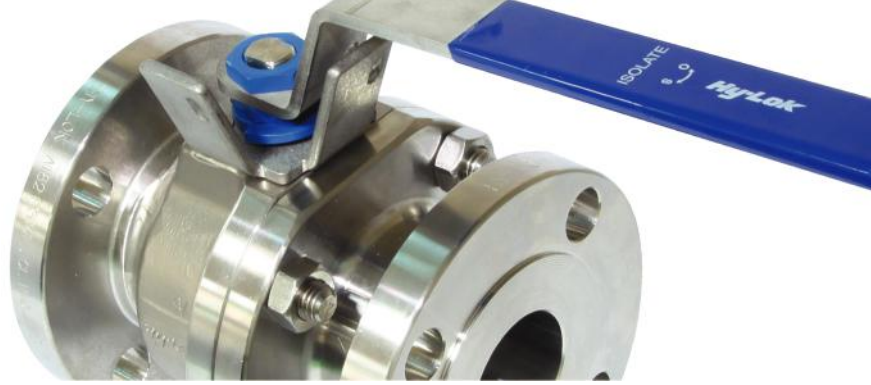




www.hy-lok.com

Catalog No. H-6D6ABV
Feb. 2019



API 6D & 6A Ball Valves

Floating & Trunnion Mounted Valves
Screwed Ball Valves



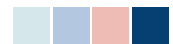
- **Size :**
From 1/2" up to 12"
From 1 13/16" up to 4 1/16"
- **Rating :**
From ASME Class 150 up to 2500
From API 3000 psi up to 10000 psi

HY-LOK CORPORATION

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FOR A BETTER



All Your Solution Provider “HY-LOK”



TOMORROW

Introduction

Hy-Lok's ball valves designed according to API 6D & 6A and recognized for its production of API 6D & 6A Ball Valves, Double Block & Bleed Valves. With long experience, provides world-class engineered valve products and services to onshore, offshore plants across the globe. We provide leadership in design, manufacture and technical services for ball valves, using reliability data from our unique performance evaluation systems.

Specifications

Body Materials :

Carbon Steel

- A105 A216 WCB

Low Temperature Carbon Steel

- A350 LF2 A352 LCB A352 LCC

Low Alloy Steel

- A694 F60 A694 F65

Austenitic Stainless Steel

- A182 F316/F316L A351 CF8M A351 CF3M

Duplex Stainless Steel

- A182 F51(UNS S31803) A182 F53(UNS S32750)

Nickel Alloys

- Inconel 625(UNS N06625) Monel 400(UNS N04400)

Seat Materials :

- PTFE(Glass) : Class150 to 300, - 46°C to 200°C
- PTFE(Carbon) : Class150 to 300, - 46°C to 200°C
- PCTFE : Class150 to 2500, - 196°C to 150°C
- PEEK : Class150 to 2500, - 46°C to 220°C

Seal Materials :

- HNBR : Class150 to 2500, - 46°C to 150°C
- FKM GLT : Class150 to 2500, - 46°C to 220°C
- FKM AED : Class150 to 2500, - 29°C to 220°C
- PTFE/Elgiloy : Class150 to 2500, - 196°C to 200°C

Quality Standards

American Petroleum Institute

- API 6D API 6A API 598 API 607 API Q1:2013

American Society of Mechanical Engineers

- ASME B16.5 ASME B16.10 ASME B16.25 ASME B16.34 ASME B46.1 ASME B31.3 ASME B31.8

International Organization for Standardization

- ISO 9001:2015 ISO 14001 ISO 45001

Manufacturers Standardization Society

- MSS SP6 MSS SP25 MSS SP44 MSS SP55 MSS SP61 MSS SP72

National Association of Corrosion Engineer

- NACE MR0175 / ISO 15156

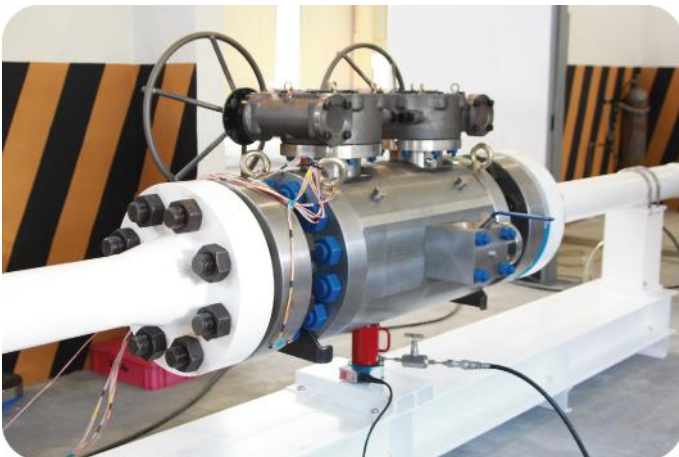
R&D and Testing Facilities



Testing Facilities for valves up to 12 in.



