



KENT VALVE

CRITICAL PRESSURE & FLOW CONTROL



AN ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 CERTIFIED COMPANY

TRUNNION MOUNTED BALL VALVES

NPS 2" - 40" (DN50 - DN1000), ASME Class 150# - 2500# API 6D





KENT VALVE PROFILE

KENT VALVE is a fast growing valve manufacturing Company. Our wide range of superior quality valves especially designed to control water flow, gas, steam, air, and oil. The perfect blend of deep domain knowledge, technology experience and quality valves have enabled us to become leaders in the valve industry. Our quality team and proficient engineers make sure that we are delivering quality products in market. Our skilled professionals and technology competency, coupled with a reliable manufacturing process allows us to deliver end-to-end flow solutions especially catered to the user's needs and requirements.

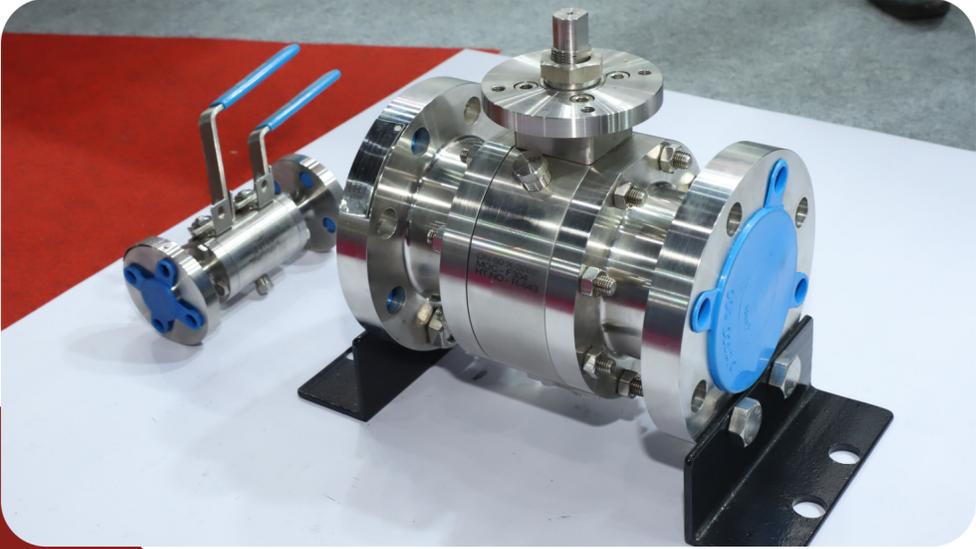
KENT VALVE is a professional engineering firm, offering a broad spectrum of technical products and solutions, especially Valves, Instruments, Analyzers and spares to the Oil and Gas, Power Plants, Refineries, Petrochemical, Marine, Pulp & Paper, Water Treatment, District cooling, Solar Power, Irrigation and General Industry sectors, We have a proven track record and a reputation for quality and reliability in the selection of Valves, Instruments and Analyzers. We do Service support and On- time delivery of the world's leading Brand names in Valves, Analyzers and Process Instruments, KENT VALVE holds stock of comprehensive range of world leading brands of Gate, Globe, Check, DBB valves and Ball valves, Control globe valves, Safety Relief Valves, Electric and Pneumatic Actuators, etc.

KENT VALVE is a multinational company with group manufacturing plants at India, The United Kingdom and Italy. Kent has its headquarter in Millano, Italy. It has sales office in Mumbai, Dubai, Sharjah, Kuwait, Oman, Italy and UK Etc. For meeting the requirements of its customers globally. The plant infrastructure comprises of highly efficient machine shop with a high level of quality aspects. It covers all the business processes like Sales, Design & Development, Procurement, Planning, Manufacturing, Quality, Store, Dispatch, HR and Finance.

