

Three-piece Electric Ball Valve

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Product Overview

Modern liquid cooling valves feature intelligence and easy maintenance. They are often equipped with electric actuators and sensors, support communication protocols such as Modbus, and can link with BMS/EMS systems to realize remote monitoring, automatic adjustment and predictive maintenance.

Welded or sanitary clamp connection options are available, suitable for liquid cooling, water supply and drainage and other applications.

- Low flow resistance
- Easy maintenance
- Reliable sealing performance
- Easy operation
- Long service life
- Space-saving

Basic Parameters

Nominal Pressure	0-1.6MPa
Temperature Range	-40°C~100°C
Design Standard	GB/T12224-2015
Connection Standard	ASME BPE/DIN 11850
Test Standard	GB/T 13927-2022
Working Media	Water, liquids with ethylene glycol or propylene glycol concentration ≤50%
Actuator Model	CTF-002
Operating Voltage	AC220V
Motor Power	14W
Rated Current	150mA
Output Torque	20NM
Switching Time	16S
Optional Valve Sizes	UPVC (DN15-40) Stainless Steel(DN15-40) Butterfly Valve(DN40-50)
Optional Valve Materials	UPVC, CPVC, Cast Steel, Cast Iron, Stainless Steel

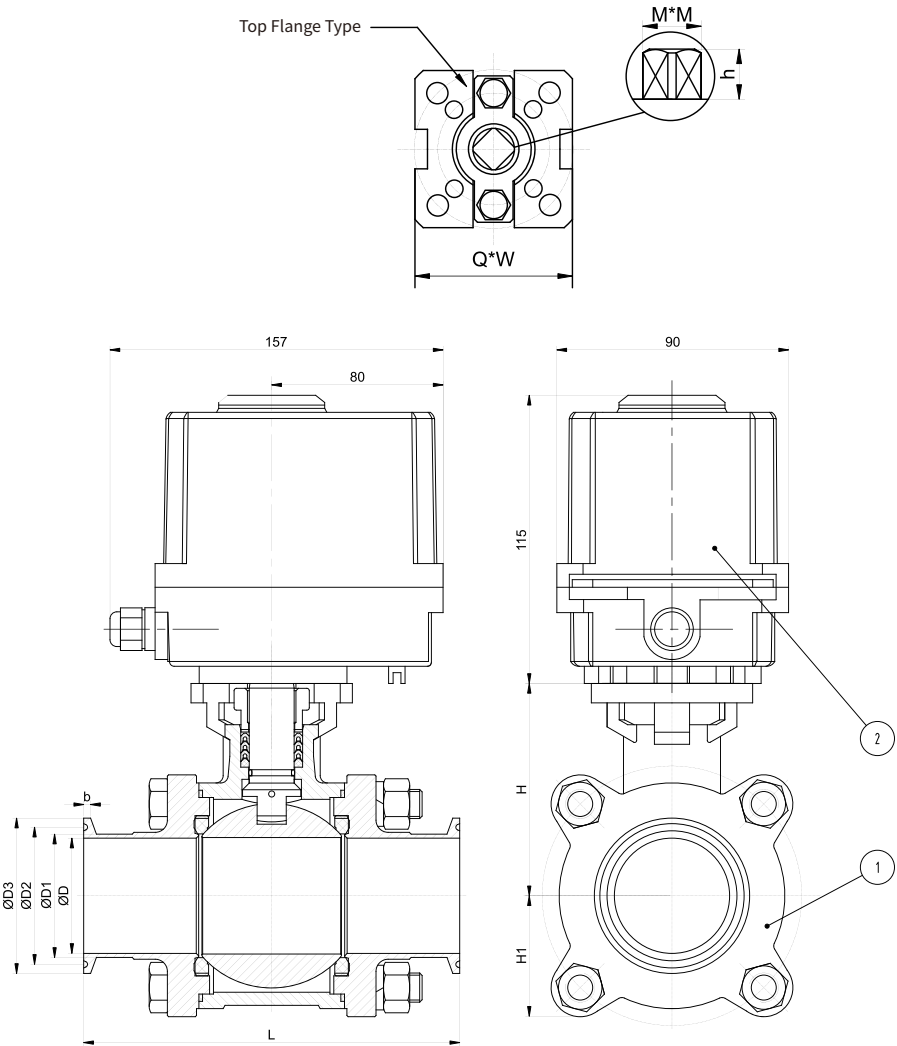
Main Component Materials

Part Name	Material
Valve Body	Stainless Steel
Bonnet	Stainless Steel
Valve Core	Stainless Steel
Seat	PTFE
Valve Stem	Stainless Steel
Gland	Stainless Steel
Packing	PTFE
O-ring	FKM
Bolt & Nut	Stainless Steel
Bonnet Seal Ring	PTFE
Electric Actuator	-