Hydraulic testing on an 10 in.
Top Entry Ball Valve



Bending stress testing on an 6 in.
Double Block & Bleed Valve



Cryogenic testing on an 8 in.
Top Entry Ball Valve



High temperature testing on an 6 in.
Double Block & Bleed Valve



Fire safety testing on an 6 in.
Top Entry Ball Valve

API 6D Floating Ball Valves

Product Range

2-Piece Body Construction - Cast Iron

- 1/2 in. to 4 in. & Class 150, 300, 600

2-Piece Body Construction - Forged Steel

- 1/2 in. to 4 in. & Class 150, 300
- 1/2 in. to 2 in. & Class 600

3-Piece Body Construction - Forged Steel

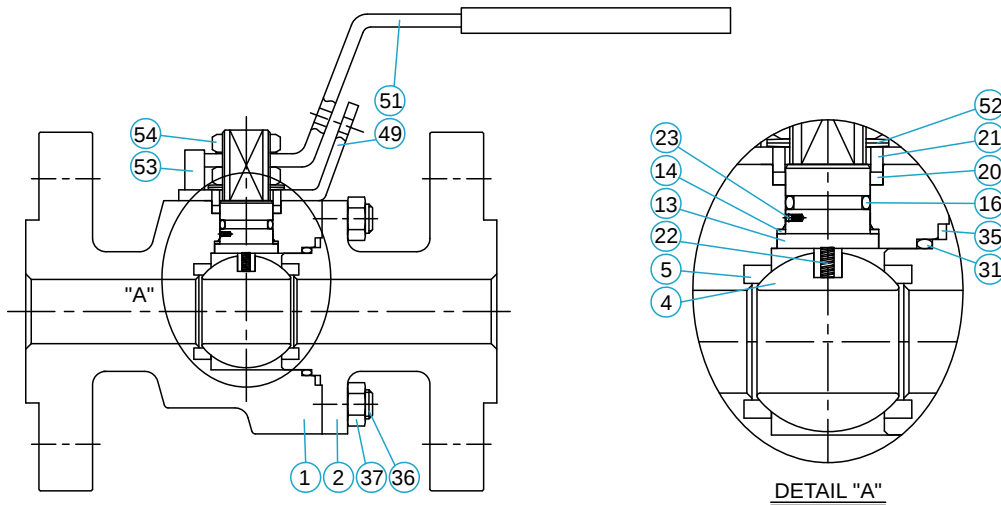
- 1/2 in. to 2 in. & Class 1500, 2500

Features & Benefits

- Complete split body design.
- Anti-static & Blow-out proof stem.
- Bi-direction flow.
- Locking device handle.
- Available extended bonnet.
- Fire safety design(API 607).

End Connections

- ASME B16.5 RF/FF/RTJ Flanged
- ASME B16.25 Butt Weld

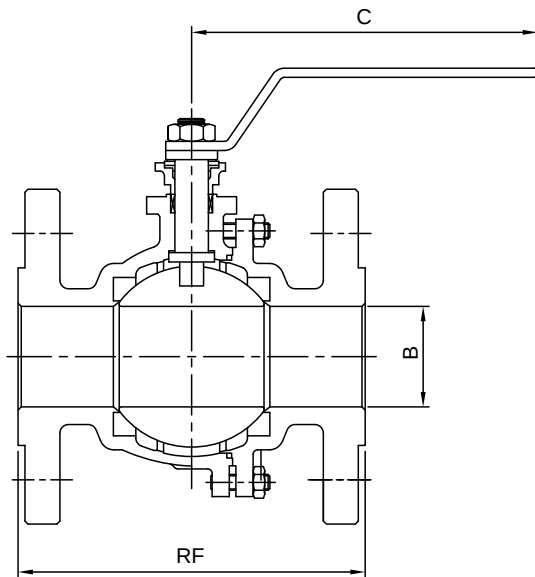


No.	Designator	No.	Designator
1	BODY	23	ANTI STATIC BALL
2	END FLANGE	31	END O-RING
4	BALL	35	END SEAL
5	SEAT	36	END BOLT
13	STEM	37	END NUT
14	STEM THRUST WASHER	49	LOCKING PLATE
16	STEM O-RING	51	LEVER HANDLE
20	STEM PACKING	52	STEM WASHER
21	STEM PACKING GLAND	53	STOP BOLT
22	ANTI STATIC SPRING	54	STEM NUT

API 6D Floating Ball Valves

Flange Ends

1/2 in. to 4 in. & Class 150, 300



ASME Class 150 Full Bore

Size (in.)	Flange End		Dimensions (mm)		Weight(Kg)
	RF	RTJ	B	C	
1/2	108	-	15	160	1.8
3/4	117	-	20	160	3.0
1	127	-	25	180	3.6
1 1/2	165	-	38	200	8.0
2	178	-	51	200	9.0
3	203	-	76	320	23.0
4	229	-	102	420	35.0

ASME Class 300 Full Bore

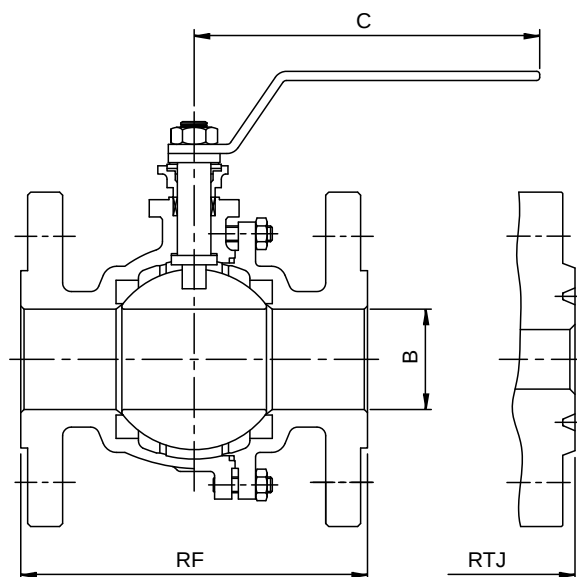
Size (in.)	Flange End		Dimensions (mm)		Weight(Kg)
	RF	RTJ	B	C	
1/2	140	-	15	160	3.0
3/4	152	-	20	160	4.0
1	165	-	25	180	5.3
1 1/2	190	-	38	200	10.0
2	216	-	51	200	16.0
3	282	-	76	320	31.0
4	305	-	102	420	51.0

All dimensions are in millimeters(inchs) reference only, subject to change.

