



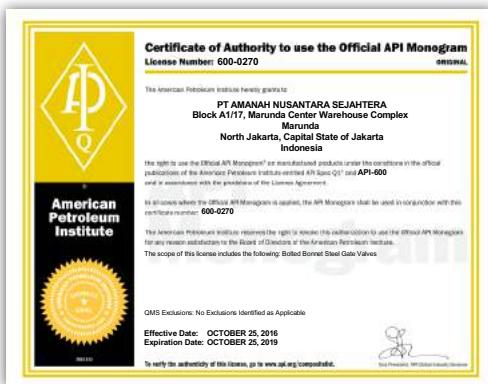
## ***Product Catalogue***

**Your Ideal Partner**

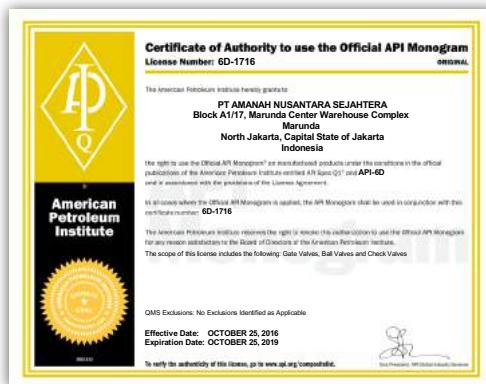


***Oil & Gas - Petrochemical - Powerplant - Mining***

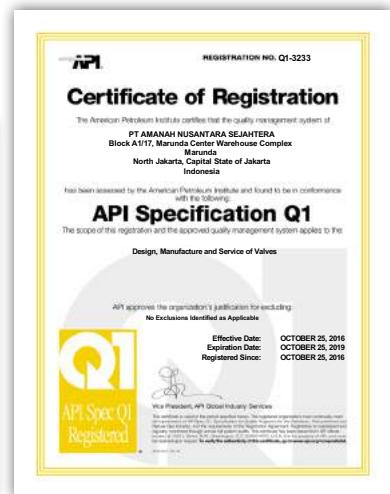
# Certificate



Certificate 600-0270



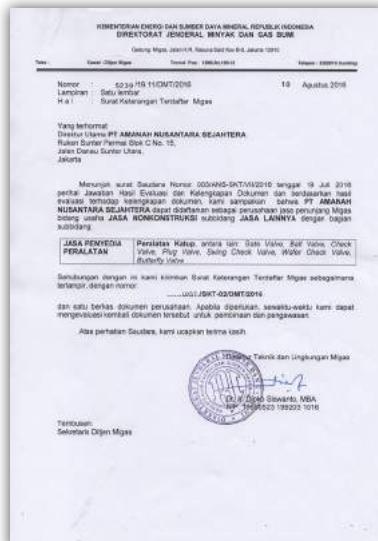
Certificate 6D-1716



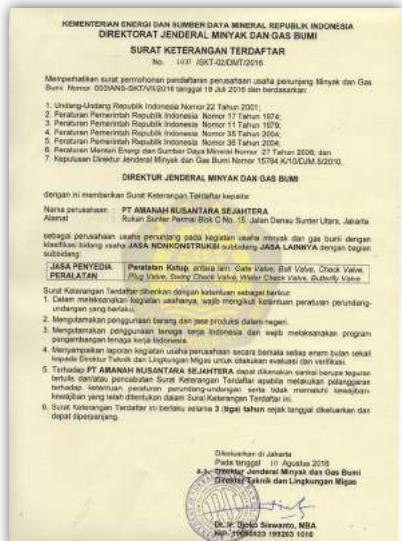
QMS Certificate of Q1



ISO 9001



Certificate SKT Migas



Certificate SKT Migas



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# **Gate Valve Globe Valve and Check Valve**

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*Oil & Gas - Petrochemical - Powerplant - Mining*

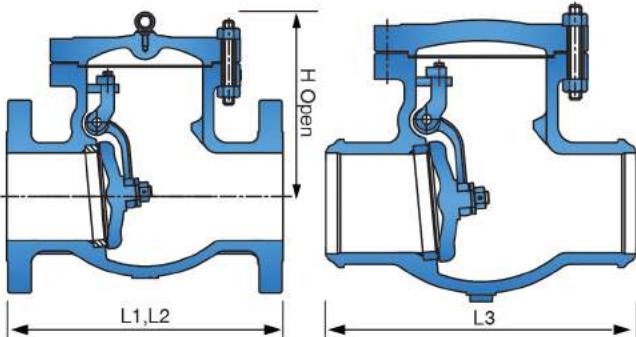








## Cast Steel Swing Check Valves



Cast steel globe valve, outside screw and yoke, bolted bonnet, rising stem, rising handwheel, swivel plug disc. Available in welded seat rings designed according to API-600/ASME B16.34.

### Dimensions

Face to Face	ASME B16.10
End Flange	ASME B 16.5
Buttweld	ASME B 16.25
Rating	ASME Class 150

\* 26" and larger are available with ASME B16.47 end flanges, either Series A or Series B (formerly MSS SP-44 and API 605).

