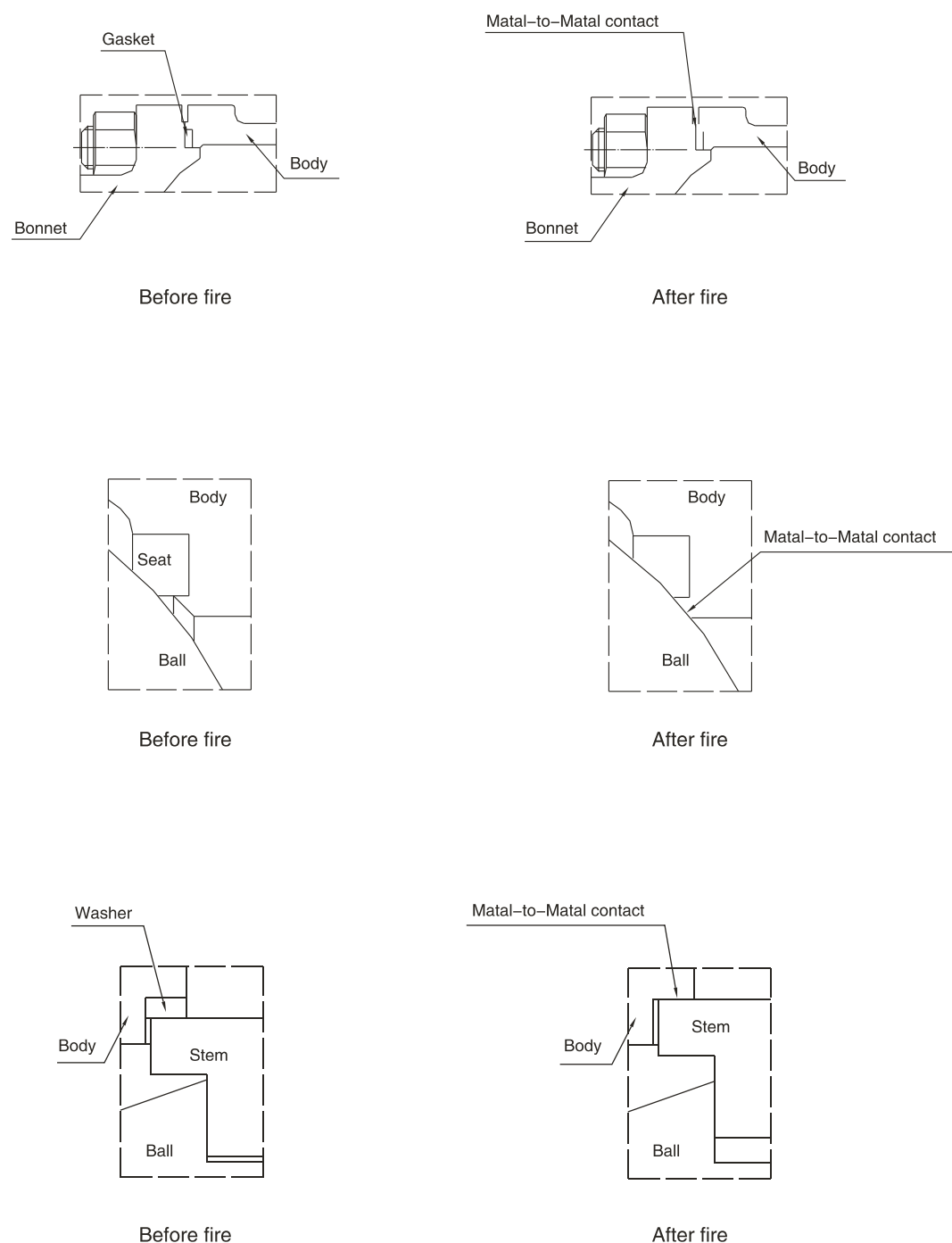


Sedelon floating type ball valves are manufactured to BS 5351 specification, tested to BS 6755/API 598. The construction is the side entry type full port and end entry/side entry type reduced port. All valves are lever operated, the gear operator or the actuator are supplied at demand. The following are some of the major design features:

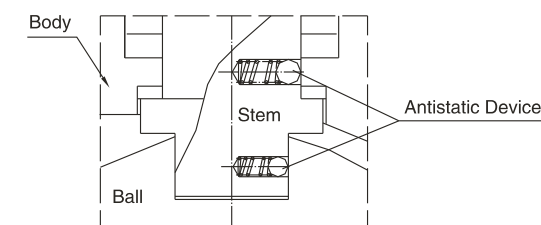
1. Fire Safe:

Designed and tested to BS 5146/API 607 to grant their operation suitability in case of fire.



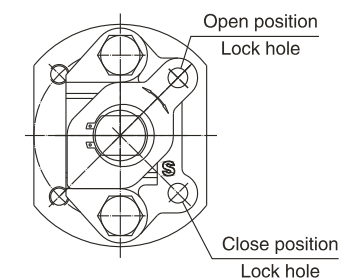
2. Antistatic:

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



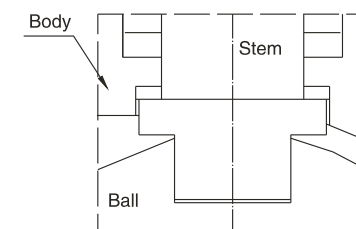
3. Locking Device:

To avoid misoperation, the valve may be locked by open or closed position locking device with popular padlock design. It's very important to lock the valve to prevent the valve from being operated by error, especially when the valve is installed in field or the valve should not be opened or closed during technical process.



4. Blowout Resistance of Stem:

To prevent stem from being blow out by the pressure entrapped in valve cavity when the fluid flows through the valve, the lower part of stem is incorporated with a raised collar. In this case, should the stem packing, thrust-washer be destroyed by fire or such damages cause by any other reason, the fluid pressure in valve body pushes stem's raised collar closely against the upper sealing surface of the body to avoid fluid leakage.



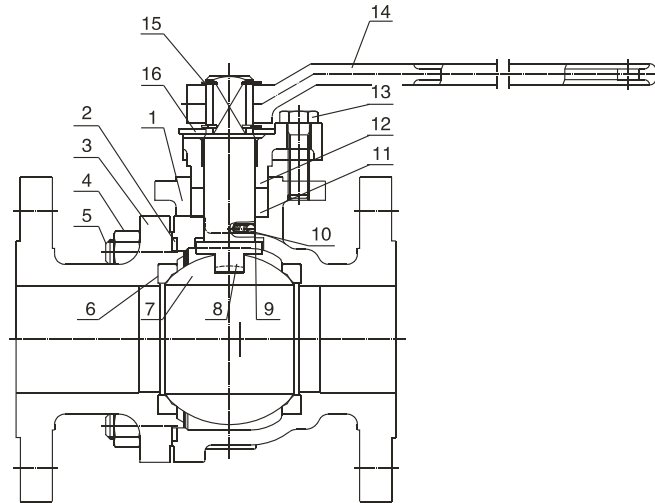
5. Easy Maintenance:

A very limited number of components and easily accessible.

6. Low Torque:

Although the seats are preloaded against the ball producing a friction between ball and seats with no pressure in the valve, as soon as the valve is pressurized such a friction decreases in a remarkable way since the ball is floated against the downstream seat freeing the upstream one.