API 6D Floating Ball Valves

Flange Ends

1/2 in. to 4 in. & Class 600



ASME Class 600 Full Bore

Size (in.)	Flange End		Dimensions (mm)		
	RF	RTJ	B	C	Weight(Kg)
1/2	165	165	15	245	3.2
3/4	191	191	20	245	5.4
1	216	216	25	245	7.5
1 1/2	241	241	38	270	17.0
2	292	295	51	380	23.0
3	356	359	76	450	48.0
4	432	435	102	600	80.0

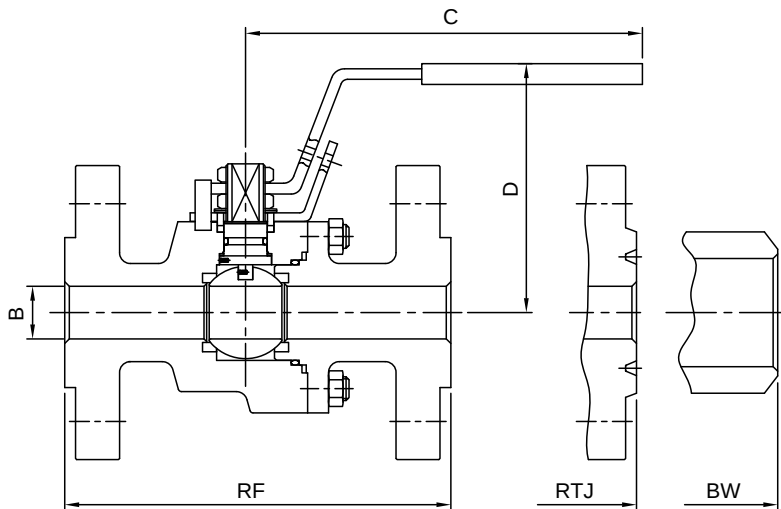
All dimensions are in millimeters(inchs) reference only, subject to change.

API 6D & 6A Ball Valves

API 6D Floating Ball Valves

Flange & Butt Weld Ends

1/2 in. to 4 in. & Class 150, 300



ASME Class 150 Full Bore

Size (in.)	Flange & Butt Weld End			Dimensions in. (mm)			Weight(Kg)
	RF	RTJ	BW	B	C	D	
1/2	108	-	-	14	120	85	2.2
3/4	117	-	-	19	160	100	3.2
1	127	140	-	25	160	110	4.6
1 1/2	165	178	191	38	260	130	9.6
2	178	191	216	50	260	135	13.2
3	203	216	282	76	400	200	31.0
4	229	242	305	100	435	240	54.0

ASME Class 300 Full Bore

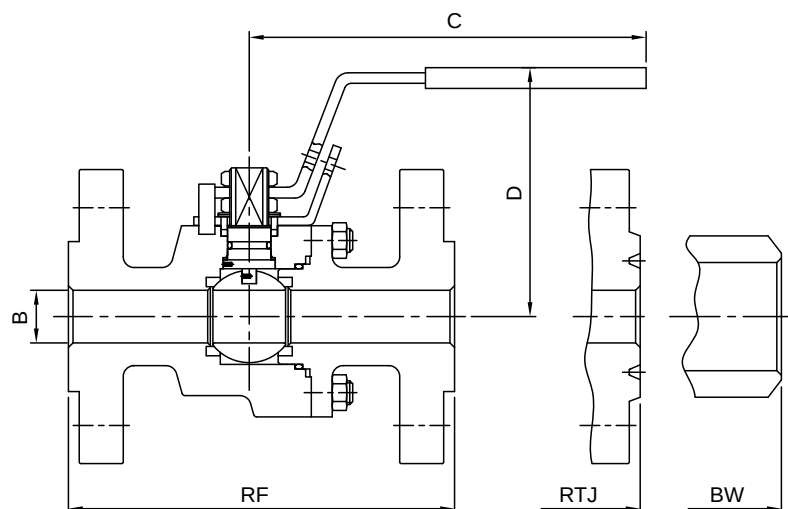
Size (in.)	Flange & Butt Weld End			Dimensions in. (mm)			Weight(Kg)
	RF	RTJ	BW	B	C	D	
1/2	140	151	-	14	120	85	3.2
3/4	152	165	-	19	160	100	4.7
1	165	178	-	25	160	110	6.2
1 1/2	190	203	191	38	260	130	13.0
2	216	232	216	50	260	135	16.8
3	282	298	282	76	400	200	40.0
4	305	321	305	100	435	230	77.3

All dimensions are in millimeters(inchs) reference only, subject to change.

API 6D Floating Ball Valves

Flange & Butt Weld Ends

1/2 in. to 2 in. & Class 600



ASME Class 600 Full Bore

Size (in.)	Flange & Butt Weld End			Dimensions in. (mm)			Weight(Kg)
	RF	RTJ	BW	B	C	D	
1/2	165	163	-	14	120	85	3.4
3/4	191	191	-	19	160	100	5.4
1	216	216	-	25	160	110	7.5
1 1/2	241	241	-	38	260	130	17.2
2	292	295	292	50	300	155	28.0

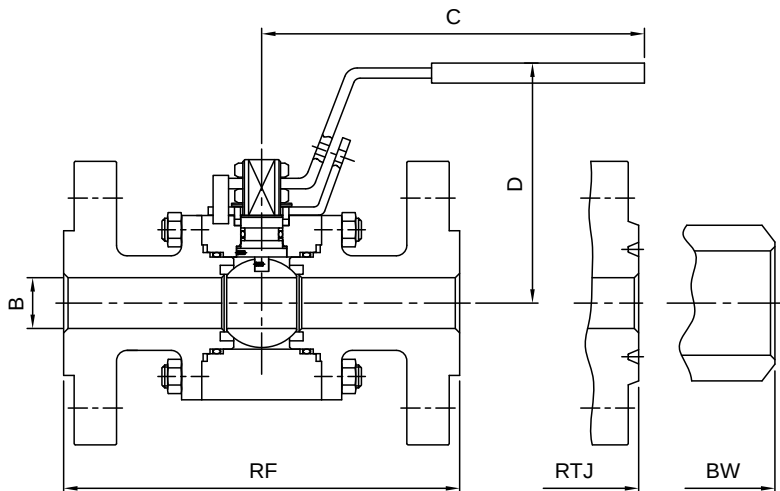
All dimensions are in millimeters(inchs) reference only, subject to change.

