KATA

Ball Valve FS, FL

Design

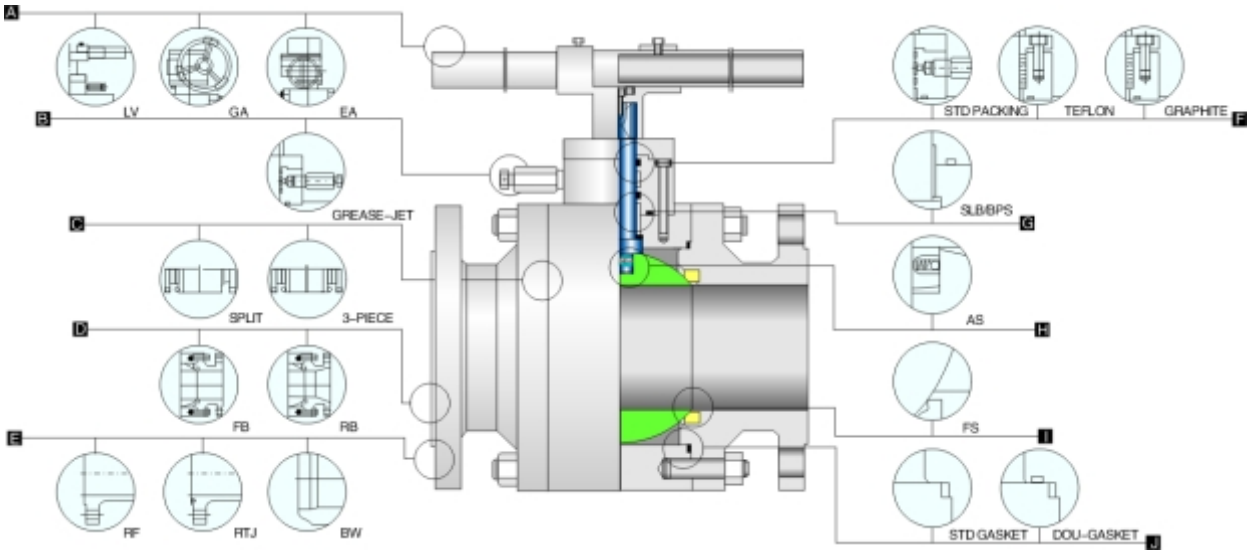
KATA steel ball valves are designed and manufactured to provide maximum service life and dependability. All ball valves are full ported and meet the design requirements of American Petroleum Institute standard API 608&API 6D British standard BS 5351 and generally conform to American Society of Mechanical Engineers standard ASME B16.34 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 KATA Cast Steel Valves

Trim changes
End connection modifications
Packing and gasket changes
Operator mounting
Handwheel extensions
Pressure equalizing
AS OR FS
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 Grease–jet joint

Installed in prescriptive part accord to the apply and satisfied with ecumenical situations and realize seal in spot with maintenance easily.

C Body&Bonnet

Split or 3–piece,split body & bonnet for 8" & small. Disassembles easily for repair or replacement of internal components.

D BORE

Full bore or reduced bore . Full–bore design provides exceptional flow control.

E End Connectios

A choice of flanged RTJ flanged or buttwelding end for piping flexibility.

F 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.

G SLB

Self–lubrication bearing. Easy operation, low torque and longer life

BPS

Blow–out proof stem. A pressure–safe stem. Shoulder design that protects against failure under excess pressure.

H AS

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

I 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 back up if primary seal is destroyed by fire. Valves ordered for compliance with API 607 will be provided with graphite packing and gaskets.

J Gasket

Std gasket or dou–gasket. Std gasket adopt high–performance rubber seal ring. Dou–gasket adopt high–performance rubber seal ring and spiral wound graphite.

