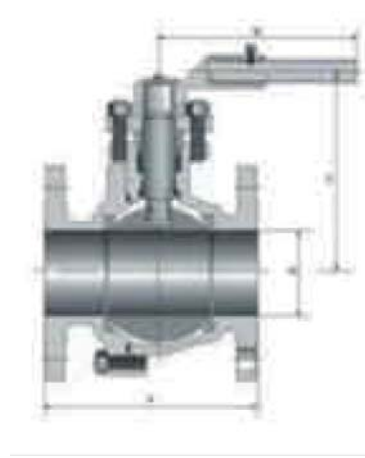
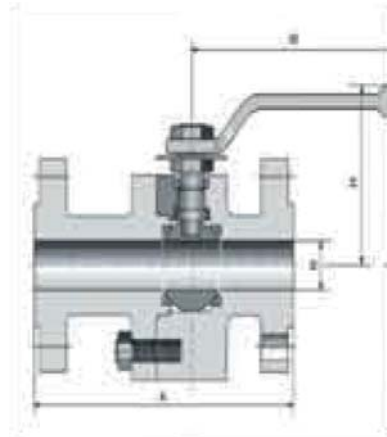


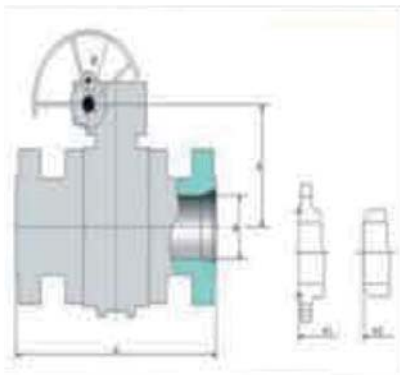
1 - PC Floating cast  
Serie 57



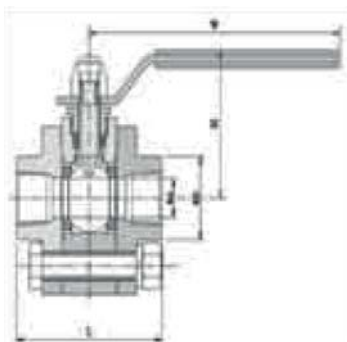
2- PC floating cast  
Series 58 and 59



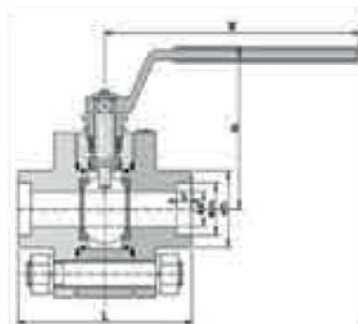
2-PC floating forged  
Series 58 and 59



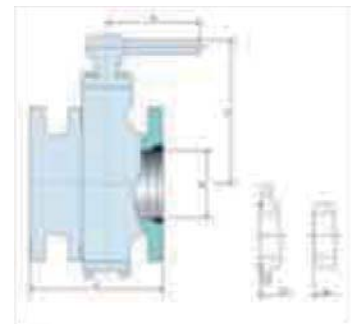
3-PC trunnion forged  
Series 70 and 71



Small size floating NPT  
Series 60

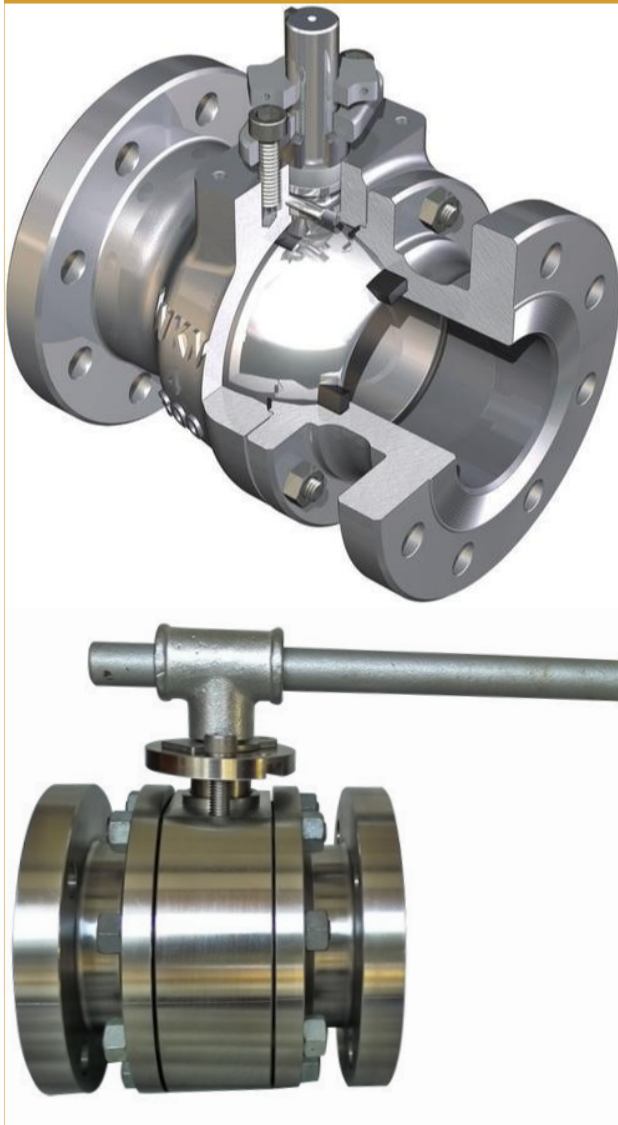


Small size floating SW  
Series 60



2-PC trunnion cast  
Series 68 and 69

## Floating Ball Valve



- Standards

Design and Manufacture: API 6D, BS 5351, ASME B16.34  
API 608, MSS-SP-72

Face to Face Dimension: ASME B16.10

Flange Connection Dimension: ASME B16.5

BW Connection Dimension: ASME B16.25

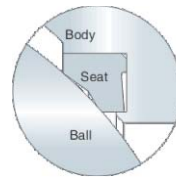
Test and Inspection: API 598

Fire-safe Design: API 607/6FA

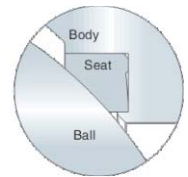
Anti-static Design & anti Blow-out Stem

- Application

Floating ball valves are suitable for various kinds of pipelines of Class 150 to Class 1500, and depending on requirements soft or metallic seats can be mounted 100% bubble tight shut off and quick operation at 90°, of which the operation types include manual, worm gear and pneumatic or electric actuators



At lower medium pressure

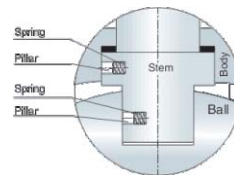


At higher medium pressure

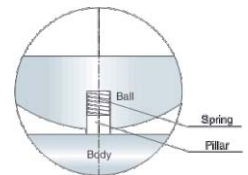
- Reliable seat seal

The structure design of elastic sealing ring has been adopted for floating ball valves. This seat design features a bigger sealing pressure ratio between the ring surface and the ball when medium pressure gets lower, where the contacting area is smaller. Thus, the reliable seal is ensured. When the medium pressure gets higher, the contacting area between seat ring and ball becomes bigger as the sealing ring transforms elastically to undertake the bigger force pushed by the medium without any damage.

