

Ball Valve , Cast Steel , Floating



Design

SS VALVE steel ball valves are designed manufactured to provide maximum service life and dependability. All ball valves are full ported and meet the design requirements of American Petroleum Institute Standard API 608 & API 6D British Standard BS 5351 and generally conform to American Society of Mechanical Engineers standard ASME B 16.34 valves are available in a complete range of body/bonnet materials and trims.

Ranges of Materials

Standard body/bonnet materials include nine grades of carbon, low alloy and stainless steel, for special applications they can be supplied in other grades of alloy and stainless steel. There's a full range of trim materials to match any service optional packing and gasket materials are available for a full range of service conditions.

Available Modifications for SS VALVE Steel Valves

Trim changes

End connection modifications

Packing and gasket change

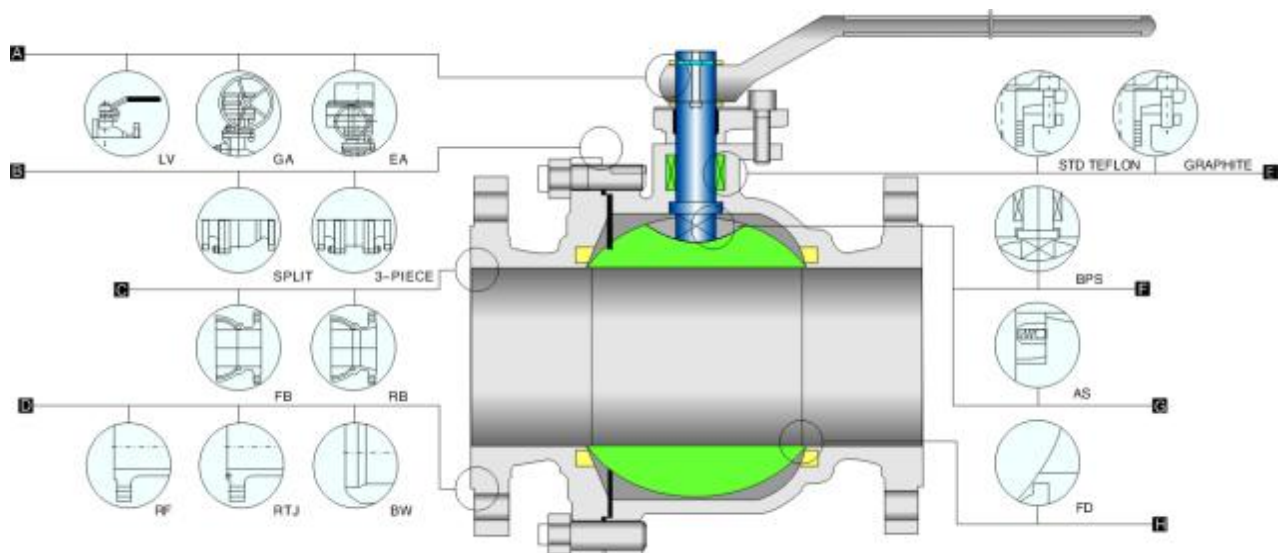
Handwheel extensions

Pressure equalizing

Customer specified coatings

Weld end bore changes

Oxygen&chlorine cleaning&packaging



A Operation

Extended lever for easy operation. also available with gearing, motor Actuators, Pneumatic or hydraulic Actuators for more difficult services

B Body&Bonnet

Split or 3-piece, split body & bonnet for 12" & small. disassembles easily for repair components.

C BORE

Full bore or reduced bore. full-bore design provides exceptional flow control.

D End Connections

A choice of flanged RTJ flanged or butt welding end for piping flexibility.

E Packing

Std packing multiple v-teflon packing, combined with live loading, maintains packing compression under high-cycle and severe service applications. Graphite packing is used for high temperature situation.

F BPS

Blow-out proof stem A pressure-safe stem shoulder design that protects against failure under excess pressure.

G AS

Anti statics. A metallic contact is always granted between ball and stem /body to discharge eventual statics build-up during service.

H FS

Fire safe designed to API 607 or BS 6755 to grant their operation suitability in case of fire. Secondary metal-to metal seal acts as backup if primary seal is destroyed by fire. Valves ordered for compliance with API 607 will be provided with graphite packing and gaskets.