API 6D & 6A Ball Valves

API 6D Floating Ball Valves

Flange & Butt Weld Ends

1/2 in. to 2 in. & Class 1500, 2500



ASME Class 1500 Full Bore

Size (in.)	Flange & Butt Weld End			Dimensions in. (mm)			Weight(Kg)
	RF	RTJ	BW	B	C	D	
1/2	216	216	216	14	135	110	7.1
3/4	229	229	229	19	160	100	9.2
1	254	254	254	25	260	115	14.5
1 1/2	305	305	305	38	290	155	29.0
2	368	371	368	50	600	190	58.0

ASME Class 2500 Full Bore

Size (in.)	Flange & Butt Weld End			Dimensions in. (mm)			Weight(Kg)
	RF	RTJ	BW	B	C	D	
1/2	264	264	264	14	135	130	11.0
3/4	273	273	273	19	260	105	15.0
1	308	308	308	25	260	115	22.1
1 1/2	384	387	384	38	600	165	45.0
2	451	454	451	42	700	270	85.0

All dimensions are in millimeters(inchs) reference only, subject to change.

API 6D Trunnion Ball Valves

Product Range

3-Piece Body Construction - Forged Steel

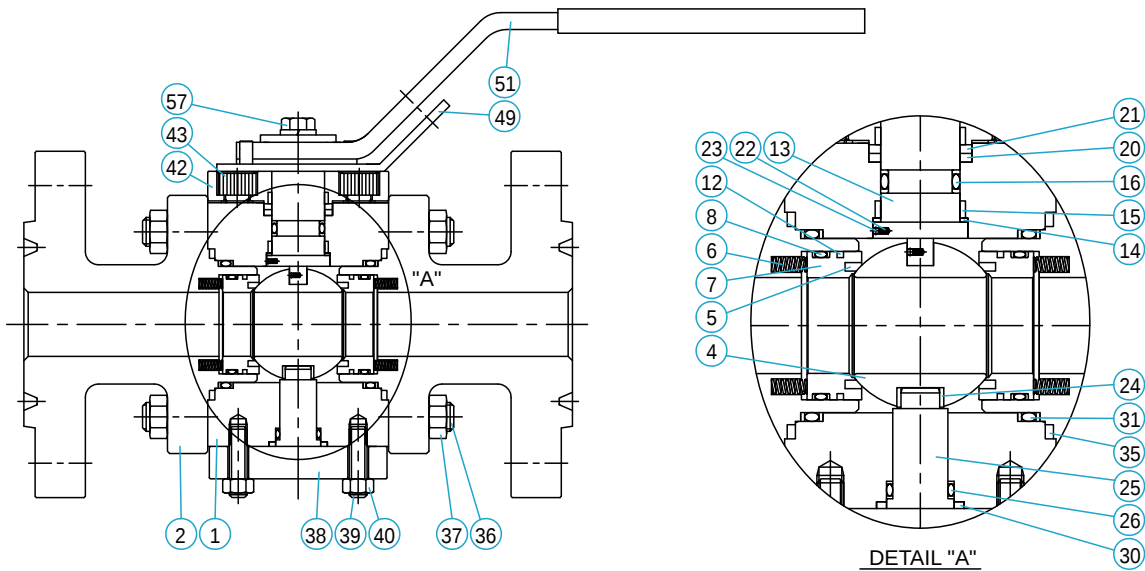
- 2 in. to 12 in. & Class 150, 300, 600, 900
- 2 in. to 8 in. & Class 1500, 2500

Features & Benefits

- Complete split body design.
- Anti-static & Blow-out proof stem.
- Bi-direction flow.
- Locking device handle.
- Fire safety design(API 607).