PRODUCT RANGE

- Gate, Globe & Check Valves – Bolted Bonnet
- Gate, Globe & Check Valves – Pressure Seal
- Gate, Globe & Check Valves – Forged
- Ball Valves – Floating Top Entry, Trunnion Mounted, Double Block & Bleed
- Butterfly Valves – Concentric, Offset, Double Offset and Triple Offset
- Dual Plate Check Valves
- Single Plate Check Valves
- Control Valves
- Pressure Safety Valves
- Instrumentation Valves – Ball, Needle, Plug, Gate, Globe and Check
- Quick Exhaust & Flow Control Valves
- Knife Edge Gate Valve
- Valve, Actuator & Automation system

MANUFACTURING FACILITIES





CERTIFICATIONS



INTEGRATED MANAGEMENT SYSTEM POLICY
(Integration of ISO 9001:2015, ISO 14001:2015, ISO 45001:2018)

Kent valve Pvt. Ltd. is committed to the Integrated Management System that complies with ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 standards. We shall uphold the principles of this policy and promote a positive culture to create safe, healthy and environment-friendly workplace. We shall ensure that people at workplace take responsibility for aspects of Quality, Environment, Occupational Health & Safety over which we have control. We acknowledge the global concern on climate change and hence recognize energy as one of the most important resources used.

We shall continually improve our Integrated Management System to enhance its performance by:

- Enhancing customer satisfaction through manufacturing and delivery of environment friendly, safe & energy efficient products and services of right quality and on right time;
- Selecting and building partnership with external providers of processes, products and services to create the co-ownership of goals and exhibiting high level of ethical values;
- Involving employees at all levels and enhancing their competence through training, awareness and skill enhancement to fulfil stakeholders expectations;
- Fulfilling and satisfying the applicable Statutory, Regulatory, Legal requirements and other requirements related to environment, occupational health and safety, energy efficiency, use and consumption;
- Setting Integrated Management System objectives and reviewing them periodically against the target to ensure their achievement by availability of information and necessary resources;
- Protecting environment by prevention of pollution and 'reduction-reuse-recycling' of wastes and ensuring its environment-friendly disposal;
- Identifying, eliminating, isolating and controlling hazards and risks to avoid incidents/ accidents and ill health;
- Encouraging and promoting consultation and participation of those working under the control of organization in all occupational health & safety related activities.

This policy shall be communicated to all employees and made available to interested parties.

Issue no. 02
Issue date: 17 May 2022



(Neyaz Khan)
Director



CERTIFICATE

Management system as per
ISO 9001 : 2015

The Certification Body TÜV NORD CERT GmbH hereby confirms as a result of the audit, assessment and certification decision according to ISO/IEC 17021-1:2015, that the organization

KENT VALVE PRIVATE LIMITED
Plot No-B-85/4, Ambernath Additional MIDC,
Anand Nagar, Nr. ASB Company,
Ambernath, Thane - 421 506,
Maharashtra,
India



operates a management system in accordance with the requirements of ISO 9001 : 2015 and will be assessed for conformity within the 3 year term of validity of the certificate.

Scope -
Design and Manufacture of Industrial Valves, Actuators and Valve Automation Systems.

Certificate Registration No. 44 100 22393731
Audit Report No. 2.5-10841/2022

Valid from 25.08.2022
Valid until 24.08.2025
Initial certification 25.08.2022



Certification Body
at TÜV NORD CERT GmbH

Mumbai, 28.11.2023

TÜV NORD CERT GmbH Am TÜV 1 45307 Essen www.tuev-nord-cert.com

TUV India Pvt. Ltd., 801, Raheja Plaza – 1, L.B.S. Marg, Ghatkopar (W), Mumbai - 400 086, India www.tuv-nord.com/in




CERTIFICATE

Management system as per
ISO 14001 : 2015

The Certification Body TÜV NORD CERT GmbH hereby confirms as a result of the audit, assessment and certification decision according to ISO/IEC 17021-1:2015, that the organization

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CERTIFICATE

Management system as per
ISO 45001 : 2018

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TRUNNION MOUNTED BALL VALVE (BLT)



Kent Valve manufactures a comprehensive range of Trunnion Mounted Ball Valves in sizes 2" to 40" (DN 50 to DN 1000) in ASME class from 150 to 2500. This valves are designed, developed and manufactured using the latest & unique techniques.