### Standard Parts & Materials

NO.	PART NAME	CARBON STEEL		ALLOY STEEL					STAINLESS STEEL		
		TYPE WCB	TYPE LCC	TYPE WC6	TYPE WC9	TYPE C5	TYPE C12	TYPE CF8M			
1	BODY	A216 WCB	A352 LCC	A217 WC6	A217 WC9	A217 C5	A217 C12	A351 CF8M			
2	COVER	A216 WCB	A352 LCC	A217 WC6	A217 WC9	A217 C5	A217 C12	A351 CF8M			
3	DISC	A216 WCB+13CR	A352 LCC+316SS	A217 WC6+13CR	A217 WC9+13CR	A217 C5+13CR	A217 C12+13CR	A351 CF8M			
4	SEAT RING	A105+STELLITE	LF2+STELLITE	A182 F11+STELLITE	A182 F22+STELLITE	A182 F5+STELLITE	A182 F9+STELLITE	A182 F316+STELLITE			
5	HINGE	A216 WCB	A352 LCC	A217 WC6	A217 WC9	A217 C5	A217 C12	A351 CF8M			
6	HINGE PIN	A276 410	A276 316	A276 410	A276 410	A276 410	A276 410	A276 316			
7	DISC NUT	A193 B7	A320 L7	A193 B16	A193 B16	A193 B16	A193 B16	A193 B8			
8	DISC WASHER	CARBON STEEL	CARBON STEEL	CARBON STEEL	CARBON STEEL	CARBON STEEL	CARBON STEEL	STAINLESS STEEL			
9	SPLIT PIN	A276 410	A276 316	A276 410	A276 410	A276 410	A276 410	A276 316			
10	COVER BOLT	A193 B7	A320 L7	A193 B16	A193 B16	A193 B16	A193 B16	A193 B8			
11	COVER NUT	A194 2H	A194 4	A194 4	A194 4	A194 4	A194 4	A194 8			
12	EYE BOLT	ASTM A181	ASTM A181	ASTM A181	ASTM A181	ASTM A181	ASTM A181	ASTM A181			
13	GASKET	CLASS 150 & 300 SPIRAL WOUND 316SS + GRAPHITE / CLASS 600 & ABOVE SOFT RING JOINT									
14	NAMEPLATE	STAINLESS STEEL	STAINLESS STEEL	STAINLESS STEEL	STAINLESS STEEL	STAINLESS STEEL	STAINLESS STEEL	STAINLESS STEEL			

Other materials available on request.

### Class 150

Dimensions in inches

Valve Size			1-1/2" 40mm	2" 50mm	2-1/2" 65mm	3" 80mm	4" 100mm	6" 150mm	8" 200mm	10" 250mm	12" 300mm	14" 350mm	16" 400mm	18" 450mm	20" 500mm	24" 600mm	30" 750mm	36" 900mm
Face	L1:	RF	6.50	8.00	8.50	9.50	11.50	14.00	19.50	24.50	27.50	31.00	34.00	38.50	38.50	51.00	60.00	77.00
to	L2:	RTJ	6.50	8.00	8.50	9.50	11.50	14.00	19.50	24.50	27.50	31.00	34.00	38.50	38.50	51.00	60.00	77.00
Face	L3:	BW	6.50	8.00	8.50	9.50	11.50	14.00	19.50	24.50	27.50	31.00	34.00	38.50	38.50	51.00	60.00	77.00
Valve Open Height (H)			5.11	6.30	6.70	7.49	8.87	10.18	12.60	13.72	14.96	15.79	18.11	19.88	22.20	26.89	36.00	41.50
Weight (lbs.)	RF		33	38	48	68	110	203	299	430	628	926	1,102	1,411	1,720	3,285	5,077	8,160
	BW		28	31	38	56	95	183	266	284	572	804	980	1,160	1,495	2,945	4,315	7,010



# ***Floating Ball Valve***

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***Oil & Gas - Petrochemical - Powerplant - Mining***

## Floating Ball Valve

### Applicable Standards

- \* Basic design as per API 6D / API608 / ASME B 16.34 / BS 5351 / ISO 17292
- \* Face To Face as per ANSI B16.10 / API 6D / MFG'S STD (SW&NPT)
- \* End Flange as per ASME B16.5 / B16.25 / B16.11 / ASME B.1.20.1.
- \* Actuator mounting pad on the valve as per ISO 5211
- \* Wall thickness as per ASME B16.34
- \* Pressure Tests as per API 598 / API 6D
- \* Fire -Safe design as per API 607
- \* Visual inspection as per MSS-SP-55
- \* Valves shall be marked as per MSS-SP-25

### Coonfiguration Range

- 1PC UNI-Body type
- 2PC Split Body type
- 3PC Split Body type



### Soft - seated & Metal-seated type

#### Size Range

150 LB : NPS 1/2"~ 12" Full Port & Reduce Port

300 LB : NPS 1/2"~ 10" Full Port & Reduce Port

600 LB : NPS 1/2"~ 6" Full Port & Reduce Port

800/900/1500LB

NPS 1/2"~ 6" Full Port & Reduce Port

\*Long Pattern or Short Pattern ( On request )



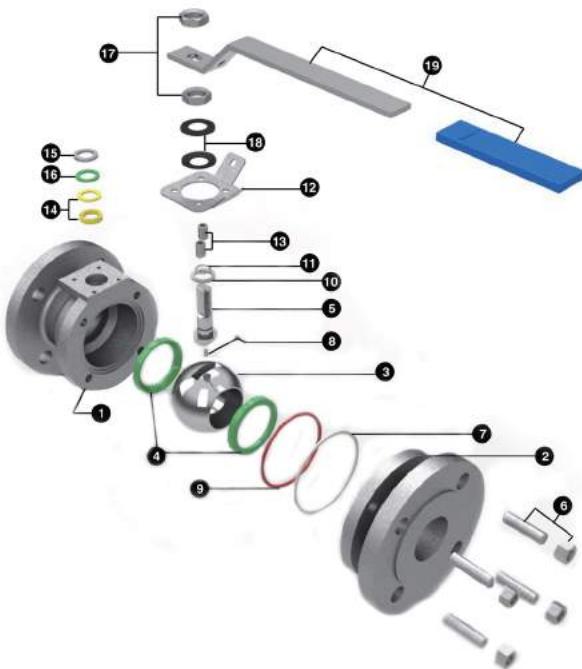
#### Actuator

\*Manual (Lever & Gear)