End Connections

- ASME B16.5 RF/FF/RTJ Flanged
- ASME B16.25 Butt Weld

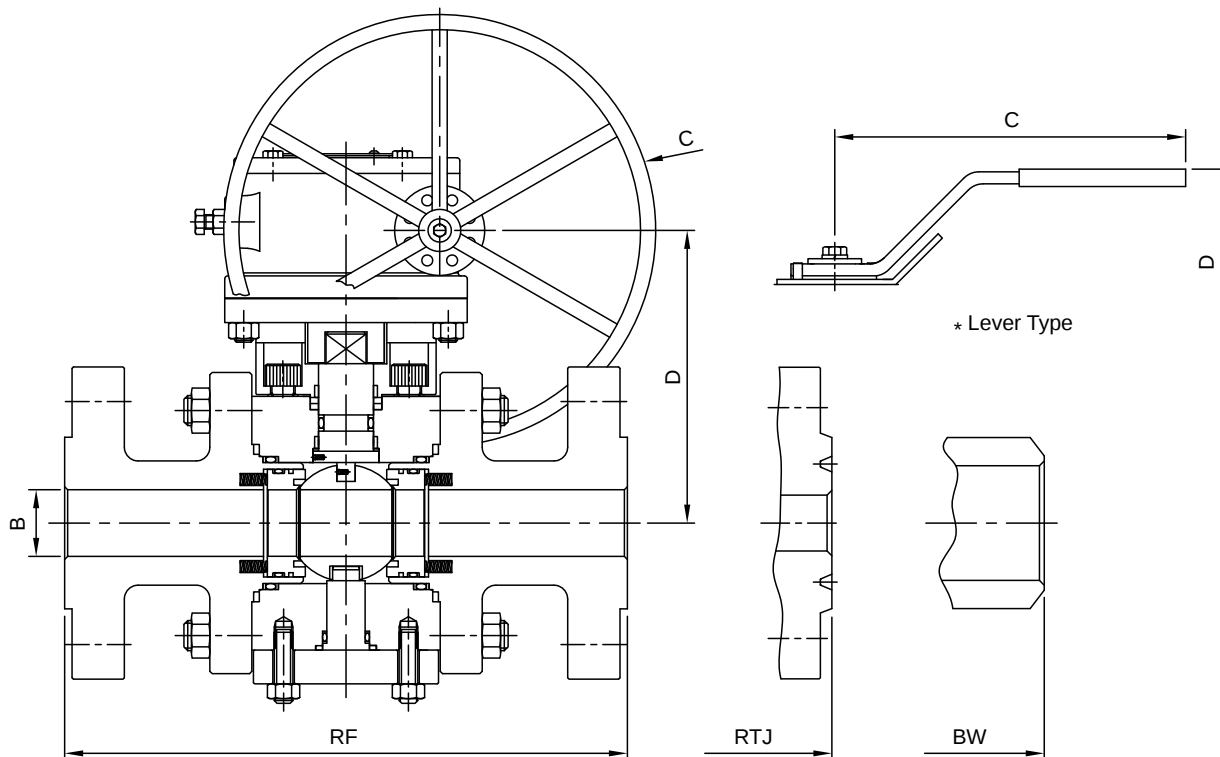


No.	Designator	No.	Designator	No.	Designator
1	BODY	16	STEM O-RING	36	END BOLT
2	END FLANGE	20	STEM PACKING	37	END NUT
4	BALL	21	STEM PACKING GLAND	38	LOWER COVER
5	SEAT	22	ANTI STATIC SPRING	39	LOWER COVER BOLT
6	SEAT RETAINER SPRING	23	ANTI STATIC BALL	40	LOWER COVER NUT
7	SEAT RETAINER	24	TRUNNION BEARING	42	COVER
8	SEAT RETAINER O-RING	25	TRUNNION	43	COVER BOLT
12	SEAT RETAINER SEAL	26	TRUNNION O-RING	49	LOCKING PLATE
13	STEM	30	LOWER COVER SEAL	51	LEVER HANDLE
14	STEM THRUST WASHER	31	END O-RING	57	LEVER BOLT
15	STEM UPPER BEARING	35	END SEAL		

API 6D Trunnion Ball Valves

Flange & Butt Weld Ends

2 in. to 12 in. & Class 150, 300



ASME Class 150 Full Bore

Size (in.)	Flange & Butt Weld End			Dimensions in. (mm)			Weight(Kg)
	RF	RTJ	BW	B	C	D	
2	178	191	216	50	*260	135	23
3	203	216	282	76	*400	200	45
4	229	242	305	100	*435	240	75
6	394	407	457	150	400	288	185
8	457	470	521	201	500	340	270
10	533	546	559	252	500	385	405
12	610	623	635	303	560	415	585

ASME Class 300 Full Bore

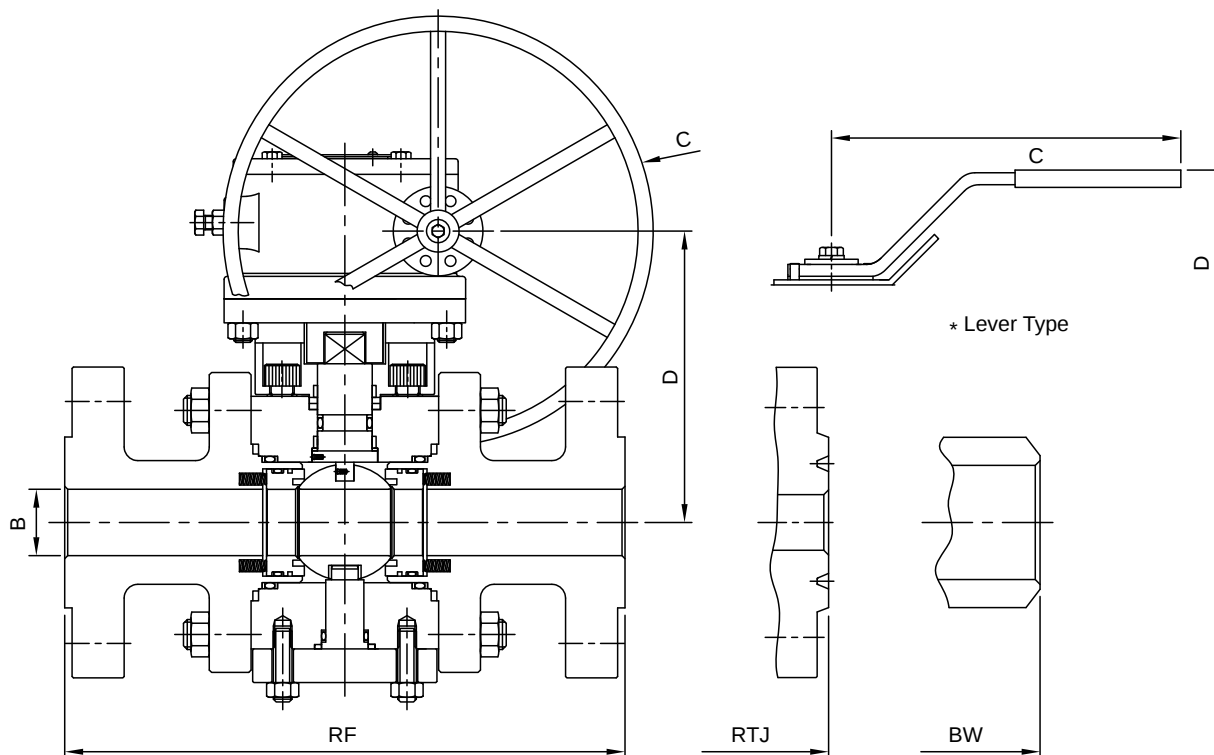
Size (in.)	Flange & Butt Weld End			Dimensions in. (mm)			Weight(Kg)
	RF	RTJ	BW	B	C	D	
2	216	232	216	50	*260	135	26
3	282	298	282	76	*400	200	50
4	305	321	305	100	*435	230	115
6	403	419	457	150	400	315	205
8	502	518	521	201	500	330	310
10	568	584	559	252	500	390	530
12	648	664	635	303	560	435	780

All dimensions are in millimeters(inchs) reference only, subject to change.

