



DAS  
Certification  
ISO9001:2000  
Approval



Lloyd's  
Register



[www.okv.co.kr](http://www.okv.co.kr)

# BALL VALVES TRUNNION FLOATING

# OKV

150, 300, 600, 900

1500, 2500

10K, 20K, 30K, 40K, 63K



OK KWANG Engineering Co.,Ltd.





# Introduction

It's my pleasure to present this brochure to you for your information in order to choice suitable products. Since in 1988, OKV, have developed various kinds of marine valves and approved by relative international ship classification societies & API.

Now, we have not only supplying our products to world-wide customers including foreign & domestic shipyards but also providing technical solutions to the needs of our customers.

Taking this opportunity, we pledge our devotion to you as usual and wish for mutual prosperity and happiness.

President *Soon Ok, Kim* Yours very truly

## Company History

### FLEXIBILITY & CHANGE

#### 1988

Established Ok Kwang Metal Valve for Bronze Valve Casting

#### 1996-1997

Acquired Se-Woong Engineering and Dae-Dong Company to start the Cast Iron, Cast Steel Valve manufacturer.

#### 1998-1999

Registered to Hyundai and DSME  
Registered to Mitsubishi and Kuwait Oil Company  
Renamed to Ok Kwang Engineering  
Approval of ISO9002, LR, DNV, GL, BV, KR, ABS

#### 2005

High Sales Growth Rate-167% (vs. in 1999)  
: High Value Added Product Development  
Approval of API 6D, 608, 607

#### 2006

Registered to Chevron Texco and Supplied Al-Bronze Globe, Gate, Ball Valves Agbami Fpso of Chevron Project

#### 2007

Registered to Total and Supplied Valves & Strainers to Moho, Akpo Fpso of Total Project

## Certifications





# Products Information



## 4 Trunnion Ball Valve

- Type
  - Full Bore Type
  - Reduced Bore Type
- Body Material
  - Forged Steel / A105, A182 F316L, A182 Gr.F51
  - Casting Steel / A216 WCB, A217 WC6, A352 LCB, A351 CF8, A351 CF8M, B62, B148
- Size
  - Rating 150LB, 300LB : 2"~40"
  - Rating 600LB, 900LB : 2"~32"
  - Rating 1500LB, 2500LB : 2"~24"



## 11 Floating Ball Valve

- Type
  - Full Bore Type
  - Reduced Bore Type
- Body Material
  - Forged Steel / A105, A182 F304, A182 F316L
  - Casting Steel / A216 WCB, A217 WC6, A352 LCB, A351 CF8, A351 CF8M, B62, B148



## 24 Metal Seated Ball Valve



## 25 Standard Ball Valve



## 30 Reference Data

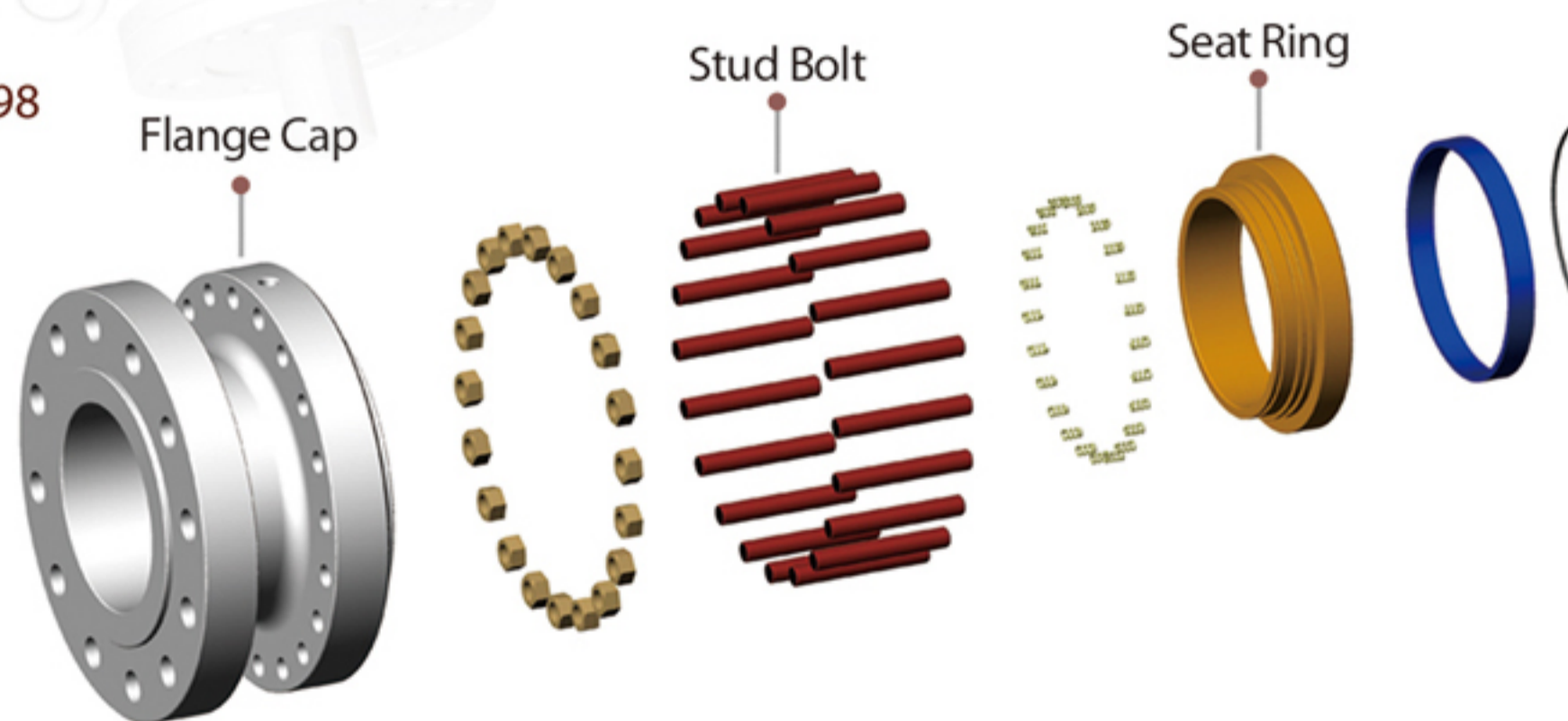




# OKV Trunnion Ball Valve



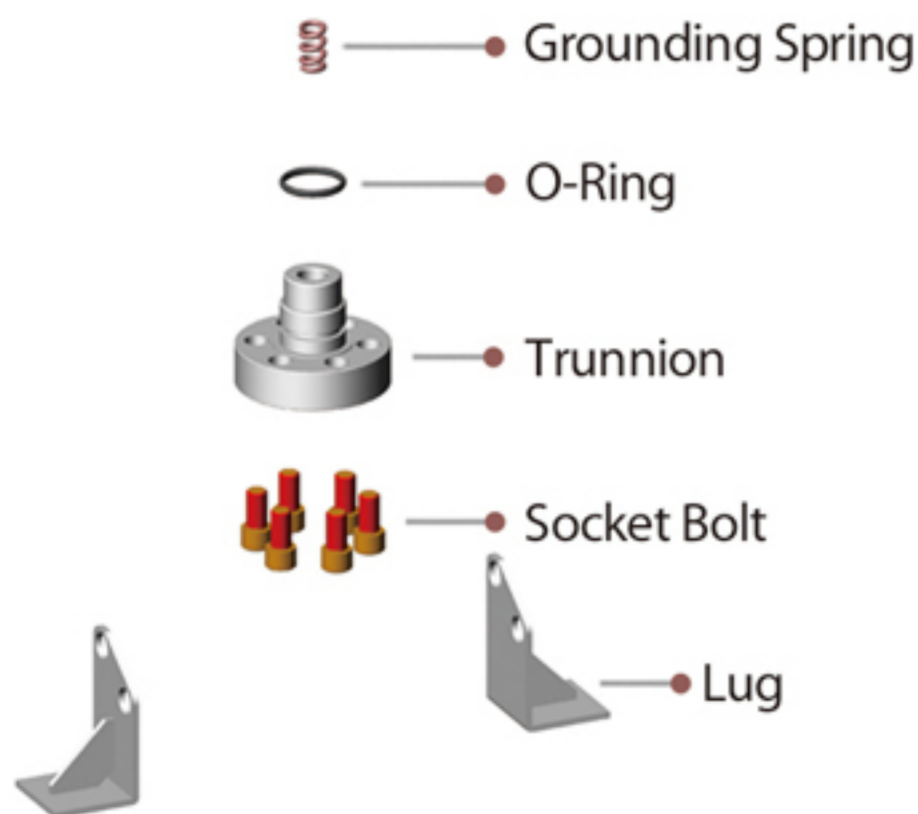
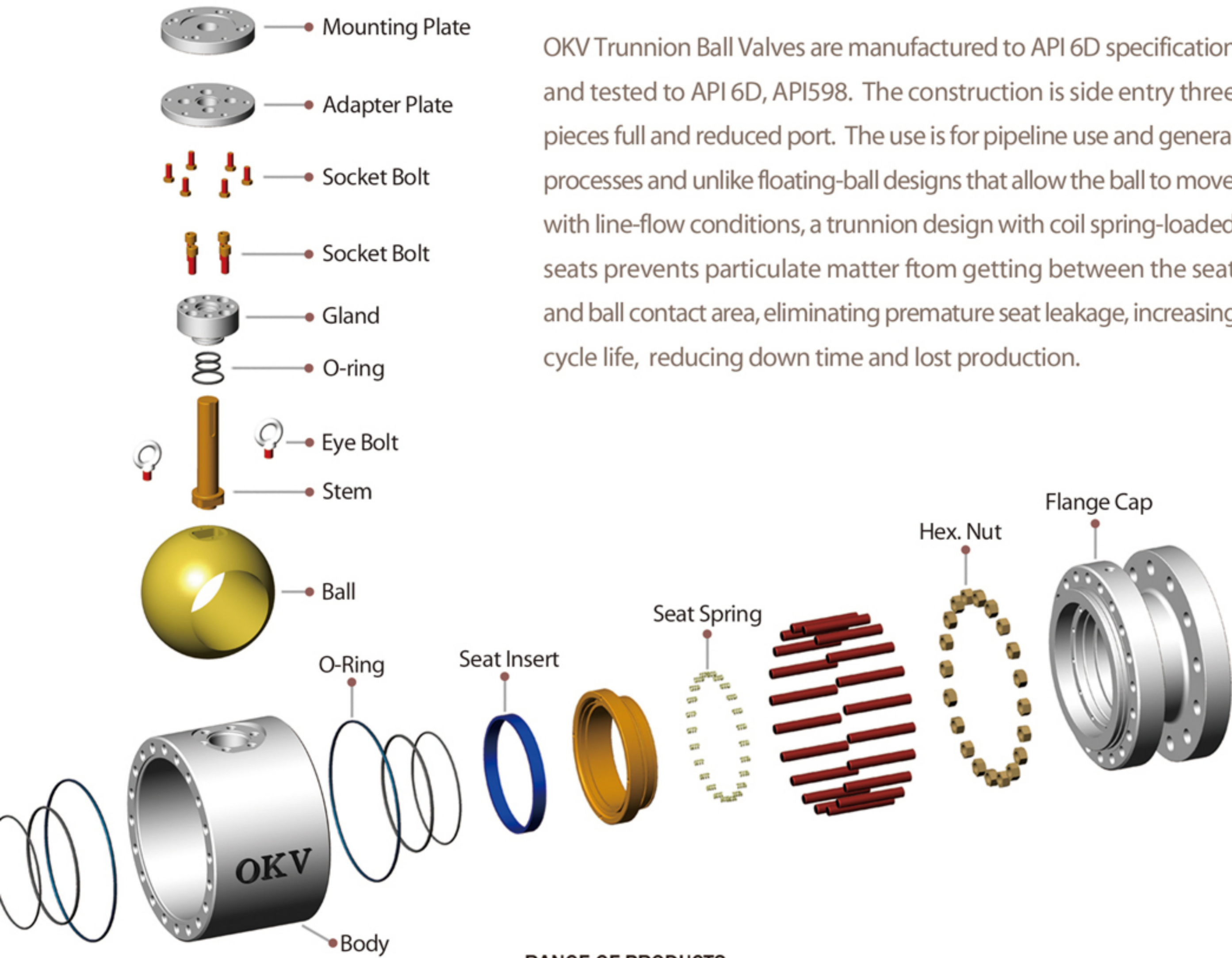
- Design standard : API 6D, ASME B16.34
- Inspection and test standard : API 6D, API598
- Face-to-face : ANSI 16.10 / API 6D
- End Flange : ANSI B16.5, ASME B16.47
- Fire test : API 6FA, API 607
- Size : 2" - 24", Full bore, Reduced Bore
- Class : 150lb - 2500lb
- Temperature : -29°C ~ 330°C
- Body Material : A105, A182 F316L, A182 Gr.F51, A216 WCB, A217 WC6, A352 LCB, A351 CF8, A351 CF8M, B62, B148
- Seat : 13% Cr+PTFE / 316+PTFE / Nylon
- Ball : 304 / 316 / A105+ENP
- Stem : ANS 1045 / 304 / 316
- Sealing : Soft sealing or metal-to-metal seat, Viton O-Ring, and flexible graphite
- Operation : Manual, pneumatic, electric, hydraulic and pneumatic-hydraulic
- Appendix : automatic relief of the cavity ; fore-safe, lock device, extended stem, blow-out proof stem, sealant fittings, etc.





## OKV Trunnion Ball Valves

OKV Trunnion Ball Valves are manufactured to API 6D specification and tested to API 6D, API598. The construction is side entry three pieces full and reduced port. The use is for pipeline use and general processes and unlike floating-ball designs that allow the ball to move with line-flow conditions, a trunnion design with coil spring-loaded seats prevents particulate matter from getting between the seat and ball contact area, eliminating premature seat leakage, increasing cycle life, reducing down time and lost production.



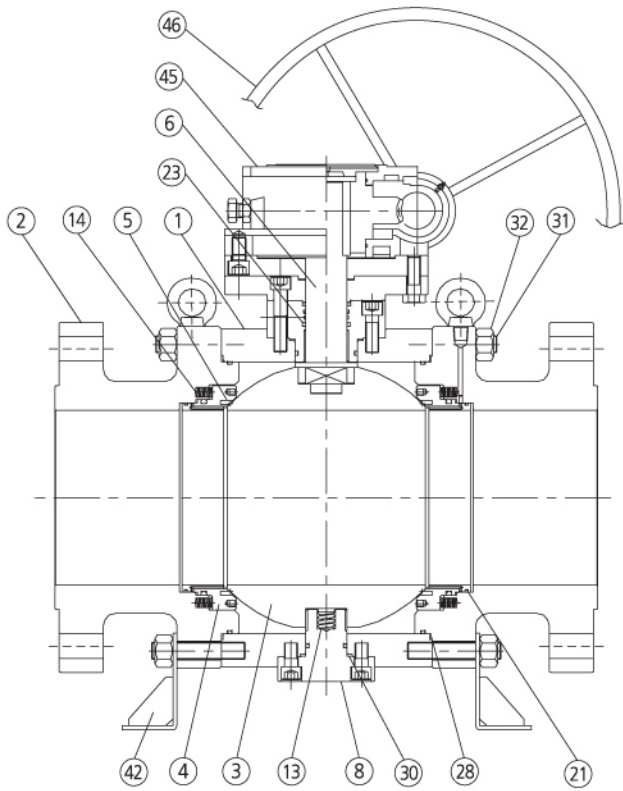
RANGE OF PRODUCTS

NPS	DN	10/16/20	25/40/50	63/64/100	150	250	420	
		150	300	600	900	1500	2500	
2"	50	Lever Operators						
3"	80							
4"	100							
6"	150							
8"	200	Gear Operators						
10"	250							
12"	300							
14"	350							
16"	400							
18"	450							
20"	500	Special Products						
22"	550							
24"	600							
26"	650							
28"	700							
30"	750							
32"	800							
36"	900							
38"	950							
40"	1000							



# TRUNNION BALL VALVES

## Full Bore Type



### SPECIFICATION

**FEATURES** Valve : API 6D, ANSI B16.34  
 Flange dimension : ANSI B16.5, B16.47  
 Face to face dimension : ANSI B16.10  
 Test : API 6D, API 598  
 Fire test : API 6FA, API 607

### WORKING and TEST PRESSURE

RATING (LB)	WORKING		BODY		SEAT	
	BAR	PSI	BAR	PSI	BAR	PSI
150	20	285	30	425	22	300
300	51	740	78	1100	57	800
600	102	1480	154	2175	113	1600
900	153	2220	230	3250	167	2400
1500	255	3705	383	5400	281	4000
2500	425	6170	639	9000	468	6600