\*Electric/Hydraulic/Pneumatic



## Standard Features

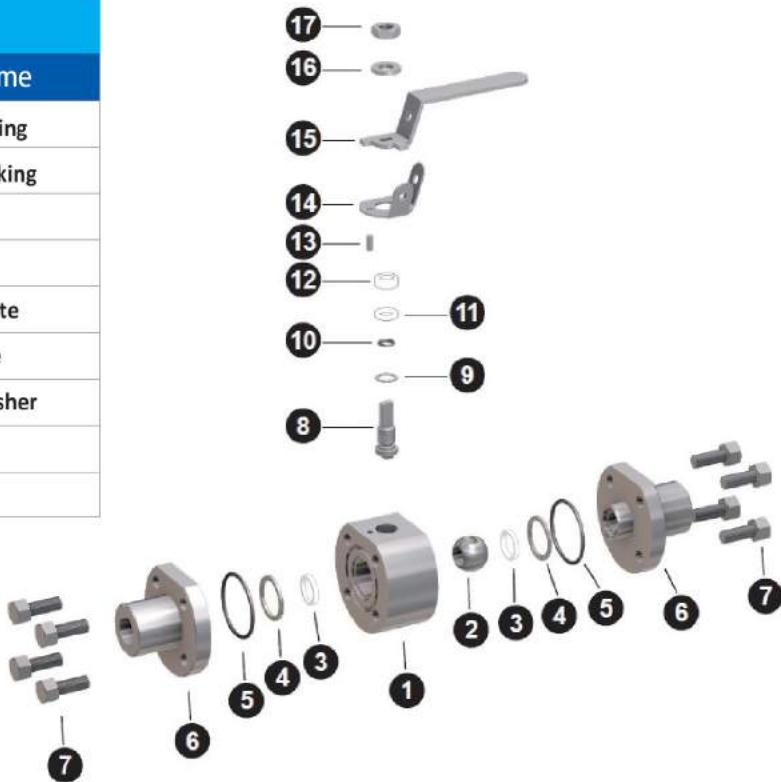


### Uni-Body Design

Item	Part Name	Item	Part Name
1	Body	10	Stop Pin
2	Closure	11	Stem O'ring
3	Seat	12	Stop Plate
4	Ball	13	Spring Washer
5	O'ring	14	Packing Follow
6	Gasket	15	Packing
7	Anti-Static Ball & Spring	16	Nut
8	Trust Bearing	17	Stem Washer
9	Stem	18	Lever

### 3PC Body Design

Item	Part Name	Item	Part Name
1	Body	10	Stem O'ring
2	Ball	11	Stem Packing
3	Seat	12	Gland
4	Gasket	13	Pin
5	O'ring	14	Lock Plate
6	Tail-Piece	15	Handle
7	Bolt	16	Plain Washer
8	Stem	17	Nut
9	Trust Washer		



## Standard Features

### Split Body

### Main Materials Range

#### **Body :**

ASTM A216-WCB / ASTM A352-LCB, LCC / ASTM A351-CF8M,CF8,CF3M,CF3 CN7M / A890 4A  
 ASTM A105N /A350 LF2 , LF3, LF6 / A182-F316(L), F304(L), A182-F51,F53,F55 / 17-4PH

#### **Body : ( Ball / Stem )**

ASTM A105N+ENP(1Mil,2Mil,3Mil)/A350LF2,LF3, LF6 +ENP(1Mil,2 Mil,3Mil ) / A182-F316(L),F304(L),F51,F53,F55 / 17-4PH / Tungsten carbide for metal-seated type

#### **Seat :**

PTFE / RPTFE(Carbon Filled ) /RPTFE(Glass Filled ) /NYLON / DEVILON /PCTFE / PEEK  
 Tungsten carbide for metal-seated type

#### **Fire - Safe Seal :**

Graphite/SPW.316+Graphite/SPW.Monel+Graphite/SPW.Inconel+Graphite

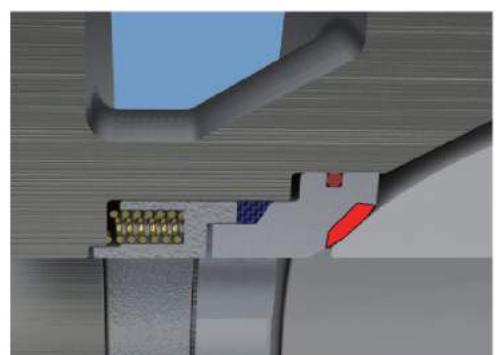
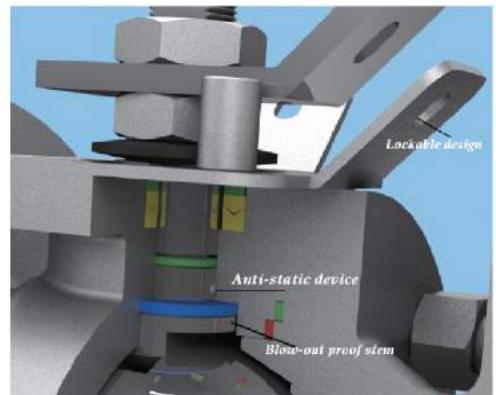
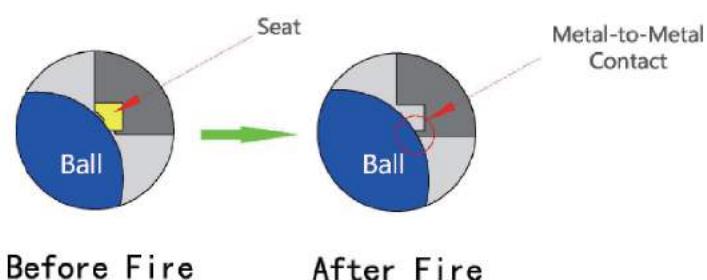
#### **Bolt / Nut**

ASTM A193 GR B7(M) / A194 GR 2H(M) , ASTM A 320 Gr. L7(M)/ASTM A 194 Gr. 4 (7) , ASTM A 320 Gr. B8 (M)/ASTM A 194 Gr. 8(M),F51

#### **NACE Compliance :**

NACE MR 0175 / NACE MR 0103

(Note : Materials not listed above can be offered on request.)