- Anti-static feature



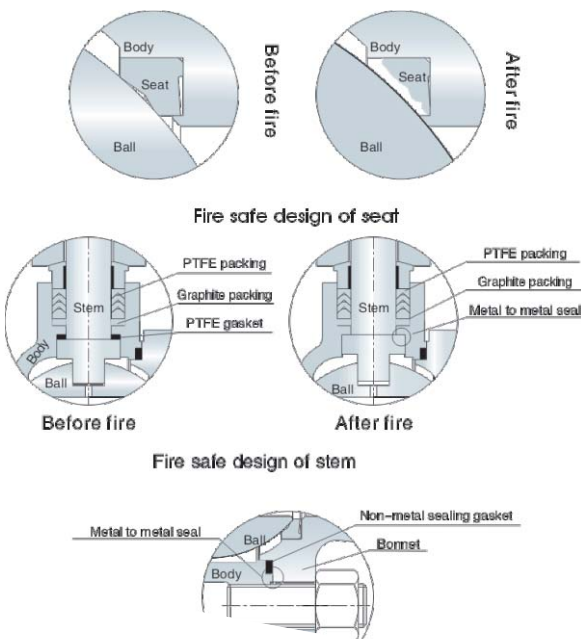
Anti-Static design for ball valve  $\geq 32\text{mm}$



Anti-Static design for ball valve  $\leq 25\text{mm}$

- Fire safe design

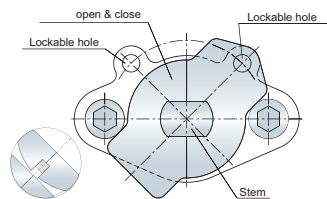
With the valve heated in a fire application, the non-metal material parts such as seat sealing ring of PTFE, stem back seat gasket, gland packing, and the sealing gasket between body and bonnet might disintegrate or damaged due to high temperature. Auxiliary metal to metal seal is provided to effectively prevent both internal and external leakage of the valve. As required by customers, our floating ball valves meet the requirement of API 607, API 6FA, BS 6755.



Fire safe design of valve body and bonnet flanges

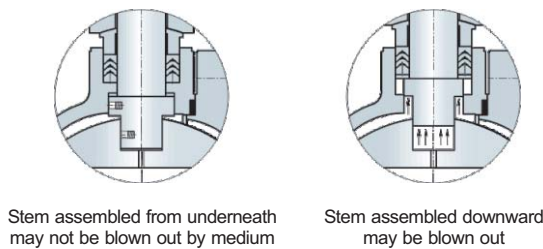
- Mounting pad provided

Our valves are being supplied with a ISO mounting pad and locking device features.

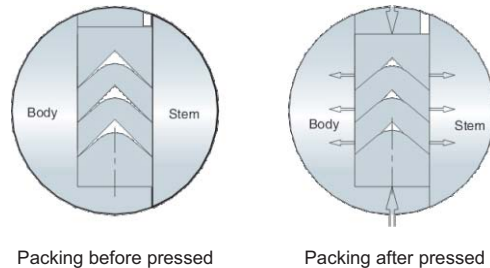


- Reliable stem seal

The blow-out proof design has been adopted for the stem to ensure that even if the pressure in the body cavity has risen accidentally and the stuffing box becomes invalid, the stem may not be blown out by medium. The stem features the design with a backseat, being assembled from underneath. The sealing force against the backseat gets higher as the medium pressure becomes higher. So the reliable seal of the stem can be assured under variable medium pressure.



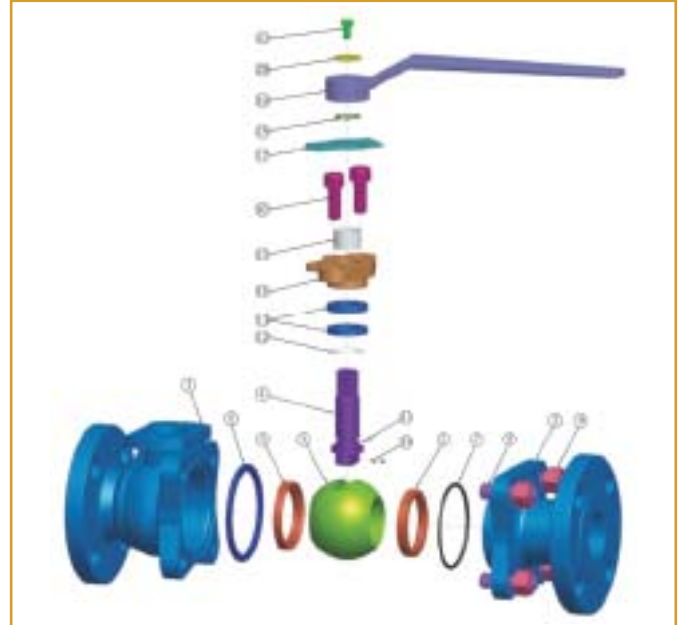
V type packing structure has been employed to effectively transform the pushing force of the gland flange and the medium pressure into the sealing force against the stem.



- Wrong operation prevention

To prevent the ball valve from wrong operation, the keylock with 90° of open and close positioning pad has been provided, which can be lockable as required. At the stem head, where the lever fixes, a flat is designed so that the valve opens with the lever in parallel to piping, and with the lever right-angled to the piping, the valve is closed. So, it is ensured that the indicator of open and close position, can never be wrong.





ASTM Material list of floating ball valve

No	Part Name	Carbon Steel to ASTM		Stainless Steel to ASTM			
1	Body	A216 WCB	A352 LCB	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
2	Bonnet	A216 WCB	A352 LCB	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
3	Ball	A351 CG8	A352 LCB	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M
4	Stem	A182 F6a	A182 F304	A182 F304	A182 F316	AA182 F304L	A182 F316L
5	Seat ring	FTFE, RTFE, PEEK, DELRIN					
6	Gasket	Graphite+SS304, PTFE					
7	O-ring	Fluororubber					
8	Bolt	A193 B7/B7M	A193 L7/L7M	A193 B8/B8M			
9	Nut	A194 2H/2HM	A194 4/4M	194 8/8M			
10	Small spring	SS304					
11	Small ball	SS304					
12	Thrust washer	PTFE					
13	Stem packing	Flexible Graphite/PTFE					
14	Packing gland	A216 WCB	A352 LCB	A351 CF8	A351 CF8M	A351 CF3	A351 CF8M
15	Shaft sleeve	PTFE					
16	Screw	A193 B7	A320 L7	A193 B8/B8M			
17	Positioning plate	Galvanized Steel					
18	Retaining ring	Carbon Steel					
19	Lever	Carbon Steel					
20	Gasket	Carbon Steel					
21	Screw	Carbon Steel					