● **Class150/300 Casting Steel Floating Ball Valve**



● **Technical Specification**

Temp. & pressure: ASME B16.34、BS5351

Wall thickness: ASME B16.34、BS5351

Bore dimention: API 6D、BS5351

Face to face: ASME B16.10、BS2080

Flanges dimentions: ASME B16.5、BS1560

Test & inspection: API 598、API 6D、BS5146

Body material: WCB、LCB、LCC、CF8、CF8M、CF3、CF3M

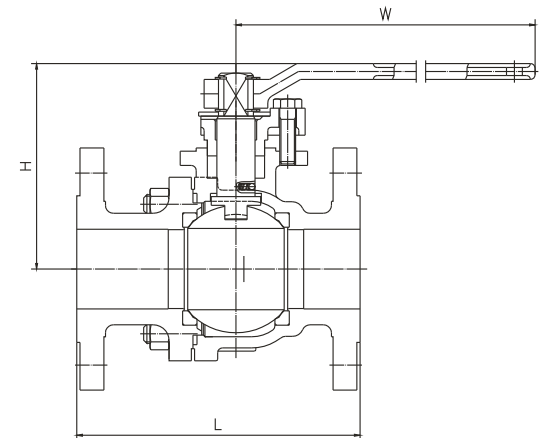
● **Form of Major Part Material**

Parts No.	Parts Name	Materials		
		Carbon Steel	Low Temp. Steel	Stainless Steel
1	Body	ASTM A216-WCB	ASTM A352-LCB/LCC	ASTM A351-CF8/CF8M
2	Gasket	304+Graphite	304+Graphite	304+Graphite
3	Bonnet	ASTM A216-WCB	ASTM A352-LCB/LCC	ASTM A351-CF8/CF8M
4	Nut	ASTM A194-2H/2HM	ASTM A194 4	ASTM A194- 8M/8
5	Stud	ASTM A193-B7/B7M	ASTM A320 L7	ASTM A193-B8M/B8
6	Seat	PTFE	PTFE	PTFE
7	Ball	ASTM A182-F304	ASTM A182-F304	ASTM A182-F304/F316
8	Stem	ASTM A182-F304	ASTM A182-F304	ASTM A182-F304/F316
9	Gasket	304+PTFE	304+PTFE	304+PTFE
10	Antistatic device	ASTM A182-F304	ASTM A182-F304	ASTM A182-F304/F316
11	Packing	PTFE/Graphit	PTFE/Graphit	PTFE/Graphit
12	Packing gland	ASTM A216-WCB	ASTM A352-LCB/LCC	ASTM A351-CF8/CF8M
13	Screw	ASTM A193-B7/B7M	ASTM A320 L7	ASTM A193-B8M/B8
14	Lever	ASTM A216-WCB	ASTM A216-WCB	ASTM A216-WCB
15	Back stop	Carbon Steel	Carbon Steel	Carbon Steel
16	Stopper plate	Carbon Steel	Carbon Steel	Carbon Steel

● **Class150 Dimension Chart**

Norm.	in	1/2	3/4	1	1 1/2	2	2 1/2	3	4	5	6	8	10
	Dia. mm	15	20	25	40	50	65	80	100	125	150	200	250
Ball Bore		15	20	25	40	50	65	80	100	125	150	200	250
L		108	117	127	165	178	190	203	229	356	394	457	533
H		84	88	95	120	130	160	185	210	220	295	335	
W		130	130	140	250	250	400	400	450	450	1050	1500	

1/2" ~ 4": Lever operation
6" ~ 8": Optional gear operation
10": Gear operation
Test pressure
Shell: Hydrostatic 3.10MPa(450psi)
Seat: Air 0.55MPa(80psi)
Options
Packing and gasket
CF8M(316SS) ball and stem

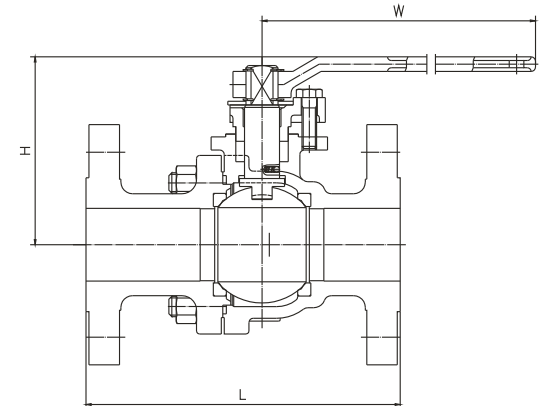


CLASS150

● **Class300 Dimension Chart**

Norm.	in	1/2	3/4	1	1 1/2	2	2 1/2	3	4	5	6	8
	Dia. mm	15	20	25	40	50	65	80	100	125	150	200
Ball Bore		15	20	25	40	50	65	80	100	125	150	200
L		140	152	165	191	216	241	283	305	381	403	502
H		84	88	95	120	140	160	180	208	220	335	
W		130	130	140	250	250	400	400	450	450	1050	

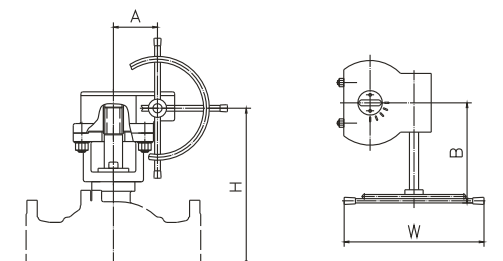
1/2" ~ 4": Lever operation
6" ~ 8": Optional gear operation
10": Gear operation
Test pressure
Shell: Hydrostatic 7.76MPa(1125psi)
Seat: Air 0.55MPa(80psi)
Options
Packing and gasket
CF8M(316SS) ball and stem



CLASS300

● **Gear operation Dimention**

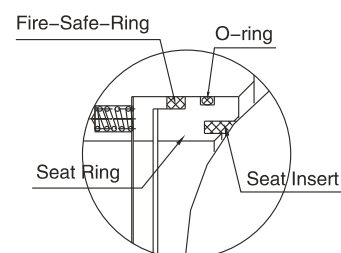
Class	150	300	Gear operator			
			H	W	B	A
Valve size (inch)	6	6	325	350	205	125
	8	8	415	355	320	185
	10	-	475	365	340	360



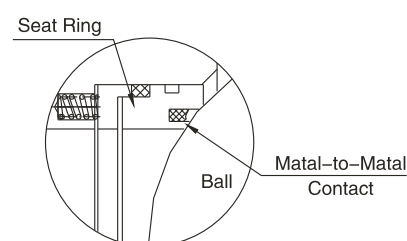
Sedelon trunnion mounted type ball valves are manufactured to API 6D specification and tested to API 598/API 607. The construction is side entry three pieces full and reduced port. The valves are lever operated and where recommended or when required are gear operated or actuated. The following are some of the major design features:

1. Fire-safe:

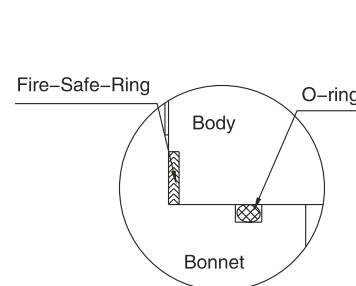
All size and pressure classes have been successfully fire-safetested according to the relevant API and BS specifications. Test certifications are available on request.