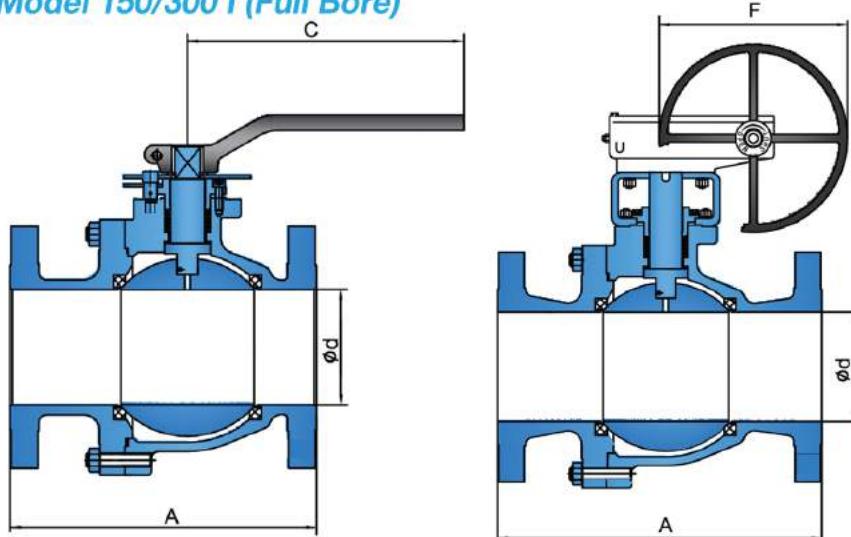


### Design Features & Benefits

- Anti-static device
- Blow-out proof stem
- Fire safe design approved
- Lockable design
- Low Operating Torque

## Split Body Floating Ball Valve

**Model 150/300 I (Full Bore)**



### Dimensions

Face to Face	ASME B16.10 Long Pattern
End Flange	ASME B 16.5
Rating	ASME Class 150-300

### Standard Materials

Part	Carbon steel valve	Stainless steel valve
Body/Cap	A216 WCB	A351 CF8M
Ball/Stem	316SS	316SS
Seats	RTFE	RTFE

### Class 150 - Full Bore

Dimensions in inches

Valve Size	3/4" 20mm	1" 25mm	1-1/2" 40mm	2" 50mm	2-1/2" 65mm	3" 80mm	4" 100mm	6" 150mm	8" 200mm	10" 250mm	12" 250mm
Bore Size (d)	0.75	1.00	1.50	2.00	2.50	3.00	4.00	6.00	8.00	10.00	12.00
Face to Face (A)	RF	4.61	5.00	6.50	7.01	7.52	7.99	9.02	15.51	17.99	20.98
Handle Length (C)		7.28	7.28	9.84	9.84	15.75	15.75	18.11	33.46	-	-
Handwheel Diameter (F)		-	-	-	-	-	-	15.75	18.11	23.62	23.62
Approx. Weight (lbs.)		8	11	15	24	32	48	88	200	437	709
											1130

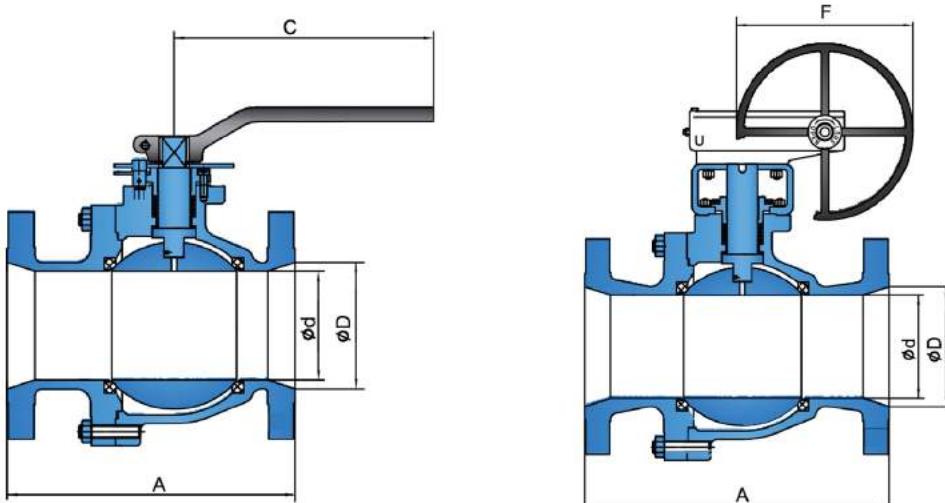
### Class 300 - Full Bore

Dimensions in inches

Valve Size	3/4" 20mm	1" 25mm	1-1/2" 40mm	2" 50mm	2-1/2" 65mm	3" 80mm	4" 100mm	6" 150mm	8" 200mm	10" 250mm	12" 250mm
Bore Size (d)	0.75	1.00	1.50	2.00	2.50	3.00	4.00	6.00	8.00	10.00	12.00
Face to Face (A)	RF	5.98	6.50	7.48	8.50	9.49	11.14	12.01	17.99	19.76	22.36
Handle Length (C)		7.28	7.28	7.28	9.84	15.75	15.75	31.30	31.30	-	-
Handwheel Diameter (F)		-	-	-	-	-	-	15.75	19.69	27.56	27.56
Approx. Weight (lbs.)		8	11	15	30	56	73	115	268	474	890
											1426

## Split Body Floating Ball Valve

Model 150/300 II (Reduce Bore)



