

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

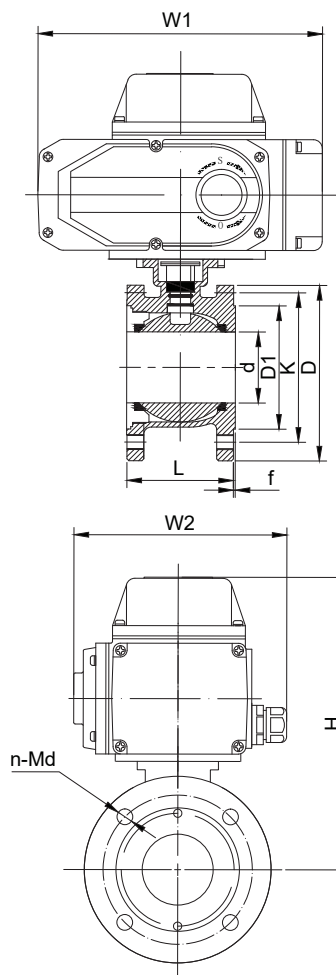
Ultra-short flanged electric soft-seal ball valve saves installation space, enables precise electric flow control and zero leakage. Stable flange connection fits various media, ideal for efficient industrial pipeline use.

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

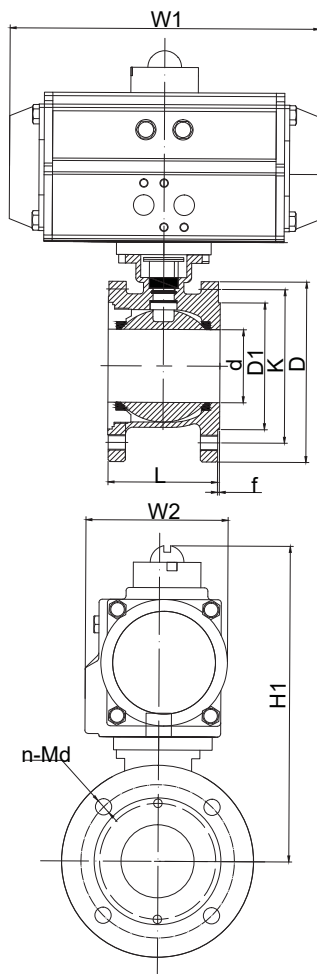
Face-to-Face Standard: GB/T 12221-2005

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

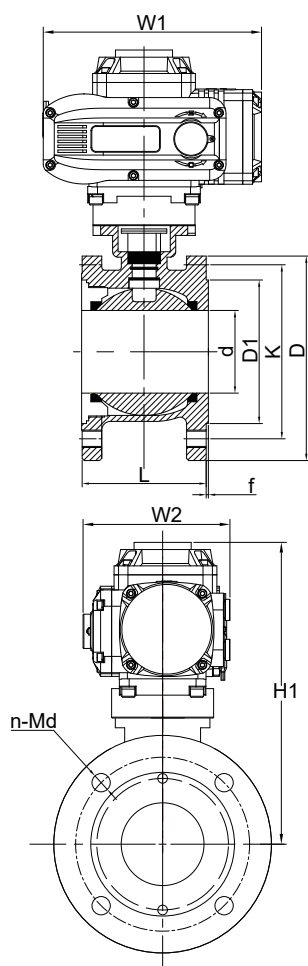
Face-to-Face Standard: GB/T 12221-2005

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

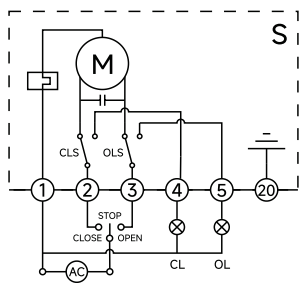


Installation Dimension Drawing



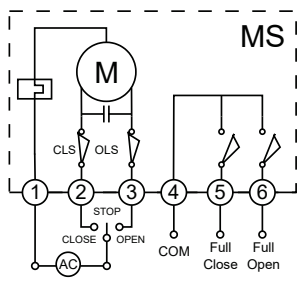
Size		d	D1	K	D	n-Md	f	L	H1	W1	W2
mm	in										
15	1/2"	15	45	65	95	4-M12	2	35	240	217	150
20	3/4"	19	55	75	105	4-M12	2	38	246	217	150
25	1"	25	65	85	115	4-M12	2	50	253	217	150
32	1-1/4"	28	76	100	140	4-M12	2	50	260	217	150
40	1-1/2"	38	83	110	148	4-M16	3	67	270	217	150
50	2"	49	102	125	156	4-M16	3	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

Circuit Diagram



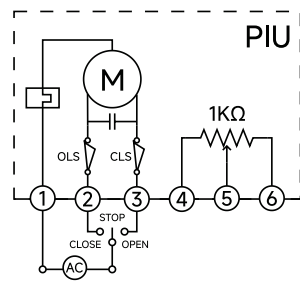
S

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.



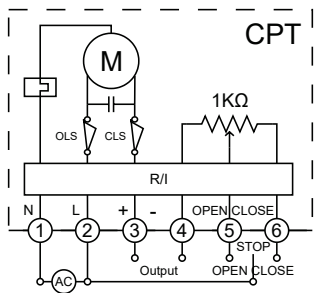
MS

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



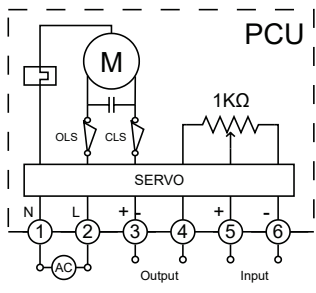
PIU

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



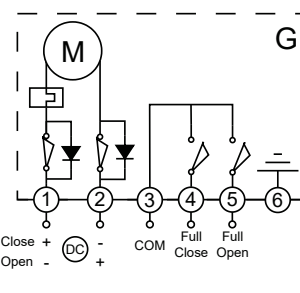
PCU

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.