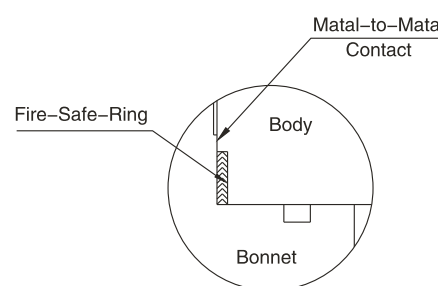
Before fire



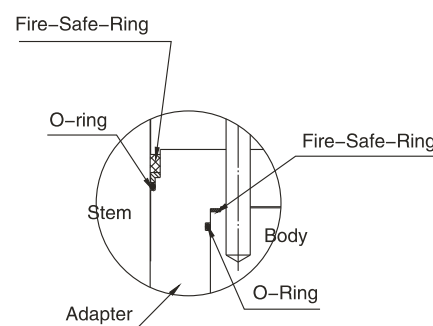
After fire



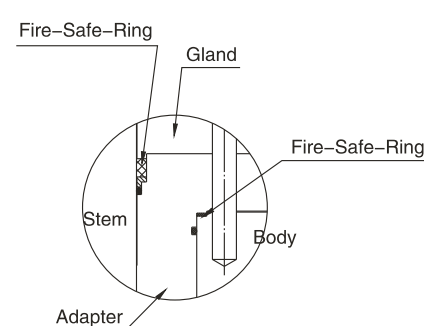
Before fire



After fire



Before fire



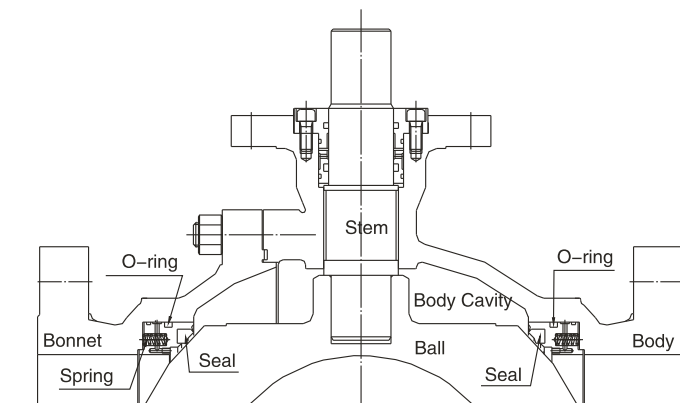
After fire

2. Antistatic:

Electrical continuity of all valve components, prevent statics build-up.

3. Double Block & Bleed:

The body cavity is isolated when the ball is in either fully closed or fully opened position, the medium entrapped in it can easily be bled to avoid overpressure

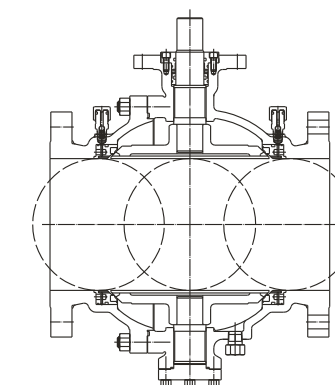
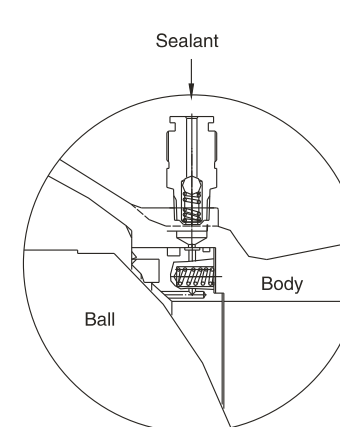
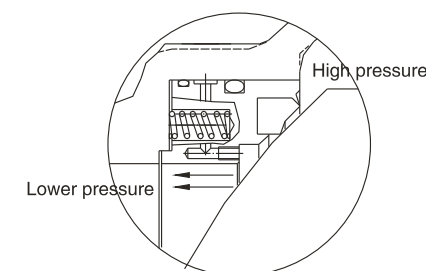
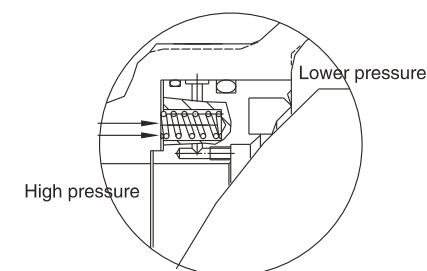


4. Seat Ring Sealing:

as line pressure increases, our seat design originates a piston effect forcing the sealing resilient insert against the ball. In absence of the pressure or with low pressures, the seats are forced against the ball by the set of preloaded springs. (see sketch)

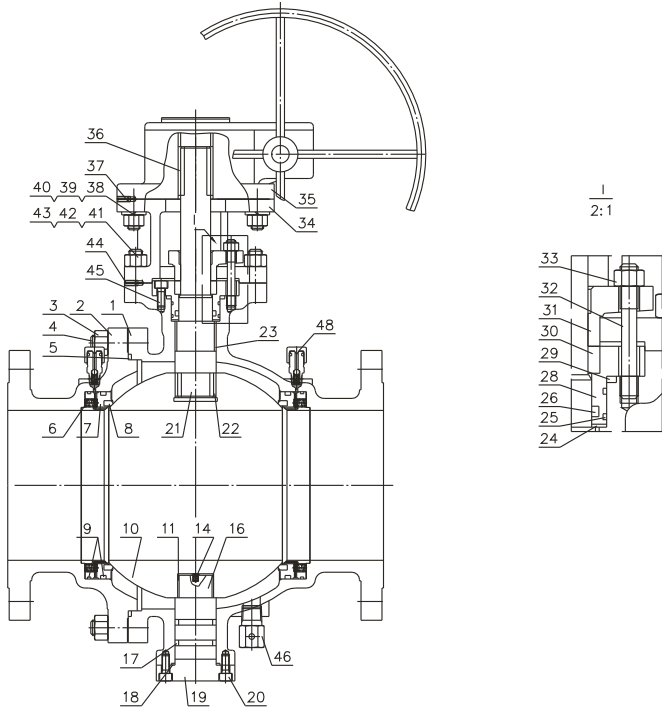
5. Pressure relieving:

If excessive pressure builds up in the body cavity exceeding the seats spring pressure, the seat automatically relieves.



Full bore

●Cabon Steel/Stainless Steel Ball Valve



●Technical Specification

Temp. & pressure: ASME B16.34、BS5351

Wall thickness: ASME B16.34、BS5351

Bore dimention: API 6D、BS5351

Face to face: ASME B16.10、API 6D

Flanges dimentions: ASME B16.5(MSS SP-44)、BS1560

Test & inspection: API 598、API 6D、BS5146

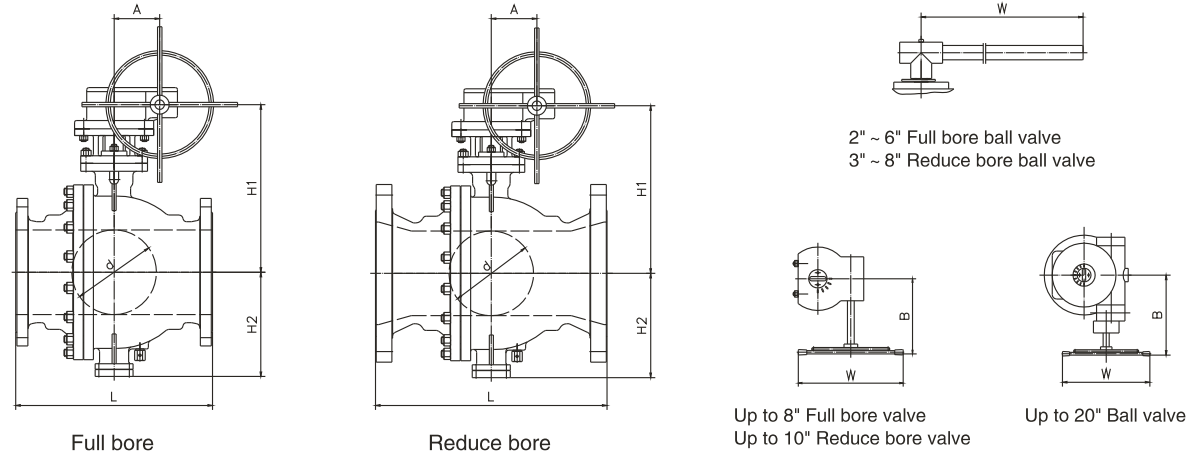
Body material: WCB、LCB、LCC、CF8、CF8M、CF3、CF3M