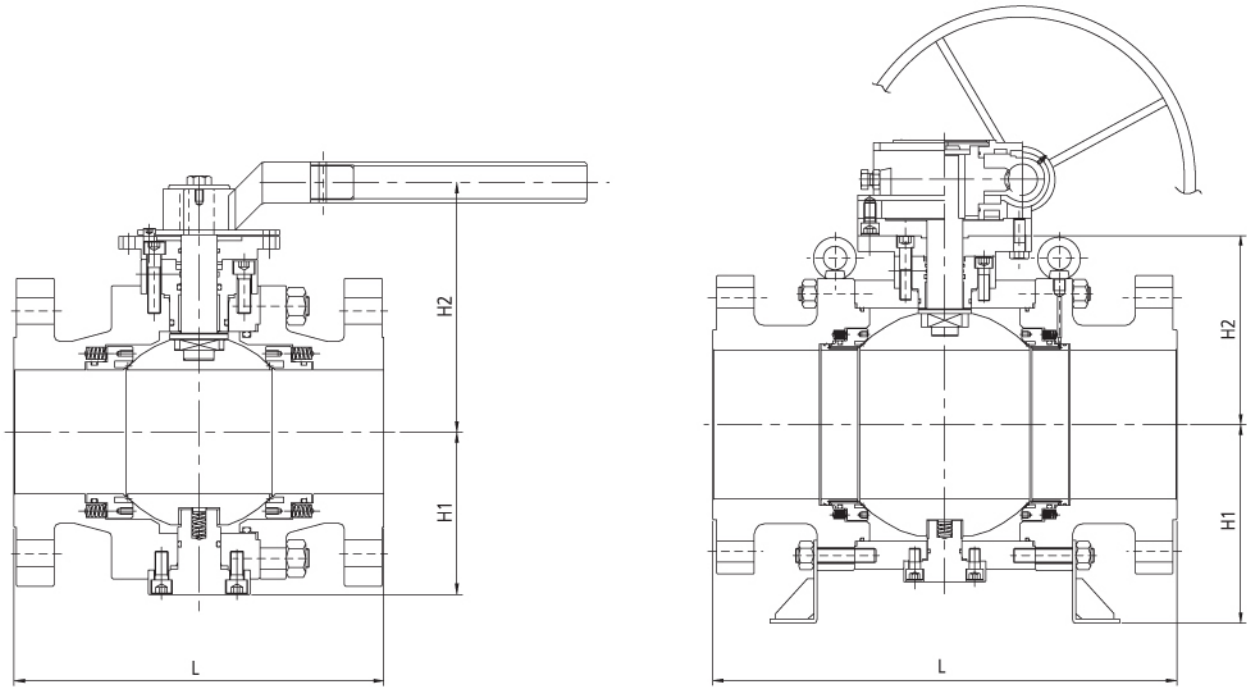
### PART LIST (ANSI 150LB, 300LB, 600LB, 900LB, 1500LB, 2500LB)

NO	PART NAME	STANDARD MATERIALS		
		CABON STEEL	STAINLESS STEEL	DUPLEX SS
1	BODY	A105	A182 F316L	A182 Gr.F51
2	FLANGE CAP	A105	A182 F316L	A182 Gr.F51
3	BALL	A105	A182 F316L	A182 Gr.F51
4	SEAT RING	ANSI 1045	A182 F316L	A182 Gr.F51
5	SEAT INSERT	NYLON	NYLON	NYLON
6	STEM	ANSI 1045	A182 F316L	A182 Gr.F51
8	TRUNNION	ANSI 1045	A182 F316L	A182 Gr.F51
13	GROUNDING SPRING	SS 304	SS 304	SS 304
14	SEAT SPRING	INCONEL X750	INCONEL X750	INCONEL X750
21	O-RING	VITON	VITON	VITON
23	O-RING	VITON	VITON	VITON
28	GASKET(CAP)	SS316L + GRAPHITE	SS316L + GRAPHITE	SS316L + GRAPHITE
30	GASKET(TRUNNION)	SS316L + GRAPHITE	SS316L + GRAPHITE	SS316L + GRAPHITE
31	STUD BOLT	A193 Gr.B7M	A193 Gr.B8M	A193 Gr.B8M
32	HEX. NUT	A194 Gr.2HM	A194 Gr.8M	A194 Gr.8M
43	LUG	A283 Gr.C	A283 Gr.C	A283 Gr.C
45	GEAR BOX	A395	A395	A395
46	HANDLE	A283 Gr.C	A283 Gr.C	A283 Gr.C



# TRUNNION BALL VALVES

## Full Bore Type



**DIMENSION TABLE (ANSI 150LB, 300LB, 600LB, 900LB)**

LEVER Operators    GEAR Operators

FULL BORE		DN	50		80		100		150		200		250		300		350		400		450		500		600	
		IN	2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"												
Dimensions			mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
Flange End to End	Class 150	L	178	7.01	203	7.99	229	9.02	394	15.51	457	17.99	533	20.98	610	24.02	686	27.01	762	30.00	864	34.02	914	35.98	1067	42.01
	Class 300	L	216	8.50	283	11.12	305	12.00	403	15.58	502	19.75	569	22.38	648	25.50	762	30.00	838	33.00	914	36.00	991	39.00	1143	45.00
	Class 600	L	292	11.50	356	14.00	432	17.00	559	22.00	660	26.00	787	31.00	838	33.00	889	35.00	991	39.00	1092	43.00	1194	47.00	1397	55.00
	Class 900	L	368	14.50	381	15.00	457	18.00	610	24.00	737	29.00	838	33.00	965	38.00	1029	40.50	1130	44.50	1219	48.00	1321	52.00	1549	61.00
Center to Top	Class 150	H2	125	4.92	145	5.71	177	6.97	237	9.33	278	10.94	349	13.74	416	16.38	455	17.91	491	19.33	578	22.76	614	24.17	701	27.60
	Class 300	H2	125	4.92	145	5.71	177	6.97	237	9.33	278	10.94	349	13.74	416	16.38	455	17.91	491	19.33	578	22.76	614	24.17	701	27.60
	Class 600	H2	125	4.92	161	6.34	202	7.95	275	10.83	344	13.54	388	15.28	454	17.87	511	20.12	542	21.34	594	23.39	666	26.22	738	29.06
	Class 900	H2	125	4.92	161	6.34	202	7.95	275	10.83	344	13.54	413	16.26	486	19.13	529	20.83	566	22.28	666	26.22	702	27.64	805	31.69
Center to Bottom	Class 150	H1	105	4.13	130	5.12	150	5.91	200	7.87	237	9.33	282	11.10	339	13.35	363	14.29	399	15.71	501	19.72	535	21.06	618	24.33
	Class 300	H1	105	4.13	130	5.12	150	5.91	200	7.87	237	9.33	282	11.10	339	13.35	363	14.29	399	15.71	501	19.72	535	21.06	618	24.33
	Class 600	H1	105	4.13	136	5.35	167	6.57	208	8.19	271	10.67	317	12.48	371	14.61	426	16.77	462	18.19	537	21.14	590	23.23	631	24.84
	Class 900	H1	105	4.13	136	5.35	167	6.57	208	8.19	271	10.67	345	13.58	421	16.57	459	18.07	496	19.53	582	22.91	617	24.29	705	27.76

**DIMENSION TABLE (ANSI 1500LB, 2500LB)**

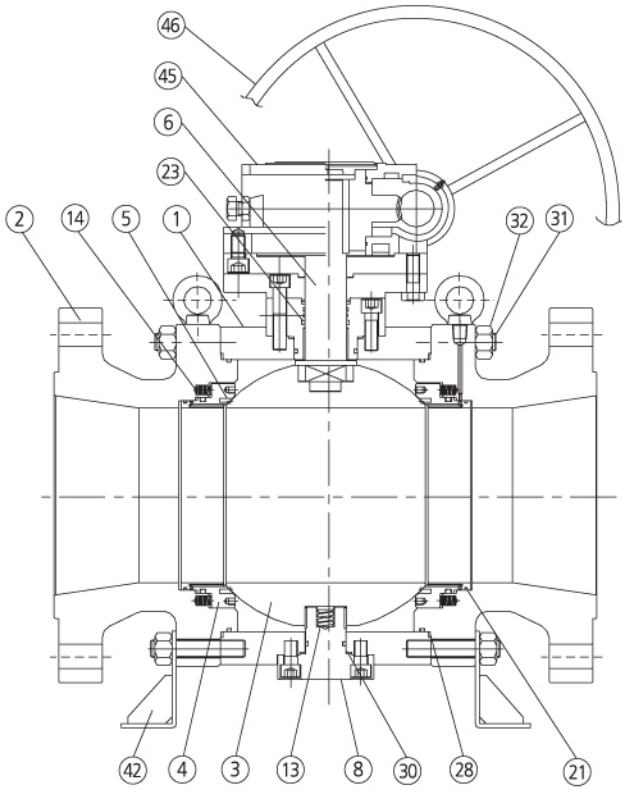
LEVER Operators    GEAR Operators

FULL BORE		DN	50		80		100		150		200		250		300		350		400		450		500		600							
		IN	2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"																		
Dimensions			mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch						
Flange End to End	Class 1500	L	368	14.50	470	18.50	546	21.50	705	27.75	832	32.75	991	39.00	1130	44.50	1257	49.50	1384	54.50	Special Products											
	Class 2500	L	451	17.75	578	22.75	673	26.50	914	36.00	1022	40.25	1270	50.00	1422	56.00																
Center to Top	Class 1500	H2	139	5.47	192	7.56	235	9.25	314	12.36	389	15.31	445	17.52	504	19.84	596	23.46	632	24.88												
	Class 2500	H2	167	6.57	200	7.87	259	10.20	348	13.70	414	16.30	477	18.78	600	23.62																
Center to Bottom	Class 1500	H1	117	4.61	162	6.38	195	7.68	245	9.65	338	13.31	400	15.75	470	18.50	518	20.39	579	22.80												
	Class 2500	H1	152	5.98	174	6.85	208	8.19	309	12.17	368	14.49	470	18.50	563	22.17																



# TRUNNION BALL VALVES

## Reduced Bore Type



### SPECIFICATION

**FEATURES** Valve : API 6D, ANSI B16.34  
 Flange dimension : ANSI B16.5, B16.47  
 Face to face dimension : ANSI B16.10  
 Test : API 6D, API 598  
 Fire test : API 6FA, API 607

### WORKING and TEST PRESSURE

RATING (LB)	WORKING		BODY		SEAT	
	BAR	PSI	BAR	PSI	BAR	PSI
150	20	285	30	425	22	300
300	51	740	78	1100	57	800
600	102	1480	154	2175	113	1600
900	153	2220	230	3250	167	2400
1500	255	3705	383	5400	281	4000
2500	425	6170	639	9000	468	6600

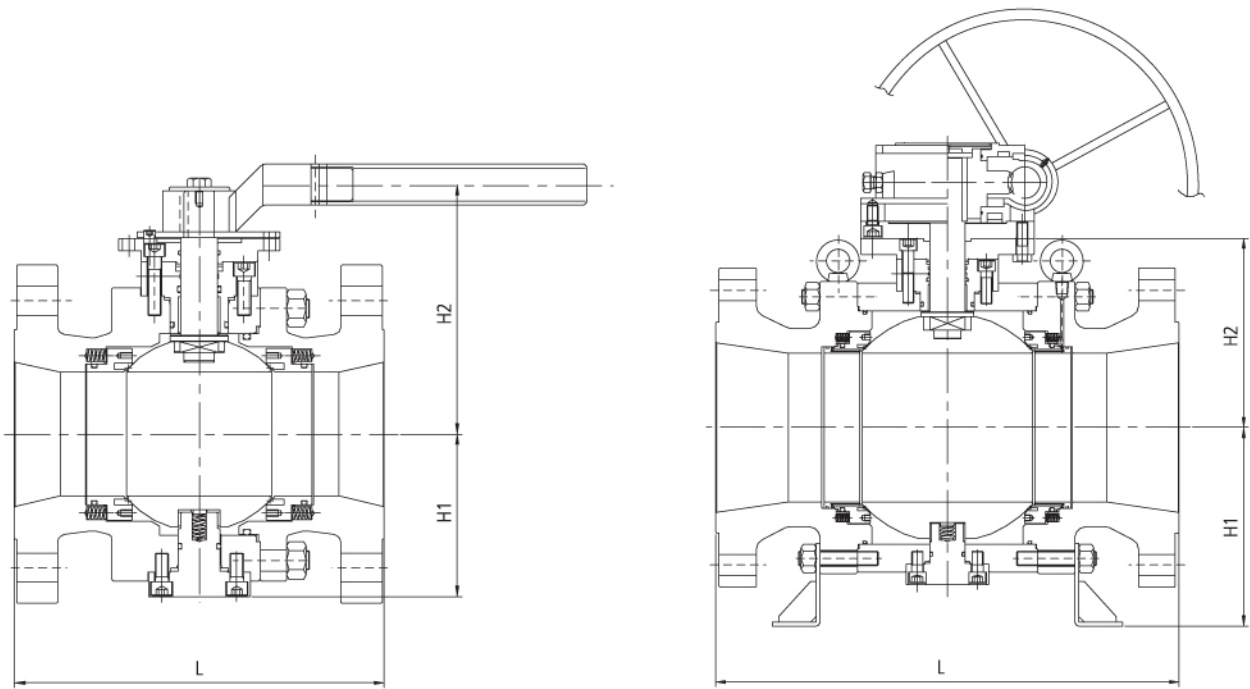
### PART LIST (ANSI 150LB, 300LB, 600LB, 900LB, 1500LB, 2500LB)

NO	PART NAME	STANDARD MATERIALS		
		CABON STEEL	STAINLESS STEEL	DUPLEX SS
1	BODY	A105	A182 F316L	A182 Gr.F51
2	FLANGE CAP	A105	A182 F316L	A182 Gr.F51
3	BALL	A105	A182 F316L	A182 Gr.F51
4	SEAT RING	ANSI 1045	A182 F316L	A182 Gr.F51
5	SEAT INSERT	NYLON	NYLON	NYLON
6	STEM	ANSI 1045	A182 F316L	A182 Gr.F51
8	TRUNNION	ANSI 1045	A182 F316L	A182 Gr.F51
13	GROUNDING SPRING	SS 304	SS 304	SS 304
14	SEAT SPRING	INCONEL X750	INCONEL X750	INCONEL X750
21	O-RING	VITON	VITON	VITON
23	O-RING	VITON	VITON	VITON
28	GASKET(CAP)	SS316L + GRAPHITE	SS316L + GRAPHITE	SS316L + GRAPHITE
30	GASKET(TRUNNION)	SS316L + GRAPHITE	SS316L + GRAPHITE	SS316L + GRAPHITE
31	STUD BOLT	A193 Gr.B7M	A193 Gr.B8M	A193 Gr.B8M
32	HEX. NUT	A194 Gr.2HM	A194 Gr.8M	A194 Gr.8M
43	LUG	A283 Gr.C	A283 Gr.C	A283 Gr.C
45	GEAR BOX	A395	A395	A395
46	HANDLE	A283 Gr.C	A283 Gr.C	A283 Gr.C



# TRUNNION BALL VALVES

## Reduced Bore Type



**DIMENSION TABLE (ANSI 150LB, 300LB, 600LB, 900LB)**

LEVER Operators    GEAR Operators

REDUCED BORE		DN	50x40		80x50		100x80		150x100		200x150		250x200		300x250		350x300		400x350		450x400		500x450		600x550	
		IN	2"x1½"	3"x2"	4"x3"	6"x4"	8"x6"	10"x8"	12"x10"	14"x12"	16"x14"	18"x16"	20"x18"	24"x20"												
Dimensions			mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
Flange End to End	Class 150	L	178	7.01	203	7.99	229	9.02	394	15.51	457	17.99	533	20.98	610	24.02	686	27.01	762	30.00	864	34.02	914	35.98	1067	42.01
	Class 300	L	216	8.50	283	11.12	305	12.00	403	15.88	502	19.75	569	22.38	648	25.50	762	30.00	838	33.00	914	36.00	991	39.00	1143	45.00
	Class 600	L	292	11.50	356	14.00	432	17.00	559	22.00	660	26.00	787	31.00	838	33.00	889	35.00	991	39.00	1092	43.00	1194	47.00	1397	55.00
	Class 900	L	368	14.50	381	15.00	457	18.00	610	24.00	737	29.00	838	33.00	965	38.00	1029	40.50	1130	44.50	1219	47.99	1320	51.97	1549	61.00
Center to Top	Class 150	H2	103	4.06	125	4.92	145	5.71	177	6.97	237	9.33	278	10.94	349	13.74	416	16.38	416	16.38	491	19.33	578	22.76	614	24.17
	Class 300	H2	103	4.06	125	4.92	145	5.71	177	6.97	237	9.33	278	10.94	349	13.74	416	16.38	455	17.91	491	19.33	578	22.76	614	24.17
	Class 600	H2	103	4.06	125	4.92	160	6.30	202	7.95	275	10.83	344	13.54	388	15.28	454	17.87	511	20.12	542	21.34	594	23.39	666	26.22
	Class 900	H2	112	4.41	125	4.92	161	6.34	202	7.95	275	10.83	344	13.54	413	16.26	486	19.13	529	20.83	566	22.28	666	26.22	702	27.64
Center to Bottom	Class 150	H1	93	3.66	105	4.13	130	5.12	150	5.91	200	7.87	237	9.33	282	11.10	339	13.35	339	13.35	399	15.71	501	19.72	535	21.06
	Class 300	H1	93	3.66	105	4.13	130	5.12	150	5.91	200	7.87	237	9.33	282	11.10	339	13.35	363	14.29	399	15.71	501	19.72	535	21.06
	Class 600	H1	93	3.66	105	4.13	136	5.35	167	6.57	208	8.19	271	10.67	317	12.48	371	14.61	426	16.77	462	18.19	537	21.14	590	23.23
	Class 900	H1	105	4.13	105	4.13	136	5.35	167	6.57	208	8.19	271	10.67	345	13.58	421	16.57	459	18.07	496	19.53	582	22.91	617	24.29

