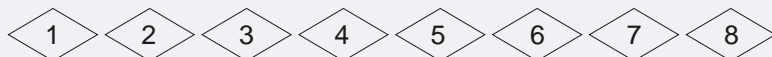


KOFLOW

BALL VALVES

Ball Valve Model Schedule Illustration



① Codes of Nominal Diameter

British series indicated by A××in value, and metric series indicated by G××mm value.

② Codes of Driving Modes (For handle or lever drive, this code can be omitted.)

3—Manual Operator; 6—Pneumatic; 6S—Pneumatic Spring Return; 6A—Pneumatic Control; 5—Gear Drive;
7—Hydraulic; 8—Airdraulic; 8H—Airdraulic with Emergency Cutoff; 9—Electric

③ Codes of Valve Types

FB—Float Ball Valve; TB—Fixed Ball Valve

④ Codes of Nominal Pressure Class

1—PN1.6 class150; 2—PN2.5; 3—class300; 4—PN4.0 class400; 6—PN6.4 class600
9—class900; 10—PN10.0; 15—class1500; 16—PN16.0; 20—PN20.0; 25—class2500;

⑤ Codes of Connecting Modes

RF—Raised Face Flange; FF—Fully Flat Face Flange; MFM—Male and Female Flange; TG—Tongued and Grooved Flange;
RJ—Ring Junction Flange; BW—Butt Welding; SW—Socket Welding; NPT—Threaded Connection

⑥ Codes of Structural Modes

1—Full Bore Straightway; 2—Reducing Straightway; 3T—T-shaped Three-Way; 3L—L-shaped Three-way; 4—Four-way;
5—Overall Top Installed (Full Bore); 5A—Overall Top Installed (Reducing); 6—Track Ball Valve (Full Bore); 6A—Track Ball Valve (Reducing);
7H—Eccentric Half Ball; 7F—Eccentric Full Ball; 8—All Welded (Full Bore); 8A—All Welded (Reducing)

⑦ Codes of Shell Materials

C—WCB; C5—C5; C6—WC6; C9—WC9; BL—LCB; CL—LCC
8—CF8; 8M—CF8M; 3—CF3; 3M—CF3M; ML—MONEL

⑧ Codes of Ball Materials

1—WCB; 2—CF8; 3—CF8M; 4—CF3; 5—CF3M
1F—A105or25 2F—304; 3F—316; 4F—304L; 5F—316L

⑨ Codes of Seat Materials

F—PTFE; N—Nylon; G—Carbon Fiber; P—PPL; E—PEEK; M—MOLON

Note:* The letters of “K”、“E”、“O” and “J” are placed in front of the codes of valve types, respectively representing hydrogen sulphide resistant, extension bar, oxygen, and jacketed ball valve.

Example: A8 " TB3RF1C2F means API 8 " worm gear drive, fixed ball valve, 300Lb, raised face flange, full bore, body material WCB, ball material CF8, and seat of F4.

* The figures mentioned hereunder don't have the codes of caliber and valve material, they are to be specified by users.

Technical Specifications of Ball Valve

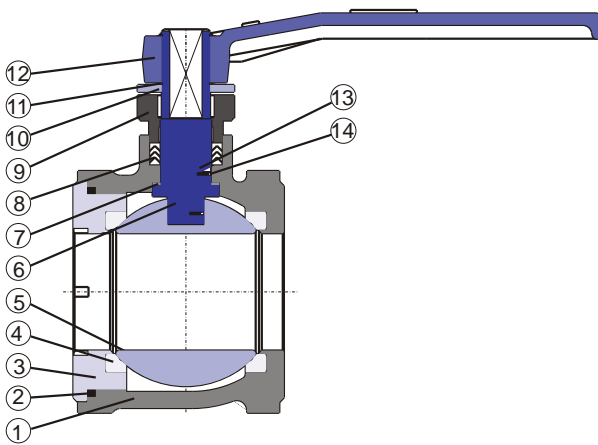
Technical Specifications	API Series	GB Series
Design Specifications	API6D、API608、BS5351	GB/T12237、JB/T7745
Pressure and Temperature Class	ASME B16.34	GB/T9124
Face-to-face	ASME B16.10	GB/T12221、GB/T15188.1
Flange Type and Dimensions	ASME B16.5、ASME B16.47	GB/T9113、JB/T79
Butt Welded	ASME B16.25	GB/T12224
Socket Welded	ASME B16.11	/
Threaded	ASME B16.1.20	/
Inspection and Test	API598、API6D	JB/T9092、GB/T13927
Fireproofing Test	API6FA、API607	JB/T6899-1993
Quality Inspection of Cast Steel Body	MSS -SP-55	JB/T9092-1999