●Form of Major Part Material

Parts No.	Parts Name	Materials		
		Carbon Steel	Low Temp. Steel	Stainless Steel
1	Body	ASTM A216–WCB	ASTM A352–LCB/LCC	ASTM A351–CF8/CF8M
2	Bonnet	ASTM A216–WCB	ASTM A352–LCB/LCC	ASTM A351–CF8/CF8M
3	Nut	ASTM A194–2H/2HM	ASTM A194 4	ASTM A194– 8M/8
4	Bolt	ASTM A193–B7/B7M	ASTM A320 L7	ASTM A193–B8M/B8
5	O–ring	VITON	VITON	VITON
6	Spring	INCONELX–750	INCONELX–750	INCONELX–750
7	Seat ring	ASTM A105	ASTM A182 G304	ASTM A182 F304/F316
8	Seat insert	RPTFE	RPTFE	RPTFE
9	O–ring	VITON	VITON	VITON
10	Ball	ASTM A182–F6a	ASTM A182–F304	ASTM A182 F304/F316
11	Stem bearing	304+PTFE	304+PTFE	304+PTFE
14	Spring	ASTM A276–316	ASTM A276–316	ASTM A276–316
16	Lower stem	ASTM A182–F6a	ASTM A182–F304	ASTM A182 F304/F316

Parts No.	Parts Name	Materials		
		Carbon Steel	Low Temp. Steel	Stainless Steel
17	O–ring	VITON	VITON	VITON
18	Gasket	304+Graphite	304+Graphite	304+Graphite
19	Buttom cover	ASTM A105	ASTM A182–F304	ASTM A182–F304/F316
20	Screw	ASTM A193–B7/B7M	ASTM A320 L7	ASTM A193–B8M/B8
21	Upper stem	ASTM A182–F6a	ASTM A182–F304	ASTM A182–F304/F316
22	Key	ANSI 1045	ASTM A182–F304	ASTM A182–F304/F316
23	Radial bearing	304+PTFE	304+PTFE	304+PTFE
24	Axial bearing	304+PTFE	304+PTFE	304+PTFE
25	O–ring	VITON	VITON	VITON
26	O–ring	VITON	VITON	VITON
28	Gland	ASTM A105	ASTM A182–F304	ASTM A182–F304/F316
29	Gasket	304+Graphite	304+Graphite	304+Graphite
30	Packing	Graphite	Graphite	Graphite
31	Packing gland	ASTM A216–WCB	ASTM A352–LCB /LCC	ASTM A351–CF8/CF8M
32	Bolt	ASTM A193–B7/B7M	ASTM A1320 L7	ASTM A193–B8M/B8
33	Nut	ASTM A194–2H/2HM	ASTM A194 4	ASTM A194– 8M/8
34	Yoke	ASTM A216–WCB	ASTM A352–LCB /LCC	ASTM A182–F304/F316
35	Gear box	Cast iron	Cast iron	Cast iron
36	Key	ANSI 1045	ANSI A182–F304	ASTM A182–F304/F316
37	Screw	ASTM A193–B7/B7M	ASTM A320 L7	ASTM A193–B8M/B8
38	Nut	ASTM A194–2H/2HM	ASTM A194 4	ASTM A194– 8M/8
39	Spring gasket	65Mn	65Mn	65Mn
40	Bolt	ASTM A193–B7/B7M	ASTM A320 L7	ASTM A193–B8M/B8
41	Nut	ASTM A194–2H/2HM	ASTM A194 4	ASTM A194– 8M/8
42	Gasket	65Mn	65Mn	65Mn
43	Bolt	ASTM A193–B7/B7M	ASTM A320 L7	ASTM A193–B8M/B8
44	Screw	ASTM A193–B7/B7M	ASTM A320 L7	ASTM A193–B8M/B8
45	Screw	ASTM A193–B7/B7M	ASTM A320 L7	ASTM A193–B8M/B8
46	Drain plug	ANSI 1045	ASTM A182–F304	ASTM A182–F304/F316
48	Sealant injection	ANSI 1045	ANSI 1045	ASTM A182 F316

