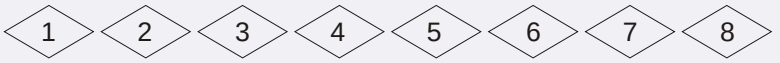
KOFLOW

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

⑥Codes 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

FEMALE THREADED BALL VALVE

APPLICABILITY:

Female connection ball valves are applicable for pipes of PN1.0~4.0MPa, working temperature -29℃~180℃ (PTFE seal ring) or -29℃ ~300℃ (PPL seal ring), used to cut off or get through the medium in pipeline. Besides, we design and manufacture valves responding to users' actual working conditions and special requests. By using different materials, they may be applicable for water, steam, oil, nitric acid, acetic acid and etc.

Structural Features:

1、According to the structure of valve body, female connection ball valves are classified into one-piece type, two-piece type and threepiece type.

2、Body and bonnet are processed with the advanced silicon casting technology for reasonable structure and elegant outline.

3、Resilient seal structure of valve seat for dependable seal and light open-close torque.

4、Bottom-mounted structure of valve stem for anti-blowout.

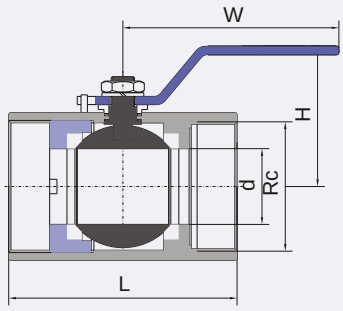
5、90° on-off limit mechanism and locking device may be configured to avoid misoperation if requested by users.

6、ISO5211 connection dimensions provided at the top of valve to be connected to pneumatic or electric device by removing the handle.

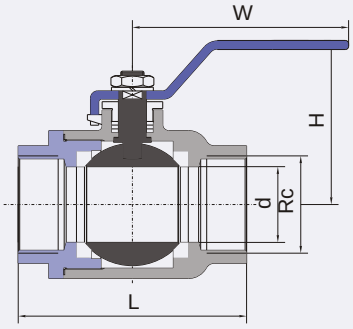
Manufacturing Specifications of Female Threaded Ball Valve

Standard	API Series
Basic Design Specifications	GB/T12224
Pressure-Temperature Rating	GB/T12224
Structural Length	As per provisions ofour company
Reference for socketwelding end	ANSI B16.11
Reference for thread end	GB/T7073
Inspection & Test	JB/T9092

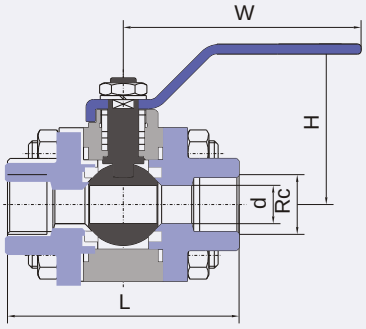
Main Dimensions:



One-piece Ball Valves



Two-piece Ball Valves



Three-piece Ball Valves

Structure	SIZE		SIZE					Weight
	DN	NPS	L	d	Rc	H	W	
One-piece PN1.0~4.0MPa	10	3/8	48	6	3/8	51	100	0.27
	15	1/2	56	9	1/2	58	100	0.36
	20	3/4	67	12.5	3/4	62	100	0.45
	25	1	78	17	1	68	110	0.65
	32	1 1/4	88	23	1 1/4	75	150	0.95
	40	1 1/2	98	28	1 1/2	83	150	1.47
	50	2	112	36	2	90	180	1.94
Two -piece PN1.0~4.0MPa	10	3/8	55	10	3/8	57	100	0.31
	15	1/2	65	14	1/2	66	100	0.41
	20	3/4	78	19	3/4	72	110	0.6
	25	1	88	25	1	82	140	1.1
	32	1 1/4	105	32	1 1/4	87	140	1.6
	40	1 1/2	112	39	1 1/2	98	180	2.3
	50	2	125	49	2	112	180	3.3
	65	2 1/2	165	64	2 1/2	132	200	5.8
	80	3	184	76	3	152	250	9.7
Three-piece PN1.0~4.0MPa	10	3/8	65	10	3/8	57	100	0.7
	15	1/2	75	14	1/2	66	100	0.72
	20	3/4	80	19	3/4	72	110	0.9
	25	1	90	25	1	82	140	1.7
	32	1 1/4	110	32	1 1/4	87	140	1.9
	40	1 1/2	120	39	1 1/2	98	180	3.1
	50	2	140	49	2	112	180	4.3
	65	2 1/2	185	64	2 1/2	132	200	7.2
	80	3	205	76	3	152	250	11.6
	100	4	240	100	4	169	250	20.2