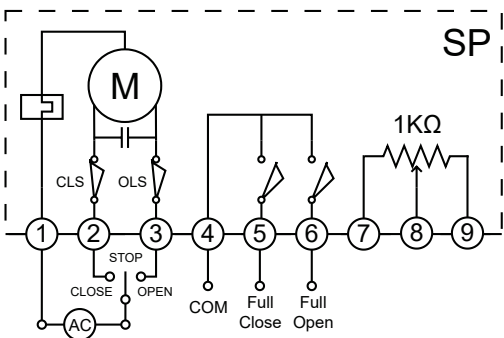


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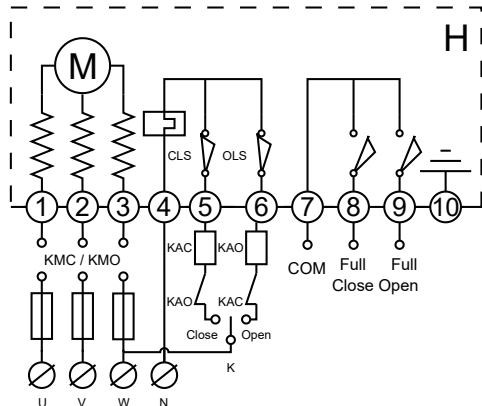
DC switching signals are output from the circuit via an external DC power supply to control the opening/closing program, and a set of passive contact signals corresponding to fully open/fully closed positions are provided.

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.



SP

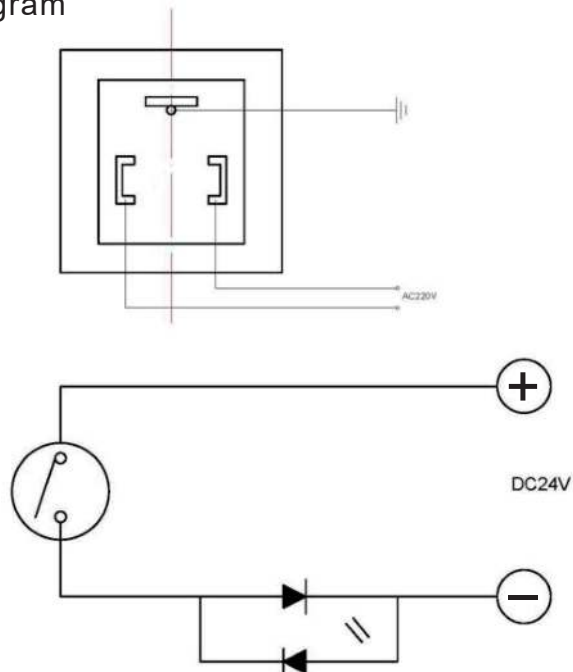


H

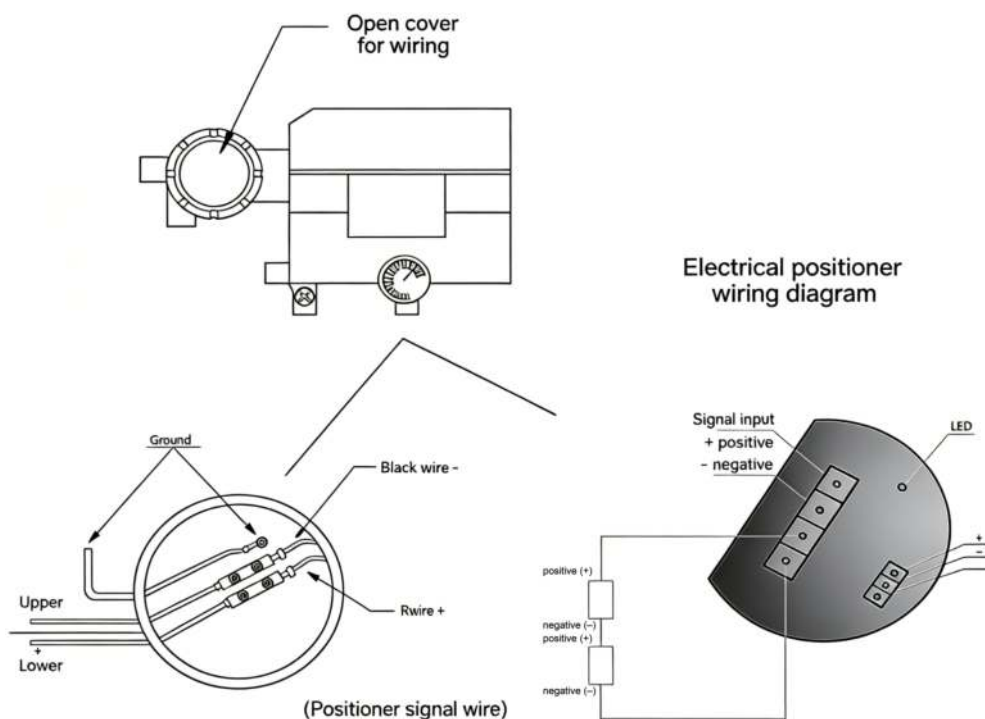
Three-phase AC switching signals are output through an external three-phase power phase-reversing circuit to control opening/closing operations, accompanied by a set of passive contact signals for fully open/fully closed position indication.

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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