● **Class150 / Class300 Carbon Steel/Stainless Steel Ball Valve**



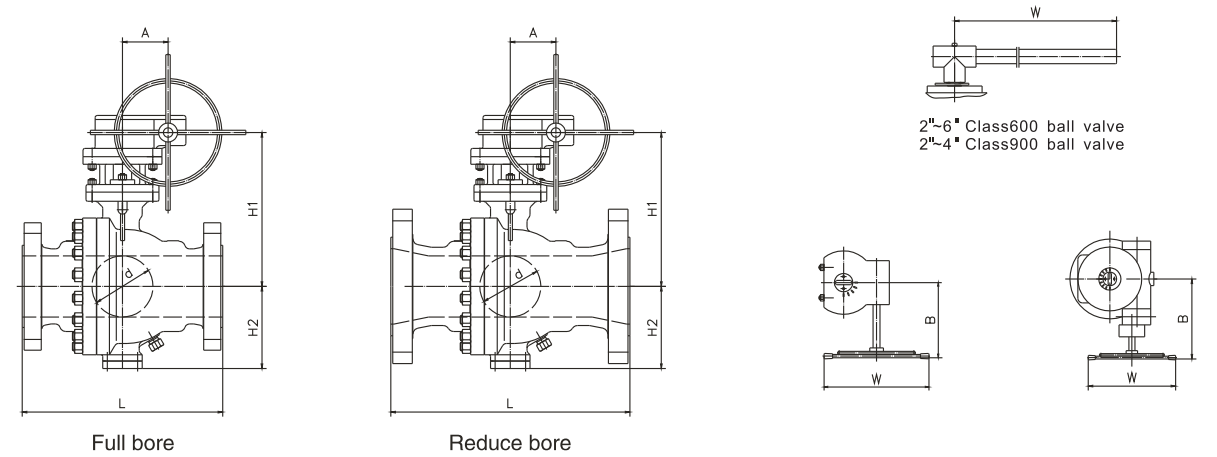
● **Class150**

NPS	d	L	H ₁	H ₂	W	A	B
2	51	178	176	95	350	—	—
3 × 2 × 3	51	203	176	95	350	—	—
3	76	203	215	120	400	—	—
4 × 3 × 4	76	229	215	120	400	—	—
4	102	229	252	142	500	—	—
6 × 4 × 6	102	394	252	142	500	—	—
6	152	394	330	220	1050	—	—
8 × 6 × 8	152	457	330	220	1050	—	—
8	203	457	448	259	300	105	190
10 × 8 × 10	203	533	448	259	300	105	190
10	254	533	505	305	350	125	205
12 × 10 × 12	254	610	505	305	350	125	205
12	305	610	556	348	400	185	320
14 × 12 × 14	305	686	556	348	400	185	320
14	337	686	620	395	500	195	350
16 × 14 × 16	337	762	620	395	500	195	350
16	387	762	700	450	500	195	350
18 × 16 × 18	387	864	700	450	500	195	350
18	438	864	750	485	500	215	380
20 × 18 × 20	438	914	750	485	500	215	380
20	489	914	805	525	500	215	380
22 × 18 × 22	438	1016	750	485	500	215	380
22	540	1016	890	615	500	215	380
24 × 20 × 24	489	1067	805	525	500	215	380
24	591	1067	1110	680	500	280	460
26 × 22 × 26	540	1143	890	615	500	215	380
26	635	1143	1140	715	500	280	460
28 × 24 × 28	591	1245	1110	680	500	280	460
28	686	1245	1180	750	500	280	460
30 × 24 × 30	591	1295	1110	680	500	280	460
30	737	1295	1220	850	500	280	460
32 × 26 × 32	635	1372	1140	715	500	280	460
32	787	1372	1250	920	500	280	460
34 × 28 × 34	686	1473	1180	750	500	280	460
34	832	1473	1300	985	500	280	460
36 × 30 × 36	737	1524	1220	850	500	280	460
36	876	1524	1350	1050	650	200	640

● **Class300**

NPS	d	L	H ₁	H ₂	W	A	B
2	51	216	176	95	350	—	—
3 × 2 × 3	51	283	176	95	350	—	—
3	76	283	215	120	400	—	—
4 × 3 × 4	76	305	215	120	400	—	—
4	102	305	252	142	500	—	—
6 × 4 × 6	102	403	252	142	500	—	—
6	152	403	330	220	1050	—	—
8 × 6 × 8	152	502	330	220	1050	—	—
8	203	502	448	259	300	105	190
10 × 8 × 10	203	568	448	259	300	105	190
10	254	568	505	305	350	125	205
12 × 10 × 12	254	648	505	305	350	125	205
12	305	648	556	348	400	185	320
14 × 12 × 14	305	762	556	348	400	185	320
14	337	762	620	395	500	195	350
16 × 14 × 16	337	838	620	395	500	195	350
16	387	838	700	450	500	195	350
18 × 16 × 18	387	914	700	450	500	195	350
18	438	914	750	485	500	215	380
20 × 18 × 20	438	991	750	485	500	215	380
20	489	991	805	525	500	215	380
22 × 18 × 22	438	1092	750	485	500	215	380
22	540	1092	890	615	500	215	380
24 × 20 × 24	489	1143	805	525	500	215	380
24	591	1143	1110	680	500	280	460
26 × 22 × 26	540	1245	890	615	500	215	380
26	635	1245	1140	715	500	280	460
28 × 24 × 28	591	1346	1110	680	500	280	460
28	686	1346	1180	750	500	280	460
30 × 24 × 30	591	1397	1110	680	500	280	460
30	737	1397	1220	850	500	280	460
32 × 26 × 32	635	1524	1140	715	500	280	460
32	787	1524	1250	920	500	280	460
34 × 28 × 34	686	1626	1180	750	500	280	460
34	832	1626	1300	985	500	280	460
36 × 30 × 36	737	1727	1220	850	500	280	460
36	876	1727	1350	1050	650	200	640

● **Class600 / Class900 Carbon Steel/Stainless Steel Ball Valve**



● **Class600**

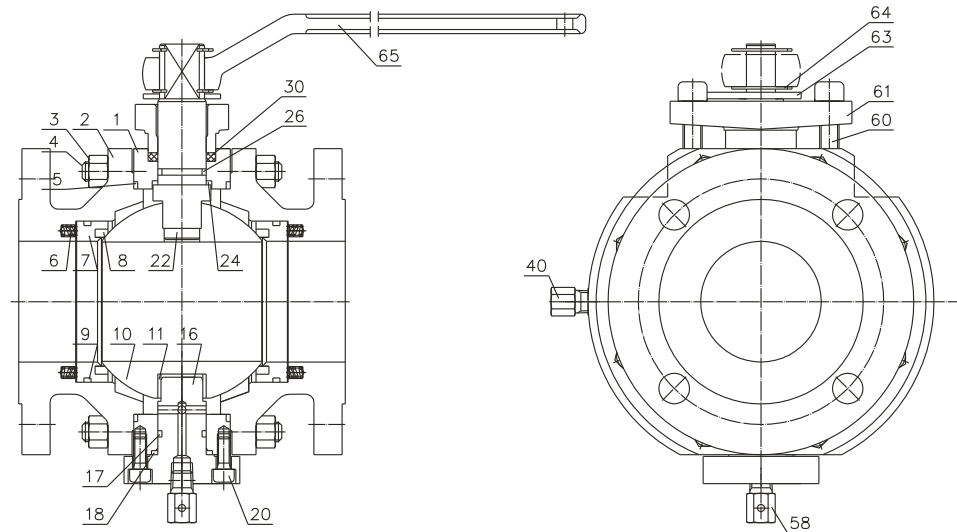
NPS	d	L	H ₁	H ₂	W	A	B
2	51	292	192	142	600	—	—
3 × 2 × 3	51	356	192	142	600	—	—
3	76	356	279	172	1000	—	—
4 × 3 × 4	76	432	279	172	1000	—	—
4	102	432	315	205	1500	—	—
6 × 4 × 6	102	559	315	205	1500	—	—
6	152	559	323	272	500	185	320
8 × 6 × 8	152	660	323	272	500	185	320
8	203	660	381	335	500	185	320
10 × 8 × 10	203	787	381	335	500	185	320
10	254	787	518	406	500	215	380
12 × 10 × 12	254	838	518	406	500	215	380
12	305	838	568	461	500	215	380
14 × 12 × 14	305	899	568	461	500	215	380
14	337	899	665	513	500	215	380
16 × 14 × 16	337	991	665	513	500	215	380
16	387	991	730	583	500	215	380
18 × 16 × 18	387	1092	730	583	500	215	380
18	438	1092	795	646	500	215	380
20 × 18 × 20	438	1194	795	646	500	215	380
20	489	1194	825	706	500	215	380
24 × 20 × 24	489	1397	825	706	500	215	380
24	591	1397	973	831	500	280	460
26 × 22 × 26	540	1448	865	711	500	215	380
26	635	1448	945	825	610	300	500
28 × 24 × 28	591	1549	920	766	500	280	460
28	686	1549	1038	890	610	300	500
30 × 24 × 30	591	1651	920	766	500	280	460
30	737	1651	1088	938	610	300	500

● **Class900**

NPS	d	L	H ₁	H ₂	W	A	B
2	51	368	192	142	600	—	—
3 × 2 × 3	51	381	192	142	600	—	—
3	76	381	279	172	1000	—	—
4 × 3 × 4	76	457	279	172	1000	—	—
4	102	457	315	205	1500	—	—
6 × 4 × 6	102	610	315	205	1500	—	—
6	152	610	323	272	500	185	320
8 × 6 × 8	152	737	323	272	500	185	320
8	203	737	381	335	500	185	320
10 × 8 × 10	203	838	381	335	500	185	320
10	254	838	518	406	500	215	380
12 × 10 × 12	254	965	518	406	500	215	380
12	305	965	568	461	500	215	380
14 × 12 × 14	305	1029	568	461	500	215	380
14	324	1029	665	513	500	215	380
16 × 14 × 16	324	1130	665	513	500	215	380
16	375	1130	730	583	500	215	380
18 × 16 × 18	375	1219	730	583	500	215	380
18	426	1219	795	646	500	215	380
20 × 18 × 20	426	1321	795	646	500	215	380
20	473	1321	825	706	500	215	380
24 × 20 × 24	473	1549	825	706	500	215	380
24	572	1549	973	831	500	280	460