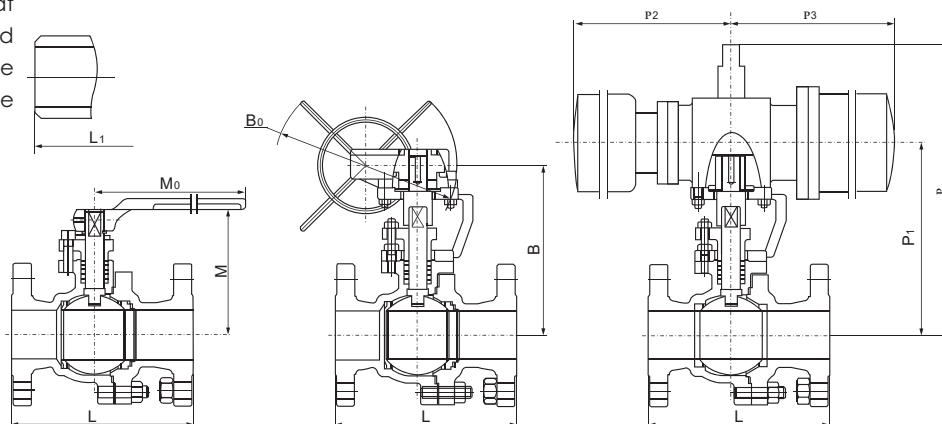
**Class ANSI 150**  
**Series 58**  
**Series 59 (API 6D)**  
**Series 53 (Full bore / API 6D)**

• Construction feature

Close joint and no leakage at middle flange. Anti-static and blow-out proof stem. Fire-safe design Split body Locking device ISO5211 mounting pad

• API 598 Pressure Test

Pressure ratings: Class 150  
 Hydraulic Shell test: 3.2 MPa  
 Hydraulic Seat test: 2.2 MPa  
 Air test: 0.6 MPa

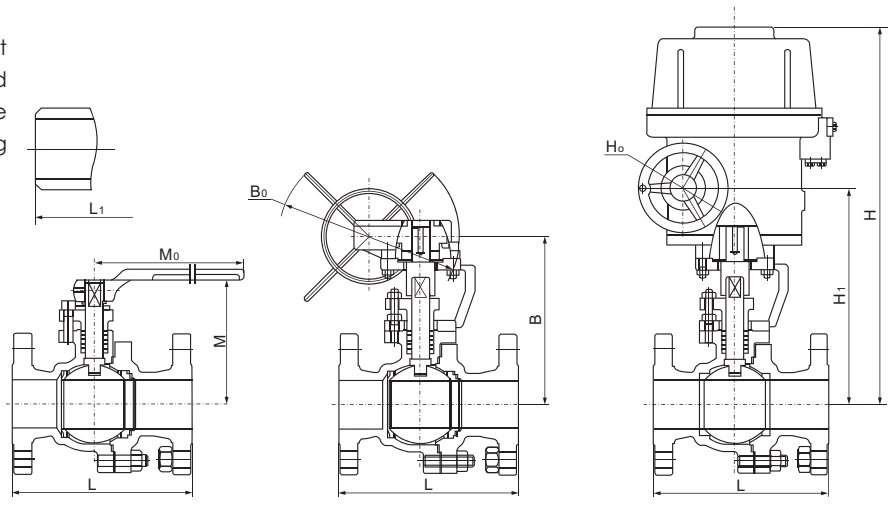


Pressure	Nominal diameter		Flange	Butt welding	Hand-operated		Worm gear		Air driving and hydraulic driving				Electric driving			Weight (Kg)	
	mm	in	L	L <sub>1</sub>	M	M <sub>0</sub>	B	B <sub>0</sub>	P	P <sub>1</sub>	P <sub>2</sub>	P <sub>3</sub>	H	H <sub>1</sub>	H <sub>0</sub>	RF	BW
<b>Class 150</b>	15	1/2	108	140	59	130	-	-	200	122	326	136	-	-	-	2.3	2
	20	3/4	117	152	63	130	-	-	204	126	326	136	-	-	-	3	2.5
	25	1	127	165	75	160	-	-	257	162	347	181	-	-	-	4.5	3.8
	32	1 1/2	140	178	95	230	-	-	245	169	420	181	-	-	-	5.2	4.3
	40	1 1/2	165	190.5	95	230	-	-	264	169	420	181	-	-	-	7	5.8
	50	2	178	216	107	230	-	-	340	209	426	257	472	377	190	15	12
	65	2 1/2	191	241	142	400	-	-	370	239	426	257	486	391	190	20	17
	80	3	203	283	152	400	-	-	389	258	490	257	579	484	190	25	21
	100	4	229	305	178	650	-	-	594	337	523	287	595	500	190	40	36
	125	5	356	381	252	1050	-	-	646	437	378	378	650	500	400	68	52
	150	6	394	457	272	1050	292	400	646	437	378	378	739	589	400	97	93
	200	8	457	521	342	1410	398	600	781	537	530	530	799	649	400	160	154

**Class ANSI 300  
Series 58  
Series 59 (API 6D)**

• Construction feature

Close joint and no leakage at middle flange. Anti-static and blow-out proof stem. Fire-safe design; Split body. Locking device ISO5211 mounting pad



• API 598 Pressure Test

Pressure ratings: Class 300  
Hydraulic test: 7.8 MPa  
Hydraulic test: 5.7 MPa  
Air test: 0.6 MPa

Pressure	Nominal diameter		Flange	Butt welding	Hand-operated		Worm gear		Air driving and hydraulic driving				Electric driving			Weight (Kg)	
	mm	in	L	L <sub>1</sub>	M	M <sub>0</sub>	B	B <sub>0</sub>	P	P <sub>1</sub>	P <sub>2</sub>	P <sub>3</sub>	H	H <sub>1</sub>	H <sub>0</sub>	RF	BW
<b>Class 300</b>	15	1/2	140	140	59	130	-	-	200	122	326	136	-	-	-	2.5	2.1
	20	3/4	152	152	63	130	-	-	204	126	326	136	-	-	-	3.5	3
	25	1	165	165	75	160	-	-	257	162	347	181	-	-	-	5.5	4.8
	32	1 1/4	178	178	95	230	-	-	245	169	420	181	-	-	-	7.6	5.9
	40	1 1/2	190.5	190.5	95	230	-	-	264	169	420	181	-	-	-	10.5	8.7
	50	2	216	216	107	230	-	-	340	209	426	257	472	377	190	20	17
	65	2 1/2	241	241	142	400	-	-	379	248	426	257	486	391	190	25	22
	80	3	283	283	152	400	-	-	452	295	490	257	579	484	190	31	28
	100	4	305	305	178	650	-	-	594	375	523	287	595	500	190	52	48
	125	5	381	381	252	1050	-	-	646	437	378	378	650	500	400	78	71
	150	6	403	403	272	1050	292	400	744	500	378	378	739	589	400	118	105
	200	8	502	521	342	1410	398	600	920	615	530	530	799	649	400	-	-

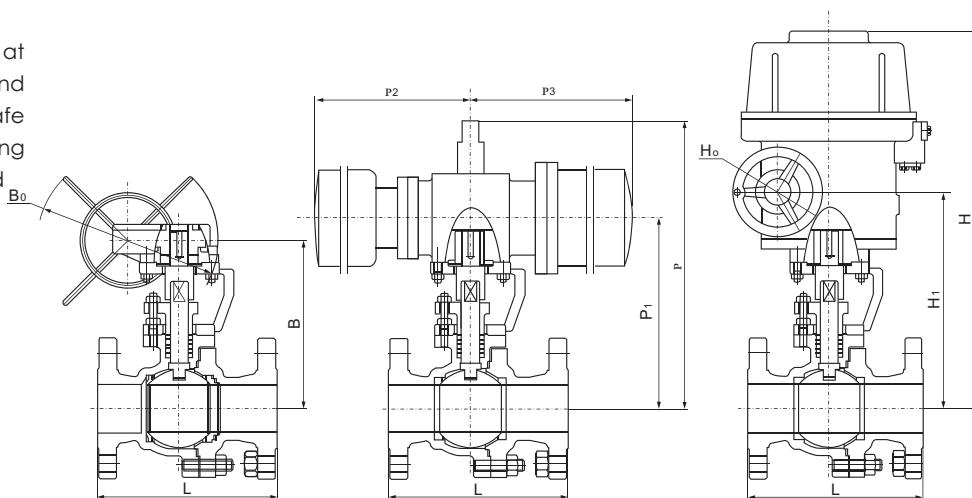
**Class ANSI 600  
Series 58  
Series 59 (API 6D)**