API 6D Trunnion Ball Valves

Flange & Butt Weld Ends

2 in. to 12 in. & Class 600, 900



ASME Class 600 Full Bore

Size (in.)	Flange & Butt Weld End			Dimensions in. (mm)			Weight(Kg)
	RF	RTJ	BW	B	C	D	
2	292	295	292	50	*300	150	29
3	356	359	356	76	*450	230	66
4	432	435	432	100	400	270	120
6	559	562	559	150	500	306	275
8	660	663	660	201	560	366	510
10	787	790	787	252	630	385	800
12	838	841	838	303	630	438	1100

ASME Class 900 Full Bore

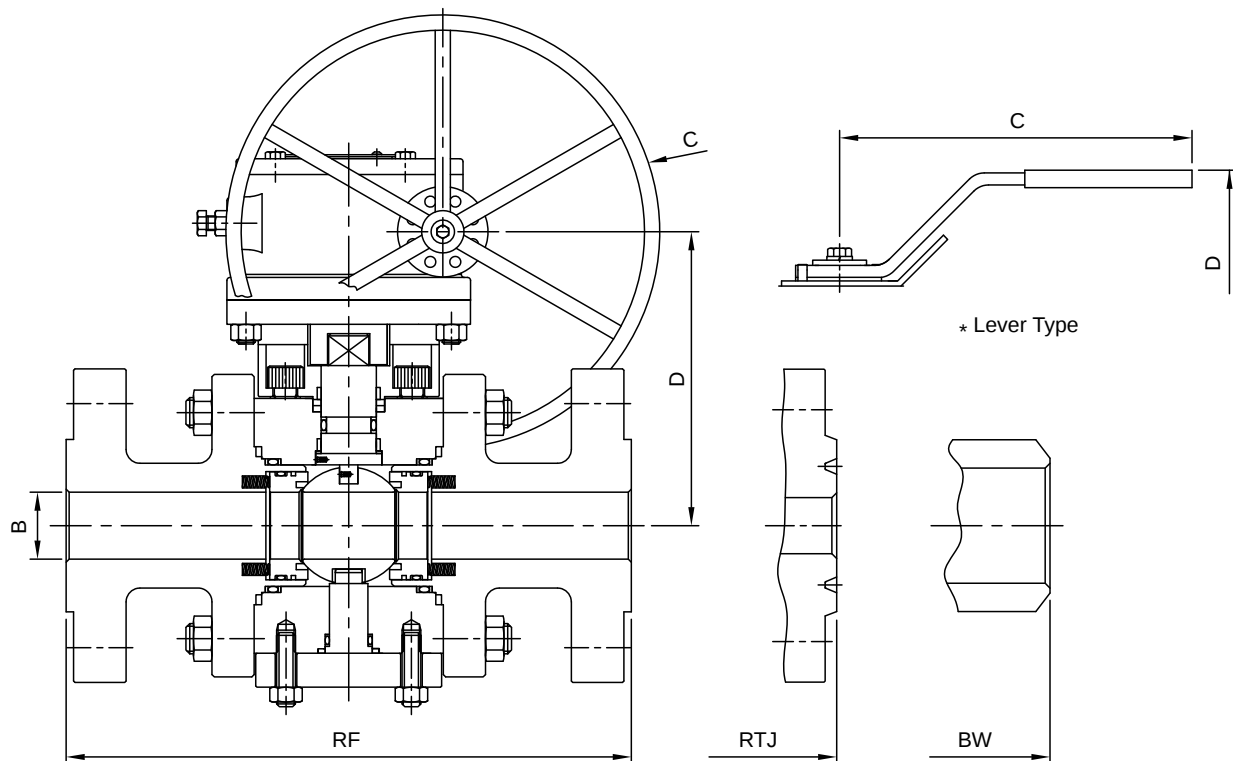
Size (in.)	Flange & Butt Weld End			Dimensions in. (mm)			Weight(Kg)
	RF	RTJ	BW	B	C	D	
2	368	371	368	50	*400	200	56
3	381	384	381	76	300	210	80
4	457	460	457	100	500	285	170
6	610	613	610	150	560	325	390
8	737	740	737	201	630	385	640
10	838	841	838	252	630	450	1070
12	965	968	965	303	630	521	1610

All dimensions are in millimeters(inches) reference only, subject to change.

API 6D Trunnion Ball Valves

Flange & Butt Weld Ends

2 in. to 8 in. & Class 1500, 2500



ASME Class 1500 Full Bore

Size (in.)	Flange & Butt Weld End			Dimensions in. (mm)			Weight(Kg)
	RF	RTJ	BW	B	C	D	
2	368	371	368	50	*400	200	56
3	470	473	470	76	300	220	140
4	546	549	546	100	500	280	250
6	705	711	705	144	630	325	525
8	832	842	832	192	630	410	880

ASME Class 2500 Full Bore

Size (in.)	Flange & Butt Weld End			Dimensions in. (mm)			Weight(Kg)
	RF	RTJ	BW	B	C	D	
2	451	454	451	42	300	210	115
3	578	584	578	62	500	300	275
4	673	683	673	87	560	327	385
6	914	927	914	131	630	380	830
8	1022	1038	1022	179	630	475	1435

All dimensions are in millimeters(inchs) reference only, subject to change.

