

#### 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 od body/bonnet materials and trims.

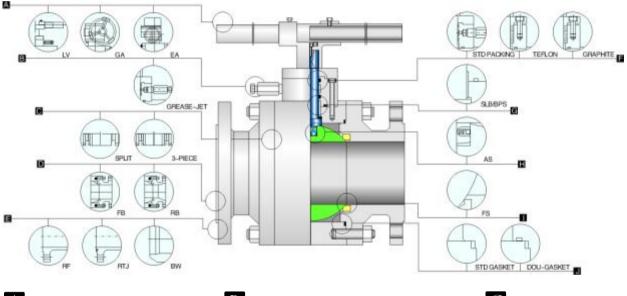
# Available Modifications for SS VALVE Steel Valves

Trim changes End connection modifications Packing and gasket change Handwheel extensions

#### 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.

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

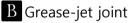




Self-lubrication bearing. Easy operation, low torque and longer life / Blow-out proof stem. A pressure-safe stem. Shoulder design that protects against failure under excess pressure.

# Gasket

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



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



buttwelding end for piping flexibility

H AS

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

# C Body&Bonnet

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



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



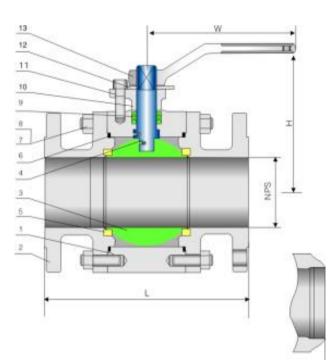
Fire safe. designed to API 607 or BS 6755 to grant their operation suitability in case of fire. Secondary metalto metal seal acts as back up if primary seal is destroyed by fire. Valves ordered for compliance with API 607 will be provided with graphite packing and gaskets.

# Ball Valve , Forged Steel , Floating 150Lb



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

### Materials of parts

NO	Part Name	Carbo	n Steel	ASTM Materials 18Cr-9Ni-2Mo						
1	Body	A105	A350-LF2	A182-F316						
2	Bonnet	A105	A350-LF2	A182-F316						
3	Ball	A182-F304 <sup>1)</sup>	A182-F304 <sup>1)</sup>	A182-F316						
4	Stem	A276-304	A276-304	A182-F316						
5	Seat Ring		R.PTFE							
6	Gasket	Graphite+304 <sup>2)</sup> Graphite+304 <sup>2)</sup>		PTFE						
7	Stud	A193-B7	A320-L7	A193-B8						
8	Stud Nut	A194-2H A194-4		A194-8						
9	Packing		PTFE							
10	Gland Flange	A105	A350-LF2	A182-F316						
11	Gland Bolt	A193-B7 A193-B7		A193-B8						
12	Stop Plate	Carbo	n Steel	Carbon Steel+Zn						
13	Handle Carbon Steel									
Note: 1	Note: 1)A105+ENP optional									

2)Spiral wound construction

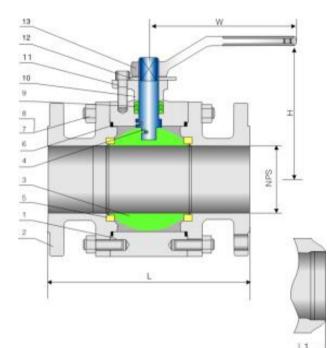
#### **Dimensional datas of ANSI class 150Lb**

NPS	1/2	3/4	1	11/2	2	21/2	3	4	6	8	10	12	in
DN	(15)	(20)	(25)	(40)	(50)	(65)	(80)	(100)	(150)	(200)	(250)	(300)	(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
Н	2.12	2.12	2.5	3.38	4	6	7	9.25	9.88	11	12.62	15.38	in
п	55	55	65	85	100	150	180	235	250	280	320	390	mm
W	8	8	12	12	16	16	24	24	24	24	32	32	in
vv	200	200	300	300	400	400	600	500	600	600	800	800	mm
wt (kg)	3.1	4.1	6	9.5	12.8	20	26	45	126	216	270	378	RF
wt (kg)	2.6	3.9	5.2	8.7	11.8	19	28	47	131	226	295	393	BW



## Applicable Standards:

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- ●ANTI STATIC,API 608
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5	Seat Ring		R.PTFE							
6	Gasket	Graphite+304 <sup>2)</sup>	Graphite+304 <sup>2)</sup>	PTFE						
7	Stud	A193-B7	A320-L7	A193-B8						
8	Stud Nut	A194-2H A194-4		A194-8						
9	Packing		PTFE							
10	Gland Flange	A105	A350-LF2	A182-F316						
11	Gland Bolt	A193-B7	A193-B7	A193-B8						
12	Stop Plate	Carboi	Carbon Steel Carbo							
13	Handle Carbon Steel									
Note: 1)A105+ENP optional										

2)Spiral wound construction

#### Dimensional datas of ANSI class 300Lb

NPS	1/2	3/4	1	1 <sup>1</sup> /2	2	21/2	3	4	6	8	10	12	in
DN	(15)	(20)	(25)	(40)	(50)	(65)	(80)	(100)	(150)	(200)	(250)	(300)	(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
н	2.12	2.12	2.5	3.38	4	6	7	8	9.88	11	12.62	15.38	in
п	55	55	65	85	100	150	180	200	250	280	320	390	mm
W	8	8	12	12	12	12	14	19	24	24	32	32	in
vv	200	200	300	300	300	400	350	480	600	600	800	800	mm
wet (kg)	3.5	4.6	6.7	10.5	14.5	22	29	50	141	242	302	423	RF
wt (kg)	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 <sup>1</sup> ⁄2 (40)	2 (50)	2 <sup>1</sup> / <sub>2</sub> (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
Н	2.25	2.25	2.62	3.5	4.12	6.25	7.5	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
vv	200	300	300	400	400	600	600	600	800	-	-	-	mm
	4.5	5.5	8	12.5	18	27	35	61	172	-	-	-	RF/RTJ
wt (kg)	3.8	4.1	5.6	7	12	18	23	43	139	-	-	-	BW