• Construction feature

Close joint and no leakage at middle flange. Anti-static and blow-out proof stem. Fire-safe design Split body. Locking device; ISO5211 mounting pad

• API 598 Pressure Test

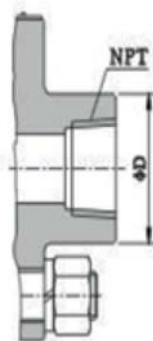
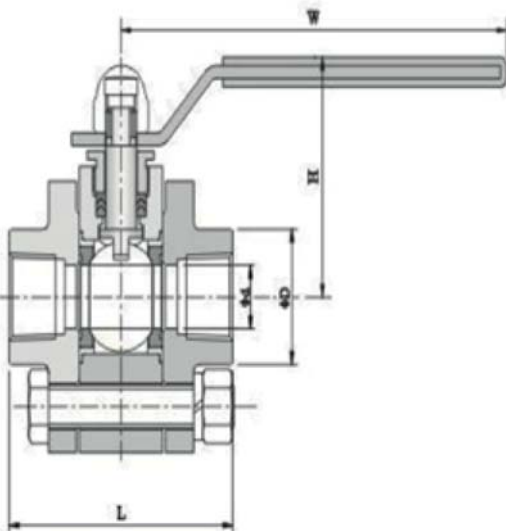
Pressure ratings: Class 600  
Hydraulic test: 15.6 MPa  
Hydraulic test: 11.4 MPa  
Air test: 0.6 MPa



Pressure	Nominal diameter		Flange	Butt welding	Hand-operated		Worm gear		Air driving and hydraulic driving				Electric driving			Weight (Kg)	
	mm	in	L	L <sub>1</sub>	M	M <sub>0</sub>	B	B <sub>0</sub>	P	P <sub>1</sub>	P <sub>2</sub>	P <sub>3</sub>	H	H <sub>1</sub>	H <sub>0</sub>	RF	BW
<b>Class 600</b>	15	1/2	165	165	59	160	-	-	200	122	326	136	-	-	-	7.5	6
	20	3/4	190.5	190.5	63	160	-	-	204	126	326	136	-	-	-	10.5	8.7
	25	1	216	216	75	230	-	-	257	162	347	181	-	-	-	14.5	11
	32	1 1/4	178	178	95	230	-	-	245	169	420	181	-	-	-	16.1	13.1
	40	1 1/2	241	241	95	400	-	-	264	169	420	181	-	-	-	18.5	14.7
	50	2	292	292	167	400	-	-	340	209	426	257	472	377	400	38	31
	65	2 1/2	330	330	180	650	-	-	379	248	426	257	599	449	400	56	49
	80	3	356	356	198	650	292	400	452	295	490	257	599	449	400	66	58
	100	4	432	432	198	1050	398	600	594	375	378	378	632	472	400	76	68
	150	6	559	559	-	-	400	800	650	425	378	378	650	430	400	-	-
200	8	660	660	-	-	430	800	680	485	530	530	710	490	400	-	-	

## Floating Ball valves, small sizes, female threaded Forged carbon steel.

### SERIES 60



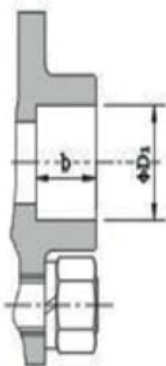
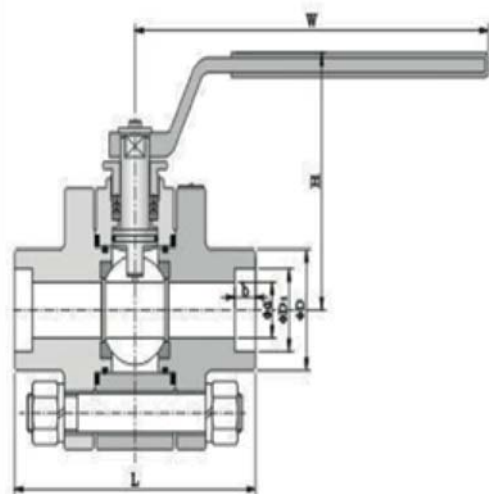
Class	Size	Dimensions (mm)				
	Inch	L	d	D	H	W
600 800	1/2	72	14	32	60	125
	3/4	86	19	37	73	140
	1	100	25	46	75	150
	1 1/4	120	32	56	80	180
	1 1/2	130	38	64	125	250
	2	140	51	86	162	350
900 1500	1/2	130	14	36	90	180
	3/4	140	19	42	95	200
	1	150	25	50	106	220
	1 1/4	180	32	58	115	250
	1 1/2	200	38	70	125	250
	2	250	51	86	150	350

For detailed dimensions and configurations, please ask us for our detailed drawing arrangements



## Floating Ball valves, small sizes, socket weld Forged carbon steel.

### SERIES 60



Class	Size	Dimensions (mm)						
	Inch	L	d	D	H	W	D <sub>1</sub>	b
600 800	1/2	72	14	32	60	125	22	10
	3/4	86	19	37	73	140	27.3	13
	1	100	25	46	75	150	34	13
	1 1/4	120	32	56	80	180	42.8	13
	1 1/2	130	38	64	125	250	48,9	13
	2	140	51	86	162	350	61.4	16
900 1500	1/2	130	14	36	90	180	22	10
	3/4	140	19	42	95	200	27.3	13
	1	150	25	50	106	220	34	13
	1 1/4	180	32	58	115	250	42.8	13
	1 1/2	200	38	70	125	250	48.9	13
	2	250	51	86	150	350	61.4	16

For detailed dimensions and configurations, please ask us for our detailed drawing arrangements

## Trunnion Ball Valve



- Construction feature

Design and Manufacture: API 6D, BS 5351, ASME B16.34  
API 608, MSS-SP-72

Face to Face Dimension: ASME B16.10

End flange dimension: ASME B16.5 (NPS≤24) ASME B16.47 series A and B, or MSS SP-44( NPS>24)

BW Connection Dimension: ASME B16.25

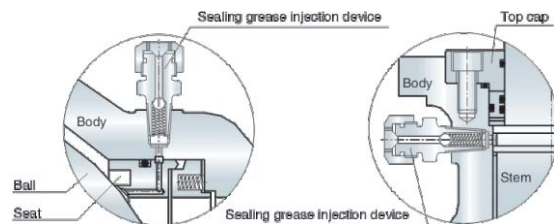
Test and Inspection: API 598

Fire-safe design: API 607/6FA

Anti-static design & anti Blow-out Stem

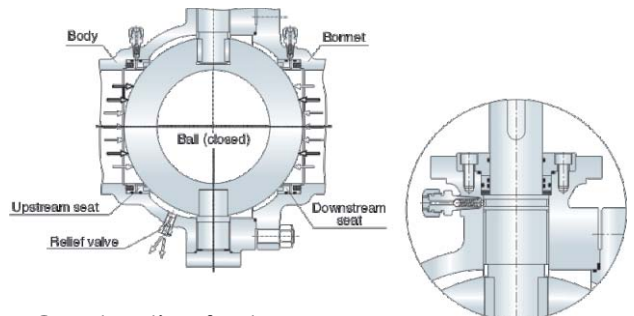
- Construction feature

According to customers' requirement, the trunnion ball valves are provided with devices for urgent grease injection, which are on both the stem and seat for the trunnion ball valves of DN>150mm (NPS6), and in the body cavity for the valve of DN<125mm. When the O-ring of stem or the body seat ring is damaged due to accident, the medium leakage between body and stem can be prevented by injecting the sealing grease through the device.