### Dimensions

Face to Face	ASME B16.10 Short Pattern
End Flange	ASME B 16.5
Rating	ASME Class 150-300

### Standard Materials

Part	Carbon steel valve	Stainless steel valve
Body/Cap Ball/Stem Seats	A216 WCB 316SS RTFE	A351 CF8M 316SS RTFE

### Class 150 - Reduce Bore

Dimensions in inches

Valve Size	2" 50mm	2-1/2" 65mm	3" 80mm	4" 100mm	6" 150mm	8" 200mm	10" 250mm	12" 250mm
Bore Size (d)	1.50	2.00	2.50	3.00	4.00	6.00	8.00	10.00
Face to Face (A)	RF	7.52	7.99	9.02	15.51	17.99	20.98	24.02
Handle Length (C)		9.84	15.75	15.75	15.75	18.11	33.46	-
Handwheel Diameter (F)		-	-	-	-	15.75	19.69	23.62
Approx. Weight (lbs.)	22	34	37	63	175	310	421	676

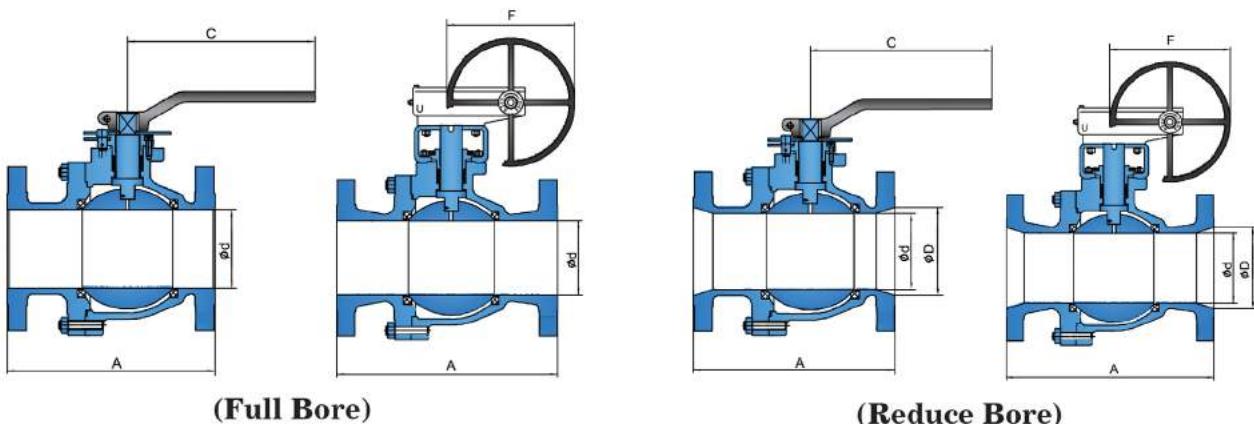
### Class 300 - Reduce Bore

Dimensions in inches

Valve Size	2" 50mm	2-1/2" 65mm	3" 80mm	4" 100mm	6" 150mm	8" 200mm	10" 250mm	12" 250mm
Bore Size (d)	1.50	2.00	2.50	3.00	4.00	6.00	8.00	10.00
Face to Face (A)	RF	8.50	9.49	11.14	12.01	17.99	19.76	22.36
Handle Length (C)		9.84	15.75	15.75	15.75	31.30	31.30	-
Handwheel Diameter (F)		-	-	-	-	15.75	19.69	23.62
Approx. Weight (lbs.)	31	65	111	63	175	317	605	1170

## Split Body Floating Ball Valve

Model 600 II (Full Bore & Reduce Bore)



### Dimensions

Face to Face	ASME B16.10
End Flange	ASME B 16.5
Rating	ASME Class 600

### Standard Materials

Part	Carbon steel valve	Stainless steel valve
Body/Cap	A216 WCB	A351 CF8M
Ball/Stem	316SS	316SS
Seats	Nylon	Nylon

### Class 600 - Full Bore

Dimensions in inches

Valve Size	1"	1-1/2"	2"	3"	4"	6"
Bore Size (d)	25mm	40mm	50mm	80mm	100mm	150mm
Face to Face (A)	RF	8.50	9.49	11.50	14.02	17.01
Handle Length (C)		7.28	9.84	15.75	31.50	35.43
Handwheel Diameter (F)		-	-	-	-	-
Approx. Weight (lbs.)		11	30	39	65	139
						270

### Class 600 - Reduce Bore

Dimensions in inches

Valve Size	2"	3"	4"	6"
Bore Size (d)	50mm	80mm	100mm	150mm
Face to Face (A)	RF	11.50	14.02	17.01
Handle Length (C)		15.75	31.50	35.43
Handwheel Diameter (F)		-	-	-
Approx. Weight (lbs.)		39	65	139
				270

# *Trunnion Mounted Ball Valve*

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*Oil & Gas - Petrochemical - Powerplant - Mining*

## Trunnion Mounted Ball Valve

### Applicable Standards

- \* Basic design as per API 6D / API6A / ASME B 16.34 / ISO 17292
- \* Face To Face as per ANSI B16.10 / API 6D / MFG'S STD / DIN
- \* End Flange as per ASME B16.5 / B16.25 / B16.11 / ASME B.1.20.1.
- \* Actuator mounting pad on the valve as per ISO 5211
- \* Wall thickness as per ASME B16.34
- \* Pressure Tests as per API 598 / API 6D
- \* Fire -Safe design as per API 607 / 6FA
- \* Valves shall be marked as per MSS-SP-25

### Configuration Range

- Side entry type ( 2PC design / 3PCS design )
- Top entry type
- Fully welded type