**DIMENSION TABLE (ANSI 1500LB, 2500LB)**

LEVER Operators    GEAR Operators

REDUCED BORE		DN	50x40		80x50		100x80		150x100		200x150		250x200		300x250		350x300		400x350		450x400		500x450		600x550							
		IN	2"x1½"	3"x2"	4"x3"	6"x4"	8"x6"	10"x8"	12"x10"	14"x12"	16"x14"	18"x16"	20"x18"	24"x20"																		
Dimensions			mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch						
Flange End to End	Class 1500	L	368	14.50	470	18.50	546	21.50	705	27.75	832	32.75	991	39.00	1130	44.50	1257	49.50	1384	54.50	Special Products											
	Class 2500	L	451	17.75	578	22.75	673	26.50	914	36.00	1022	40.24	1270	50.00	1422	56.00																
Center to Top	Class 1500	H2	226	8.90	139	5.47	192	7.56	235	9.25	314	12.36	389	15.31	445	17.52	504	19.84	596	23.46												
	Class 2500	H2	140	5.51	167	6.57	200	7.87	259	10.20	348	13.70	414	16.30	477	18.78																
Center to Bottom	Class 1500	H1	105	4.13	117	4.61	162	6.38	195	7.68	245	9.65	338	13.31	400	15.75	470	18.50	508	20.00												
	Class 2500	H1	139	5.47	152	5.98	174	6.85	208	8.19	309	12.17	368	14.49	470	18.50																



# Products Information

- 13 **150#** FLOATING BALL VALVE
- 14 **300#** FLOATING BALL VALVE
- 15 **600#** FLOATING BALL VALVE
- 16 **900#** FLOATING BALL VALVE
- 17 **1500#** FLOATING BALL VALVE
- 18 **2500#** FLOATING BALL VALVE
- 19 **JIS 10K** FLOATING BALL VALVE
- 20 **JIS 20K** FLOATING BALL VALVE
- 21 **JIS 30K** FLOATING BALL VALVE
- 22 **JIS 40K** FLOATING BALL VALVE
- 23 **JIS 63K** FLOATING BALL VALVE
- 24 **METAL SEATED BALL VALVE**
  - BODY MATERIAL : STAINLESS STEEL, CARBON STEEL, CAST BRONZE
  - SIZE : 1/2" ~ 2"
  - TYPE : INTEGRAL RF OR FF FLANGED ENDS, FULL AND REDUCE BORE
  - DESIGN : API 6D





# TECHNICAL FEATURES

## DESIGN

Floating Ball Valves are manufactured in the main types ; One piece End Entry Type.  
Two piece Screwed and Bolted Construction.  
Three piece Bolted Construction. Valves can be supplied Full or Reduced Bore and manufactured in forged construction. Bolted and Screwed Body connections give of service and maintenance on site. Valves can be supplied with either Raised Face, Ring Type Joint, Socketweld or Screwed End connections. Pressure rating is from ANSI 150 thru ANSI 2500.  
Higher pressures can be supplied on request.  
Valves are supplied with Lever.

## MATERIAL SELECTION

Valves are manufactured in a range of materials such as Carbon steel, Low Temp Carbon steel, Stainless steel, Duplex, Super Duplex, Monel, Titanium, Inconel and other Special Alloys.

## BODY/CONNECTOR SEAL

Graphite ring, O-ring or PTFE seals guarantee perfect sealing between Body and Connector. The Graphite ring continues to provide a seal in the event of a fire. O-ring can be supplied suitable for AED applications.

## SEAT

Valves seat design gives perfect seal with various materials in both high and low pressure applications.

## STEM

Stems are manufactured separately from the Ball and incorporate O-ring, Graphite ring, RTFE ring and Anti-Static devices.

## MAINTENANCE

### 6.1 O-RING SEAT-RING Renewal Method

- 2-PC Body Ball valve
  - a. Break end connector loose with wrench.
  - b. Disassemble the body and the connector.

- c. Disassemble o-ring, seat-ring, ball and seat ring in order.
- d. Place new o-ring and seat ring then reassemble.
- e. Assemble the body and the connector.
- f. Tighten end connector into body.
- g. Test according to regulated pressure.

- 3-PC Body Ball valve

- a. Remove three pairs of bolts with the exception of one pair which remain in position but loosened. Turn and separate body from connector.
- b. Remove the body seals, seat-rings.
- c. Clean a contact area of body and connector and place new seals and seat-rings.
- d. Turn the body the other way and tighten connector bolts to reassemble at this point.
- e. Test according to regulated pressure.

### 6.2 GLAND PACKING Renewal Method

- a. Disassemble Stem Nut, Name Plate, Lever, Stop Pin, and Disc Spring, Gland in order and then remove Gland Packing.
- b. Clean the parts and install new Gland Packing.
- c. Reassemble the parts.
- d. Turn the Lever and check the operating condition.
- e. Test according to regulated pressure.

## TEST

Valves are tested in accordance with BS 6755 Pt 1, API 6D, API 598 and ASME B16.34.

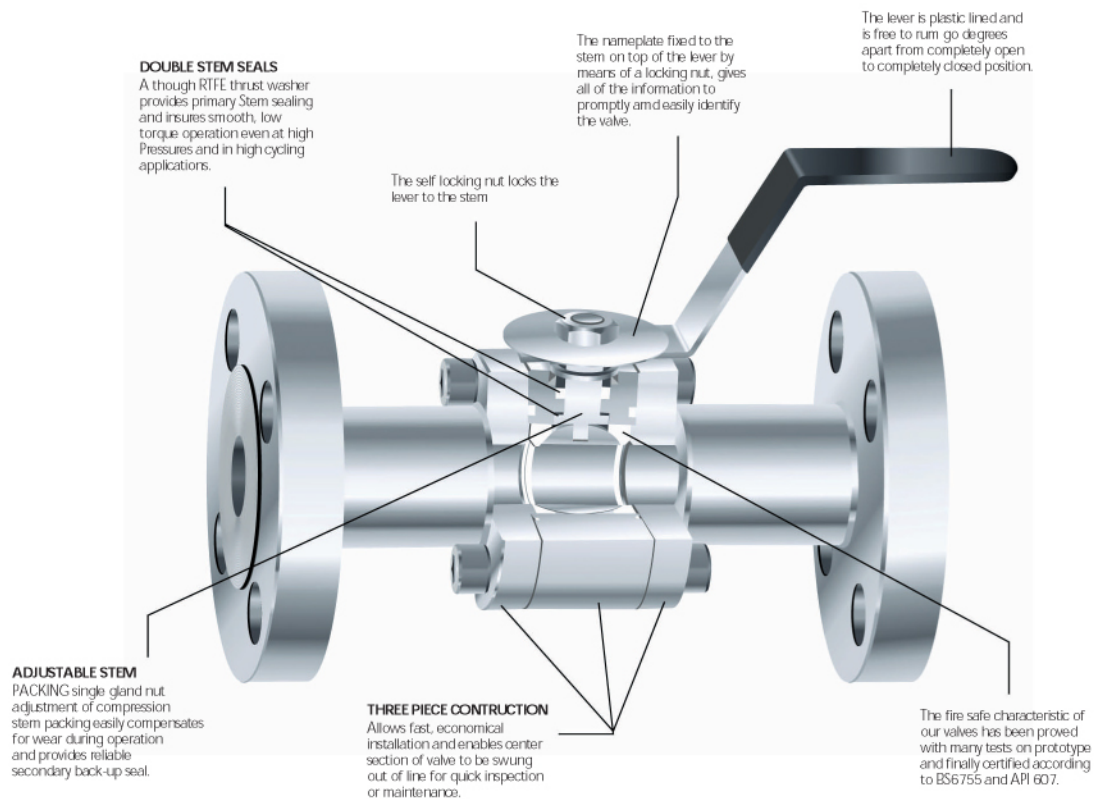
Valves should be Inspected by regulated pressure whether there is any leakage or not, after valves are fabricated and installed.

## ACCESSORIES

Include locking device, pipe pups, extended bonnet and actuators. Suitable materials, components seats and o-ring can be supplied for valves with explosive decompression or Cryogenic applications.



# CONSTRUCTION AND FEATURES



## ➤ CONSTRUCTION TO BS5351

Our OKV ball valves have been designed fully in accordance with the requirements of BS5351

## ➤ FULL AND REDUCED BORE

The valves are manufactured in sizes ranging from 3/8" (10mm) through 2" (50mm) and pressure rating at ANSI 150 and 2500LB for both the full bore and reduced bore version.

The ends are threaded NPT or socket weld.

## ➤ FLOATING BALL

The floating ball is pressed against the seat by the pressure of the medium in the line.

The greater is the pressure the tighter is the contact.

Pressures and temperatures allowable by each type on the graph pressure temperature limits.

## ➤ BUBBLE TIGHT SEALING MECHANISM

Floating ball design support the ball with two rigid RTFE seats placed in the valve body, one on the upstream pressure pushes the ball, which compresses the down stream side seat to completely shut off fluid flow.

## ➤ ANTI BLOWOUT STEM

A design ensures the valve stem cannot be blown out of the body in the even of the gland being remove while the valve is under pressure.

## ➤ FIRE SAFETY

API 607 is internationally recognized as the official standards for defining fire safe testing procedures and evaluation. The fire safe characteristic of our valves has been proved with many test on prototypes and finally certified according to API 607.

## ➤ BALL VENT

The optional upstream relief hole in the zone of ball and body cavity will relieve excess pressure upstream and preserve the integrity of valve with preventing possible seat damage.

## ➤ ANTI-STATIC DEVICE

If the fluid handled by the valve is flammable, the valve must be provided with an anti-static device which achieves electrical continuity between the ball stem and the valve body.

## ➤ TESTING TO BS6755 AND API 598

The hydrotests for seat sealing and body sealing are carried out respectively at 110% and 150% of the rated cold working pressure.

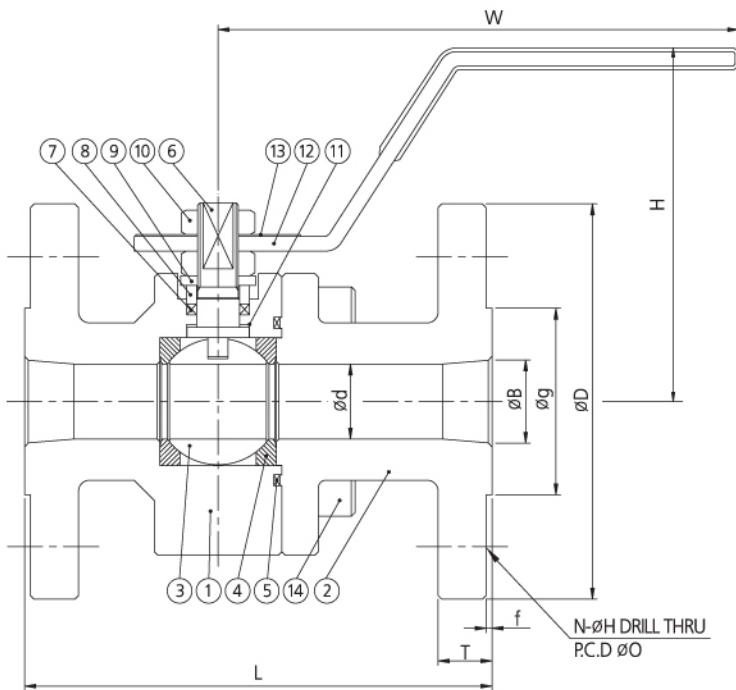
Low pressure seat test is carried out at 80 psi with dry air.

The hydrotest seat pressure shall not exceed the seat rating.



# OKV 150# FLOATING BALL VALVE

## Integral RF Flanged Ends, Full and Reduce Bore.



### SPECIFICATION

**Valve Body Pressure Rating**

ANSI Class 150. Max 275 psig @ 100° F

**Temperature Rating**

-20° F to 450° F, Max 450° F @100 psig.  
Dependent upon seal & seat choice.

**Body and End Piece**

Two-piece construction.  
Available in stainless or carbon steel.

**Body Bolts & Nuts**

ASTM A193 Gr B7(B8) or ASTM A194 Gr 2H(B8)  
Other Bolts are available according to body material.

**Ball and Stem**

316 stainless steel, balls are solid of forged or cast.

**Seats**

Rainforced PTEE seats.  
Other seats are available, consult OKV Valve.

**Body Seal and Stem Packing**

PTFE as standard.  
Other packings are available, consult OKV Valve.

**Operation**

Valves are supplied with handle operator.  
A locking device or pneumatic and electric automation optionally available.

**Seat / Seal Leakage**

Conform to API 598 or ANSI B 16.34 or BS6755.  
All valves are tested to bubble-tight standards.

**Design Specification**

ANSI B 16.34  
BS 5351  
API 6D  
Face to face dimension -ANSI B 16.10  
Flange dimension - ANSI B 16.5  
BS 5251, NACE MR-01-75, and API 607 (BS6755) optionally available.

※ Monel, titanium, hastelloy C and other special materials are available to customer spec.

※ Fire safe or Anti-static are optional.

### OKV STANDARD COMPONENT MATERIAL

NO	DESCRIPTION	CARBON STEEL		STAINLESS STEEL	
		A105	F304	F316	F316L
1	BODY	A105	A182-F304	A182-F316	A182-F316L
2	END CAP	A105	A182-F304	A182-F316	A182-F316L
3	BALL	A276-T316			A182-F316L
4	SEAT RING	RTFE - Teflon / 15% Glass Fiber Filled RTFE - Teflon / 25% Carbon Fiber Filled			
5	GASKET	O-RING, PTFE, GRAPHITE			
6	STEM	A276-T316			A182-F316L
7	PACKING	PTFE, GRAPHITE			
8	GLAND	A276-T316			
9	SPRING WASHER	A283D, Stainless Steel			
10	STEM NUT	A276-T304			
11	THRUST WASHER	RTFE - Teflon / 25% Carbon Fiber Filled			
12	LEVER	A283D	Stainless Steel		
13	NAME PLATE	ALUMINUM	Stainless Steel		
14	CONNECTING BOLT	A193-B7	A193-B8		

### TEST PRESSURE

Max. Working Pressure	Shell (Hydro)	Seats	
		Hydro	Pneu
275	425	303	80

※ Body & seat rating given in above conform to API 598

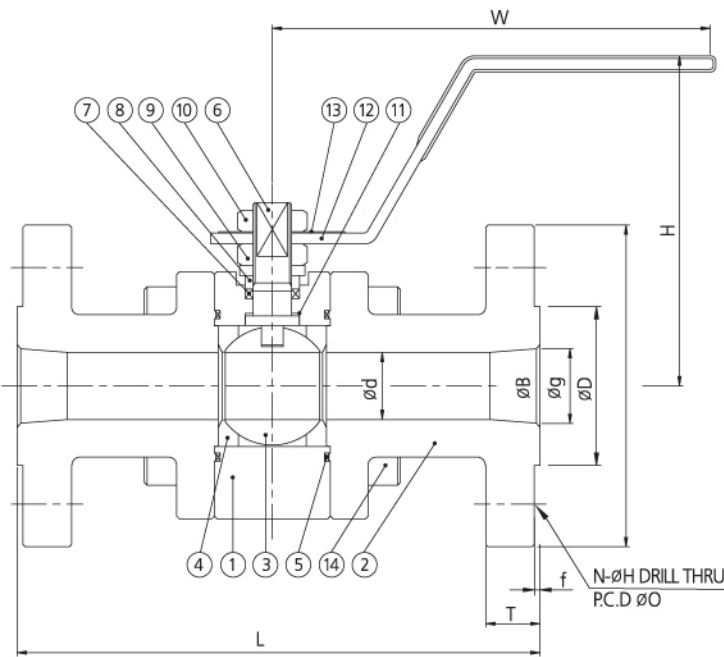
### DIMENSION TABLE

SIZE	DIMENSION (UNIT - mm)											Approx Weight(kg)
	L	d	D	g	T	f	B	N-øH	O	H	W	
1/2" x 3/8"	108	11	88.9	35	11.5	106	15.7	4-16	60.5	79	168	2.1
1/2" x 1/2"	108	14	88.9	35	11.5	106	15.7	4-16	60.5	84	168	2.3
3/4" x 1/2"	117	14	98.6	43	13	106	20.8	4-16	70	84	168	2.8
3/4" x 3/4"	117	20.5	98.6	43	13	106	20.8	4-16	70	97	180	3.5
1" x 3/4"	127	20.5	108	51	14.5	106	26.7	4-16	79.2	97	180	4.2
1" x 1"	127	25	108	51	14.5	106	26.7	4-16	79.2	110	198	5.1
1 1/4" x 1"	140	25	117.4	63.5	16	106	35	4-16	88.9	110	198	5.6
1 1/4" x 1 1/4"	140	32	117.4	63.5	16	106	35	4-16	88.9	122	198	6.7
1 1/2" x 1 1/4"	165	32	127	73	18	106	40.9	4-16	98.6	122	198	8.5
1 1/2" x 1 1/2"	165	38	127	73	18	106	40.9	4-16	98.6	127	198	9.8
2" x 1 1/2"	178	38	152.4	92	19.5	106	52.6	4-19	120.6	127	198	11.5
2" x 2"	178	50	152.4	92	19.5	106	52.6	4-19	120.6	131	280	14.7



# OKV 300# FLOATING BALL VALVE

## Integral RF Flanged Ends, Full and Reduce Bore.



### SPECIFICATION

**Valve Body Pressure Rating**

ANSI Class 300, Max 720 psig @ 100° F

**Temperature Rating**

-20° F to 450° F, Max 450° F @100 psig.  
Dependent upon seal & seat choice.