- Construction feature

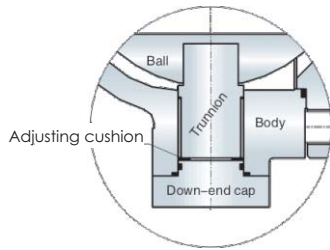
Each seat of the ball valve can separately cut off the medium at both inlet and outlet of the valve to realize double-block functions. When the ball valve is closed, body cavity and two of the body ends can be blocked with each other even if both the inlet and outlet are under pressure, when the medium left in the body cavity might be bled through the relief valve.



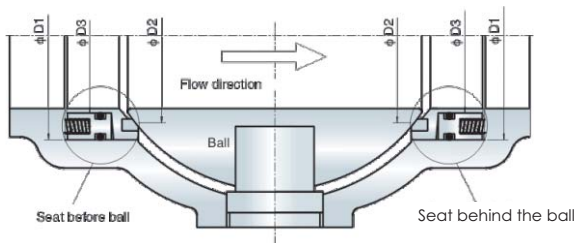
- Construction feature

Blow-out proof structure is provided with for the stem, which is positioned by the up-end cap and screw, being guaranteed not to be blown-out by the medium even if at abnormal risen pressure in the cavity.

- Anti-static design

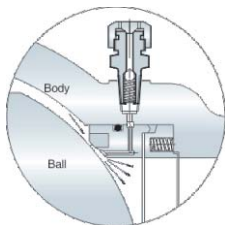


- The Bi-sealing design structure



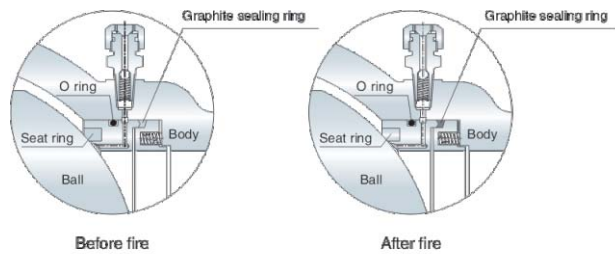
- Body cavity relief

As the liquid medium left in the body cavity gasifies due to increased temperature, the pressure in the body cavity becomes abnormally higher, in which case the medium itself in the cavity would propel the seat and self-relieves the pressure to ensure the safety of valve.

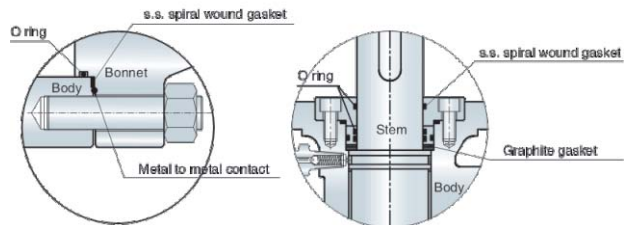


- Fire safe design

With the valve heated in a fire application, the non-metal material parts such as seat sealing ring of PTFE, O ring for the stem, and sealing gasket for body and bonnet, might be damaged due to high temperature. Our special design of auxiliary metal to metal or the graphite seal is provided to effectively prevent both internal and external leakage of the valve. Our fire safe design for the trunnion ball valve meets the requirement of API 607, API 6Fa, BS 6755.



Fire safe design of seat

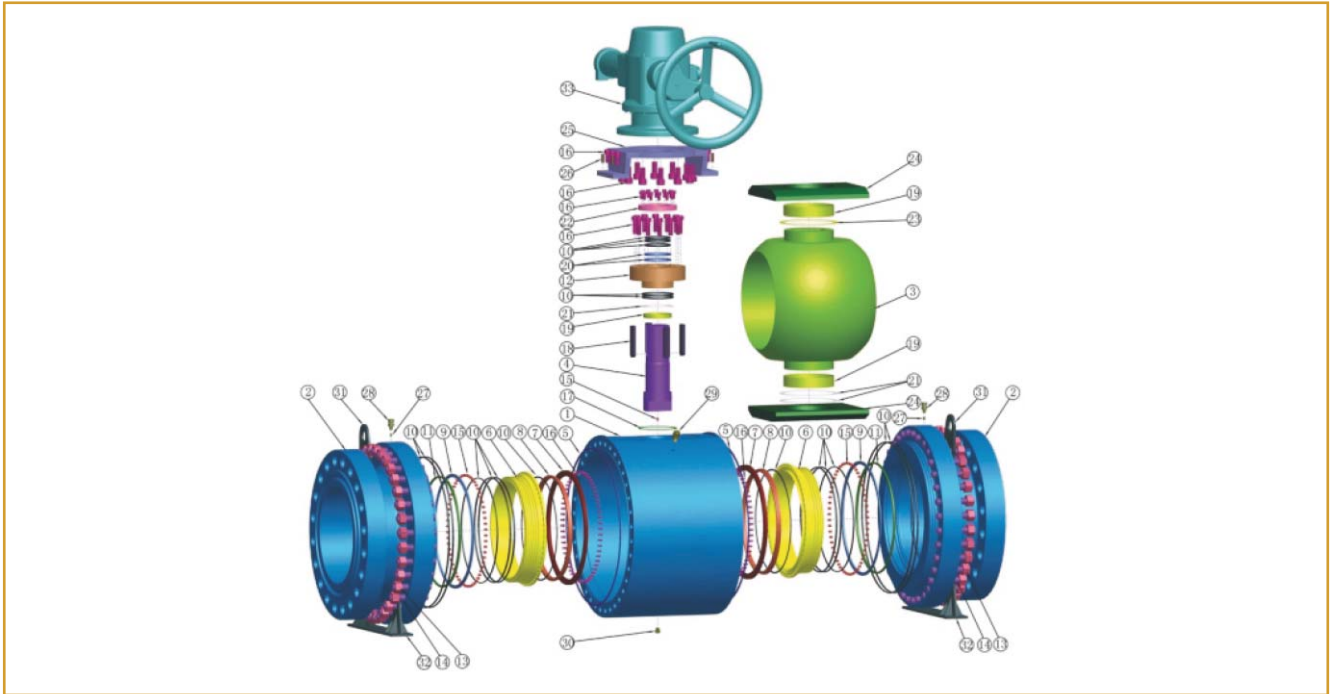


Fire safe design of valve body and bonnet flanges

Fire safe design of stem

- Mounting pad provided acc. to ISO

Mounting pad for fixing the actuators, such as worm gear, pneumatic, electric, hydraulic, and pneumatic & hydraulic actuators, is incorporated.