### Size Range

150 LB : NPS 2"~ 48" Full Port & Reduce Port  
 300 LB : NPS 2"~ 48" Full Port & Reduce Port  
 600 LB : NPS 2"~ 48" Full Port & Reduce Port  
 900/1500 LB : NPS 2"~24" Full Port & Reduce Port  
 2500 LB : NPS 2"~12" Full Port & Reduce Port  
 Long Pattern or Short Pattern ( On request )



### Actuator :

- \* Manual(Lever&Gear)
- \* Electric/Hydraulic/Pneumatic

### Main Materials Range

#### Body :

ASTM A216-WCB / ASTM A352-LCB, LCC / ASTM A351-CF8M,CF8,CF3M,CF3 CN7M / A890 4A  
 ASTM A105N /A350 LF2 , LF3, LF6 / A182-F316(L), F304(L), A182-F51,F53,F55 / 17-4PH

#### Trim (Ball/Seating/Stem) :

ASTM A105N+ENP(1Mil,2Mil,3Mil)/A350LF2,LF3, LF6 +ENP(1Mil,2 Mil,3Mil ) / A182-F316(L),F304(L),F51,F53,F55 / 17-4PH

#### Seat :

PTFE / RPTFE(Carbon Filled ) /RPTFE(Glass Filled ) /NYLON/ DEVLON /PCTFE / PEEK/ FKM / HNBR /EPDM ( Shore Hardness : SH.93~98 )

Treatment For Metal-seated type ( Optional Hard Coating )

Tungsten carbide / HCr Plating/ Stellite Weld Overlay/ Nickel Alloy Overlay / Chrome Carbide (Applications : High Temperature service (150°C~550°C)/ Heavy Oil / Slurry / Solid granule )



#### O'ring Seal

FKM ( Viton / Viton GLT ) / NBR / HNBR /EPDM ,AED Type  
 (Viton , Viton GLT, HNBR) , Kalrez ® series

#### NACE Compliance :

NACE MR 0175 / NACE MR 0103

(Note : Materials not listed above can be offered on request.)



Metal-seated

## ***Special options (On request)***

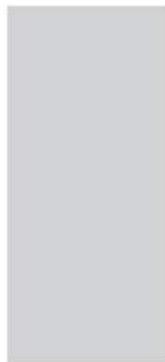
**Special Internal Coating / Painting / Welding overlay**  
**Welding Overlay**



Inconel 625 Alloy etc.  
Welding Overlay (Min. 3mm)



After Finish Machining



### ***Internal Painting***

Phenolic epoxy coating ( Sea Waters Service )

Internal surface preparation : Abrasive blasting to minimum Sa 2½ according to ISO 8501-1:1988



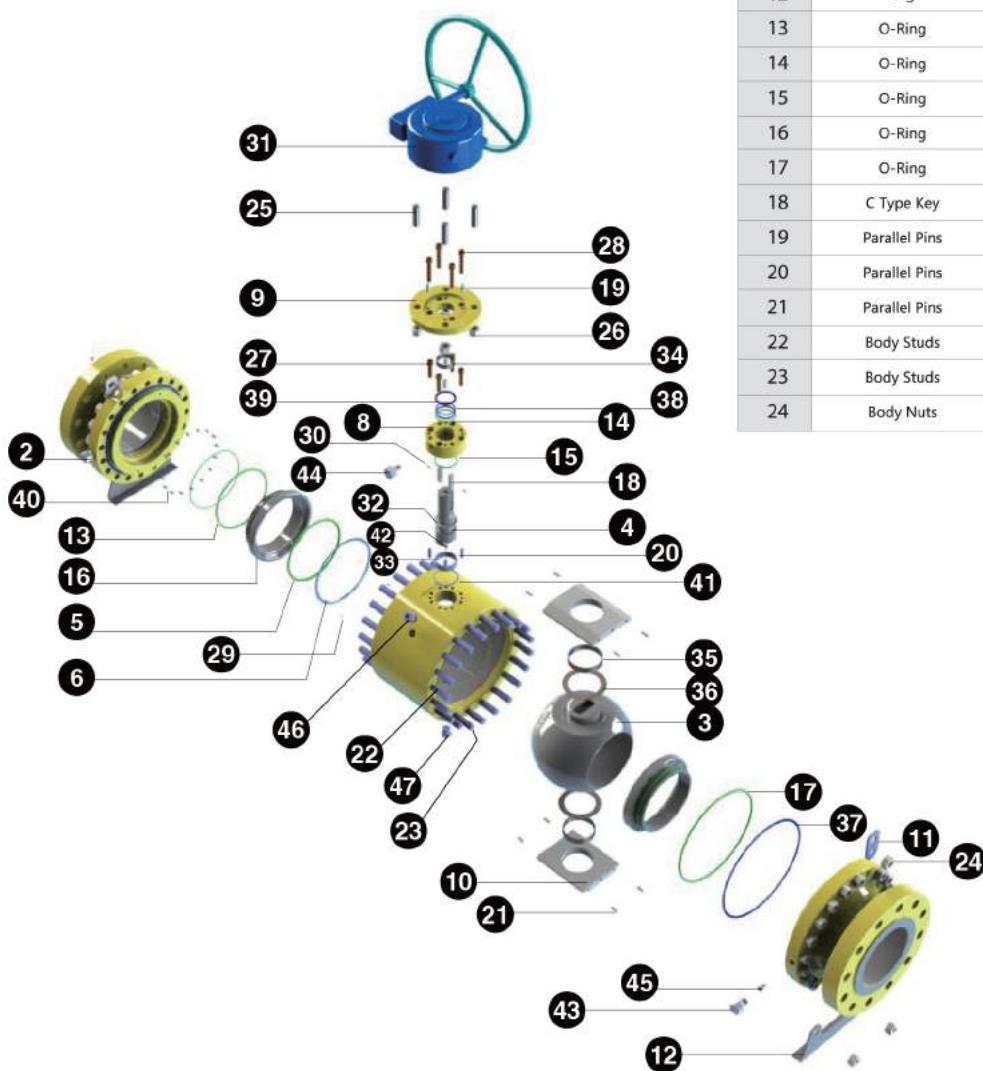
### ***Stem/Bonnet Extension / Extended Operation (For Cryogenic Service & Underground Installation)***



