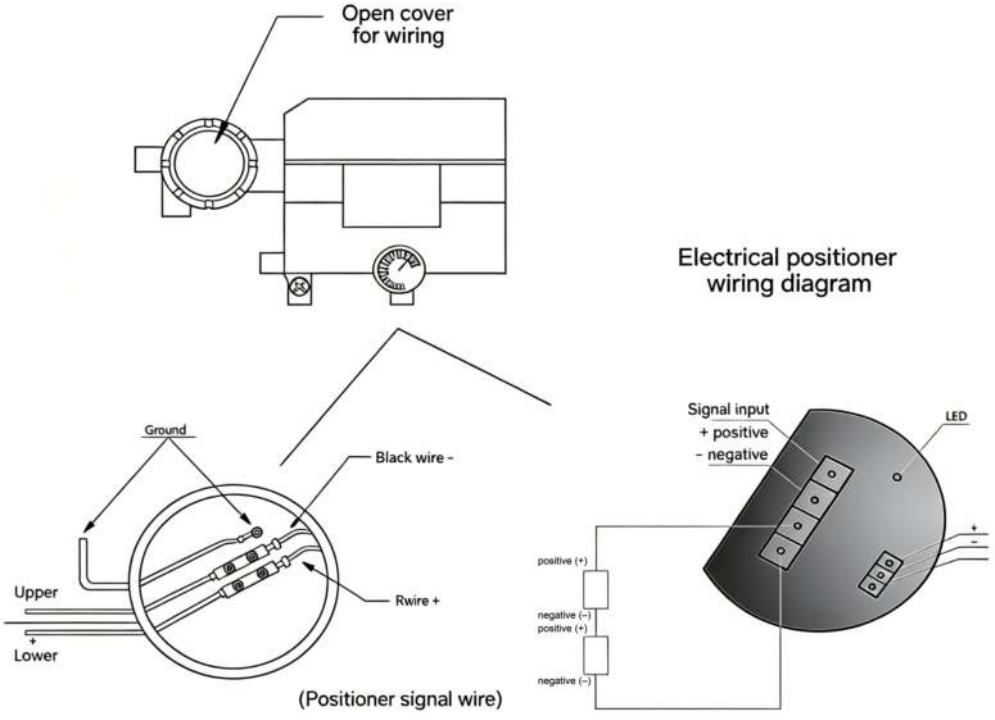
Three-phase AC switching signals are output through an external three-phase power phase-reversing circuit to control opening/closing operations, accompanied by a set of passive contact signals for fully open/fully closed position indication.

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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