● **Forged Trunnion Mounted Ball Valve**

2" ~ 4" Class150/300、DN50 ~ 100 PN2.0 ~ 5.0



● **Technical Specification**

Temp. & pressure: ASME B16.34

Wall thickness: ASME B16.34

Bore dimension: API 6D

Face to face: ASME B16.10、API 6D

Flanges dimensions: ASME B16.5

Test & inspection: API 6D

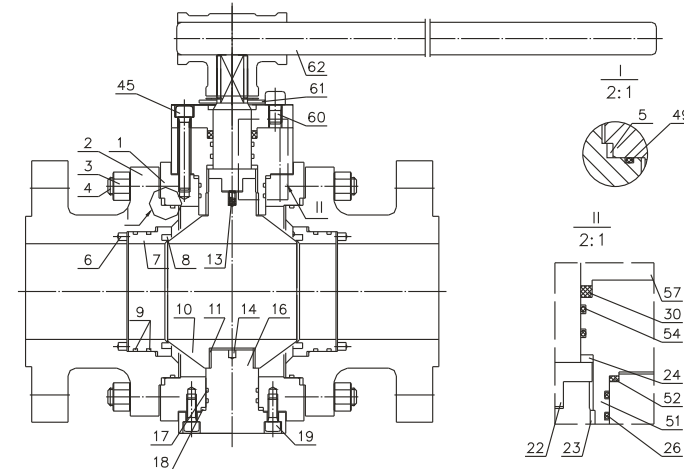
Body material: A105、LF2、LF3、F304、F316、F304L、F316L

● **Form of Major Part Material**

Parts No.	Parts Name	Materials		
		Carbon Steel	Low Temp. Steel	Stainless Steel
1	Body	ASTM A105	ASTM A350-LF2/LF3	ASTM A182-F304/F316
2	Bonnet	ASTM A105	ASTM A350-LF2/LF3	ASTM A182-F304/F316
3	Nut	ASTM A194-2H/2HM	ASTM A194 4	ASTM A194-2HM/8
4	Bolt	ASTM A193-B7/B7M	ASTM A320 L7	ASTM A193-B7M/B8
5	O-ring	VITON	VITON	VITON
6	Spring	INCONELX-750	INCONELX-750	INCONELX-750
7	Seat ring	ASTM A105	ASTM A350-LF2/LF3	ASTM A182-F304/F316
8	Seat insert	RPTFE	RPTFE	RPTFE
9	O-ring	VITON	VITON	VITON
10	Ball	ASTM A105	ASTM A182-F304	ASTM A182-F304/F316
11	Stem bearing	304+PTFE	304+PTFE	304+PTFE
16	Lower stem	ASTM A105	ASTM A182-F304	ASTM A182-F304/F316
17	O-ring	VITON	VITON	VITON
18	Gasket	304+Graphite	304+Graphite	304+Graphite
20	Screw	ASTM A193-B7/B7M	ASTM A320 L7	ASTM A193-B7M/B8
22	Stem	ASTM A182-F6a	ASTM A182-F304	ASTM A182-F304/316
24	Stem washer	304+PTFE	304+PTFE	304+PTFE
26	O-ring	VITON	VITON	VITON
30	Packing	Graphite	Graphite	Graphite
58	Drain valve	Carbon steel	Carbon steel	Carbon steel
60	Screw	ASTM A193-B7/B7M	ASTM A320 L7	ASTM A193-B7M/B8
61	Gland flange	Carbon steel	Carbon steel	Carbon steel
63	Stopper	Carbon steel	Carbon steel	Carbon steel
64	Snap ring	Carbon steel	Carbon steel	Carbon steel
65	Lever	Carbon steel	Carbon steel	Carbon steel

● **Forged Trunnion Mounted Ball Valve**

2" ~ 4" Class600 ~ 1500、DN50 ~ 100 PN10.0 ~ 25.0



● **Technical Specification**

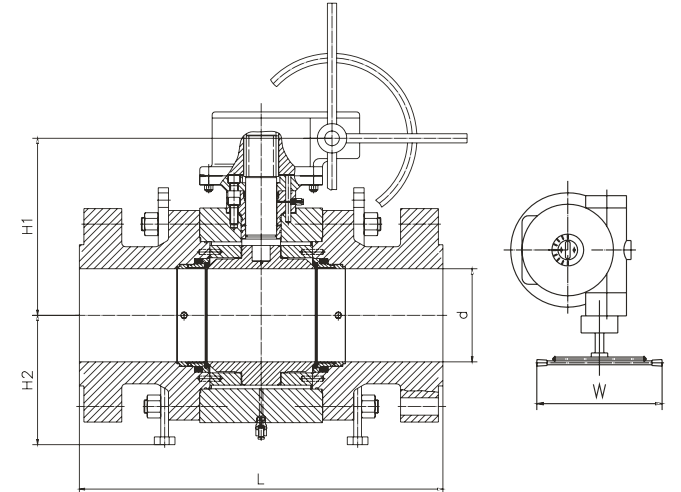
Temp. & pressure: ASME B16.34

Wall thickness: ASME B16.34

Bore dimension: API 6D

Face to face: ASME B16.10、API 6D

6" ~ 16" Class1500、DN150 ~ 400 PN25.0



Flanges dimensions: ASME B16.5

Test & inspection: API 6D

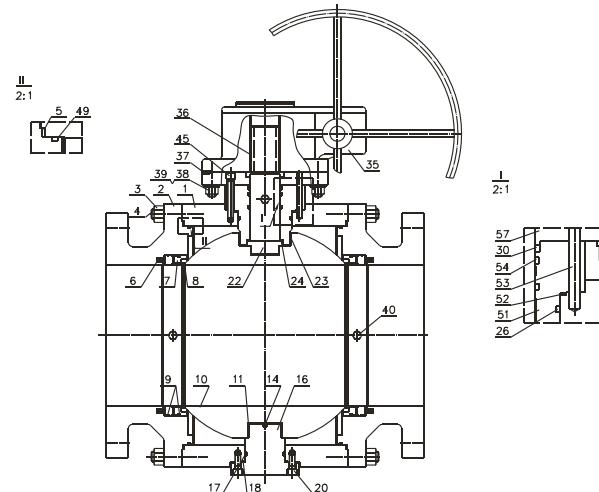
Body material: A105、LF2、LF3、F304、F316、F304L、F316L

