



KV series ball valve is a type of valve with a spherical body that controls the flow of the medium by rotating a hole inside the sphere. It features a simple structure, convenient operation, and flexible switching. It can be quickly opened and closed, swiftly cutting off the flow of the medium, with low fluid resistance and good flow regulation performance. Additionally, it has good sealing performance, making it suitable for high pressure, high temperature, and corrosive medium applications.

KVE Electric Actuated True Union Ball Valve

Description

- **Material:** UPVC, CPVC, PPH, and PVDF
- **Size:** 1/2" – 4"; 20 mm – 110 mm; DN15 – DN100
- **Standard:** ANSI, DIN, JIS, and CNS
- **Joint:** Socket end, thread end (NPT, PT, and BSPF), socket fusion, and butt welding
- **Working pressure:** 150 psi
- **Operation temperature:**
 - UPVC (5 °C to 55 °C)
 - CPVC & PPH (5 °C to 90 °C)
 - PVDF (-20 °C to 120 °C)
- **Color:**
 - **Body color:** UPVC (dark gray), CPVC (light gray), PPH (beige), and PVDF (ivory white)

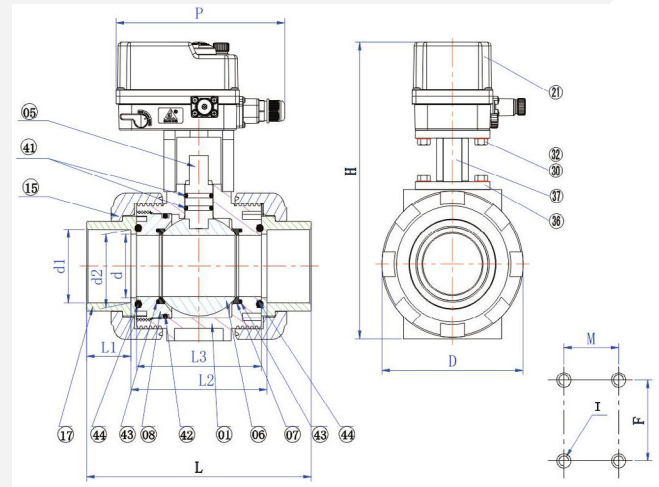


Feature

- Actuators pass impact test, acid, and alkali test, materials conform to SGS
- Adjustable valve opening from 15° to 90°
- Valve connection actuator according to EN ISO 5211
- Nano-modified raw material to improve pressure resistance and impact resistance
- Adding anti-UV absorbers and antioxidants to improve weathering and aging resistance
- 100% working pressure testing
- Mechanical gear protection function
- External wiring cover
- EA-A6 IP67; EA-A7 IP66
- Seven-stage deceleration, higher transmission ratio, lower power consumption, and higher torque.

Material List

S/N	Part	Specification	Qty.
44	O-ring	EPDM/VITON	2
43	O-ring	EPDM/VITON	2
42	O-ring	EPDM/VITON	1
41	O-ring	EPDM/VITON	2
37	Adaptor	PP+Fiber	1
36	Bracket	PP+Fiber	1
32	Flat washer	SUS304/SUS316	6-8
30	Bolt	SUS304/SUS316	6-8
21	Electric Actuator	PA6+ 30%GF	1
17	Union end	UPVC/CPVC/PPH/PVDF	2
15	Nut	UPVC/CPVC/PPH/PVDF	2
08	Liner	UPVC/CPVC/PPH/PVDF	1
07	Seat seal	TPV/PTFE	2
06	Ball	UPVC/CPVC/PPH/PVDF	1
05	Stem	UPVC/CPVC/PPH/PVDF	1
01	Body	UPVC/CPVC/PPH/PVDF	1



Unit: mm

Size	d	d1				d2				D	L		L1		L2	L3	P	H	F	M	I	Operating Torque (N · m)
		ANSI	DIN	JIS	CNS	ANSI	DIN	JIS	CNS		ANSI/JIS/CNS	DIN	ANSI/JIS/CNS	DIN								
1/2" (15)	15	21.54	20.30	22.40	22.40	21.23	20.10	21.73	21.90	54.00	104.80	92.00	22.30	16.00	60.00	52.00	180.00	174.00	31.00	-	M6	2
3/4" (20)	20	26.87	25.30	26.45	26.40	26.57	25.10	25.69	25.90	63.00	113.00	100.00	25.50	19.00	62.00	54.00	180.00	183.00	33.00	-	M6	2.5
1" (25)	25	33.65	32.30	32.55	34.50	33.27	32.10	31.70	33.90	73.50	127.20	114.00	28.60	22.00	70.00	62.00	180.00	193.50	40.00	-	M6	4
1-1/4" (32)	32	42.42	40.30	38.60	42.50	42.04	40.10	37.65	41.90	84.50	142.00	130.00	32.00	26.00	78.00	70.00	180.00	216.00	52.00	-	M8	5
1-1/2" (40)	40	48.56	50.30	48.70	48.60	48.11	50.10	47.74	47.90	98.00	157.00	151.00	35.00	32.00	87.50	79.50	180.00	230.60	52.00	-	M8	7.5
2" (50)	50	60.63	63.30	60.80	60.60	60.17	63.10	59.78	59.90	118.00	171.00	171.00	38.00	38.00	95.00	85.00	180.00	260.70	70.00	-	M8	10
2-1/2" (65)	63	73.38	75.30	76.60	76.70	72.85	75.10	75.68	75.90	150.00	238.50	238.50	47.00	47.00	144.50	132.50	180.00	294.30	84.00	45.00	M10	15
3" (80)	75	89.31	90.40	89.60	89.70	88.70	90.10	88.55	88.90	169.00	268.00	268.00	51.00	51.00	166.00	150.00	212.00	340.30	84.00	45.00	M10	20
4" (100)	97	114.76	110.40	114.70	115.00	114.10	110.10	113.60	113.80	211.00	318.00	318.00	61.00	61.00	196.00	172.00	212.00	401.00	121.00	49.00	M12	28

Electrical Actuator Specification

Type	Compatible Valve Size	Rated Wattage	Rated Current (A)			Running Time (S)		Output Torque (kgf.cm)		
			AC 110V	AC 220V	DC/AC 24V	AC	DC	AC 110V	AC 220V	DC/AC 24V
EA-A6	1/2" - 2-1/2"	8W	0.4	0.25	0.5	11	11	357.1	357.1	357.1
EA-A7	3" - 4"	15W	0.6	0.35	1.0	18	18	1,020.4	1,020.4	1,020.4

Remark: The output current of signal wire is 1.6 A, max. current is 3.2 A.