API 6A Trunnion Ball Valves

Product Range

2&3 Piece Body Construction - Forged Steel

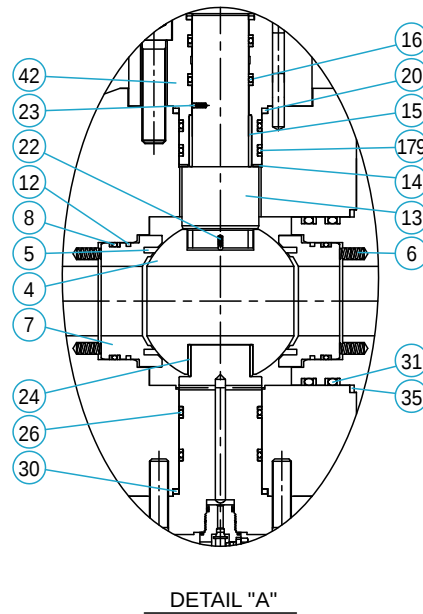
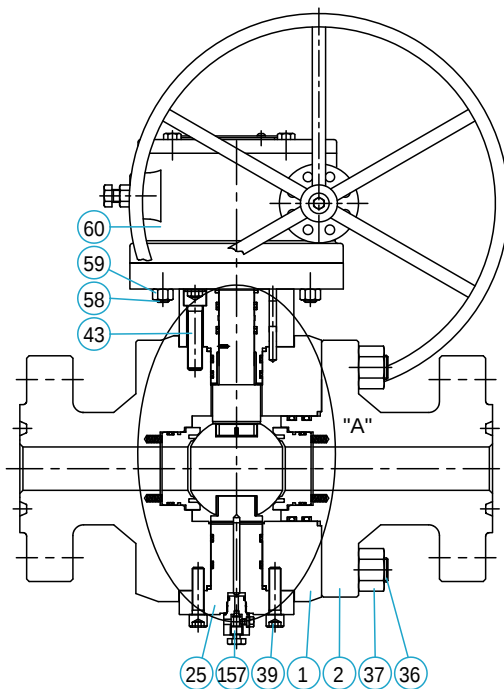
- 2 1/16 in. to 4 1/16 in. & API 3000 psi, 5000 psi
- 1 13/16 in. to 4 1/16 in. & API 10000 psi

Features & Benefits

- Complete split body design.
- Anti-static & Blow-out proof stem.
- Bi-direction flow.
- Fire safety design(API 607).

End Connections

- API 6A RTJ Flanged
- Hub End



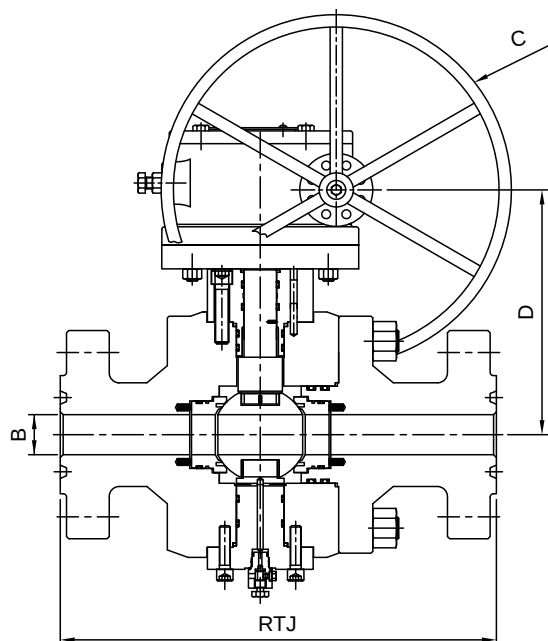
No.	Designator	No.	Designator	No.	Designator
1	BODY	16	STEM O-RING	37	END NUT
2	END FLANGE	20	COVER PACKING	39	TRUNNION BOLT
4	BALL	22	ANTI STATIC SPRING	42	COVER
5	SEAT	23	ANTI STATIC BALL	43	COVER BOLT
6	SEAT RETAINER SPRING	24	TRUNNION BEARING	58	GEAR BOX BOLT
7	SEAT RETAINER	25	TRUNNION	59	GEAR BOX NUT
8	SEAT RETAINER O-RING	26	TRUNNION O-RING	60	GEAR BOX
12	SEAT RETAINER SEAL	30	TRUNNION SEAL	157	VENT/DRAIN PLUG
13	STEM	31	END O-RING	179	COVER O-RING
14	STEM THRUST WASHER	35	END SEAL		
15	STEM UPPER BEARING	36	END BOLT		

API 6A Trunnion Ball Valves

Flange Ends

2 1/16 in. to 4 1/16 in. & API 3000 psi, 5000 psi

1 13/16 in. to 4 1/16 in. & API 10000 psi



API 3000 psi Full Bore

Size (in.)	Flange	Dimensions in. (mm)			Weight(Kg)
	RTJ	B	C	D	
2 1/16	371	52.4	300	190	80
3 1/8	384	79.3	300	220	130
4 1/16	460	103.2	500	280	250

API 5000 psi Full Bore

Size (in.)	Flange	Dimensions in. (mm)			Weight(Kg)
	RTJ	B	C	D	
2 1/16	371	52.4	300	210	120
3 1/8	473	79.3	500	300	220
4 1/16	549	103.2	560	350	350

API 10000 psi Full Bore

Size (in.)	Flange	Dimensions in. (mm)			Weight(Kg)
	RTJ	B	C	D	
1 13/16	464	46.0	300	283	170
2 1/16	521	52.4	500	300	190
3 1/16	619	77.7	560	350	390
4 1/16	670	103.2	630	380	510

All dimensions are in millimeters(inchs) reference only, subject to change.