**Body and End Piece**

Three-piece construction.  
Available in stainless or carbon steel.

**Body Bolts & Nuts**

ASTM A193 Gr B7(B8) or ASTM A194 Gr 2H(B8)  
Other Bolts are available according to body material.

**Ball and Stem**

316 stainless steel, balls are solid of forged or cast.

**Seats**

Rainforced PTEE seats.  
Other seats are available, consult OKV Valve.

**Body Seal and Stem Packing**

PTFE as standard.  
Other packings are available, consult OKV Valve.

**Operation**

Valves are supplied with handle operator.  
A locking device or pneumatic and electric automation optionally available.

**Seat / Seal Leakage**

Conform to API 598 or ANSI B 16.34 or BS6755.  
All valves are tested to bubble-tight standards.

**Design Specification**

ANSI B 16.34  
BS 5351  
API 6D  
Face to face dimension -ANSI B 16.10  
Flange dimension - ANSI B 16.5  
BS 5251, NACE MR-01-75, and API 607 (BS6755) optionally available.

※ Monel, titanium, hastelloy C and other special materials are available to customer spec.

※ Fire safe or Anti-static are optional.

### OKV STANDARD COMPONENT MATERIAL

NO	DESCRIPTION	CARBON STEEL		STAINLESS STEEL	
		A105	F304	F316	F316L
1	BODY	A105	A182-F304	A182-F316	A182-F316L
2	END CAP	A105	A182-F304	A182-F316	A182-F316L
3	BALL	A276-T316			A182-F316L
4	SEAT RING	RTFE - Teflon / 15% Glass Fiber Filled RTFE - Teflon / 25% Carbon Fiber Filled			
5	GASKET	O-RING, PTFE, GRAPHITE			
6	STEM	A276-T316			A182-F316L
7	PACKING	PTFE, GRAPHITE			
8	GLAND	A276-T316			
9	SPRING WASHER	A283D, Stainless Steel			
10	STEM NUT	A276-T304			
11	THRUST WASHER	RTFE - Teflon / 25% Carbon Fiber Filled			
12	LEVER	A283D	Stainless Steel		
13	NAME PLATE	ALUMINUM		Stainless Steel	
14	CONNECTING BOLT	A193-B7		A193-B8	

### TEST PRESSURE

Max. Working Pressure	Shell (Hydro)	Seats	
		Hydro	Pneu
720	1100	792	80

※ Body & seat rating given in above conform to API 598

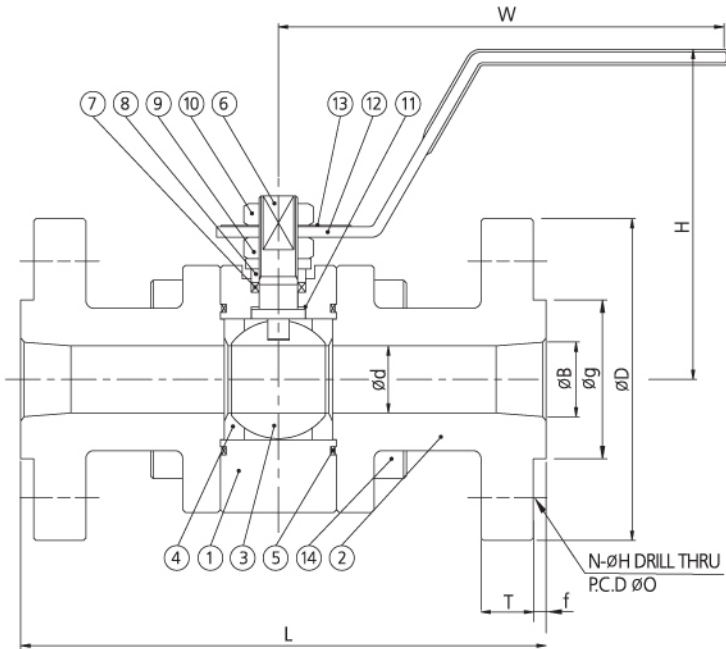
### DIMENSION TABLE

SIZE	DIMENSION (UNIT - mm)											Approx Weight(kg)
	L	d	D	g	T	f	B	N-øH	O	H	W	
1/2" x 3/8"	140	11	95.3	35	14.2	1.6	15.7	4-16	66.5	79	168	2.4
1/2" x 1/2"	140	14	95.3	35	14.2	1.6	15.7	4-16	66.5	84	168	2.9
3/4" x 1/2"	152	14	117.4	43	15.7	1.6	20.8	4-19	82.6	84	168	4.2
3/4" x 3/4"	152	20.5	117.4	43	15.7	1.6	20.8	4-19	82.6	97	180	5.0
1" x 3/4"	165	20.5	124	51	17.5	1.6	26.7	4-19	88.9	97	180	5.4
1" x 1"	165	25	124	51	17.5	1.6	26.7	4-19	88.9	110	198	6.5
1 1/4" x 1"	178	25	133.4	63.5	19.1	1.6	35	4-19	98.6	110	198	6.7
1 1/4" x 1 1/4"	178	32	133.4	63.5	19.1	1.6	35	4-19	98.6	122	198	8.0
1 1/2" x 1 1/4"	190	32	155.5	73	20.6	1.6	40.9	4-22	114.3	122	198	11.2
1 1/2" x 1 1/2"	190	38	155.5	73	20.6	1.6	40.9	4-22	114.3	127	198	13.4
2" x 1 1/2"	216	38	165	92	22.4	1.6	52.6	8-19	127	127	198	13.8
2" x 2"	216	50	165	92	22.4	1.6	52.6	8-19	127	131	280	16.6



# OKV 600# FLOATING BALL VALVE

## Integral RF Flanged Ends, Full and Reduce Bore.



### OKV STANDARD COMPONENT MATERIAL

NO	DESCRIPTION	CARBON STEEL		STAINLESS STEEL	
		A105	F304	F316	F316L
1	BODY	A105	A182-F304	A182-F316	A182-F316L
2	END CAP	A105	A182-F304	A182-F316	A182-F316L
3	BALL	A276-T316			A182-F316L
4	SEAT RING	RTFE - Teflon / 15% Glass Fiber Filled RTFE - Teflon / 25% Carbon Fiber Filled			
5	GASKET	O-RING, PTFE, GRAPHITE			
6	STEM	A276-T316			A182-F316L
7	PACKING	PTFE, GRAPHITE			
8	GLAND	A276-T316			
9	SPRING WASHER	A283D, Stainless Steel			
10	STEM NUT	A276-T304			
11	THRUST WASHER	RTFE - Teflon / 25% Carbon Fiber Filled			
12	LEVER	A283D	Stainless Steel		
13	NAME PLATE	ALUMINUM	Stainless Steel		
14	CONNECTING BOLT	A193-B7	A193-B8		

### SPECIFICATION

#### Valve Body Pressure Rating

ANSI Class 600, Max 1440 psig @ 100° F

#### Temperature Rating

-20° F to 450° F, Max 450° F @100 psig.  
Dependent upon seal & seat choice.

#### Body and End Piece

Three-piece construction.  
Available in stainless or carbon steel.

#### Body Bolts & Nuts

ASTM A193 Gr B7(B8) or ASTM A194 Gr 2H(B8)  
Other Bolts are available according to body material.

#### Ball and Stem

316 stainless steel, balls are solid of forged or cast.

#### Seats

Rainforced PTEE seats.  
Other seats are available, consult OKV Valve.

#### Body Seal and Stem Packing

PTFE as standard.  
Other packings are available, consult OKV Valve.

#### Operation

Valves are supplied with handle operator.  
A locking device or pneumatic and electric automation optionally available.

#### Seat / Seal Leakage

Conform to API 598 or ANSI B 16.34 or BS6755.  
All valves are tested to bubble-tight standards.

#### Design Specification

ANSI B 16.34  
BS 5351  
API 6D  
Face to face dimension -ANSI B 16.10  
Flange dimension - ANSI B 16.5  
BS 5251, NACE MR-01-75, and API 607 (BS6755) optionally available.

※ Monel, titanium, hastelloy C and other special materials are available to customer spec.

※ Fire safe or Anti-static are optional.

### TEST PRESSURE

Max. Working Pressure	Shell (Hydro)	Seats	
		Hydro	Pneu
1440	2175	1600	80

※ Body & seat rating given in above conform to API 598

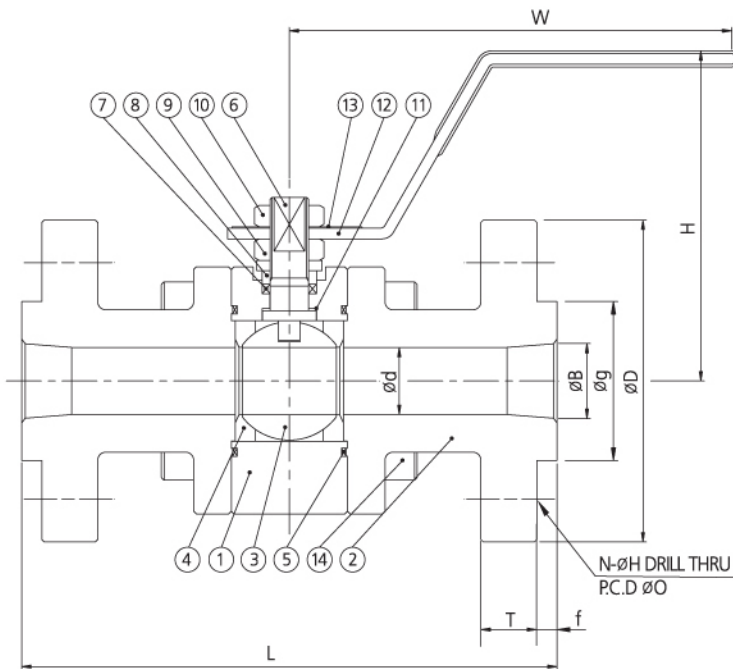
### DIMENSION TABLE

SIZE	DIMENSION(UINT - mm)											Approx Weight(kg)
	L	d	D	g	T	f	B	N-ØH	O	H	W	
1/2" x 3/8"	165	11	95.3	35	14.2	6.4	15.7	4-16	66.5	79	168	3.4
1/2" x 1/2"	165	14	95.3	35	14.2	6.4	15.7	4-16	66.5	84	168	4.1
3/4" x 1/2"	190	14	117.4	43	15.7	6.4	20.8	4-19	82.6	84	168	5.7
3/4" x 3/4"	190	20.5	117.4	43	15.7	6.4	20.8	4-19	82.6	97	180	6.1
1" x 3/4"	216	20.5	124	51	17.5	6.4	26.7	4-19	88.9	97	180	7.2
1" x 1"	216	25	124	51	17.5	6.4	26.7	4-19	88.9	119	198	8.0
1 1/4" x 1"	229	25	133.4	63.5	20.6	6.4	35	4-19	98.6	119	198	9.4
1 1/4" x 1 1/4"	229	32	133.4	63.5	20.6	6.4	35	4-19	98.6	123	198	11.2
1 1/2" x 1 1/4"	241	32	155.5	73	22.4	6.4	40.9	4-22	114.3	123	198	15.5
1 1/2" x 1 1/2"	241	38	155.5	73	22.4	6.4	40.9	4-22	114.3	128	198	17.6
2" x 1 1/2"	292	38	165	92	25.4	6.4	52.6	8-19	127	128	198	20
2" x 2"	292	50	165	92	25.4	6.4	52.6	8-19	127	131	280	25



# OKV 900# FLOATING BALL VALVE

## Integral RF Flanged Ends, Full and Reduce Bore.



### SPECIFICATION

**Valve Body Pressure Rating**

ANSI Class 900, Max 2160 psig @ 100° F

**Temperature Rating**

-20° F to 450° F, Max 450° F @100 psig.  
Dependent upon seal & seat choice.

**Body and End Piece**

Three-piece construction.  
Available in stainless or carbon steel.

**Body Bolts & Nuts**

ASTM A193 Gr B7(B8) or ASTM A194 Gr 2H(B8)  
Other Bolts are available according to body material.

**Ball and Stem**

316 stainless steel, balls are solid of forged or cast.

**Seats**

Reinforced PTEE seats.  
Other seats are available, consult OKV Valve.

**Body Seal and Stem Packing**

PTFE as standard.  
Other packings are available, consult OKV Valve.

**Operation**

Valves are supplied with handle operator.  
A locking device or pneumatic and electric automation optionally available.

**Seat / Seal Leakage**

Conform to API 598 or ANSI B 16.34 or BS6755.  
All valves are tested to bubble-tight standards.

**Design Specification**

ANSI B 16.34  
BS 5351  
API 6D  
Face to face dimension -ANSI B 16.10  
Flange dimension - ANSI B 16.5  
BS 5251, NACE MR-01-75, and API 607 (BS6755) optionally available.

※ Monel, titanium, hastelloy C and other special materials are available to customer spec.

※ Fire safe or Anti-static are optional.

### OKV STANDARD COMPONENT MATERIAL

NO	DESCRIPTION	CARBON STEEL		STAINLESS STEEL	
		A105	F304	F316	F316L
1	BODY	A105	A182-F304	A182-F316	A182-F316L
2	END CAP	A105	A182-F304	A182-F316	A182-F316L
3	BALL	A276-T316			A182-F316L
4	SEAT RING	RTFE - Teflon / 15% Glass Fiber Filled RTFE - Teflon / 25% Carbon Fiber Filled			
5	GASKET	O-RING, PTFE, GRAPHITE			
6	STEM	A276-T316			A182-F316L
7	PACKING	PTFE, GRAPHITE			
8	GLAND	A276-T316			
9	SPRING WASHER	A283D, Stainless Steel			
10	STEM NUT	A276-T304			
11	THRUST WASHER	RTFE - Teflon / 25% Carbon Fiber Filled			
12	LEVER	A283D	Stainless Steel		
13	NAME PLATE	ALUMINUM	Stainless Steel		
14	CONNECTING BOLT	A193-B7	A193-B8		

### TEST PRESSURE

Max. Working Pressure	Shell (Hydro)	Seats	
		Hydro	Pneu
2160	3250	2400	80

※ Body & seat rating given in above conform to API 598

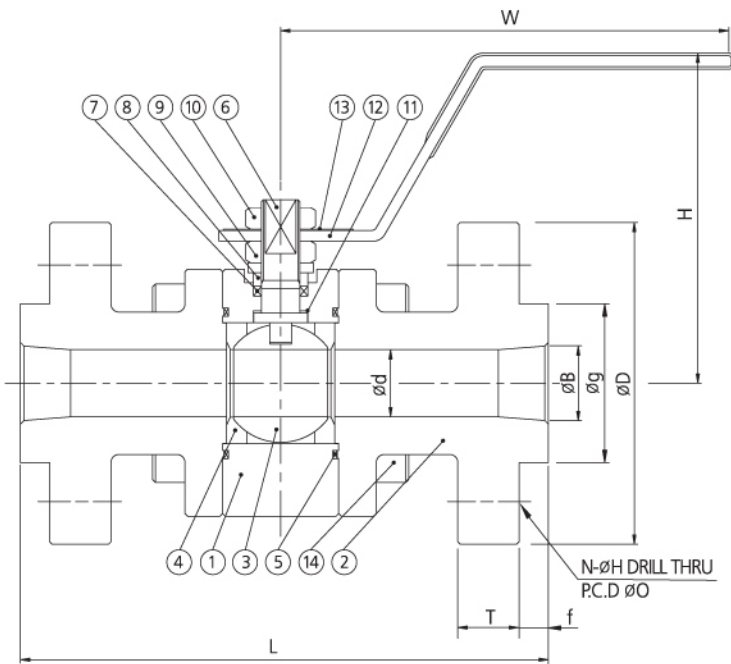
### DIMENSION TABLE

SIZE	DIMENSION (UNIT - mm)											Approx Weight(kg)
	L	d	D	g	T	f	B	N-øH	O	H	W	
1/2" x 3/8"	216	11	120.7	35	22.4	6.4	15.7	4-22	82.6	92	180	6.5
1/2" x 1/2"	216	14	120.7	35	22.4	6.4	15.7	4-22	82.6	92	180	8.4
3/4" x 1/2"	229	14	130	43	25.4	6.4	20.8	4-22	88.9	92	180	8.6
3/4" x 3/4"	229	20.5	130	43	25.4	6.4	20.8	4-22	88.9	114	198	10.6
1" x 3/4"	254	20.5	149.4	51	28.5	6.4	26.7	4-25	101.6	114	198	11.4
1" x 1"	254	25	149.4	51	28.5	6.4	26.7	4-25	101.6	119	198	14.2
1 1/4" x 1"	279	25	158.8	63.5	28.5	6.4	35	4-25	111.3	119	198	14.6
1 1/4" x 1 1/4"	279	32	158.8	63.5	28.5	6.4	35	4-25	111.3	123	198	18
1 1/2" x 1 1/4"	305	32	177.8	73	31.8	6.4	40.9	4-28	114.3	123	198	21.6
1 1/2" x 1 1/2"	305	38	177.8	73	31.8	6.4	40.9	4-28	114.3	129	198	27
2" x 1 1/2"	368	38	216	92	38	6.4	52.6	8-25	165	129	198	36
2" x 2"	368	50	216	92	38	6.4	52.6	8-25	165	134	280	40



# OKV 1500# FLOATING BALL VALVE

## Integral RF Flanged Ends, Full and Reduce Bore.



### SPECIFICATION

**Valve Body Pressure Rating**

ANSI Class 1500, Max 3600 psig @ 100° F

**Temperature Rating**

-20° F to 176° F, Max 176° F @100 psig.  
Dependent upon seal & seat choice.