ASTM Material list of cast steel trunnion mounted ball valve

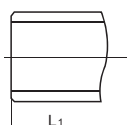
No	Part Name	Carbon Steel to ASTM		Stainless Steel to ASTM				
1	Body	ASTM A105N	A350 LF2	A182 F304	A182 F316	A182 F304L	A182 F316L	A182 F51
2	Bonnet	ASTM A105N	A350 LF2	A182 F304	A182 F316	A182 F304L	A182 F316L	A182 F51
3	Ball	A351 CF8	A350 LF2	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M	CD4MCU
4	Stem	A182 F6a	A182 F304	A182 F304	A182 F316	A182 F304L	A182 F316L	A182 F51
5	Gasket	SS304 +Graphite, PDPE						
6	Seat	A105N+ENP	LF2+ENP	A182 F304	A182 F316	A182 F304L	A182 F316L	A182 F51
7	Clamping ring	A105N+ENP	LF2+ENP	A182 F304	A182 F316	A182 F304L	A182 F316L	A182 F51
8	Seat ring	PTFE, RTFE, PEEK, DELRIN						
9	Seat back	A105N+ENP	LF2+ENP	A182 F304	A182 F316	A182 F304L	A182 F316L	A182 F51
10	O-ring	Fluororubber						
11	Seat gasket	Flexible Graphite						
12	Stuffing box	A105N+ENP	LF2+ENP	A182 F304	A182 F316	A182 F304L	A182 F316L	A182 F51
13	Bolt	A193 B7/B7M	A320 L7/L7M	A193 B8/B8M				
14	Nut	A194 2H/2HM	A194 4/4M	A194 8/8M				
15	Spring	INCONEL X-750						
16	Screw	A193 B7	A320 L7	A193 B8/B8M				
17	Gasket	PTFE						
18	Flat key	Carbon Steel						
19	Shaft sleeve	PTFE						
20	Stem packing	PTFE Flexible Graphite						
21	Thrust washer	PTFE						
22	Packing gland	ASTM A105N	A320 LF2	A182 F304	A182 F316	A182 F304L	A182 F316L	A182 F51
23	Shaft sleeve	PTFE						
24	Support plate	ASTM A105N	A320 LF2	A182 F304	A182 F316	A182 F304L	A182 F316L	A182 F51
25	Yoke	Carbon Steel						
26	Pin	Carbon Steel						
27	Small check valve	ASTM A105N	A320 LF2	A182 F304	A182 F316	A182 F304L	A182 F316L	A182 F51
28	Grease injector	Carbon steel	Carbon steel	A182 F304	A182 F316	A182 F304L	A182 F316L	A182 F51
29	Vent plug	Carbon steel	Carbon steel	A182 F304	A182 F316	A182 F304L	A182 F316L	A182 F51
30	Drain plug	Carbon steel	Carbon steel	A182 F304	A182 F316	A182 F304L	A182 F316L	A182 F51
31	Lifting lug	Carbon Steel						
32	Support feet	Carbon Steel						

Suitable for H<sub>2</sub>S service and meet requirement of NACE MR 0175.

## Series 71

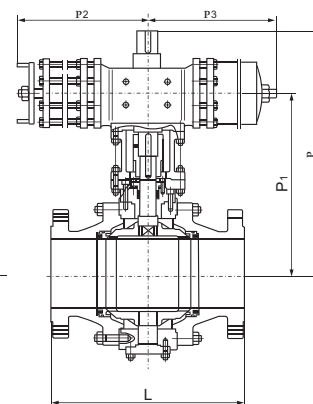
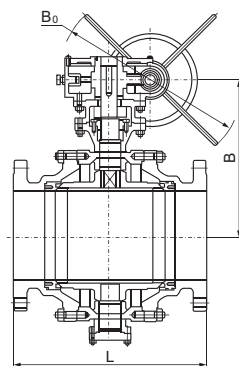
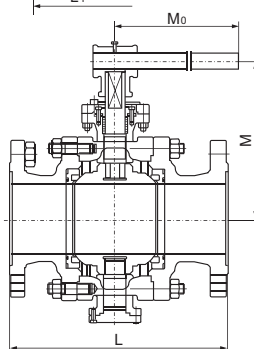
- Construction feature

Close joint and no leakage at middle flange  
 Anti-static and blow-out proof stem  
 Fire-safe design; Split body; Locking device  
 Self-relieving seat; Emergency sealing device;  
 ISO5211 mounting pad



- Construction feature

Pressure ratings: Class 150  
 Hydraulic Shell test: 3.2 MPa  
 Hydraulic Seat test: 2.2 MPa  
 Air test: 0.6 MPa



Pressure	Nominal diameter		Flange	Butt welding	Hand-operated		Worm gear		Air driving and hydraulic driving				Electric driving			Weight (Kg)	
	mm	in	L	L1	M	Mo	B	B0	P	P1	P2	P3	H	H1	H0	RF	BW
Class 150	50	2	178	216	107	230	-	-	270	174	89	181	-	-	-	12	11
	65	2 <sup>1/2</sup>	190.5	241	125	400	-	-	380	248	148	257	-	-	-	16	15
	80	3	203	283	152	400	-	-	390	258	148	257	-	-	-	22	21
	100	4	229	305	178	650	-	-	480	322	287	287	-	-	-	35	34
	125	5	356	381	300	1050	-	-	555	395	287	287	-	-	-	58	55
	150	6	394	457	330	1050	-	-	665	457	378	378	554	337	200	74	72
	200	8	457	521	-	-	400	600	805	595	378	378	600	382	200	205	201
	250	10	533	559	-	-	495	600	840	630	378	378	652	435	200	322	310
	300	12	610	635	-	-	580	800	975	728	530	530	761	480	280	460	447
	350	14	686	762	-	-	625	800	1130	883	530	530	771	520	280	576	536
	400	16	762	838	-	-	670	800	1460	1154	680	680	831	580	280	864	814
	450	18	864	914	-	-	698	800	1530	1224	680	680	921	670	305	1280	1210
	500	20	914	991	-	-	840	800	1560	1294	680	680	943	770	305	1600	1500
	600	24	1067	1143	-	-	1050	800	1145	915	1455	1455	1123	850	305	3540	3000
	700	28	1245	1346	-	-	1100	800	1160	930	1455	1455	1218	945	400	4500	3710
	800	32	1372	1524	-	-	1150	800	1460	1100	1665	1665	1328	1055	400	5940	4870
900	36	1524	1727	-	-	1230	800	1540	1180	1665	1665	1696	1130	460	7540	6010	
1000	40	1753	1956	-	-	1320	800	1630	1280	1960	1960	1925	1240	460	9320	7400	

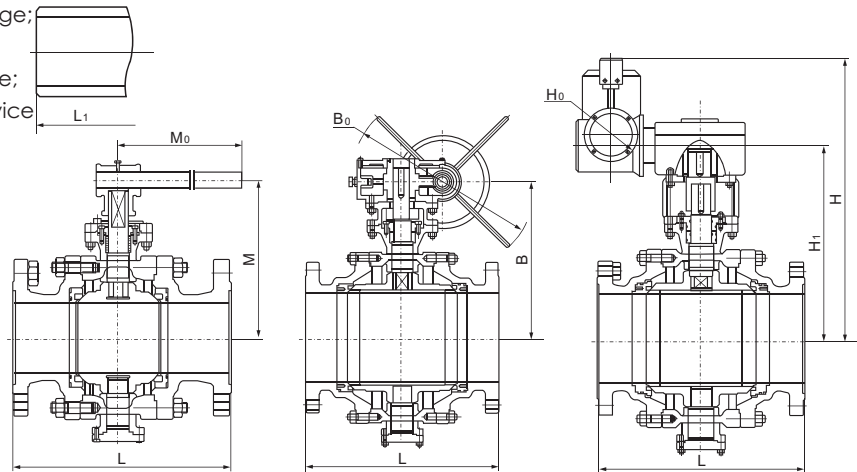
## Series 71

- Construction feature

Close joint and no leakage at middle flange;  
 Anti-static and blow-out proof stem;  
 Fire-safe design; Split body; Locking device;  
 Self-relieving seat; Emergency sealing device  
 ISO5211 mounting pad.