## Standard Features

### Forged Body Trunnions

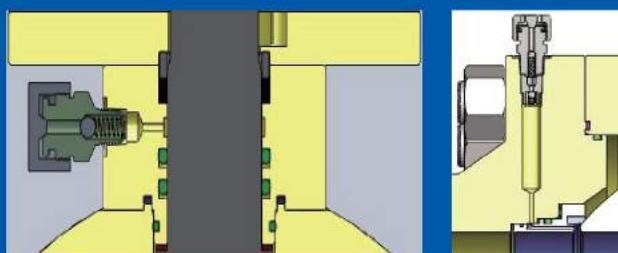
Plate Trunnion Type			
ITEM	DESCRIPTION	ITEM	DESCRIPTION
1	Body	25	Gearbox Mount Studs
2	Tailpiece	26	Gearbox Mount Nuts
3	Ball	27	Gland Bolt
4	Stern	28	Gland Bolt
5	Seat Ring	29	Spring Pin
6	Seat Insert	30	Spring Pin
7	Segment ring	31	Gear
8	Gland	32	Thrust Washer
9	Gland Plate	33	DU Bearing
10	Plate Trunnion	34	DU Bearing
11	Lifting Plate	35	DU Bearing
12	Leg	36	DU Thrust Bearing
13	O-Ring	37	Gasket
14	O-Ring	38	O-Ring Backup Ring
15	O-Ring	39	Stern Fire Safe Seal
16	O-Ring	40	Spring
17	O-Ring	41	Fire-safe Gasket
18	C Type Key	42	Anti-static Spring
19	Parallel Pins	43	Sealant Injection Fitting
20	Parallel Pins	44	Sealant Injection Fitting
21	Parallel Pins	45	Check Valve
22	Body Studs	46	Vent Valve
23	Body Studs	47	Plug
24	Body Nuts		



## Standard Features

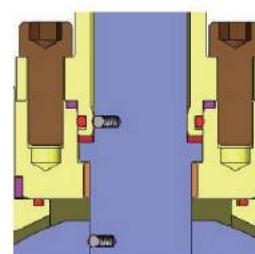
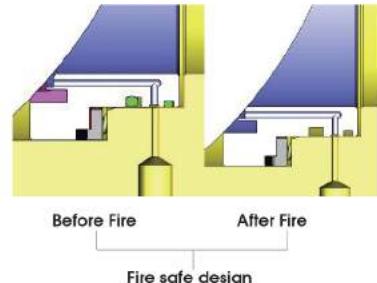
### Design Features & Benefits

- Anti-static device
- Blow-out proof stem
- Fire safe design approved
- Double block and bleed ( Standard for all trunnion ball valve )
- Pressure self-relief
- Emergency seal recovery
- Secondary stem & seat seal system



**Emergency seal recovery  
Secondary Stem & Seat seal system**

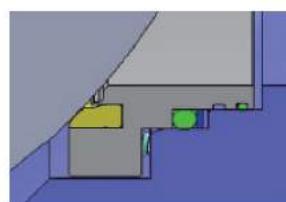
- Low operating torque
- Lockable design
- Less Maintenance



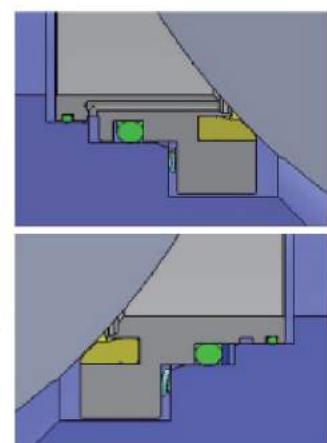
**Anti-static device & Blow-out proof stem**

### DPE Seat ( Double Piston Effect )

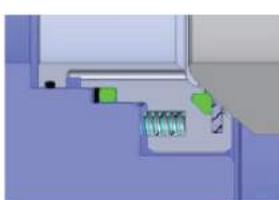
- Standard type
- Seatinsert material : PEEK / Devlon V / NYLON / RPTFE/ PTFE...