**Body and End Piece**

Three-piece construction.  
Available in stainless or carbon steel.

**Body Bolts & Nuts**

ASTM A193 Gr B7(B8) or ASTM A194 Gr 2H(B8)  
Other Bolts are available according to body material.

**Ball and Stem**

316 stainless steel, balls are solid of forged or cast.

**Seats**

NYLON seats.

**Body Seal and Stem Packing**

PTFE as standard.  
Other packings are available, consult OKV Valve.

**Operation**

Valves are supplied with handle operator.  
A locking device or pneumatic and electric automation optionally available.

**Seat / Seal Leakage**

Conform to API 598 or ANSI B 16.34 or BS6755.  
All valves are tested to bubble-tight standards.

**Design Specification**

ANSI B 16.34  
BS 5351  
API 6D  
Face to face dimension -ANSI B 16.10  
Flange dimension - ANSI B 16.5  
BS 5251, NACE MR-01-75, and API 607 (BS6755) optionally available.

- ※ Monel, titanium, hastelloy C and other special materials are available to customer spec.
- ※ Fire safe or Anti-static are optional.

### OKV STANDARD COMPONENT MATERIAL

NO	DESCRIPTION	CARBON STEEL		STAINLESS STEEL	
		A105	F304	F316	F316L
1	BODY	A105	A182-F304	A182-F316	A182-F316L
2	END CAP	A105	A182-F304	A182-F316	A182-F316L
3	BALL	A276-T316		A182-F316L	
4	SEAT RING	NYLON			
5	GASKET	O-RING, PTFE, GRAPHITE			
6	STEM	A276-T316		A182-F316L	
7	PACKING	PTFE, GRAPHITE			
8	GLAND	A276-T316			
9	SPRING WASHER	A283D, Stainless Steel			
10	STEM NUT	A276-T304			
11	THRUST WASHER	RTFE - Teflon / 25% Carbon Fiber Filled			
12	LEVER	A283D	Stainless Steel		
13	NAME PLATE	ALUMINUM	Stainless Steel		
14	CONNECTING BOLT	A193-B7	A193-B8		

### TEST PRESSURE

Max. Working Pressure	Shell (Hydro)	Seats	
		Hydro	Pneu
3600	5400	4000	80

※ Body & seat rating given in above conform to API 598

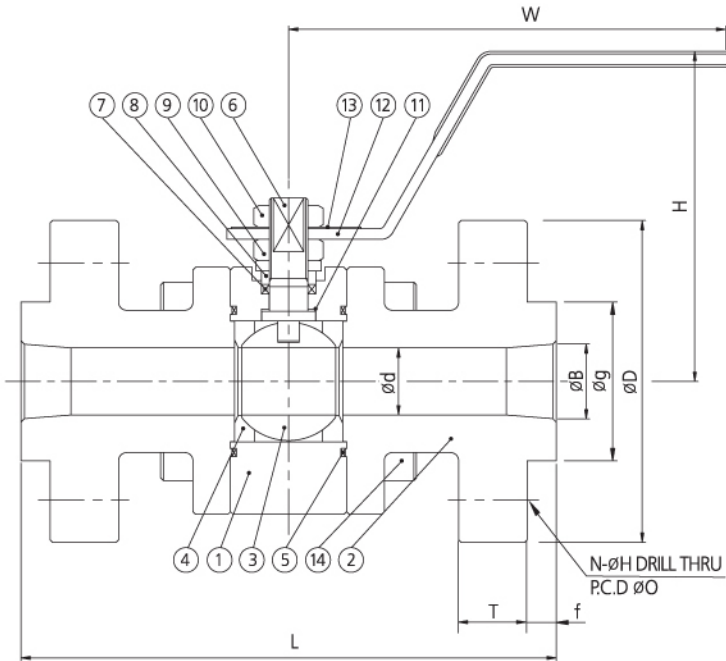
### DIMENSION TABLE

SIZE	DIMENSION(UINT - mm)											Approx Weight(kg)
	L	d	D	g	T	f	B	N-ØH	O	H	W	
1/2" x 3/8"	216	11	120.7	35	22.4	6.4	15.7	4-22	82.6	92	180	6.5
1/2" x 1/2"	216	14	120.7	35	22.4	6.4	15.7	4-22	82.6	92	180	8.4
3/4" x 1/2"	229	14	130	43	25.4	6.4	20.8	4-22	88.9	92	180	8.6
3/4" x 3/4"	229	20.5	130	43	25.4	6.4	20.8	4-22	88.9	114	198	10.6
1" x 3/4"	254	20.5	149.4	51	28.5	6.4	26.7	4-25	101.6	114	198	11.4
1" x 1"	254	25	149.4	51	28.5	6.4	26.7	4-25	101.6	119	198	14.2
1 1/4" x 1"	279	25	158.8	63.5	28.5	6.4	35	4-25	111.3	119	198	14.6
1 1/4" x 1 1/4"	279	32	158.8	63.5	28.5	6.4	35	4-25	111.3	123	198	18
1 1/2" x 1 1/4"	305	32	177.8	73	31.8	6.4	40.9	4-28	114.3	123	198	21.6
1 1/2" x 1 1/2"	305	38	177.8	73	31.8	6.4	40.9	4-28	114.3	129	198	27
2" x 1 1/2"	368	38	216	92	38	6.4	52.6	8-25	165	129	198	36
2" x 2"	368	50	216	92	38	6.4	52.6	8-25	165	134	280	40



# OKV 2500# FLOATING BALL VALVE

## Integral RF Flanged Ends, Full Bore.



### SPECIFICATION

**Valve Body Pressure Rating**

ANSI Class 2500, Max 6000 psig @ 100° F

**Temperature Rating**

-20° F to 482° F, Max 482° F @100 psig.  
Dependent upon seal & seat choice.

**Body and End Piece**

Three-piece construction.  
Available in stainless or carbon steel.

**Body Bolts & Nuts**

ASTM A193 Gr B7(B8) or ASTM A194 Gr 2H(B8)  
Other Bolts are available according to body material.

**Ball and Stem**

316 stainless steel, balls are solid of forged or cast.

**Seats**

PEEK seats.

**Body Seal and Stem Packing**

PTFE as standard.  
Other packings are available, consult OKV Valve.

**Operation**

Valves are supplied with handle operator.  
A locking device or pneumatic and electric automation optionally available.

**Seat / Seal Leakage**

Conform to API 598 or ANSI B 16.34 or BS6755.  
All valves are tested to bubble-tight standards.

**Design Specification**

ANSI B 16.34  
BS 5351  
API 6D  
Face to face dimension - ANSI B 16.10  
Flange dimension - ANSI B 16.5  
BS 5251, NACE MR-01-75, and API 607 (BS6755) optionally available.

- ※ Monel, titanium, hastelloy C and other special materials are available to customer spec.
- ※ Fire safe or Anti-static are optional.

### OKV STANDARD COMPONENT MATERIAL

NO	DESCRIPTION	CARBON STEEL		STAINLESS STEEL	
		A105	F304	F316	F316L
1	BODY	A105	A182-F304	A182-F316	A182-F316L
2	END CAP	A105	A182-F304	A182-F316	A182-F316L
3	BALL		A276-T316		A182-F316L
4	SEAT RING	PEEK			
5	GASKET	O-RING, PTFE, GRAPHITE			
6	STEM		A276-T316		A182-F316L
7	PACKING	PTFE, GRAPHITE			
8	GLAND	A276-T316			
9	SPRING WASHER	A283D, Stainless Steel			
10	STEM NUT	A276-T304			
11	THRUST WASHER	RTFE - Teflon / 25% Carbon Fiber Filled			
12	LEVER	A283D		Stainless Steel	
13	NAME PLATE	ALUMINUM		Stainless Steel	
14	CONNECTING BOLT	A193-B7		A193-B8	

### TEST PRESSURE

Max. Working Pressure	Shell (Hydro)	Seats	
		Hydro	Pneu
6000	9000	6600	80

※ Body & seat rating given in above conform to API 598

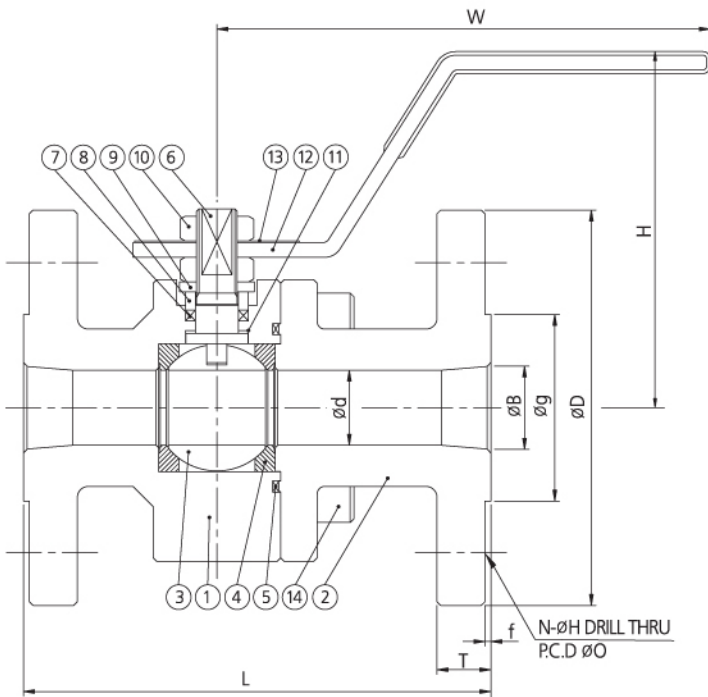
### DIMENSION TABLE

SIZE	DIMENSION (UNIT - mm)											Approx Weight(kg)
	L	d	D	g	T	f	B	N-øH	O	H	W	
1/2" x 3/8"	264	9	133.4	35	30.2	6.4	12	4-22	88.9	92	198	11
1/2" x 1/2"	264	12	133.4	35	30.2	6.4	12	4-22	88.9	95	198	12.5
3/4" x 1/2"	273	12	139.7	43	31.8	6.4	18	4-22	95.3	95	198	14.5
3/4" x 3/4"	273	18	139.7	43	31.8	6.4	18	4-22	95.3	110	280	16
1" x 3/4"	308	18	158.8	51	35.1	6.4	22	4-25	108	110	280	23.4
1" x 1"	308	22	158.8	51	35.1	6.4	22	4-25	108	125	280	26
1 1/4" x 1"	349	22	184.2	63.5	38.1	6.4	28	4-28	130	125	350	32.1
1 1/4" x 1 1/4"	349	28	184.2	63.5	38.1	6.4	28	4-28	130	140	350	33.5
1 1/2" x 1 1/4"	384	28	203.2	73	44.5	6.4	32	4-32	146	140	350	42.7
1 1/2" x 1 1/2"	381	32	203.2	73	44.5	6.4	32	4-32	146	150	350	45.8
2" x 1 1/2"	451	32	235	92	50.8	6.4	41	8-28	171.5	150	350	63.2
2" x 2"	451	41	235	92	50.8	6.4	41	8-28	171.5	160	400	67



# OKV 10K FLOATING BALL VALVE

## Integral RF Flanged Ends, Full and Reduce Bore.



### SPECIFICATION

**Valve Body Pressure Rating**

JIS / KS 10K, Max 14kg/cm<sup>2</sup> @ 100° F

**Temperature Rating**

-20° F to 450° F, Max 450° F @100 psig.  
Dependent upon seal & seat choice.

**Body and End Piece**

Two-piece construction.  
Available in stainless or carbon steel.

**Body Bolts & Nuts**

ASTM A193 Gr B7(B8) or ASTM A194 Gr 2H(B8)  
Other Bolts are available according to body material.

**Ball and Stem**

316 stainless steel, balls are solid of forged or cast.

**Seats**

Rainforced PTEE seats.  
Other seats are available, consult OKV Valve.

**Body Seal and Stem Packing**

PTFE as standard.  
Other packings are available, consult OKV Valve.

**Operation**

Valves are supplied with handle operator.  
A locking device or pneumatic and electric automation optionally available.

**Seat / Seal Leakage**

Conform to API 598 or ANSI B 16.34 or BS6755.  
All valves are tested to bubble-tight standards.

**Design Specification**

ANSI B 16.34  
BS 5351  
API 6D  
Face to face dimension JIS B 2002  
Flange dimension JIS B2220  
BS 5251, NACE MR-01-75, and API 607 (BS6755) optionally available.

※ Monel, titanium, hastelloy C and other special materials are available to customer spec.

※ Fire safe or Anti-static are optional.