Floating,Forged Steel Ball Valve 150Lb

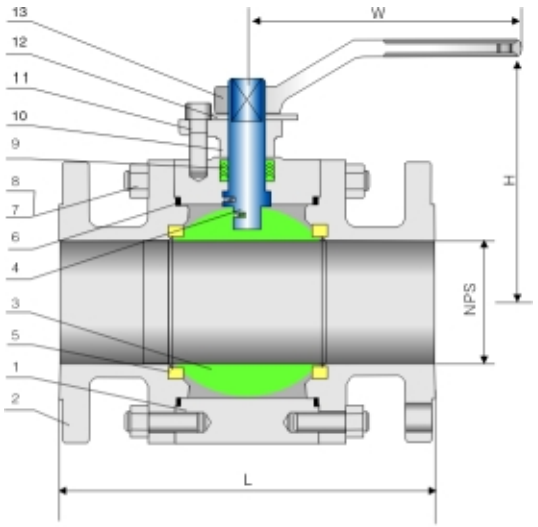
KATA

Applicable Standards:

- STEEL BALL VALVES API 608/API 6D
- STEEL BALL VALVES ISO 14313
- FIRE SAFE,API 607
- ANTI STATICS,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
- BB.BOLTED BONNET.SPLIT BODY
- FLOATING BALL TYPE
- BLOW–OUT PROOF STEM
- FIRE SAFE CONSTRUCTION
- ANTI STATICS 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	Carbon Steel
1	Body	A105	A182–F316	A350–LF2
2	Bonnet	A105	A182–F316	A350–LF2
3	Ball	A182–F304[1)]	A182–F316	A182–F304[1)]
4	Stem	A276–304	A276–316	A276–304
5	Seat Ring	R.PTFE		
6	Bonnet Gasket	Graphite+304[2)]	PTFE	Graphite+304[2)]
7	Bonnet Stud	A193–B7	A193–B8	A320–L7
8	Bonnet Stud Nut	A194–2H	A194–8	A194–4
9	Packing	PTFE		
10	Gland Flange	A105	A182–F316	A350–LF2
11	Gland Bolt	A193–B7	A193–B8	A193–B7
12	Stop Plate	Carbon Steel	Carbon Steel+Zn	Carbon Steel
13	Handle	Carbon Steel		

Note:1)A105+ENP optional
2)Spiral wound construction.

Dimensional datas of ANSI Class 150Lb

NPS / DN	1/2	3/4	1	1 1/2	2	2 1/2	3	4	6	8	10	12	in
	15	20	25	40	50	65	80	100	150	200	250	300	mm
L (RF)	4.25	4.62	5.00	6.50	7.00	7.50	8.00	9.00	15.50	18.00	21.00	24.00	in
	108	117	127	165	178	190	203	229	394	457	533	610	mm
L1 (BW)	5.50	6.00	6.50	7.50	8.50	9.50	11.12	12.00	18.00	20.50	22.00	25.00	in
	140	152	165	190	216	241	283	305	457	521	559	635	mm
H	2.12	2.12	2.50	3.38	4.00	6.00	7.00	9.25	9.88	11.00	12.62	15.38	in
	55	55	65	85	100	150	180	235	250	280	320	390	mm
W	8	8	12	12	166	16	24	24	24	24	32	32	in
	200	200	300	300	400	400	600	600	600	600	800	800	mm
wt(kg)	3.1	4.1	6	9.5	12.8	20	26	45	126	216	270	378	RF
	2.6	3.9	5.2	8.7	11.8	19	28	47	131	226	295	393	BW

KATA

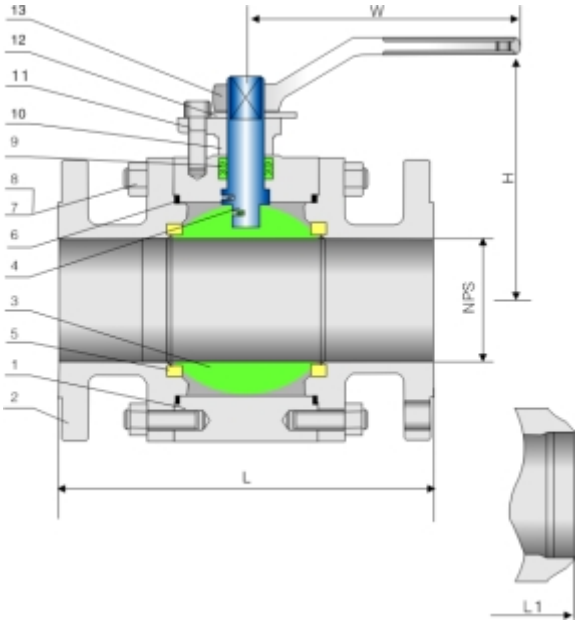
Floating,Forged Steel Ball Valve 300Lb/600Lb