Actuator Overall Dimension Drawing

Three-piece Electric Ball Valve (Clamp) ●●●



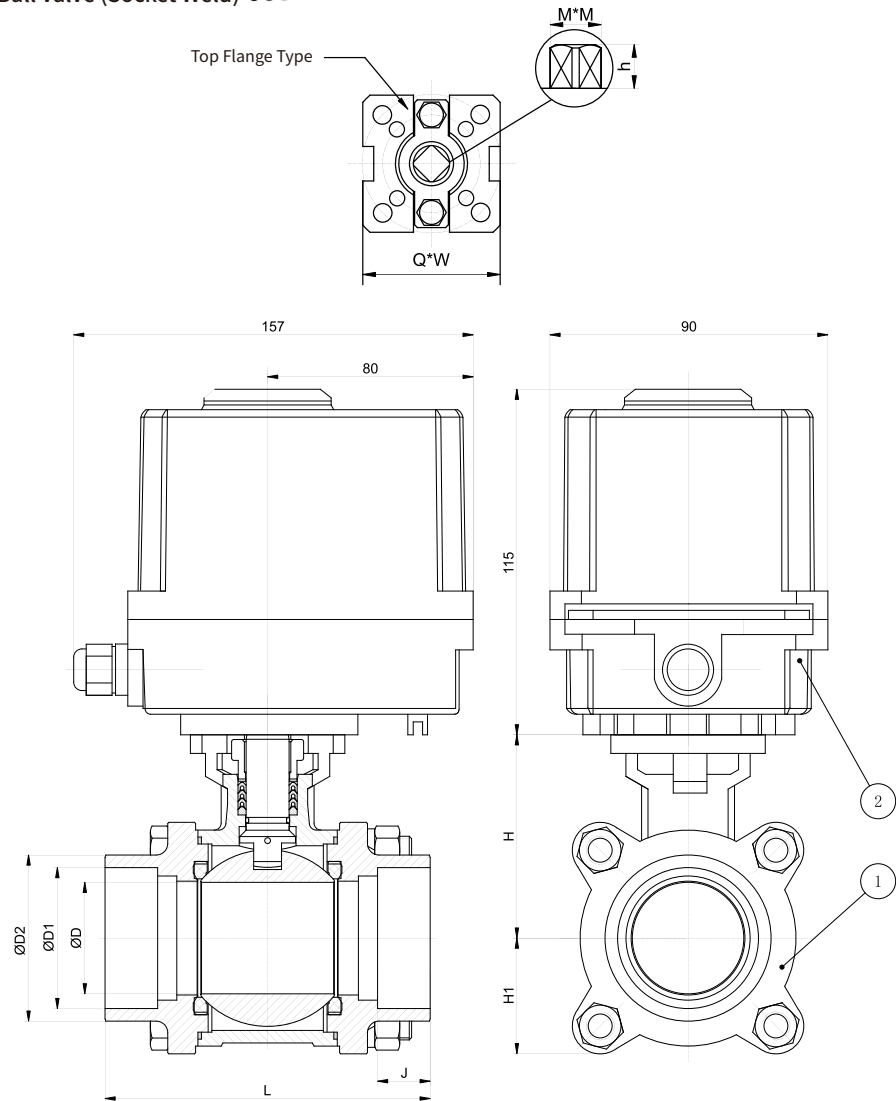
NPS	ΦD			L	b		ΦD1			ΦD2		ΦD3		H1	H	M*M*h	Q*W	Top Flange Type	Torque /Nm
	ISO	DIN	3A		ISO/DIN	3A	ISO	DIN	3A	ISO/DIN	3A	ISO/DIN	3A						
0.5	9.7	16	9.4	90	2.85	3.63	12.7	20	12.7	27.5	20.32	34	25	32	46	9*9*9	50*50	F03/F05	11
0.75	22.4	20	15.75	100	2.85	3.63	25.4	24	19.05	27.5	20.32	34	25	33	47.5	9*9*9	50*50	F03/F05	13
1	22.6	26	22.1	115	2.85	2.85	25.6	30	25.4	43.5	43.5	50.5	50.5	41.25	60	11*11*11	51*55	F04/F05	17
1.25	31.3	32	28.5	125	2.85	2.85	34.3	36	31.8	43.5	43.5	50.5	50.5	49.5	64	11*11*11	51*55	F04/F05	23
1.5	35.6	38	34.8	140	2.85	2.85	38.6	42	38.1	43.5	43.5	50.5	50.5	59.03	80	14*14*15	66.5*72	F05/F07	26

*Parameters not listed above can be customized.