● **Form of Major Part Material**

Parts No.	Parts Name	Materials		
		Carbon Steel	Low Temp. Steel	Stainless Steel
1	Body	ASTM A105	ASTM A350-LF2/LF3	ASTM A182-304/316
2	Bonnet	ASTM A105	ASTM A350-LF2/LF3	ASTM A182-304/316
3	Nut	ASTM A194-2H/2HM	ASTM A194 4	ASTM A194-2HM/8
4	Bolt	ASTM A193-B7/B7M	ASTM A320 L7	ASTM A193-B7M/B8
5	O-ring	VITON	VITON	VITON
6	Spring	INCONELX-750	INCONELX-750	INCONELX-750
7	Seat ring	ASTM A105	ASTM A350-LF2/LF3	ASTM A182-F304/F316
8	Seat insert	RPTFE	RPTFE	RPTFE
9	O-ring	VITON	VITON	VITON
10	Ball	ASTM A105	ASTM A182-F304	ASTM A182-F304/F316
11	Stem bearing	304+PTFE	304+PTFE	304+PTFE
13	Spring	ASTM A276-316	ASTM A276-316	ASTM A276-316
14	Spring	ASTM A276-316	ASTM A276-316	ASTM A276-316
16	Lower stem	ASTM A105	ASTM A182-F304	ASTM A182-F304/F316
17	O-ring	VITON	VITON	VITON
18	Gasket	304+Graphite	304+Graphite	304+Graphite
19	Screw	ASTM A193-B7/B7M	ASTM A320 L7	ASTM A193-B7M/B8
22	Stem	ASTM A182-F6a	ASTM A182-F304	ASTM A182-F304/316
23	Ball bearing	304+PTFE	304+PTFE	304+PTFE
24	Stem washer	304+PTFE	304+PTFE	304+PTFE
26	O-ring	VITON	VITON	VITON
30	Packing	Graphite	Graphite	Graphite
45	Screw	ASTM A193-B7/B7M	ASTM A320 L7	ASTM A193-B7M/B8
49	O-ring	VITON	VITON	VITON
51	Flange adapter	ASTM A105	ASTM A182-F304	ASTM A182-F304/316
52	Gasket	304+Graphite	304+Graphite	304+Graphite
54	O-ring	VITON	VITON	VITON
57	Gland	ASTM A105	ASTM A182-F304	ASTM A182-F304/316
58	Drain Valve	Carbon steel	Carbon steel	Stainless steel
60	Screw	ASTM A193-B7/B7M	ASTM A320 L7	ASTM A193-B7M/B8
61	Stopper	Carbon steel	Carbon steel	Carbon steel
62	Lever	Carbon steel	Carbon steel	Carbon steel

● **Forged Trunnion Mounted Ball Valve**

6" ~ 40" Class150 ~ 900、DN150 ~ 1000 PN2.0 ~ 15.0



● **Technical Specification**

Temp. & pressure: ASME B16.34

Wall thickness: ASME B16.34

Bore dimension: API 6D

Face to face: ASME B16.10、API 6D

Flanges dimensions: ASME B16.5(MSS SP-44)、BS1560

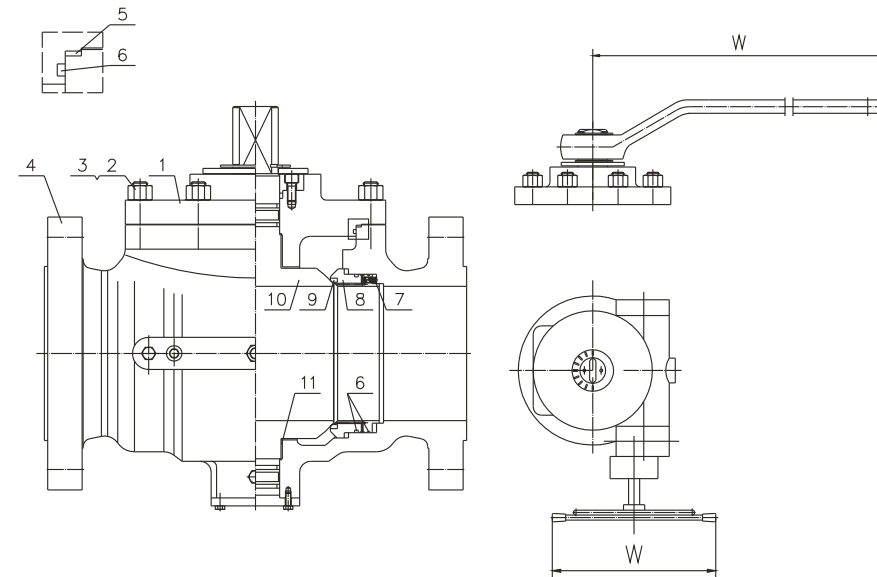
Test & inspection: API 6D、BS5146

Body material: A105、LF2、LF3、F304、F316、F304L、F316L

● **Form of Major Part Material**

Parts No.	Parts Name	Materials		
		Carbon Steel	Low Temp. Steel	Stainless Steel
1	Body	ASTM A105	ASTM A350-LF2/LF3	ASTM A182-304/316
2	Bonnet	ASTM A105	ASTM A350-LF2/LF3	ASTM A182-304/316
3	Nut	ASTM A194-2H/2HM	ASTM A194 4	ASTM A194-2HM/8
4	Bolt	ASTM A193-B7/B7M	ASTM A320 L7	ASTM A193-B7M/B8
5	O-ring	VITON	VITON	VITON
6	Spring	INCONELX-750	INCONELX-750	INCONELX-750
7	Seat ring	ASTM A105	ASTM A350-LF2/LF3	ASTM A182-F304/F316
8	Seat insert	RPTFE	RPTFE	RPTFE
9	O-ring	VITON	VITON	VITON
10	Ball	ASTM A105	ASTM A350-LF2/LF3	ASTM A182-F304/F316
11	Stem bearing	304+PTFE	304+PTFE	304+PTFE
14	Spring	ASTM A276-316	ASTM A276-316	ASTM A276-316
16	Lower stem	ASTM A105	ASTM A350-LF2/LF3	ASTM A182-F304/F316
17	O-ring	VITON	VITON	VITON
18	Gasket	304+Graphite	304+Graphite	304+Graphite
20	Screw	ASTM A193-B7/B7M	ASTM A320 L7	ASTM A193-B7M/B8
22	Upper stem	ASTM A182-F6a	ASTM A350-LF2/LF3	ASTM A182-F304/F316
23	Ball bearing	304+PTFE	304+PTFE	304+PTFE
24	Axial bearing	304+PTFE	304+PTFE	304+PTFE
26	O-ring	VITON	VITON	VITON
30	Packing	Graphite	Graphite	Graphite
35	Gear box	Cast iron	Cast iron	Cast iron
36	Key	ANSI 1045	ASTM A182-F304	ASTM A182-F304/F316
37	Screw	ASTM A193-B7/B7M	ASTM A320 L7	ASTM A193-B7M/B8
38	Nut	ASTM A194-2H/2HM	ASTM A194 4	ASTM A194-2HM/8
39	Spring gasket	65Mn	65Mn	65Mn
40	Injection valve	Carbon steel	Carbon steel	Stainless steel
45	Screw	ASTM A193-B7/B7M	ASTM A320 L7	ASTM A193-B7M/B8
49	O-ring	VITON	VITON	VITON
51	Flange adapter	ASTM A105	ASTM A182-F304	ASTM A182-F304/F316
52	Gasket	304+Graphite	304+Graphite	304+Graphite
53	Pin	Carbon steel	Carbon steel	Stainless steel
54	O-ring	VITON	VITON	VITON
57	Gland	ASTM A105	ASTM A182-F304	ASTM A182-F304/316
58	Drain Valve	Carbon steel	Carbon steel	Stainless steel

● **Top Entry Ball Valve**



● **Technical Specification**

Temp. & pressure: ASME B16.34、BS5351

Wall thickness: ASME B16.34、BS5351

Bore dimension: API 6D

Face to face: ASME B16.10、API 6D

Flanges dimensions: ASME B16.5(MSS SP-44)