### OKV STANDARD COMPONENT MATERIAL

NO	DESCRIPTION	CARBON STEEL		STAINLESS STEEL	
		A105	F304	F316	F316L
1	BODY	A105	A182-F304	A182-F316	A182-F316L
2	END CAP	A105	A182-F304	A182-F316	A182-F316L
3	BALL	A276-T316		A182-F316L	
4	SEAT RING	RTFE - Teflon / 15% Glass Fiber Filled RTFE - Teflon / 25% Carbon Fiber Filled			
5	GASKET	O-RING, PTFE, GRAPHITE			
6	STEM	A276-T316		A182-F316L	
7	PACKING	PTFE, GRAPHITE			
8	GLAND	A276-T316			
9	SPRING WASHER	A283D, Stainless Steel			
10	STEM NUT	A276-T304			
11	THRUST WASHER	RTFE - Teflon / 25% Carbon Fiber Filled			
12	LEVER	A283D	Stainless Steel		
13	NAME PLATE	ALUMINUM	Stainless Steel		
14	CONNECTING BOLT	A193-B7	A193-B8		

### TEST PRESSURE

Max. Working Pressure	Shell (Hydro)	Seats	
		Hydro	Pneu
14	20	16	6

※ Body & seat rating given in above conform to JIS B 2003 / KS B 2304

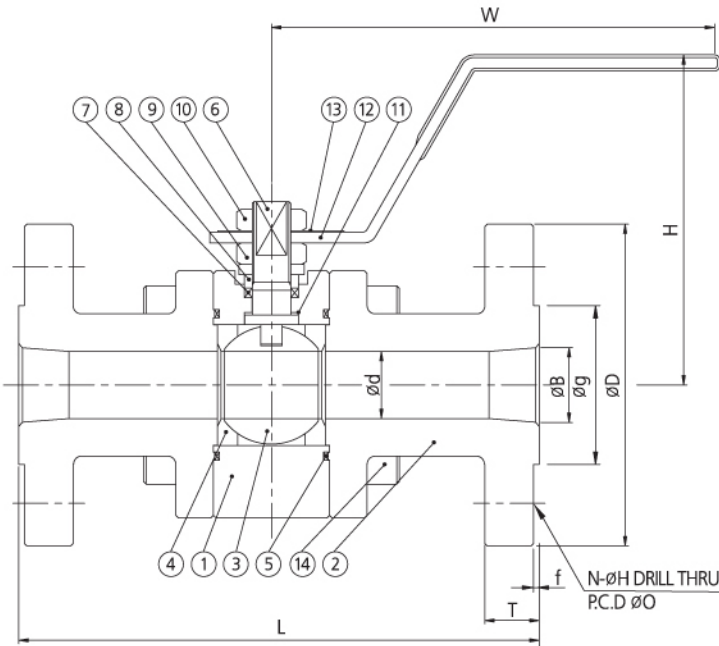
### DIMENSION TABLE

SIZE	DIMENSION(UINT - mm)											Approx Weight(kg)
	L	d	D	g	T	f	B	N-ØH	O	H	W	
1/2" x 3/8"	108	11	95	51	12	1	15	4-15	70	79	168	2.2
1/2" x 1/2"	108	14	95	51	12	1	15	4-15	70	84	168	2.4
3/4" x 1/2"	117	14	100	56	14	1	20	4-15	75	84	168	2.8
3/4" x 3/4"	117	20.5	100	56	14	1	20	4-15	75	97	180	3.5
1" x 3/4"	127	20.5	125	67	14	1	25	4-19	90	97	180	4.9
1" x 1"	127	25	125	67	14	1	25	4-19	90	110	198	5.8
1 1/4" x 1"	140	25	135	76	16	2	32	4-19	100	110	198	6.6
1 1/4" x 1 1/4"	140	32	135	76	16	2	32	4-19	100	122	198	6.9
1 1/2" x 1 1/4"	165	32	140	81	16	2	40	4-19	105	122	198	7.8
1 1/2" x 1 1/2"	165	38	140	81	16	2	40	4-19	105	127	198	9.0
2" x 1 1/2"	178	38	155	96	16	2	50	4-19	120	127	198	11.3
2" x 2"	178	50	155	96	16	2	50	4-19	120	131	280	14.5



# OKV 20K FLOATING BALL VALVE

## Integral RF Flanged Ends, Full and Reduce Bore.



### SPECIFICATION

**Valve Body Pressure Rating**

JIS / KS 20K, Max 34kg/cm<sup>2</sup> @ 100° F

**Temperature Rating**

-20° F to 450° F, Max 450° F @100 psig.  
Dependent upon seal & seat choice.

**Body and End Piece**

Three-piece construction.  
Available in stainless or carbon steel.

**Body Bolts & Nuts**

ASTM A193 Gr B7(B8) or ASTM A194 Gr 2H(B8)  
Other Bolts are available according to body material.

**Ball and Stem**

316 stainless steel, balls are solid of forged or cast.

**Seats**

Rainforced PTEE seats.  
Other seats are available, consult OKV Valve.

**Body Seal and Stem Packing**

PTFE as standard.  
Other packings are available, consult OKV Valve.

**Operation**

Valves are supplied with handle operator.  
A locking device or pneumatic and electric automation optionally available.

**Seat / Seal Leakage**

Conform to API 598 or ANSI B 16.34 or BS6755.  
All valves are tested to bubble-tight standards.

**Design Specification**

ANSI B 16.34  
BS 5351  
API 6D  
Face to face dimension JIS B 2002  
Flange dimension JIS B2220  
BS 5251, NACE MR-01-75, and API 607 (BS6755) optionally available.

※ Monel, titanium, hastelloy C and other special materials are available to customer spec.

※ Fire safe or Anti-static are optional.

### OKV STANDARD COMPONENT MATERIAL

NO	DESCRIPTION	CARBON STEEL		STAINLESS STEEL	
		A105	F304	F316	F316L
1	BODY	A105	A182-F304	A182-F316	A182-F316L
2	END CAP	A105	A182-F304	A182-F316	A182-F316L
3	BALL	A276-T316		A182-F316L	
4	SEAT RING	RTFE - Teflon / 15% Glass Fiber Filled RTFE - Teflon / 25% Carbon Fiber Filled			
5	GASKET	O-RING, PTFE, GRAPHITE			
6	STEM	A276-T316		A182-F316L	
7	PACKING	PTFE, GRAPHITE			
8	GLAND	A276-T316			
9	SPRING WASHER	A283D, Stainless Steel			
10	STEM NUT	A276-T304			
11	THRUST WASHER	RTFE - Teflon / 25% Carbon Fiber Filled			
12	LEVER	A283D	Stainless Steel		
13	NAME PLATE	ALUMINUM	Stainless Steel		
14	CONNECTING BOLT	A193-B7	A193-B8		

### TEST PRESSURE

Max. Working Pressure	Shell (Hydro)	Seats	
		Hydro	Pneu
34	50	38	6

※ Body & seat rating given in above conform to JIS B 2003 / KS B 2304

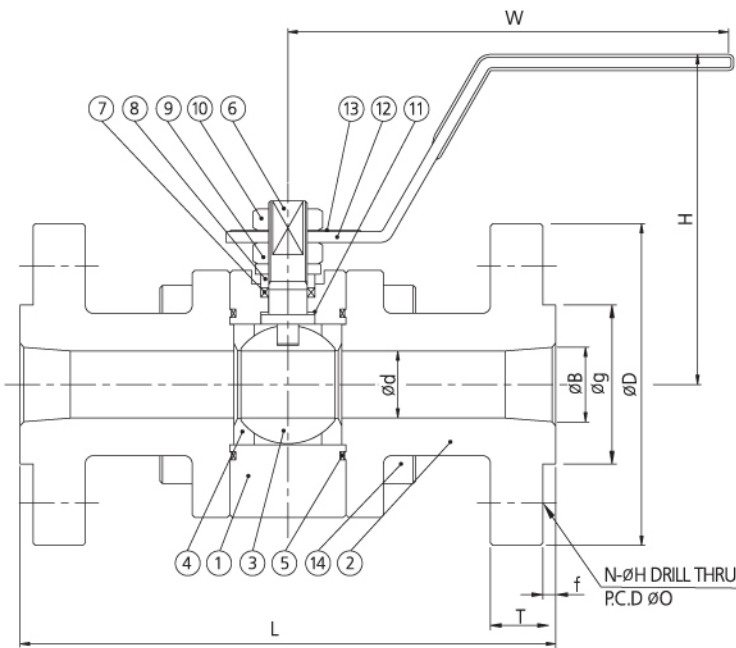
### DIMENSION TABLE

SIZE	DIMENSION (UNIT - mm)											Approx Weight(kg)
	L	d	D	g	T	f	B	N-øH	O	H	W	
1/2" x 3/8"	140	11	95	51	14	1	15	4-15	70	79	168	2.4
1/2" x 1/2"	140	14	95	51	14	1	15	4-15	70	84	168	2.9
3/4" x 1/2"	152	14	100	56	16	1	20	4-15	75	84	168	4.2
3/4" x 3/4"	152	20.5	100	56	16	1	20	4-15	75	97	180	5.0
1" x 3/4"	165	20.5	125	67	16	1	25	4-19	90	97	180	5.4
1" x 1"	165	25	125	67	16	1	25	4-19	90	110	198	6.5
1 1/4" x 1"	178	25	135	76	18	2	32	4-19	100	110	198	6.7
1 1/4" x 1 1/4"	178	32	135	76	18	2	32	4-19	100	122	198	8.0
1 1/2" x 1 1/4"	190	32	140	81	18	2	40	4-19	105	122	198	11.2
1 1/2" x 1 1/2"	190	38	140	81	18	2	40	4-19	105	127	198	13.4
2" x 1 1/2"	216	38	155	96	18	2	50	8-19	120	127	198	13.8
2" x 2"	216	50	155	96	18	2	50	8-19	120	131	280	16.6



# OKV 30K FLOATING BALL VALVE

## Integral RF Flanged Ends, Full and Reduce Bore.



### SPECIFICATION

**Valve Body Pressure Rating**

JIS / KS 30K, Max 51kg/cm<sup>2</sup> @ 100° F

**Temperature Rating**

-20° F to 450° F, Max 450° F @100 psig.  
Dependent upon seal & seat choice.

**Body and End Piece**

Three-piece construction.  
Available in stainless or carbon steel.

**Body Bolts & Nuts**

ASTM A193 Gr B7(B8) or ASTM A194 Gr 2H(B8)  
Other Bolts are available according to body material.

**Ball and Stem**

316 stainless steel, balls are solid of forged or cast.

**Seats**

Reinforced PTEE seats.  
Other seats are available, consult OKV Valve.

**Body Seal and Stem Packing**

PTFE as standard.  
Other packings are available, consult OKV Valve.

**Operation**

Valves are supplied with handle operator.  
A locking device or pneumatic and electric automation optionally available.

**Seat / Seal Leakage**

Conform to API 598 or ANSI B 16.34 or BS6755.  
All valves are tested to bubble-tight standards.

**Design Specification**

ANSI B 16.34  
BS 5351  
API 6D  
Face to face dimension JIS B 2002  
Flange dimension JIS B2220  
BS 5251, NACE MR-01-75, and API 607 (BS6755) optionally available.

※ Monel, titanium, hastelloy C and other special materials are available to customer spec.

※ Fire safe or Anti-static are optional.

### OKV STANDARD COMPONENT MATERIAL

NO	DESCRIPTION	CARBON STEEL		STAINLESS STEEL	
		A105	F304	F316	F316L
1	BODY	A105	A182-F304	A182-F316	A182-F316L
2	END CAP	A105	A182-F304	A182-F316	A182-F316L
3	BALL	A276-T316		A182-F316L	
4	SEAT RING	RTFE - Teflon / 15% Glass Fiber Filled RTFE - Teflon / 25% Carbon Fiber Filled			
5	GASKET	O-RING, PTFE, GRAPHITE			
6	STEM	A276-T316		A182-F316L	
7	PACKING	PTFE, GRAPHITE			
8	GLAND	A276-T316			
9	SPRING WASHER	A283D, Stainless Steel			
10	STEM NUT	A276-T304			
11	THRUST WASHER	RTFE - Teflon / 25% Carbon Fiber Filled			
12	LEVER	A283D	Stainless Steel		
13	NAME PLATE	ALUMINUM	Stainless Steel		
14	CONNECTING BOLT	A193-B7		A193-B8	

### TEST PRESSURE

Max. Working Pressure	Shell (Hydro)	Seats	
		Hydro	Pneu
51	75	57	6

※ Body & seat rating given in above conform to JIS B 2003 / KS B 2304

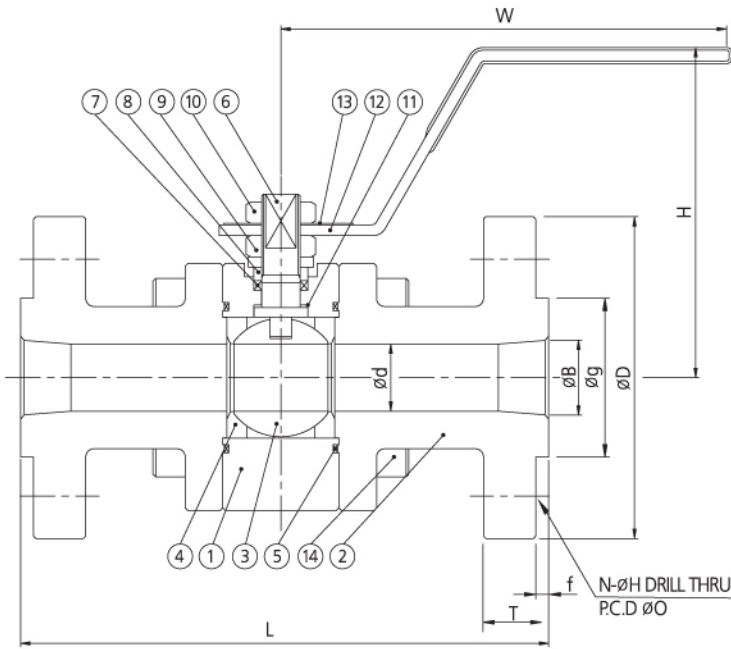
### DIMENSION TABLE

SIZE	DIMENSION(UINT - mm)											Approx Weight(kg)
	L	d	D	g	T	f	B	N-øH	O	H	W	
1/2" x 3/8"	165	11	115	55	18	1	15	4-19	80	79	168	3.7
1/2" x 1/2"	165	14	115	55	18	1	15	4-19	80	84	168	4.6
3/4" x 1/2"	190	14	120	60	18	1	20	4-19	85	84	168	5.0
3/4" x 3/4"	190	20.5	120	60	18	1	20	4-19	85	97	180	6.2
1" x 3/4"	216	20.5	130	70	20	1	25	4-19	95	97	180	7.0
1" x 1"	216	25	130	70	20	1	25	4-19	95	110	198	8.4
1 1/4" x 1"	229	25	140	80	22	2	32	4-19	105	110	198	8.6
1 1/4" x 1 1/4"	229	32	140	80	22	2	32	4-19	105	122	198	10.4
1 1/2" x 1 1/4"	241	32	160	90	22	2	40	4-23	120	122	198	13
1 1/2" x 1 1/2"	241	38	160	90	22	2	40	4-23	120	127	198	15.6
2" x 1 1/2"	292	38	165	105	22	2	50	8-19	130	127	198	18
2" x 2"	292	50	165	105	22	2	50	8-19	130	131	280	21.6



# OKV 40K FLOATING BALL VALVE

## Integral RF Flanged Ends, Full and Reduce Bore.



### SPECIFICATION

**Valve Body Pressure Rating**

JIS / KS 40K, Max 68kg/cm<sup>2</sup> @ 100° F

**Temperature Rating**

-20° F to 450° F, Max 450° F @100 psig.  
Dependent upon seal & seat choice.

**Body and End Piece**

Three-piece construction.  
Available in stainless or carbon steel.

**Body Bolts & Nuts**

ASTM A193 Gr B7(B8) or ASTM A194 Gr 2H(B8)  
Other Bolts are available according to body material.

**Ball and Stem**

316 stainless steel, balls are solid of forged or cast.

**Seats**

Rainforced PTEE seats.  
Other seats are available, consult OKV Valve.

**Body Seal and Stem Packing**

PTFE as standard.  
Other packings are available, consult OKV Valve.

**Operation**

Valves are supplied with handle operator.  
A locking device or pneumatic and electric automation optionally available.

**Seat / Seal Leakage**

Conform to API 598 or ANSI B 16.34 or BS6755.  
All valves are tested to bubble-tight standards.

**Design Specification**

ANSI B 16.34  
BS 5351  
API 6D  
Face to face dimension JIS B 2002  
Flange dimension JIS B2220  
BS 5251, NACE MR-01-75, and API 607 (BS6755) optionally available.

※ Monel, titanium, hastelloy C and other special materials are available to customer spec.

※ Fire safe or Anti-static are optional.