WAFER TYPE BALL VALVE

Structural Properties:

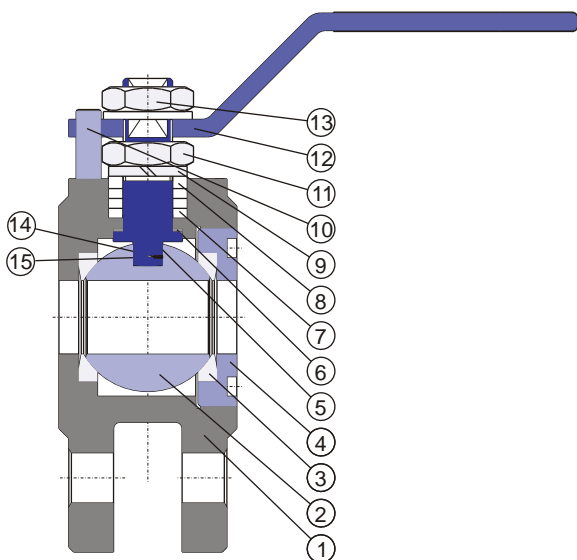
Wafer type ball valves are mainly used in the pipeline system in the industries of petroleum, chemicals, pharmaceuticals and foodstuff etc. to cut off or get through the medium in pipeline. According to their structural length, wafer type ball valves may be classified into ordinary type and thin type. Compared with ball valves of other types, they are mainly featured by one-piece compact structure, small volume, light weight, dependable seal, unrestricted flow direction of medium, low fluid resistance, quick open and close, and easy operation. To meet the requirements of users and system, wafer ball valves of ordinary type may be configured with electric or pneumatic autocontrol device to effect remote or automatic control.

Structure Type of Wafer Ball Valve



Materials of Main Parts

No.	Part Name	Materials	
		GB	ASTM
1	Valve Body	GB/T12230 CF8	A351 CF8
2	Gasket	Flexible Graphite +SS	
3	Locking cover	GB/T1220 1Cr18Ni9	A182 F304
4	Sealing Ring	PTFE/RPTFE/NYLON/PEEK	
5	Ball	GB/T1220 1Cr18Ni9+NiP	A182 F304+NiP
6	Valve Stem	GB/T1220 1Cr18Ni9	A182 F304
7	Gasket	PTFE+SS	
8	Packing	Flexible Graphite /PTFE	
9	Packing Gland	GB/T12230 CF8	A351 CF8
10	Spacer	GB/T700 Q235+Zn	
11	Ring	GB/T1222 65Mn	
12	Handle	GB/T700 Q235+Zn	
13	Spherule	A182 F304	
14	Spring	A276 304	