Test & inspection: API 598、API 6D、BS5146

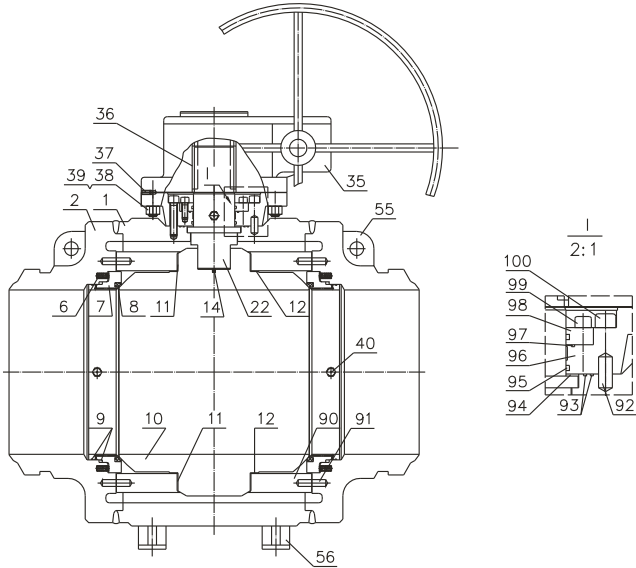
Body material: WCB、LCB、LCC、CF8、CF8M、CF3、CF3M

● **Form of Major Part Material**

Parts No.	Parts Name	Materials		
		Carbon Steel	Low Temp. Steel	Stainless Steel
1	Body	ASTM A216-WCB	ASTM A352-LCB/LCC	ASTM A351-CF8/CF8M
2	Bonnet	ASTM A216-WCB	ASTM A352-LCB/LCC	ASTM A351-CF8/CF8M
3	Nut	ASTM A194-2H/2HM	ASTM A194 4	ASTM A194- 8M/8
4	Bolt	ASTM A193-B7/B7M	ASTM A320 L7	ASTM A193-B8M/B8
5	Gasket	304+PTFE	304+PTFE	304+PTFE
6	O-ring	VITON	VITON	VITON
7	Spring	INCONELX-750	INCONELX-750	INCONELX-750
8	Seat ring	ASTM A105	ASTM A182 F304/F316	ASTM A182 F304/F316
9	Seat insert	RPTFE	RPTFE	RPTFE
10	Ball	ASTM A182-F6a	ASTM A182-F304	ASTM A182 F304/F316
11	Stem bearing	304+PTFE	304+PTFE	304+PTFE

●Full Weld Ball Valve

6" ~ 40" Class150 ~ 1500、DN150 ~ 1000 PN2.0 ~ 25.0



●Technical Specification

Temp. & pressure: ASME B16.34

Wall thickness: ASME B16.34

Bore dimension: API 6D

Face to face: ASME B16.10、API 6D

Flanges dimensions: ASME B16.25

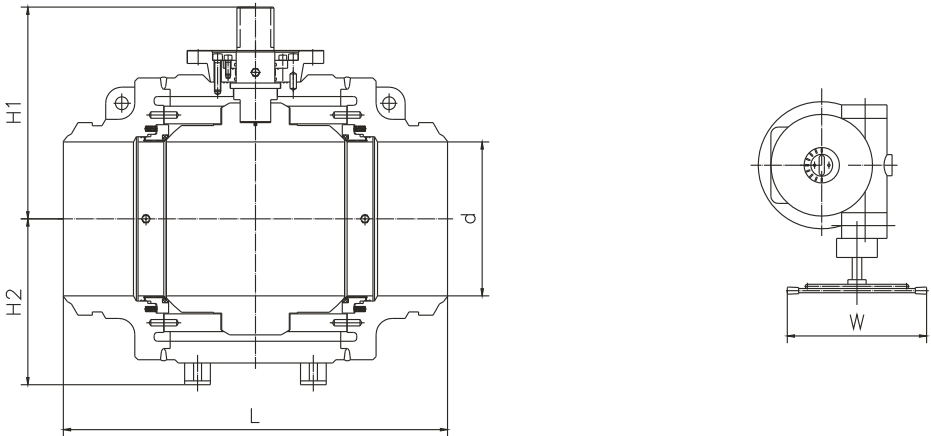
Test & inspection: API 6D、BS5146

Body material: A105、LF2、LF3、F304、F316、F304L、F316L

●Form of Major Part Material

Parts No.	Parts Name	Materials	Parts No.	Parts Name	Materials
		Carbon Steel			Carbon Steel
1	Body	ASTM A105	40	Injection valve	Carbon steel
2	Bonnet	ASTM A105	55	Stationary plante	Carbon steel
6	Spring	INCONELX-750	56	Support	Carbon steel
7	Seat ring	ASTM A105	58	Drain/Vent valve	Carbon steel
8	Seat insert	RPTFE/VITON	90	Trunnion	ASTM A105
9	O-ring	VITON	91	Parallel pin	ANSI 1025
10	Ball	ASTM A105	92	Pin	ANSI 1025
11	Radial bearing	304+PTFE	93	O-ring	VITON
12	Thust washer	304+PTFE	94	Stem washer	304+PTFE
14	Spring	ASTM A276-316	95	O-ring	VITON
22	Upper stem	ASTM A182-F6a	96	Gland	ASTM A105
35	Gear box	Cast iron	97	O-ring	VITON
36	Key	ANSI 1045	98	Backup ring	ASTM A105
37	Screw	ASTM A193-B7/B7M	99	Screw	ASTM A193-B7/B7M
38	Bolt	ASTM A193-B7/B7M	100	Screw	ASTM A193-B7/B7M
39	Hexagon nut	ASTM A194-2H/2HM			

●Full Weld Ball Valve



●Class150~900 Dimention & Weight

Class	NPS	Dimensions(mm)					Weight (kg)
		d	L	H ₁	H ₂	W	
150Lb 300Lb	6	152	457	303	185	460	185
	8	203	521	342	226	460	276
	10	254	559	378.5	272	705	385
	12	305	635	418	311	705	535
	14	337	762	455	348	705	735
	16	387	838	558	417	800	1585
	18	438	914	598	453	800	2340
	20	489	991	630	479	800	2520
	24	591	1143	705	587	800	3985
	26	635	1245	777	600	800	4800
	28	686	1346	800	650	800	5760
	30	737	1397	860	692	800	6715
600Lb	32	781	1524	908	736	800	8120
	6	152	558.8	309	245	460	230
	8	203	660.4	358	300	705	445
	10	254	787.4	409	340	705	658
	12	305	838.2	474.4	390	800	952
	14	337	889	502	428	800	1330
	16	387	990.6	532.3	475	800	2040
	18	438	1092.2	636	545	800	2890
	20	489	1193.8	674.8	570	800	3350
	22	540	1295.4	725	628	800	4165
	24	591	1397	765	700	800	5650

●Class900~1500 Dimention & Weight

Class	NPS	Dimensions(mm)					Weight (kg)
		d	L	H ₁	H ₂	W	
900Lb	6	152	609.6	305	300	705	330
	8	203	736.6	395	400	800	595
	10	254	838.2	430	430	800	935
	12	305	965.2	465	455	800	1485
	14	324	1028.7	545	545	800	1955
	16	375	1130.3	615	615	800	2975
	18	425.5	1219.2	685	645	800	4010
	20	473	1320.8	750	685	800	4710
	24	571.5	1549.4	895	775	800	8285
1500Lb	6	146	704.9	380	300	800	503
	8	194	831.9	490	400	800	795
	10	241	990.6	510	430	800	1615
	12	289	1130.3	560	460	800	1945
	14	317.5	1257.3	635	550	800	3350
	16	362	1384.3	685	620	800	4615