### OKV STANDARD COMPONENT MATERIAL

NO	DESCRIPTION	CARBON STEEL		STAINLESS STEEL	
		A105	F304	F316	F316L
1	BODY	A105	F304	F316	F316L
2	END CAP	A105	A182-F304	A182-F316	A182-F316L
3	BALL	A276-T316		A182-F316L	
4	SEAT RING	RTFE - Teflon / 15% Glass Fiber Filled RTFE - Teflon / 25% Carbon Fiber Filled			
5	GASKET	O-RING, PTFE, GRAPHITE			
6	STEM	A276-T316		A182-F316L	
7	PACKING	PTFE, GRAPHITE			
8	GLAND	A276-T316			
9	SPRING WASHER	A283D, Stainless Steel			
10	STEM NUT	A276-T304			
11	THRUST WASHER	RTFE - Teflon / 25% Carbon Fiber Filled			
12	LEVER	A283D	Stainless Steel		
13	NAME PLATE	ALUMINUM	Stainless Steel		
14	CONNECTING BOLT	A193-B7	A193-B8		

### TEST PRESSURE

Max. Working Pressure	Shell (Hydro)	Seats	
		Hydro	Pneu
68	100	75	6

※ Body & seat rating given in above conform to JIS B 2003 / KS B 2304

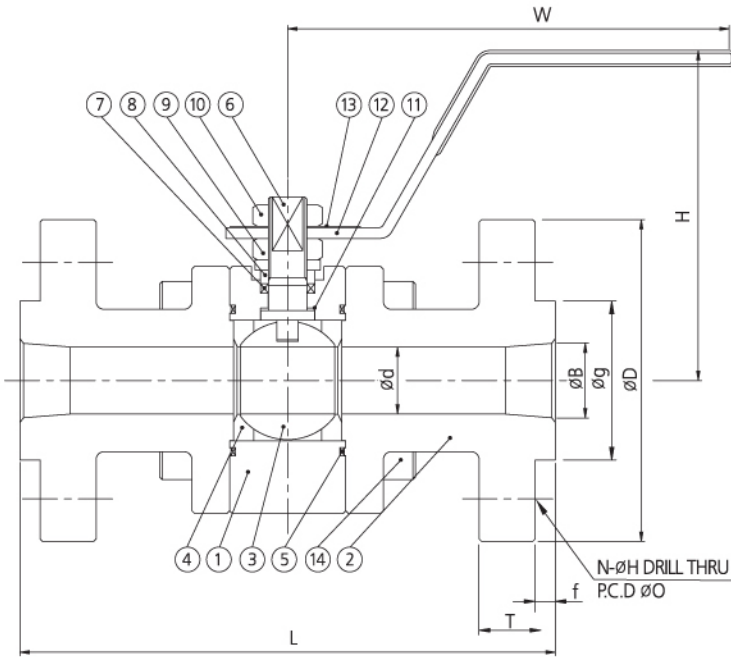
### DIMENSION TABLE

SIZE	DIMENSION (UNIT - mm)											Approx Weight(kg)
	L	d	D	g	T	f	B	N-ØH	O	H	W	
1/2" x 3/8"	165	11	115	55	20	1	15	4-19	80	79	168	3.9
1/2" x 1/2"	165	14	115	55	20	1	15	4-19	80	84	168	4.9
3/4" x 1/2"	190	14	120	60	20	1	20	4-19	85	84	168	5.2
3/4" x 3/4"	190	20.5	120	60	20	1	20	4-19	85	97	180	6.5
1" x 3/4"	216	20.5	130	70	22	1	25	4-19	95	97	180	7.3
1" x 1"	216	25	130	70	22	1	25	4-19	95	119	198	8.7
1 1/4" x 1"	229	25	140	80	24	2	32	4-19	105	119	198	8.9
1 1/4" x 1 1/4"	229	32	140	80	24	2	32	4-19	105	123	198	10.9
1 1/2" x 1 1/4"	241	32	160	90	24	2	40	4-23	120	123	198	13.5
1 1/2" x 1 1/2"	241	38	160	90	24	2	40	4-23	120	128	198	16.2
2" x 1 1/2"	292	38	165	105	26	2	50	8-19	130	128	198	18.5
2" x 2"	292	50	165	105	26	2	50	8-19	130	131	280	22.1



# OKV 63K FLOATING BALL VALVE

## Integral RF Flanged Ends, Full and Reduce Bore.



### SPECIFICATION

**Valve Body Pressure Rating**

JIS / KS 63K, Max 107kg/cm<sup>2</sup> @ 100° F

**Temperature Rating**

-20° F to 450° F, Max 450° F @100 psig.  
Dependent upon seal & seat choice.

**Body and End Piece**

Three-piece construction.  
Available in stainless or carbon steel.

**Body Bolts & Nuts**

ASTM A193 Gr B7(B8) or ASTM A194 Gr 2H(B8)  
Other Bolts are available according to body material.

**Ball and Stem**

316 stainless steel, balls are solid of forged or cast.

**Seats**

NYLON seats.

**Body Seal and Stem Packing**

PTFE as standard.  
Other packings are available, consult OKV Valve.

**Operation**

Valves are supplied with handle operator.  
A locking device or pneumatic and electric automation optionally available.

**Seat / Seal Leakage**

Conform to API 598 or ANSI B 16.34 or BS6755.  
All valves are tested to bubble-tight standards.

**Design Specification**

ANSI B 16.34  
BS 5351  
API 6D  
Face to face dimension JIS B 2002  
Flange dimension JIS B2220  
BS 5251, NACE MR-01-75, and API 607 (BS6755) optionally available.

- ※ Monel, titanium, hastelloy C and other special materials are available to customer spec.
- ※ Fire safe or Anti-static are optional.

### OKV STANDARD COMPONENT MATERIAL

NO	DESCRIPTION	CARBON STEEL		STAINLESS STEEL	
		A105	F304	F316	F316L
1	BODY	A105	A182-F304	A182-F316	A182-F316L
2	END CAP	A105	A182-F304	A182-F316	A182-F316L
3	BALL	A276-T316		A182-F316L	
4	SEAT RING	NYLON			
5	GASKET	O-RING, PTFE, GRAPHITE			
6	STEM	A276-T316		A182-F316L	
7	PACKING	PTFE, GRAPHITE			
8	GLAND	A276-T316			
9	SPRING WASHER	A283D, Stainless Steel			
10	STEM NUT	A276-T304			
11	THRUST WASHER	RTFE - Teflon / 25% Carbon Fiber Filled			
12	LEVER	A283D	Stainless Steel		
13	NAME PLATE	ALUMINUM	Stainless Steel		
14	CONNECTING BOLT	A193-B7	A193-B8		

### TEST PRESSURE

Max. Working Pressure	Shell (Hydro)	Seats (kg/cm <sup>2</sup> )	
		Hydro	Pneu
107	160	118	6

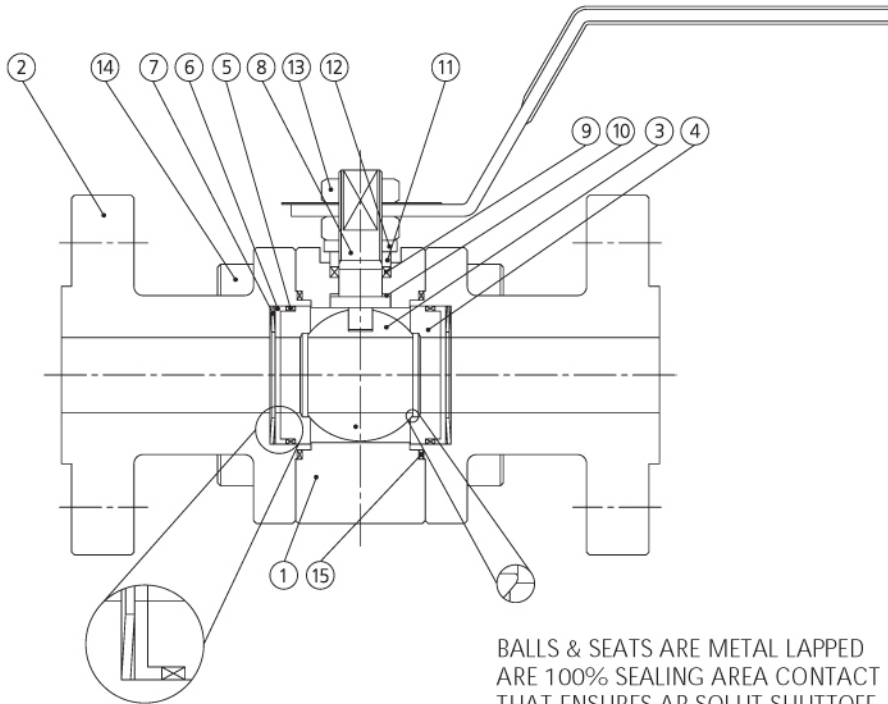
※ Body & seat rating given in above conform to JIS B 2003 / KS B 2304

### DIMENSION TABLE

SIZE	DIMENSION(UINT - mm)											Approx Weight(kg)
	L	d	D	g	T	f	B	N-ØH	O	H	W	
1/2" x 3/8"	216	11	120	55	23	1	15	4-19	85	92	180	6.5
1/2" x 1/2"	216	14	120	55	23	1	15	4-19	85	92	180	8.4
3/4" x 1/2"	229	14	135	60	25	1	20	4-23	95	92	180	8.6
3/4" x 3/4"	229	20.5	135	60	25	1	20	4-23	95	114	198	10.6
1" x 3/4"	254	20.5	140	70	27	1	25	4-23	100	114	198	11.4
1" x 1"	254	25	140	70	27	1	25	4-23	100	119	198	14.2
1 1/4" x 1"	279	25	150	80	30	2	32	4-23	110	119	198	14.6
1 1/4" x 1 1/4"	279	32	150	80	30	2	32	4-23	110	123	198	18
1 1/2" x 1 1/4"	305	32	175	90	32	2	40	4-25	130	123	198	21.6
1 1/2" x 1 1/2"	305	38	175	90	32	2	40	4-25	130	129	198	27
2" x 1 1/2"	368	38	185	105	34	2	50	8-23	145	129	198	28.4
2" x 2"	368	50	185	105	34	2	50	8-23	145	134	280	32



# OKV METAL SEATED BALL VALVE



LIVE LOAD SEAT

NO	DESCRIPTION
1	BODY
2	CONNECTOR
3	BALL
4	SEAT
5	SEAT SEAL
6	SEAT RETAINER
7	SEAT LOAD SPRING
8	STEM
9	PACKING
10	THRUST WASHER
11	GLAND
12	DISC SPRING
13	NUT
14	BOLT
15	BODY GASKET

BALLS & SEATS ARE METAL LAPPED  
ARE 100% SEALING AREA CONTACT  
THAT ENSURES ABSOLUTE SHUTOFF

## ➤ APPLICATIONS

- Liquids, gas and steam
- Chemical and petrochemical plants
- Oil and Gas production
- Power plants

## ➤ PRESSURER ATINGS

- Ansi Class 150,300,600

## ➤ SIZE RANGE

- 1/2" - 2"

## ➤ TEMPERATURE RANGE

- -50c ~ 400c. Consult OKV valve for higher temperature applications

## ➤ AVAILABLE END CONNECTIONS

- Socket weld, Thread end, Flange End.
- Per customer specification

## ➤ MATERIALS

- Body, Connector : Carbon & Stainless steel
- Ball : 316 + hard chrom plating.
- Seats : 316 + solid stellite6
- Packing, Seat seals : Graphite

## ➤ VALVE TIGHTNESS

- API 598. ANSI/FCI 70-2 Class V

## ➤ OPERATOR

- Manual, pneumatic or electric actuator



# Products Information

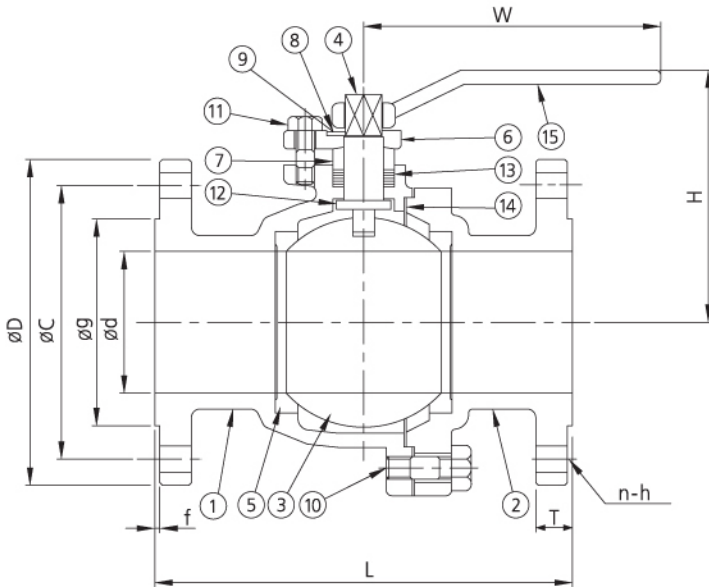
- 26 2-PIECE STANDARD PORT BALL VALVE  
BODY MATERIAL : STAINLEE STEEL, CARBON STEEL, CAST BRONZE  
SIZE : 1/2"~24" OR 15A~600A  
CLASS : **ANSI 150LBS & JIS 10K**  
DESIGN : API 6D
  
- 27 2-PIECE STANDARD PORT BALL VALLVE  
BODY MATERIAL : STAINLESS STEEL, CARBON STEEL, CAST BRONZE  
SIZE : 1/2"~24 OR 15A~600A  
CLASS : **ANSI 300LBS & JIS 20K**  
DESIGN : API 6D
  
- 28 2-PIECE STANDARD PORT BALL VALLVE  
BODY MATERIAL : STAINLESS STEEL, CARBON STEEL  
SIZE : 1/2"~10 OR 15A~600A  
CLASS : **ANSI 150LBS & JIS 10K**  
DESIGN : API 6D
  
- 29 2-PIECE STANDARD PORT BALL VALLVE  
BODY MATERIAL : STAINLESS STEEL, CARBON STEEL  
SIZE : 1/2"~10 OR 15A~600A  
CLASS : **ANSI 150LBS & DIN PN16, DIN PN40**  
DESIGN : API 6D





# OKV 2-PIECE STANDARD PORT BALL VALVE

## 300LBS & JIS 20K



### SPECIFICATION

**FEATURES** Flange : ANSI B16.5 class 150 / JIS 20K B2214

Face to face : ANSI B16.10

Mounting Pad for ISO 5211

Test & Inspection : API 598

Fire safe design : API 607

Anti-static device

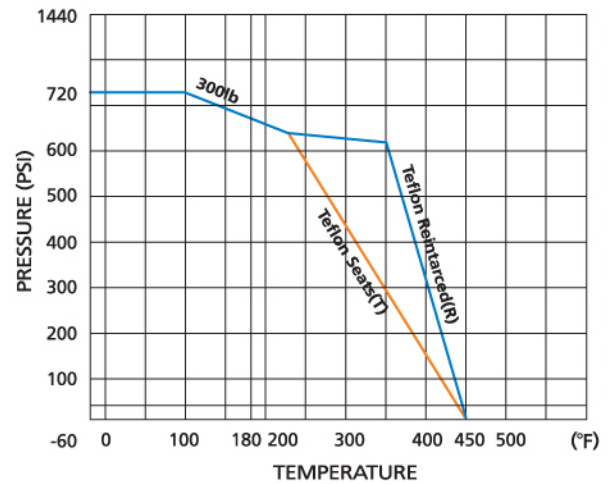
Blow-out proof stem, lever operated

Standard bore, solid ball

**OPTION** Locking device

### OKV STANDARD COMPONENT MATERIAL

NO	DESCRIPTION	STAINLESS STEEL		CARBON STEEL	CAST BRONZE
		A351-CF8M	A351-CF8		
1	BODY	A351-CF8M	A351-CF8	A216-WCB	ASTM B61-C8360C
2	CAP	A351-CF8M	A351-CF8	A216-WCB	ASTM B61-C8360C
3	BALL	A351-CF8M	A351-CF8	A351-CF8M	ASTM B61-C8360C or A351-CF8M
4	STEM	A351-CF8M	A351-CF8	A351-CF8M	ASTM B124-C37700
5	SEAT RING	PTFE			
6	GLAND PLATE	ASTM A240-304			
7	GLAND RING	ASTM A240-304			
8	STOPPER	ASTM A240-304			
9	SANP RING	ASTM A240-304			
10	BOLT	ASTM A193-B8			
11	BOLT	ASTM A193-B8			
12	THRUST WASHER	PTFE			
13	PACKING	PTFE, GRAPHITE			
14	GASKET	O-RING, PTFE, GRAPHITE			
15	LEVER	SS304, WCB, SS400 W/GAL'V			



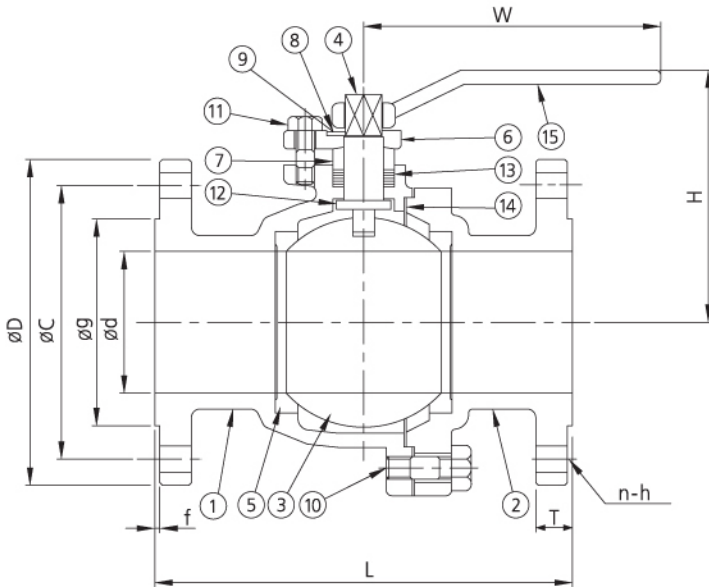
### DIMENSION TABLE

SIZE	DIMENSION(UINT - mm)											ISO-5211
	d	D	C	g	f	T	n	h	L	H	W	
1/2"	15	95	66.5	35	1.6	14.3	4	16	140	85	160	F04
3/4"	20	117	82.5	43	1.6	15.9	4	19	152	90	160	F04
1"	25	124	89.0	51	1.6	17.5	4	19	165	100	160	F04
1-1/2"	40	156	114.5	73	1.6	20.7	4	22	190	110	206	F07
2"	50	165	127.0	92	1.6	22.3	8	19	216	120	206	F07
2-1/2"	65	190	149.0	105	1.6	25.4	8	22	241	160	324	F07
3"	80	210	168.0	127	1.6	28.6	8	22	283	170	324	F10
4"	98	254	200.0	157	1.6	31.8	8	22	305	185	324	F10
5"	125	279	235.0	186	1.6	35.0	8	22	381	260	650	F12
6"	150	318	270.0	216	1.6	36.6	12	22	403	280	650	F12
8"	198	381	330.0	270	1.6	41.3	12	25	502	340	850	F12