Ball Valve , Cast Steel , Floating 150Lb

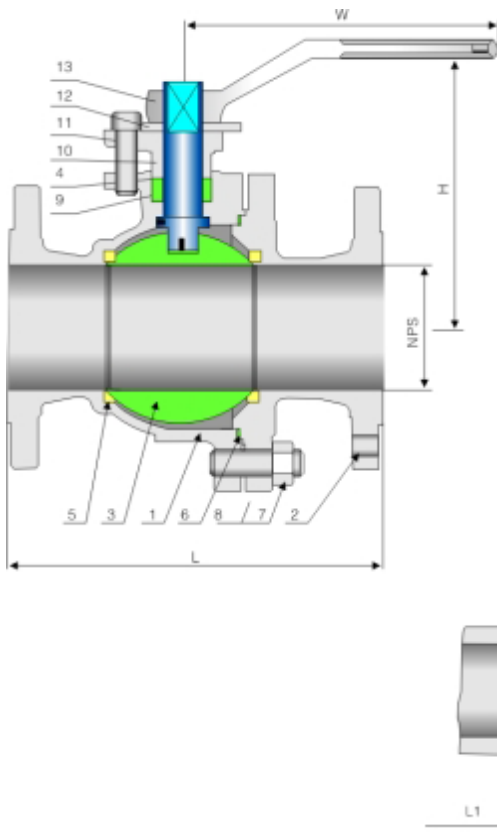


Applicable Standards:

- STEEL BALL VALVES API 608/API 6D
- STEEL BALL VALVES ISO 14313
- FIRE SAFE, API 607
- ANTI STATIC, API 608
- STEEL VALVES, ASME B16.34
- FACE TO FACE ASME B16.10
- END FLANGES, ASME B16.5
- BUTTWELDING ENDS ASME B16.25
- INSPECTION AND TEST, API 598/ API 6D

Design descriptions:

- FULL PORT DESIGN
- BG.BOLTED BONNET.SPLIT BODY
- FLOATING BALL TYPE
- BLOW-OUT PROOF STEM
- FIRE DURABLE CONSTRUCTION
- ANTI STATIC DEVICE
- STOPPER DEVICE
- ISO 5211 MOUNTING PAD
- FLANGED OR BUTTWELDING ENDS
- AVAILABLE WITH WG OPERATOR



Materials of parts

NO	Part Name	Carbon Steel		ASTM Materials 18Cr-9Ni-2Mo
1	Body	A216-WCB	A352-LCB	A351-CF8M
2	Bonnet	A216-WCB	A352-LCB	A351-CF8M
3	Ball	A182-F304 ¹⁾	A182-F304 ¹⁾	A182-F316
4	Stem	A276-304	A276-304	A276-304
5	Seat Ring	R.PTFE		
6	Gasket	Graphite+304 ²⁾	Graphite+304 ²⁾	PTFE
7	Stud	A193-B7	A320-L7	A193-B8
8	Stud Nut	A194-2H	A194-4	A194-8
9	Packing	PTFE		
10	Gland Flange	A216-WCB	A352-LCB	A351-CF8M
11	Gland Bolt	A193-B7	A193-B7	A193-B8
12	Stop Plate	Carbon Steel		Carbon Steel+Zn
13	Handle	Carbon Steel		

Note: 1)A105+ENP optional

2)Spiral wound construction

Dimensional datas of ANSI class 150Lb

NPS DN	1/2 (15)	3/4 (20)	1 (25)	1½ (40)	2 (50)	2½ (65)	3 (80)	4 (100)	6 (150)	8 (200)	10 (250)	12 (300)	in (mm)
L	4.25	4.62	5	6.5	7	7.5	8	9	15.5	18	21	24	in
(RF)	108	117	127	165	178	190	203	229	394	457	533	610	mm
L1	5.5	6	6.5	7.5	8.5	9.5	11.12	12	18	20.5	22	25	in
(BW)	140	152	165	190	216	241	283	305	457	521	559	635	mm
H	2.12	2.12	2.75	3.5	4.12	6.12	7.25	8	10	11	13.5	16.5	in
	55	55	70	90	105	155	185	205	255	280	345	420	mm
W	5	5	6	8	14	16	20	20	24	32	32	32	in
	130	130	160	200	350	400	500	500	600	800	800	800	mm
wt (kg)	2.3	3	4.5	7	9.5	15	19	33	93	160	200	280	RF
	1.8	2.8	3.7	6.2	8.5	14	21	35	98	170	225	295	BW