Kent Trunnion Mounted Ball Valves are offered in a variety of body styles, materials, trims and actuation options to address critical services in hydrocarbon, power and allied industries.

The valve actuation is provided as per torque required to operate the valve. Kent Trunnion Mounted Ball Valve can be provided with manual (Lever), pneumatic actuator, hydraulic actuator or electrical actuator as per design / client requirements.



Piece	Pressure Rating	SIZE (NPS / DN)																				
		2 50	3 80	4 100	6 150	8 200	10 250	12 300	14 350	16 400	18 450	20 500	24 600	26 650	26 700	28 750	30 800	32 850	34 900	36 950	38 1000	
Two Piece	150	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓									
	300	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓									
	600	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓									
	900	✓	✓	✓	✓	✓	✓	✓	✓	✓												
	1500	✓	✓	✓	✓	✓	✓	✓	✓	✓												
	2500	✓	✓	✓	✓	✓																
Three Piece	150					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	300					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	600					✓	✓	✓	✓	✓	✓	✓										
	900					✓	✓	✓	✓	✓												
	1500					✓	✓	✓	✓	✓												

***We also offer intermediate size and class as per client requirements.**



Kent Valves has the distinction of having obtained a number of national and international approvals. Notable among these are:

- ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 certified.
- Specific company approvals from national and international oil majors and EPC contractors.
- Indian Boiler Regulation (IBR) certification for boiler applications can be provided.

Test Pressures for Standard Carbon Steel Valves

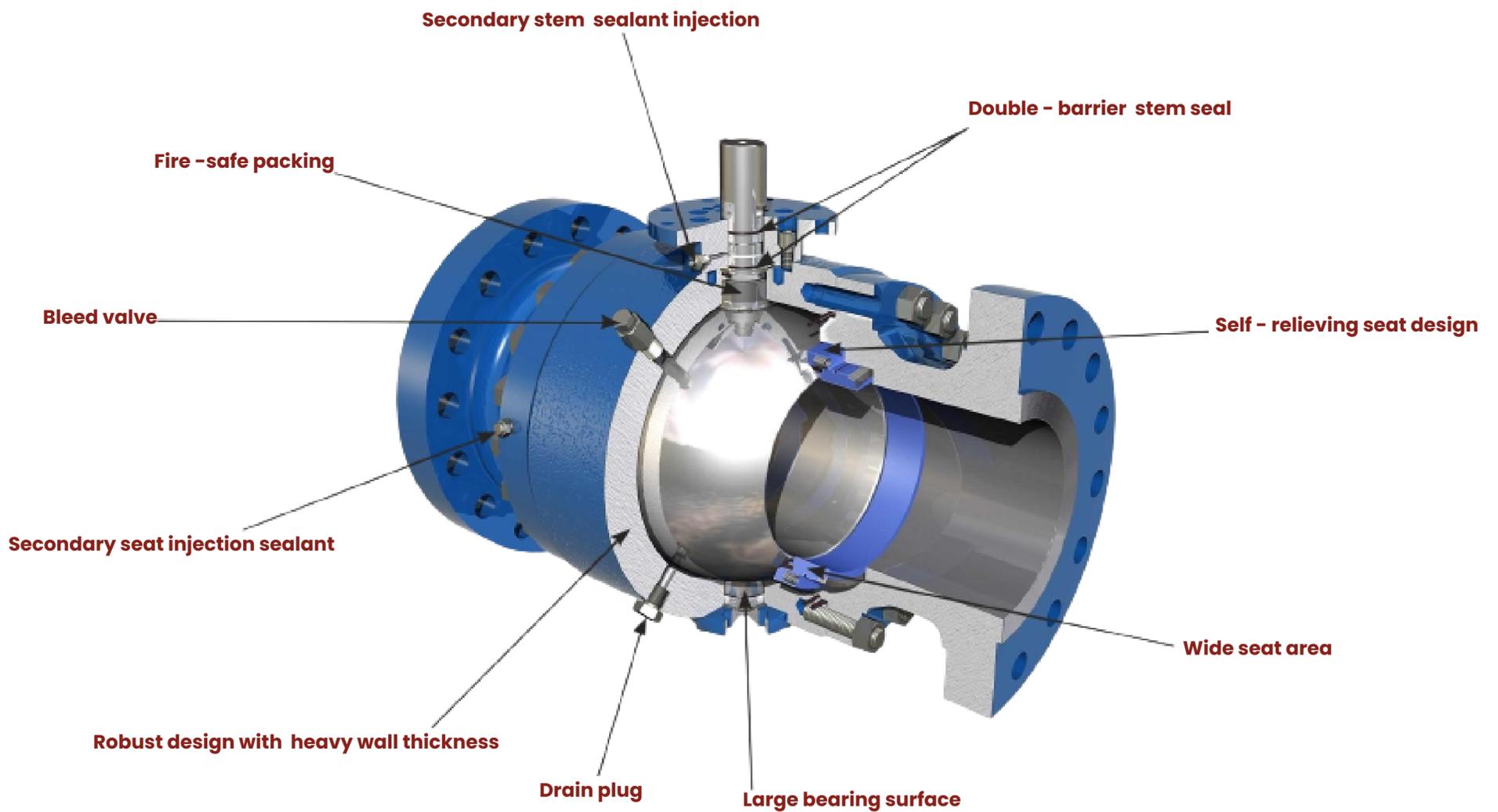
Every individual valves manufactured is inspected and pressure-tested to API 598 / BS EN 12266-1 as required for which test certificates are provided. The test pressure is selected as per material requirement specified in ASME B 16.34