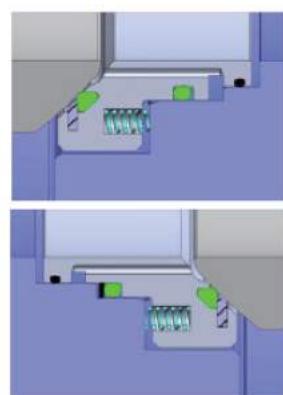
**DPE+DPE**



**SPE(Upstream)+DPE(Downstream)**



**DPE+DPE**

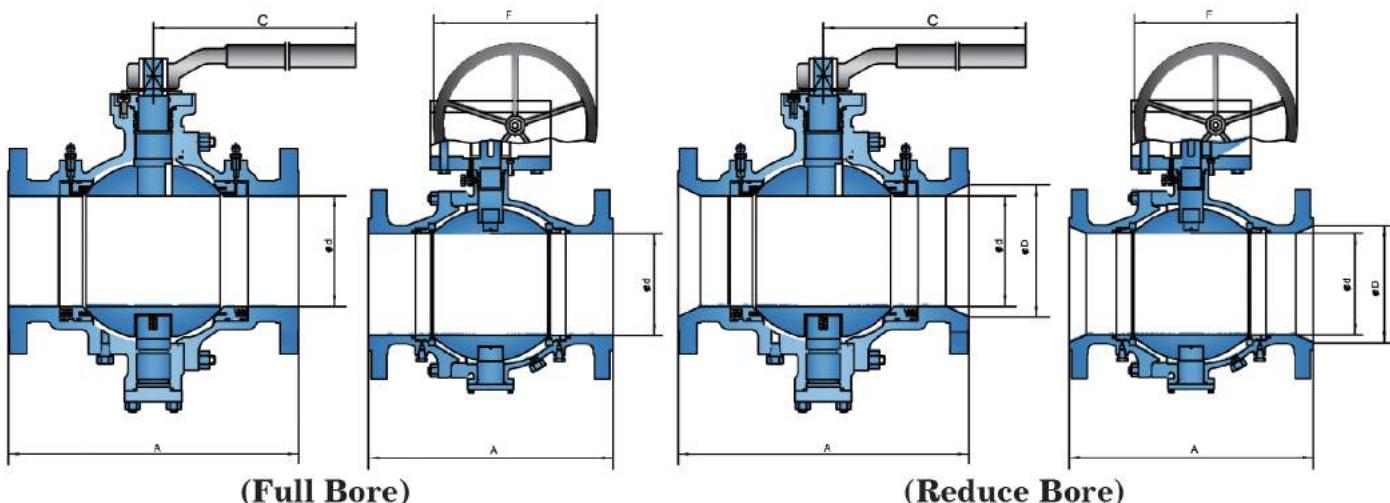


**SPE(Upstream)+DPE(Downstream)**

### Deltaring sealing type

- Seatinsert material : Elastomeric ( FKM / HNBR / EPDM ...) / AED type ( Option )
- Shore Hardness : SH.93~97

## Cast Trunnion Ball Valve



### Standard Materials

Part	Carbon steel valve with carbon steel trim	Carbon steel valve with stainless steel trim	Stainless steel valve
Body/Cap Ball Stem Seats & Inserts O-Rings	A216 WCB A105N* AISI 4140* ASTM A105N* + RTFE Viton-B	A216 WCB 316SS A182 F316 A182 F316 + RTFE Viton-B	A351 CF8M 316SS A182 F316 A182 F316 + RTFE Viton-B

\* Electroless Nickel Plating .001"

### Class 150 - Full Bore

Dimensions in inches

Valve Size	2" 50mm	3" 80mm	4" 100mm	6" 150mm	8" 200mm	10" 250mm	12" 250mm	14" 350mm	16" 400mm	18" 450mm	20" 500mm	24" 600mm	30" 750mm
Bore Size (d)	1.90	2.90	3.90	5.90	7.90	9.90	11.90	13.15	15.16	17.17	19.17	21.18	28.94
Face to Face (A)	RF	7.00	8.00	9.00	16.00	18.00	21.00	24.00	27.00	30.00	34.00	36.00	42.00
	BWE	8.50	11.10	12.00	18.00	20.50	22.00	25.00	30.00	33.00	36.00	39.00	45.00
Handle Length (C)	9.84	13.78	19.69	-	-	-	-	-	-	-	-	-	-
Handwheel Diameter (F)	-	-	-	13.78	18.11	23.62	23.62	23.62	23.62	29.53	29.53	29.53	29.53
Approx. Weight (lbs.)	37	73	110	205	366	602	1047	1257	1715	2061	2623	3481	-

Larger sizes are available upon request.

### Class 150 - Reduced Bore

Dimensions in inches

Valve Size	3" 80mm	4" 100mm	6" 150mm	8" 200mm	10" 250mm	12" 250mm	14" 350mm	16" 400mm	18" 450mm	20" 500mm	24" 600mm	30" 750mm	
Bore Size (d)	1.90	2.90	3.90	5.90	7.90	9.90	11.90	13.15	15.16	17.17	19.17	21.18	
Face to Face (A)	RF	8.00	9.00	16.00	18.00	21.00	24.00	27.00	30.00	34.00	36.00	42.00	51.00
	BWE	11.10	12.00	18.00	20.50	22.00	25.00	30.00	33.00	36.00	39.00	45.00	55.00
Handle Length (C)	9.84	13.78	19.69	-	-	-	-	-	-	-	-	-	-
Handwheel Diameter (F)	-	-	13.78	18.11	23.62	23.62	23.62	23.62	29.53	29.53	29.53	29.53	29.53
Approx. Weight (lbs.)	66	104	198	355	591	1030	1235	1689	1989	2491	3351	-	

Larger sizes are available upon request.









## Forged Trunnion Ball Valve

### Class 2500 - Full Bore

Dimensions in inches

Valve Size	2" 50mm	3" 80mm	4" 100mm	6" 150mm	8" 200mm	10" 250mm	12" 250mm
Bore Size (d)	1.65	2.44	3.43	5.16	7.05	8.78	10.43
Face to Face (A)	RF	17.76	22.76	26.50	35.98	40.24	50.00
	RTJ	17.87	22.99	26.89	36.50	40.87	50.87
	BWE	17.80	22.80	26.50	36.00	40.20	50.00
Handle Length (C)	-	-	-	-	-	-	-
Handwheel Diameter (F)	18.11	18.11	23.62	29.53	29.53	29.53	29.53
Approx. Weight (lbs.)	390	620	866	1518	2974	4994	7187

### Class 2500 - Reduced Bore

Dimensions in inches

Valve Size	3" 80mm	4" 100mm	6" 150mm	8" 200mm	10" 250mm	12" 250mm
Bore Size (d)	1.65	2.44	3.43	5.16	7.05	8.78
Face to Face (A)	RF	22.76	26.50	35.98	40.24	50.0
	RTJ	22.99	26.89	36.50	40.87	50.87
	BWE	22.8	26.5	36.0	40.2	50.0
Handle Length (C)	-	-	-	-	-	-
Handwheel Diameter (F)	18.11	18.11	23.62	29.53	29.53	29.53
Approx. Weight (lbs.)	400	601	1357	2416	3667	5647



*Oil & Gas*



*Petrochemical*



*Powerplant*



*Mining*





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