Ball Valve , Cast Steel , Floating 300Lb/600Lb



Applicable Standards:

- STEEL BALL VALVES API 608/API 6D
- STEEL BALL VALVES ISO 14313
- FIRE SAFE, API 607
- ANTI STATIC, API 608
- STEEL VALVES, ASME B16.34
- FACE TO FACE ASME B16.10
- END FLANGES, ASME B16.5
- BUTTWELDING ENDS ASME B16.25
- INSPECTION AND TEST, API 598/ API 6D

Design descriptions:

- FULL PORT DESIGN
- BG. BOLTED BONNET. SPLIT BODY
- FLOATING BALL TYPE
- BLOW-OUT PROOF STEM
- FIRE DURABLE CONSTRUCTION
- ANTI STATIC DEVICE
- STOPPER DEVICE
- ISO 5211 MOUNTING PAD
- FLANGED OR BUTTWELDING ENDS
- AVAILABLE WITH WG OPERATOR

Materials of parts

NO	Part Name	Carbon Steel		ASTM Materials
1	Body	A216-WCB	A352-LCB	A351-CF8M
2	Bonnet	A216-WCB	A352-LCB	A351-CF8M
3	Ball	A182-F304 ¹⁾	A182-F304 ¹⁾	A182-F316
4	Stem	A276-304	A276-304	A276-304
5	Seat Ring	R.PTFE		
6	Gasket	Graphite+304 ²⁾	Graphite+304 ²⁾	PTFE
7	Stud	A193-B7	A320-L7	A193-B8
8	Stud Nut	A194-2H	A194-4	A194-8
9	Packing	PTFE		
10	Gland Flange	A216-WCB	A352-LCB	A351-CF8M
11	Gland Bolt	A193-B7	A193-B7	A193-B8
12	Stop Plate	Carbon Steel		Carbon Steel+Zn
13	Handle	Carbon Steel		

Note: 1) A105+ENP optional

2) Spiral wound construction

Dimensional datas of ANSI class 300Lb

NPS DN	1/2 (15)	3/4 (20)	1 (25)	1½ (40)	2 (50)	2½ (65)	3 (80)	4 (100)	6 (150)	8 (200)	10 (250)	12 (300)	in (mm)
L	5.5	6	6.5	7.5	8.5	9.5	11.12	12	15.88	19.75	22.38	25.5	in
(RF)	140	152	165	190	216	241	283	305	403	502	568	648	mm
L1	5.5	6	6.5	7.5	8.5	9.5	11.12	12	18	20.5	22	25	in
(BW)	140	152	165	190	216	241	283	305	457	521	559	635	mm
H	2.12	2.12	2.75	3.5	4.12	6.12	7.25	8	10	11	13.5	16.5	in
	55	55	70	90	105	153	187	206	255	280	345	420	mm
W	5	5	6	8	14	16	20	20	24	32	32	32	in
	130	130	160	200	350	400	500	500	600	800	800	800	mm
wt (kg)	2.5	3.5	5.5	10.5	14.5	23.5	30	55	118	200	250	330	RF
	1.8	2	3.2	5.5	8.7	15	18	36	85	152	182	232	BW

Dimensional datas of ANSI class 600Lb

NPS DN	1/2 (15)	3/4 (20)	1 (25)	1½ (40)	2 (50)	2½ (65)	3 (80)	4 (100)	6 (150)	8 (200)	10 (250)	12 (300)	in (mm)
L/L1	6.5	7.5	8.5	9.5	11.5	13	14	17	22	-	-	-	in
(RF/BW)	165	190	216	241	292	330	356	432	559	-	-	-	mm
L2	-	-	-	-	11.62	13.12	14.12	17.12	22.12	-	-	-	in
(RTJ)	-	-	-	-	295	333	359	435	562	-	-	-	mm
H	2.38	2.38	3	4	4.75	6.88	8.38	9.25	11.38	-	-	-	in
	61.5	61.5	78	101	120	174	212	234	289	-	-	-	mm
W	5	6	8	14	16	20	24	24	32	-	-	-	in
	130	160	200	350	400	500	600	600	800	-	-	-	mm
wt (kg)	3.5	4.5	7.2	13.5	19	31	39	71	153	-	-	-	RF/RTJ
	2.6	3.1	4.8	8	3	22	27	53	120	-	-	-	BW