- API 598 Pressure Test

Pressure ratings: Class 300  
 Hydraulic Shell test: 7.8 MPa  
 Hydraulic Seat test: 5.7 MPa  
 Air test: 0.6 MPa



Pressure	Nominal diameter		Flange	Butt welding		Hand-operated		Worm gear		Air driving and hydraulic driving				Electric driving			Weight (Kg)	
	mm	in	L	L <sub>1</sub>	M	M <sub>0</sub>	B	B <sub>0</sub>	P	P <sub>1</sub>	P <sub>2</sub>	P <sub>3</sub>	H	H <sub>1</sub>	H <sub>0</sub>	RF	BW	
<b>Class 300</b>	50	2	216	216	107	230	-	-	270	210	148	181	-	-	-	15	11	
	65	2 <sub>1/2</sub>	241	241	125	400	-	-	380	250	148	257	-	-	-	24	18	
	80	3	283	283	152	400	-	-	390	295	287	287	-	-	-	30	22	
	100	4	305	305	178	650	-	-	455	325	287	287	-	-	-	55	45	
	125	5	381	381	300	1050	-	-	580	390	378	378	-	-	-	87	69	
	150	6	403	403	330	1050	-	-	595	390	378	378	554	337	200	118	98	
	200	8	502	521	-	-	400	600	595	530	378	378	600	382	200	255	225	
	250	10	568	559	-	-	495	600	736	700	530	530	652	435	200	370	330	
	300	12	648	635	-	-	580	800	945	750	530	530	761	480	280	533	493	
	350	14	762	762	-	-	625	800	995	885	680	680	771	520	280	640	600	
	400	16	838	838	-	-	670	800	1280	975	680	680	831	580	280	1030	930	
	450	18	914	914	-	-	698	800	1480	1080	680	680	921	670	305	1540	1400	
	500	20	991	991	-	-	840	800	1555	1155	1455	1455	943	770	305	2100	1900	
	600	24	1143	1143	-	-	1050	800	1380	930	1455	1455	1123	850	305	3430	2860	
	700	28	1346	1346	-	-	1100	800	1430	980	1665	1665	1218	945	400	4960	4140	
	800	32	1524	1524	-	-	1150	800	1750	1150	1665	1665	1328	1055	400	6760	5640	
	900	36	1727	1727	-	-	1230	800	1540	1180	1960	1960	1696	1130	460	9640	8040	
1000	40	2083	2083	-	-	1320	800	1630	1280	1960	1960	1925	1240	460	11730	9680		

## Series 71

- Construction feature

Close joint and no leakage at middle flange;

Anti-static and blow-out proof stem;

Fire-safe design; Split body; Locking device;

Self-relieving seat; Emergency sealing device; B<sub>0</sub>

ISO5211 mounting pad.

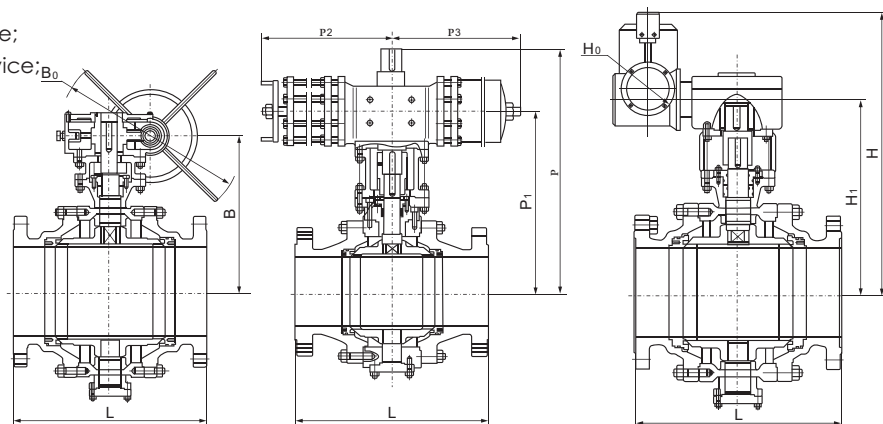
- API 598 Pressure Test

Pressure ratings: Class 600

Hydraulic Shell test: 15.6 MPa

Hydraulic Seat test: 11.4 MPa

Air test: 0.6 MPa



Pressure	Nominal diameter		Flange	Butt welding	Hand-operated		Worm gear		Air driving and hydraulic driving				Electric driving			Weight (Kg)	
	mm	in	L	L <sub>1</sub>	M	M <sub>0</sub>	B	B <sub>0</sub>	P	P <sub>1</sub>	P <sub>2</sub>	P <sub>3</sub>	H	H <sub>1</sub>	H <sub>0</sub>	RF	BW
<b>Class 600</b>	50	2	292	292	110	230	-	-	270	210	150	257	-	-	-	35	29
	65	2 1/2	330	330	155	400	-	-	-	-	-	-	-	-	-	38	31
	80	3	356	356	200	400	-	-	520	295	287	287	-	-	-	55	45
	100	4	406	406	-	-	235	600	640	325	287	287	-	-	-	102	78
	150	6	495	495	-	-	300	800	730	390	378	378	554	337	200	232	182
	200	8	597	597	-	-	375	800	840	530	378	378	600	382	200	390	310
	250	10	673	673	-	-	445	800	1015	700	530	530	652	480	200	710	590
	300	12	762	762	-	-	515	800	1120	750	530	530	761	520	280	960	790
	350	14	826	826	-	-	550	800	1225	885	680	680	771	594	280	1700	1490
	400	16	902	902	-	-	615	800	1480	1080	680	680	831	632	280	1970	1720
	450	18	978	978	-	-	750	800	-	-	-	-	921	670	305	2180	1830
	500	20	1054	1054	-	-	810	800	1480	1080	680	680	943	770	305	3250	2770
	600	24	1232	1232	-	-	1050	800	1365	915	1665	1665	1123	850	305	4880	4030
	700	28	1397	1397	-	-	1100	800	1430	980	1665	1665	1218	945	460	6700	5610
	800	32	1651	1651	-	-	1180	800	-	-	-	-	1328	1055	460	8470	7060
	900	36	1880	1880	-	-	1275	800	-	-	-	-	1815	1130	600	12080	10070
1000	40	2300	2300	-	-	1370	800	-	-	-	-	1925	1240	600	15420	12850	