Screwed Ball Valves

Product Range

3-Piece Body Construction - Forged Steel

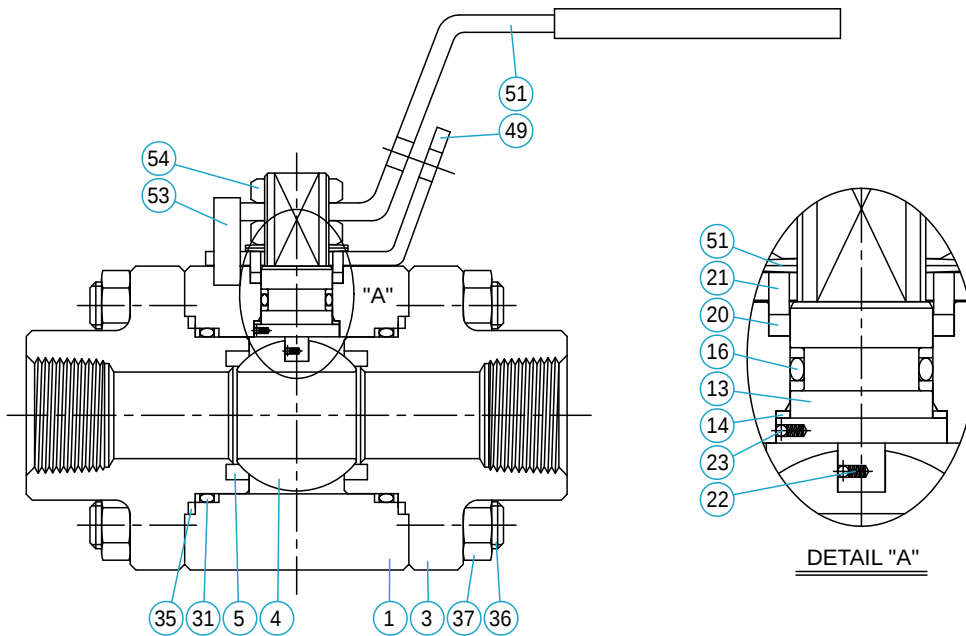
- 1/2 in. to 2 in. & Class 800, 1500

Features & Benefits

- Complete split body design.
- Anti-static & Blow-out proof stem.
- Bi-direction flow.
- Locking device handle.
- Available extended bonnet.
- Fire safety design(API 607).

End Connections

- ASME B16.11 Screwed/Socket Weld.
- ASME B16.25 Butt Weld

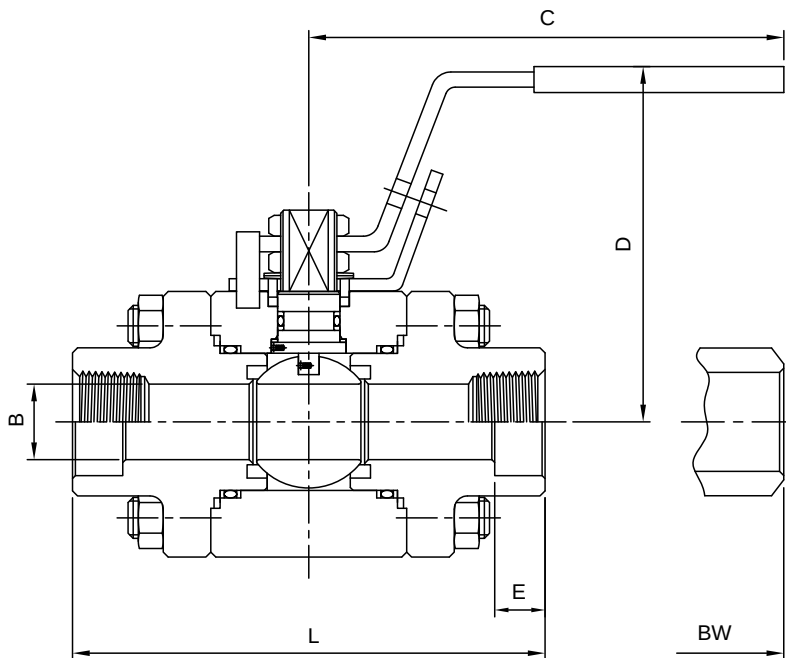


No.	Designator	No.	Designator
1	BODY	23	ANTI STATIC BALL
3	END CONNECTOR	31	END O-RING
4	BALL	35	END SEAL
5	SEAT	36	END BOLT
13	STEM	37	END NUT
14	STEM THRUST WASHER	49	LOCKING PLATE
16	STEM O-RING	51	LEVER HANDLE
20	STEM PACKING	52	STEM WASHER
21	STEM PACKING GLAND	53	STOP BOLT
22	ANTI STATIC SPRING	54	STEM NUT

Screwed Ball Valves

Screwed & Socket/Butt Weld Ends

1/2 in. to 2 in. & Class 800, 1500



ASME Class 800 Full Bore

Size (in.)	Length(L)		Dimensions in. (mm)				Weight(Kg)
	NPT/SW	BW	B	C	D	E	
1/2	75	250	14	120	80	9.5	1.5
3/4	87	258	19	160	95	12.5	2.2
1	110	272	25	160	100	12.5	3.9
1 1/4	139	286	32	260	115	12.5	4.5
1 1/2	143	292	38	260	125	12.5	10.5
2	160	325	50	300	155	16.0	19.0

ASME Class 1500 Full Bore

Size (in.)	Length(L)		Dimensions in. (mm)				Weight(Kg)
	NPT/SW	BW	B	C	D	E	
1/2	87	258	14	120	85	9.5	2.4
3/4	110	272	19	160	100	12.5	3.9
1	139	286	25	260	115	12.5	7.5
1 1/4	143	292	32	260	125	12.5	12.0
1 1/2	160	325	38	290	163	12.5	15.0
2	200	361	50	400	200	16.0	22.0

All dimensions are in millimeters(inchs) reference only, subject to change.

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