ASME Class	Hydrostatic Test Pressure in kg/cm ² (psig)		Pneumatic Low Pressure Closure Test Pressure in kg/cm ² (psig)
	Shell	Seat	
150	30 (428)	22 (314)	7 (100)
300	79 (1110)	58 (814)	7 (100)
600	157 (2220)	115(1628)	7 (100)
900	235 (3330)	172(2442)	7 (100)
1500	391 (5578)	287(4076)	7 (100)
2500	651 (9255)	478(6787)	7 (100)

DESIGN SPECIFICATION

Parameter		Standard
Design	Ball Valve	ISO 17292 / API 6D ASME B16.34
End Connection	Flange End	ASME B16.5
	Butt - weld End	ASME B16.25
	Face to Face	ASME B 16.10 / API 6D
	Pressure – Temperature Rating	ASME B 16.34
	Inspection and Testing	API 598 / BS EN 12266 – 1
	Fire Test	ISO 10497 / API 607 / API 6FA

KENT TRUNNION MOUNTED BALL VALVE



WORKING PRINCIPLE AND DESCRIPTION

Trunnion Mounted Ball Valves are based on a system that provide a fixed ball and floating seat rings. The side load given by the pressure acting on the ball is absorbed by the bearings. At low pressure the sealing on the seats is obtained by the spring action on the seat rings. The more the pressure increases, the more it pushes the seats against the ball effecting into better sealing.

Kent Trunnion Mounted Ball Valves range is specially designed to stand the harsh service conditions often presented in the hydrocarbon industry and in the gas storage and transportation field.

Kent Trunnion Mounted Ball Valves conform to and exceed the design requirements of API 6D, BS EN ISO 17292 and ASME B 16.34.

The two piece and three piece bolted construction provides maximum rigidity to withstand pipeline force and facilitates maintenance on site. A fully welded body design is also available. Both reduce bore and full bore configurations are also available as per client requirements.