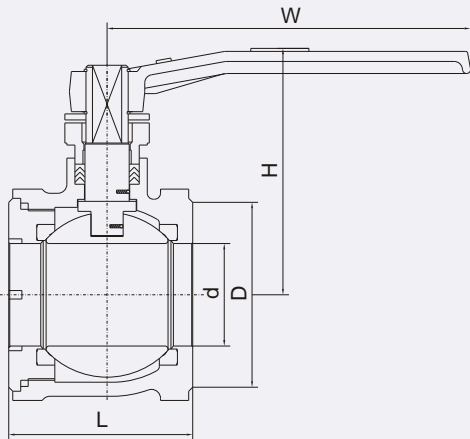


Materials of Main Parts

No.	Part Name	Materials
		GB
1	Valve Body	GB/T12230 CF8
2	Ball	GB/T1220 1Cr18Ni9+NiP
3	Sealing Ring	PTFE/RPTFE/NYLON/PEEK
4	Locking cover	GB/T1220 1Cr18Ni9
5	Valve Stem	GB/T1220 1Cr18Ni9
6	Gasket	PTFE+SS
7	Packing	Flexible Graphite /PTFE
8	Packing Gland	GB/T1220 1Cr18Ni9
9	Ring	GB/T1222 65Mn
10	Locating Pin	GB/T1220 2Cr13
11	Nut	GB/T1220 0Cr18Ni9
12	Handle	GB/T700 Q235+Zn
13	Nut	GB/T1220 0Cr18Ni9
14	Spherule	A182 F304
15	Spring	A276 304

WAFER TYPE BALL VALVE

Wafer Type Ball Valve:

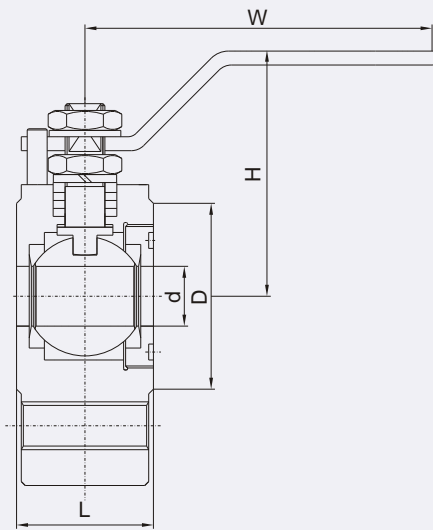


Main Dimensions

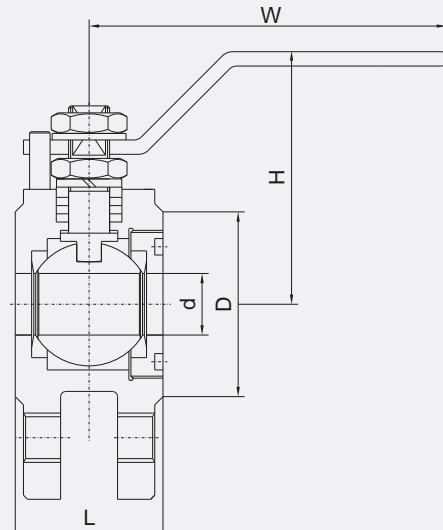
mm

Size		Dimensions							Weight
DN	NPS	L	d	D			H	W	
				PN1.0、1.6	PN2.5	CLASS150			
15	1/2	40	13	53	53	47	82	140	0.9
20	3/4	45	19	63	63	57	82	180	1.3
25	1	50	25	73	73	66	104	180	1.6
32	1 1/4	60	32	84	84	75	113	200	2.6
40	1 1/2	70	39	94	94	85	122	200	3.8
50	2	80	49	109	109	103	132	250	5
65	2 1/2	110	64	129	129	122	144	300	7.5
80	3	120	80	144	144	135	155	350	11
100	4	140	100	164	170	173	183	450	18.4

Wafer Thin Ball Valve:



DN ≤ 25



DN ≥ 32

Main Dimensions of Wafer Thin Ball Valve

mm

DN	10	15	20	25	32	40	50	65	80	100	125	150	200	
L	32	32	38	42	50	60	70	94	118	140	195	225	275	
d	10	13	19	25	32	40	50	65	79	100	125	150	200	
D	PN1.6	42	47	58	68	78	88	102	125	138	160	188	212	266
	PN2.5	42	47	58	68	78	88	102	125	138	160	188	212	274
	PN4.0	42	47	58	68	78	88	102	125	138	160	188	212	285
H	79	80	85	95	100	105	115	130	145	175	190	220	260	
W	150	150	150	170	180	210	230	280	300	400	500	600	700	
Weight	PN1.6	1.5	1.8	2.3	2.9	4	6	8	12	14	20	36	47	78