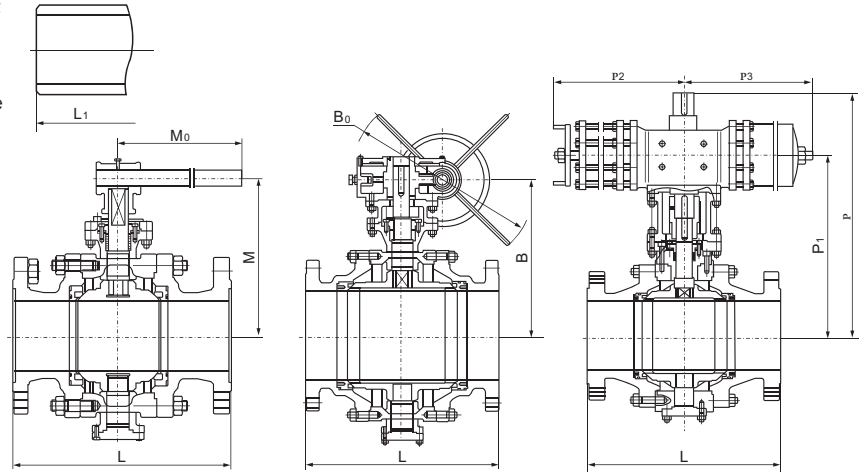
## Series 71

- Construction feature

Close joint and no leakage at middle flange;  
 Anti-static and blow-out proof stem;  
 Fire-safe design; Split body; Locking device;  
 Self-relieving seat; Emergency sealing device  
 ISO5211 mounting pad.

- API 598 Pressure Test

Pressure ratings: Class 900  
 Hydraulic Shell test: 23.3 MPa  
 Hydraulic Seat test: 17.1 MPa  
 Air test: 0.6 MPa



Pressure	Nominal diameter		Flange	Butt welding	Hand-operated		Worm gear		Air driving and hydraulic driving				Electric driving			Weight (Kg)	
	mm	in	L	L1	M	M0	B	B0	P	P1	P2	P3	H	H1	H0	RF	BW
Class 900	50	2	292	292	110	650	-	-	270	210	150	257	-	-	-	50	40
	65	2 <sup>1/2</sup>	330	330	155	650	-	-	-	-	-	-	-	-	-	75	60
	80	3	356	356	200	650	-	-	520	295	287	287	-	-	-	92	70
	100	4	432	432	-	-	235	600	640	480	287	287	-	-	-	146	109
	150	6	559	559	-	-	300	800	730	520	378	378	600	382	200	339	264
	200	8	660	660	-	-	375	800	840	595	530	530	652	480	200	640	540
	250	10	787	787	-	-	445	800	1015	770	530	530	761	520	280	960	800
	300	12	838	838	-	-	515	800	1120	810	680	680	771	594	280	1330	1110
	350	14	889	889	-	-	550	800	1225	1005	1445	1445	831	632	280	1640	1370
	400	16	991	991	-	-	615	800	1375	1155	1445	1445	921	670	305	2240	1910
	450	18	1092	1092	-	-	750	800	-	-	-	-	943	770	305	2770	2310
	500	20	1194	1194	-	-	810	800	1490	1210	1665	1665	1123	850	305	3740	3120
	600	24	1397	1397	-	-	1050	800	1615	1335	1665	1665	1218	945	400	5560	4640
	700	28	1549	1549	-	-	1180	800	1760	1410	1960	1960	1328	1055	400	8070	6730
	800	32	1778	1778	-	-	1250	800	-	-	-	-	1458	1135	600	11000	9170
	900	36	2083	2083	-	-	1315	800	-	-	-	-	1855	1170	600	15700	13090
1000	40	2337	2337	-	-	1420	800	-	-	-	-	1960	1285	600	20040	16700	



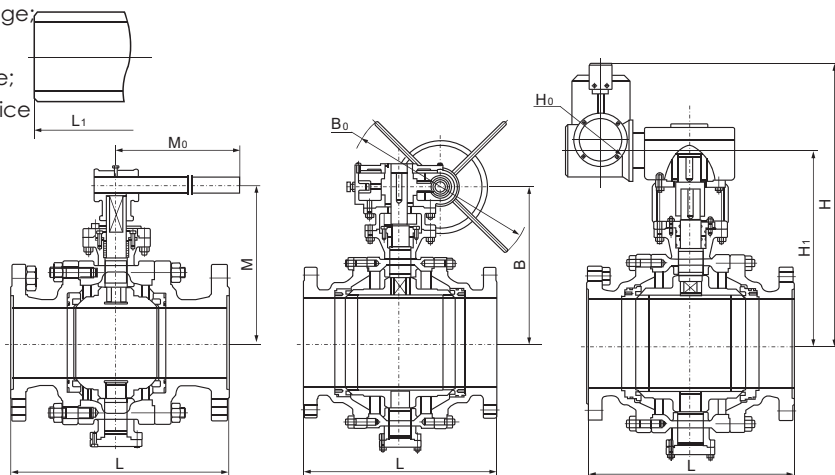
## Series 71

- Construction feature

Close joint and no leakage at middle flange;  
 Anti-static and blow-out proof stem;  
 Fire-safe design; Split body; Locking device;  
 Self-relieving seat; Emergency sealing device  
 ISO5211 mounting pad.

- API 598 Pressure Test

Pressure ratings: Class 1500  
 Hydraulic Shell test: 38.8 MPa  
 Hydraulic Seat test: 28.5 MPa  
 Air test: 0.6 MPa



Pressure	Nominal diameter		Flange	Butt welding		Hand-operated		Worm gear		Air driving and hydraulic driving				Electric driving			Weight (Kg)	
	mm	in	L	L1	M	M0	B	B0	P	P1	P2	P3	H	H1	H0	RF	BW	
<b>Class 1500</b>	50	2	368	368	220	650	-	-	520	295	287	287	-	-	-	50	40	
	65	2½	419	419	240	650	-	-	-	-	-	-	-	-	-	75	60	
	80	3	381	381	260	650	-	-	730	520	378	378	-	-	-	117	82	
	100	4	457	457	-	-	300	600	845	595	530	530	600	382	200	216	150	
	150	6	610	610	-	-	365	800	1015	770	530	530	761	520	280	532	414	
	200	8	737	737	-	-	395	800	1120	815	680	680	771	594	280	870	677	
	250	10	838	838	-	-	505	800	1225	1005	1445	1445	831	632	280	1467	1132	
	300	12	965	965	-	-	575	800	1375	1155	1445	1445	921	670	305	2270	1777	
	350	14	1029	1029	-	-	675	800	1490	1210	1665	1665	943	770	305	3240	2590	
	400	16	1130	1130	-	-	765	800	1615	1335	1665	1665	1123	850	305	4645	3780	
	450	18	1219	1219	-	-	870	800	1760	1410	1960	1960	1218	945	400	6035	4810	
	500	20	1321	1321	-	-	895	800	1760	1410	1960	1960	1328	1055	400	8077	6555	
	600	24	1549	1549	-	-	960	800	1760	1410	1960	1960	1458	1135	600	12357	9900	
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**KASKO DEMİRÇELİK MAKİNE VE İNŞAAT SANAYİ TİCARET LİMİTED ŞİRKETİ**

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