# OKV 2-PIECE STANDARD PORT BALL VALVE

## 300LBS & JIS 20K



### SPECIFICATION

**FEATURES** Flange : ANSI B16.5 class 150 / JIS 20K B2214

Face to face : ANSI B16.10

Mounting Pad for ISO 5211

Test & Inspection : API 598

Fire safe design : API 607

Anti-static device

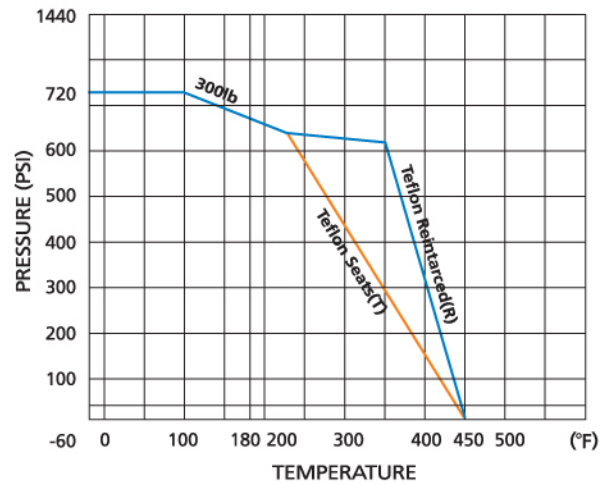
Blow-out proof stem, lever operated

Standard bore, solid ball

**OPTION** Locking device

### OKV STANDARD COMPONENT MATERIAL

NO	DESCRIPTION	STAINLESS STEEL		CARBON STEEL	CAST BRONZE
		A351-CF8M	A351-CF8		
1	BODY	A351-CF8M	A351-CF8	A216-WCB	ASTM B61-C8360C
2	CAP	A351-CF8M	A351-CF8	A216-WCB	ASTM B61-C8360C
3	BALL	A351-CF8M	A351-CF8	A351-CF8M	ASTM B61-C8360C or A351-CF8M
4	STEM	A351-CF8M	A351-CF8	A351-CF8M	ASTM B124-C37700
5	SEAT RING	PTFE			
6	GLAND PLATE	ASTM A240-304			
7	GLAND RING	ASTM A240-304			
8	STOPPER	ASTM A240-304			
9	SANP RING	ASTM A240-304			
10	BOLT	ASTM A193-B8			
11	BOLT	ASTM A193-B8			
12	THRUST WASHER	PTFE			
13	PACKING	PTFE, GRAPHITE			
14	GASKET	O-RING, PTFE, GRAPHITE			
15	LEVER	SS304, WCB, SS400 W/GAL'V			



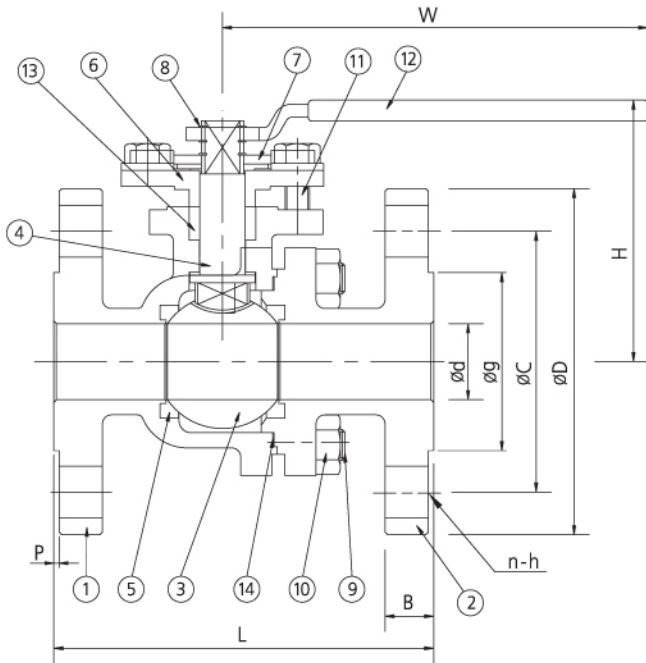
### DIMENSION TABLE

SIZE	DIMENSION(UINT - mm)											ISO-5211
	d	D	C	g	f	T	n	h	L	H	W	
1/2"	15	95	66.5	35	1.6	14.3	4	16	140	85	160	F04
3/4"	20	117	82.5	43	1.6	15.9	4	19	152	90	160	F04
1"	25	124	89.0	51	1.6	17.5	4	19	165	100	160	F04
1-1/2"	40	156	114.5	73	1.6	20.7	4	22	190	110	206	F07
2"	50	165	127.0	92	1.6	22.3	8	19	216	120	206	F07
2-1/2"	65	190	149.0	105	1.6	25.4	8	22	241	160	324	F07
3"	80	210	168.0	127	1.6	28.6	8	22	283	170	324	F10
4"	98	254	200.0	157	1.6	31.8	8	22	305	185	324	F10
5"	125	279	235.0	186	1.6	35.0	8	22	381	260	650	F12
6"	150	318	270.0	216	1.6	36.6	12	22	403	280	650	F12
8"	198	381	330.0	270	1.6	41.3	12	25	502	340	850	F12



# OKV 2-PIECE STANDARD PORT BALL VALVE

## DIN PN16 & DIN PN40

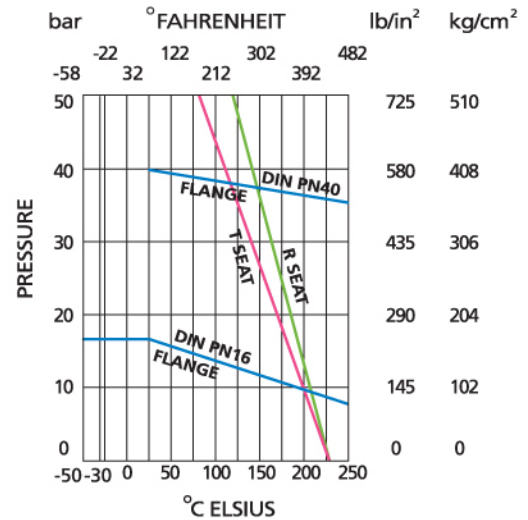


### SPECIFICATION

- FEATURES** Flange : DIN2633 PN16 / DIN2635 PN40  
 Face to face : DIN3202 F1 / F4 / F5  
 Mounting Pad for ISO 5211  
 Test & Inspection : API 598  
 Fire safe design : API 607  
 Anti-static device  
 Blow-out proof stem, lever operated  
 Full port, solid ball / hollow ball

### OKV STANDARD COMPONENT MATERIAL

NO	DESCRIPTION	MATERIAL		Q' TY
1	BODY	A351-CF8M	A216-WCB	1
2	CAP	A351-CF8M	A216-WCB	1
3	BALL	A351-CF8M	A351-CF8	1
4	STEM	AISI 316	AISI 304	1
5	SEAT RING	PTFE	PTFE	2
6	GLAND FLANGE	AISI 304	AISI 304	1
7	STOPPER	AISI 304(1/2" -4")	AISI 304	1
8	STOP RING	AISI 304	AISI 304	3
9	STUD BOLT	AISI 304	AISI 304	(4" x8pcs)
10	HEXAGON NUT	AISI 304	AISI 304	(1/2" -2x4pcs)
11	HEXAGON BOLT	AISI 304	AISI 304	2
12	LEVER	AISI 304	AISI 304	1
13	PACKING	PTFE	PTFE	1
14	GASKET	PTFE	PTFE	1



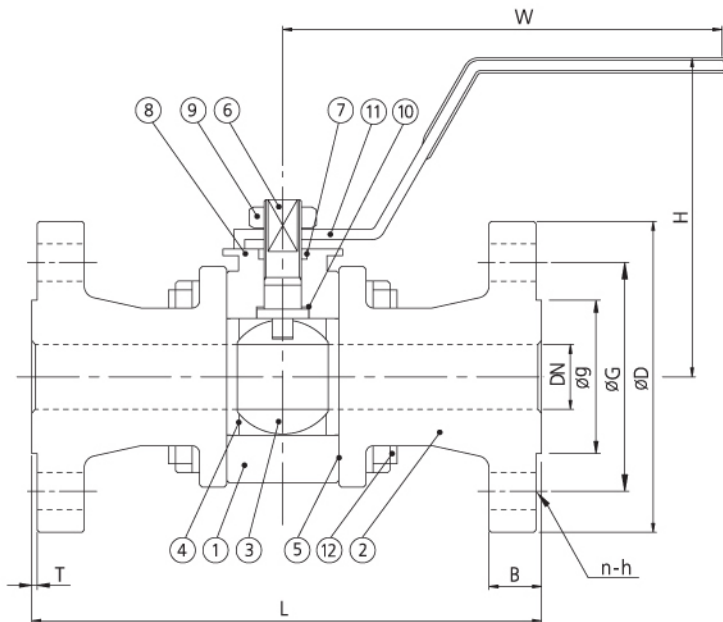
### DIMENSION TABLE

NOMINAL SIZE		d	ISO 5211			L(DIN3202)			DIN-PN16			DIN-PN40					H	W	TORQUE Kg/cm		
Inch	mm		U x V x R			F1	F4	F5	D	C	g	B	h/n	D	C	g				B	h/n
1/2"	15	15	4-42 x M5 x P0.8			130	115		95	65	45	14	14/4	95	65	45	16	14/4	74	170	54
3/4"	20	20	4-42 x M5 x P0.8			150	120		105	75	58	16	14/4	105	75	58	18	14/4	77	170	78
1"	25	25	4-50 x M6 x P1.0			160	125		115	85	68	16	14/4	115	85	68	18	14/4	83	170	106
1-1/4"	32	31.8	4-50 x M6 x P1.0			180	130		140	100	78	16	18/4	140	100	78	18	18/4	88	170	150
1-1/2"	40	38	4-70 x M8 x P1.25			200	140		150	110	88	16	18/4	150	110	88	18	18/4	123	250	200
2"	50	50.8	4-70 x M8 x P1.25			230	150		165	125	102	18	18/4	165	125	102	20	18/4	132	250	290
2-1/2"	65	65	4-70 x M8 x P1.25			290	170		185	145	122	18	18/4	185	145	122	22	18/8	157	320	500
3"	80	80	4-102 x M10 x P1.5			310	180		200	160	138	20	18/8	200	160	138	24	18/8	166	365	770
4"	100	100	4-102 x M10 x P1.5			350	190		220	180	158	20	18/8	235	190	162	24	22/8	182	365	1100
5"	125	125	4-125 x M12 x P1.75			400	-	325	250	210	188	22	18/8	270	220	188	26	26/8	225	750	1500
6"	150	150	4-125 x M12 x P1.75			480	-	350	285	240	212	22	18/8	300	250	218	28	26/8	275	750	1800
8"	200	200	4-125 x M12 x P1.75			600	-	400	340	295	268	24	22/12	375	320	285	34	30/12	340	1000	2400
10"	250	250	4-140 x M16 x P2			-	-	400	405	355	320	26	26/12	-	-	-	-	-	400	1000	3300



# OKV 3-PIECE STANDARD PORT BALL VALVE

## ANA1 150LBS & DIN PN16, DIN PN40

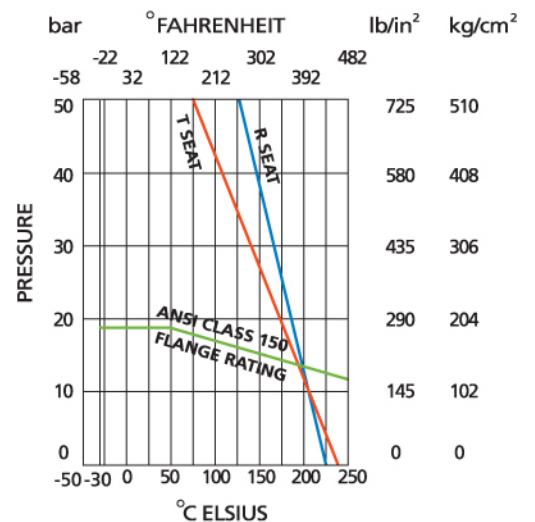


### SPECIFICATION

- FEATURES** Face to face : DIN3202 F1 / ANSI 16.1  
 Mounting Pad for ISO 5211  
 Lug body  
 Blow-out proof stem  
 Investment casting body and cap
- OPTION** Locking device

### OKV STANDARD COMPONENT MATERIAL

NO	DESCRIPTION	MATERIAL		Q' TY
1	BODY	A351-CF8M	A216-WCB	1
2	END CAP	A351-CF8M	A216-WCB	2
3	BALL	A351-CF8M	A351-CF8	1
4	SEAT RING	PTFE	PTFE	2
5	GASKET	PTFE	PTFE	2
6	STEM	AISI 316	AISI 304	1
7	PACKING	PTFE	PTFE	2
8	GLAND	AISI 304	AISI 304	1
9	STEM NUT	AISI 304	AISI 304	1
10	THRUST WASHER	PTFE	PTFE	1
11	LEVER	AISI 304	AISI 304	1
12	BOLT	AISI 304	AISI 304	4



### DIMENSION TABLE

SIZE	L		DIN-PN16					DIN-PN40					ANSI-150					T	H	W	Cv FACTOR	TORQUE Kgf/cm
	DN	F1	ANSI150	øD	G	g	B	h/N	øD	G	g	B	h/N	øD	G	g	B					
15	130	108	95	65	45	14	14/4	95	65	45	16	14/4	89	60.5	35	11.2	16/4	2	66	130	11.2	54
20	150	117	105	75	58	16	14/4	105	75	58	18	14/4	98	70	43	12.7	16/4	2	73	152	21	78
25	160	127	115	85	68	16	14/4	115	85	68	18	14/4	108	79.5	51	14.3	16/4	2	85	169	35	106
32	180	140	140	100	78	16	18/4	140	100	78	18	18/4	117	89	64	15.9	16/4	2	91	169	57	150
40	200	165	150	110	88	16	18/4	150	110	88	18	18/4	127	98.5	73	17.5	16/4	3	101	183	80	200
50	230	178	165	125	102	18	18/4	165	125	102	20	18/4	152	120.5	92	19.1	19/4	3	110	183	150	280
65	290	190	185	145	122	18	18/4	185	145	122	22	18/8	178	139.5	105	22.3	19/4	3	154	250	265	510
80	310	203	200	160	138	20	18/8	200	160	138	24	18/8	190	152.5	127	23.9	19/4	3	165	293	415	780
100	350	229	220	180	158	20	18/8	235	190	162	24	22/8	229	190.5	157	23.9	19/8	3	187	293	780	1130







# Customers

## FOREIGN CUSTOMERS (about 30 companies)

MITSUBISHI | MIURA | KEPPEL HITACHI  
CHEVRON TAXCO | KUWAIT OIL COMPANY  
W&O SUPPLY | WILLIAM E. WILLIAMS VALVE  
GREEN BAY | JURONG | JOHN GIOXAS  
AUSTRAL GROUP | CSBC | VALVECO

## DOMESTIC CUSTOMERS (about 80 companies)

HYUNDAI HEAVY INDUSTRY | DAELIM INDUSTRY  
HYUNDAI OIL REFINERY | SAMSUNG ENGIN.  
DSME | KOREA HEAVY INDUSTRY | KEPC  
BASF KOREA | HALLA HEAVY INDUSTRY  
SSANGYONG HEAVY INDUSTRY | POSCO

**OKV's Customers vary from Shipbuilding Companies to Nuclear Power Plants!**

## Off-Shore Project

PRIMARY CUSTOMER	SECONDARY CUSTOMER	PROJECT	ITEM	YEAR
HYUNDAI HEAVY INDUSTRY	MSE	C170 M/C JACK UP DRILLING RING NO.2	VALVE	1993
	ELF AMENNAM	FSO	VALVE	1995
	AP-MOLLER	WHARSH ENVIRONMENT	VALVE STRAINER	1995
	ESSO EXPLORATION ANGOLA	HUIZOU	VALVE	2002 2004
	RONG DO	RONG DO DEVELOPMENT	STRAINER	2005
DSME	AMETHYST	RIG PROJECT	VALVE STRAINER	1999
	BP-THUNDER	HORSE SEMI-SUBMERSIBLE PDQ	VALVE STRAINER	2001
	BP-ATLANTIS	SEMI-SUBMERSIBLE PDQ	VALVE STRAINER	2003
	CHEVRON	FPSO AGBAMI	VALVE STRAINER	2005
DAELIM INDUSTRY	KUWAIT OIL COMPANY	GC25	VALVE STRAINER	1998
	KUWAIT OIL COMPANY	NK CRUDE OIL EXPORT SYSTEM	VALVE	2005



## Global Network



# OK KWANG ENGINEERING CO., LTD.

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FAX : 82-51-328-7741, 7742  
E-MAIL : okv@okv.co.kr

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FAX : +46-430-171-91  
E-MAIL : meson@meson.se  
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