KENT TRUNNION MOUNTED BALL VALVE FEATURE

Single Seat

Cavity relief combined with a block and bleed trunnion ball and floating seat guarantees a tight shut-off. Two independent spring loaded seat rings are always in contact with the ball to provide a tight and effective seal at low differential pressure. At higher differential pressure the upstream seat ring becomes pressure energized against the ball to form a tight seal, while the downstream seat remains spring loaded. Spring is fully confined to avoid fluid contact and the build of debris.

Cavity Relief

This seating system is designed to vent automatically any excess pressure in the body cavity. The floating seat design allows for relief of excess pressure to the downstream side.

Double Block and Bleed

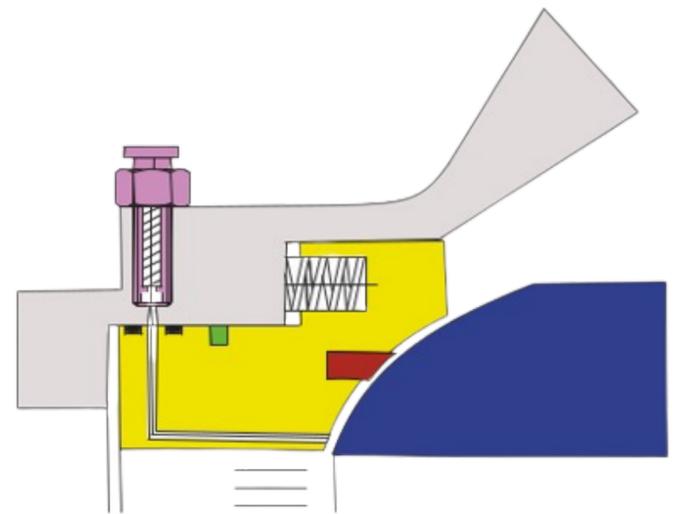
The floating seats provide a double block and bleed function when a drain plug or a bleed valve is mounted on the body. The cavity can be relieved through vent or drain connections. The independent upstream and downstream sealing ensures tight shut-off at the body cavity in the fully open or closed position. This feature prevents fluid contamination and detects seat leakage without removing the valve from the pipeline.

Optional Double Sealing Feature

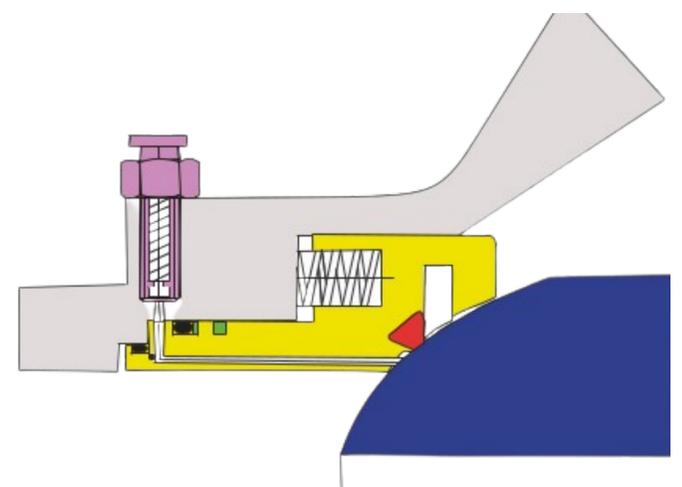
This is achieved by a seat design with a double piston effect. If the upstream seat fails, the downstream seat will seal effectively. This seat design does not provide self body cavity relief unless a relief valve is fitted to the body.