Applicable Standards:

- STEEL BALL VALVES API 608/API 6D
- STEEL BALL VALVES ISO 14313
- FIRE SAFE,API 607
- ANTI STATICS,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
- BB.BOLTED BONNET.SPLIT BODY
- FLOATING BALL TYPE
- BLOW–OUT PROOF STEM
- FIRE SAFE CONSTRUCTION
- ANTI STATICS 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	Carbon Steel
1	Body	A105	A182–F316	A350–LF2
2	Bonnet	A105	A182–F316	A350–LF2
3	Ball	A182–F304[1)]	A182–F316	A182–F304[1)]
4	Stem	A276–304	A276–316	A276–304
5	Seat Ring	R.PTFE		
6	Bonnet Gasket	Graphite+304[2)]	PTFE	Graphite+304[2)]
7	Bonnet Stud	A193–B7	A193–B8	A320–L7
8	Bonnet Stud Nut	A194–2H	A194–8	A194–4
9	Packing	PTFE		
10	Gland Flange	A105	A182–F316	A350–LF2
11	Gland Bolt	A193–B7	A193–B8	A193–B7
12	Stop Plate	Carbon Steel	Carbon Steel+Zn	Carbon Steel
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	1 1/2 / 40	2 / 50	2 1/2 / 65	3 / 80	4 / 100	6 / 150	8 / 200	10 / 250	12 / 300	
L (RF)	5.50	6.00	6.50	7.50	8.50	9.50	11.12	12.00	15.88	19.75	22.38	25.50	in
	140	152	165	190	216	241	283	305	403	502	568	648	mm
L1 (BW)	5.50	6.00	6.50	7.50	8.50	9.50	11.12	12.00	18.00	20.50	22.00	25.00	in
	140	152	165	190	216	241	283	305	457	521	559	635	mm
H	2.12	2.12	2.50	3.38	16.00	16.00	24.00	24.00	9.88	11.00	12.62	15.38	in
	55	55	65	85	400	400	600	600	250	280	320	390	mm
W	8	8	12	12	10	12	14	19	24	24	32	32	in
	200	200	300	300	250	300	350	480	600	600	800	800	mm
wt(kg)	3.5	4.6	6.7	10.5	14.5	22	29	50	141	242	302	423	RF
	2.8	3.1	4.4	5.5	8.7	13.5	17	31	108	194	234	325	BW

Dimensional datas of ANSI Class 600Lb

NPS / DN	1/2 / 15	3/4 / 20	1 / 25	1 1/2 / 40	2 / 50	2 1/2 / 65	3 / 80	4 / 100	6 / 150	8 / 200	10 / 250	12 / 300	
L/L1 (RF/BW)	6.50	7.50	8.50	9.50	11.50	13.00	14.00	17.00	22.00	–	–	–	in
	165	190	216	241	292	330	356	432	559	–	–	–	mm
L2 (RTJ)	–	–	–	–	11.62	13.12	14.12	17.12	22.12	–	–	–	in
	–	–	–	–	295	333	359	435	562	–	–	–	mm
H	2.25	2.25	2.62	3.50	4.12	6.25	7.50	9.75	10.38	–	–	–	in
	58	58	68	89	105	158	190	247	262	–	–	–	mm
W	8	12	12	16	16	24	24	24	32	–	–	–	in
	200	300	300	400	400	600	600	600	800	–	–	–	mm
wt(kg)	4.5	5.5	8	12.5	18	27	35	61	172	–	–	–	RF
	3.8	4.1	5.6	7	12	18	23	43	139	–	–	–	BW