Three-piece Electric Ball Valve

Actuator Overall Dimension Drawing

Three-piece Electric Ball Valve (Socket Weld) ●●●



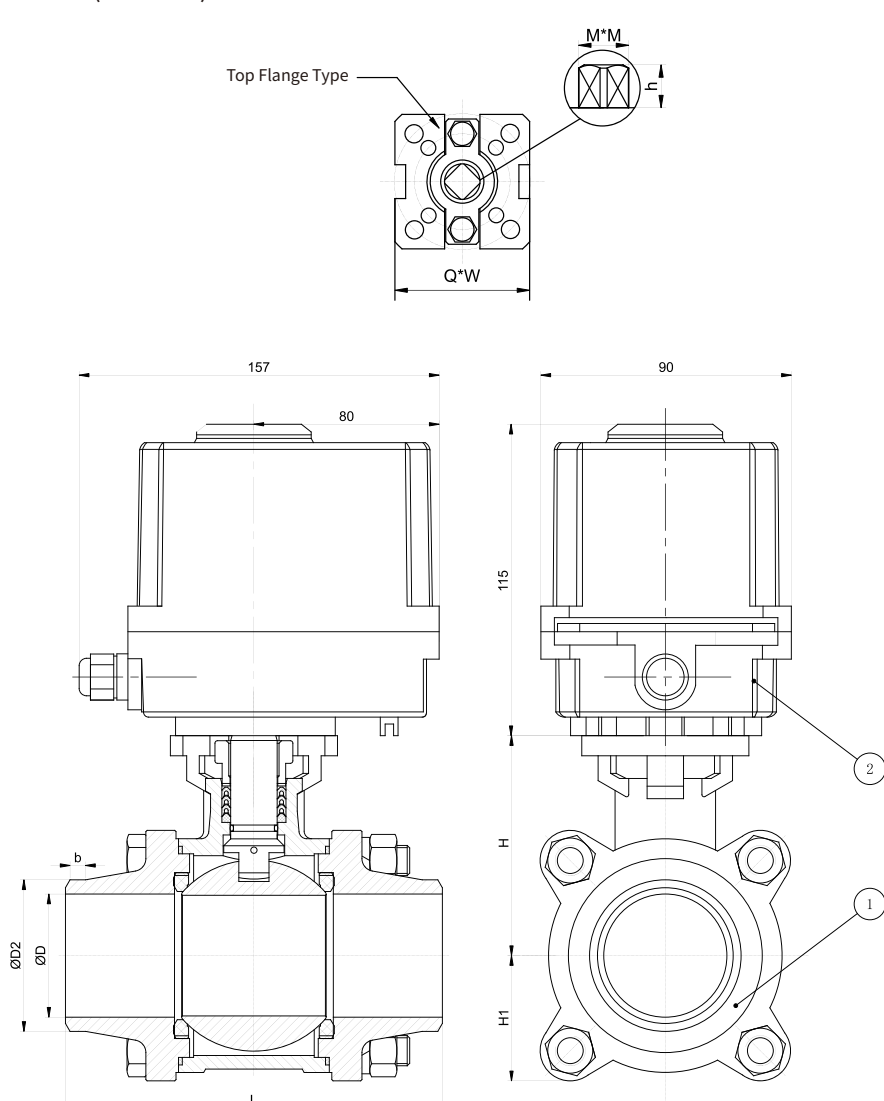
NPS	ΦD	L	J	ΦD1		ΦD2	H1	H	M*M*h	Q*W	Top Flange Type	Torque /Nm
				(Series A)	(Series B)							
0.5	15	75	10	22.5	19	28	32	46	9*9*9	50*50	F03/F05	11
0.75	20	90	11	27.5	26	34	33	47.5	9*9*9	50*50	F03/F05	13
1	25	100	13	34.5	33	41	41.25	60	11*11*11	51*55	F04/F05	17
1.25	32	110	14	43.5	39	52	49.5	64	11*11*11	51*55	F04/F05	23
1.5	38	125	16	49.5	46	58.5	59.03	80	14*14*15	66.5*72	F05/F07	26

*Parameters not listed above can be customized.

Three-piece Electric Ball Valve

Actuator Overall Dimension Drawing

Three-piece Electric Ball Valve (Butt Weld) ●●●



NPS	ΦD	L	b	ΦD2		H1	H	M*M*h	Q*W	Top Flange Type	Torque /Nm
				(Series A)	(Series B)						
0.5	15	75	6	21.3	18	32	46	9*9*9	50*50	F03/F05	11
0.75	20	90	6	26.9	25	33	47.5	9*9*9	50*50	F03/F05	13
1	25	100	6	33.7	32	41.25	60	11*11*11	51*55	F04/F05	17
1.25	32	110	6	42.4	38	49.5	64	11*11*11	51*55	F04/F05	23
1.5	38	125	7	48.3	45	59.03	80	14*14*15	66.5*72	F05/F07	26

*Parameters not listed above can be customized.