Trunnion Mounted Ball

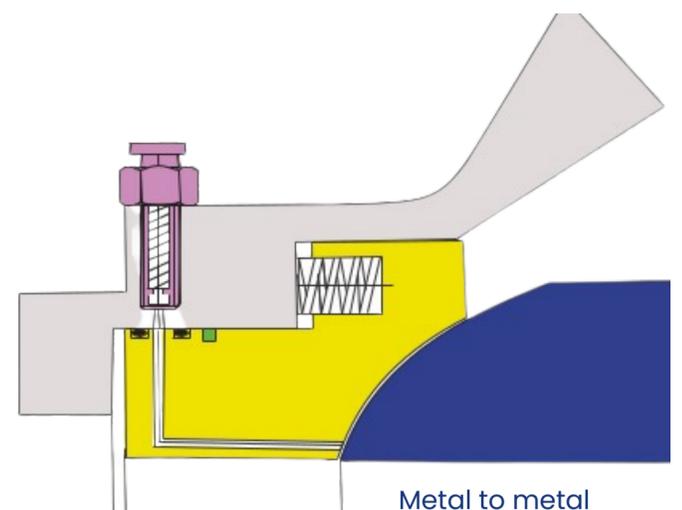
Our standard design includes a trunnion mounted ball. Force acting on the ball is transmitted to the valve body through the stem and trunnion. Steel backed PTFE impregnated bearing support rotation of the stem and trunnion, thus minimizing friction caused by the side thrust resulting from the action of fluid pressure on the ball. The result is a lower operating torque and the bearing are maintenance free.



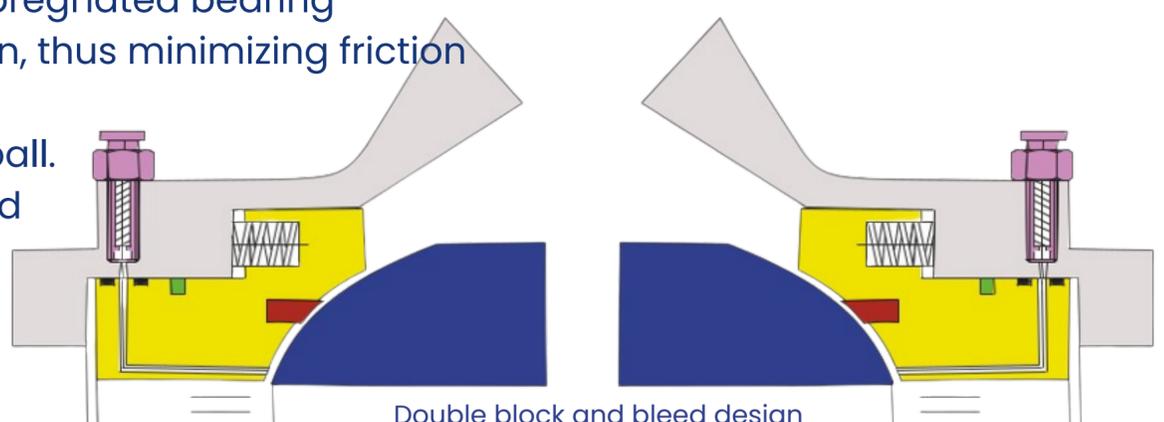
Metal to metal seating with non-metallic insert



Metal to metal seating with O-ring insert



Metal to metal seating



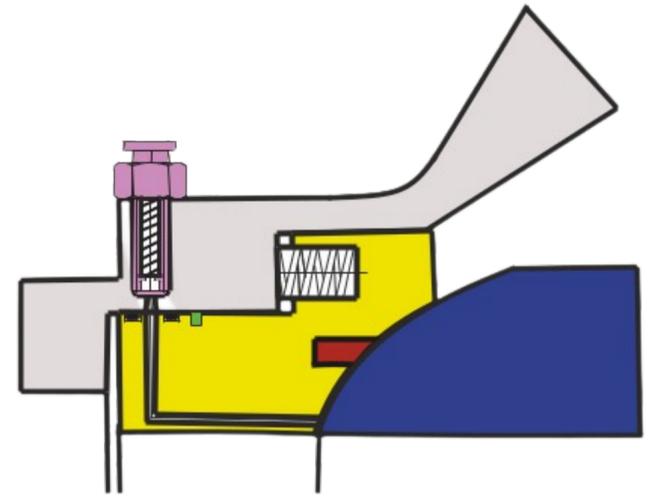
Double block and bleed design

KENT TRUNNION MOUNTED BALL VALVE FEATURE



Sealant Injection

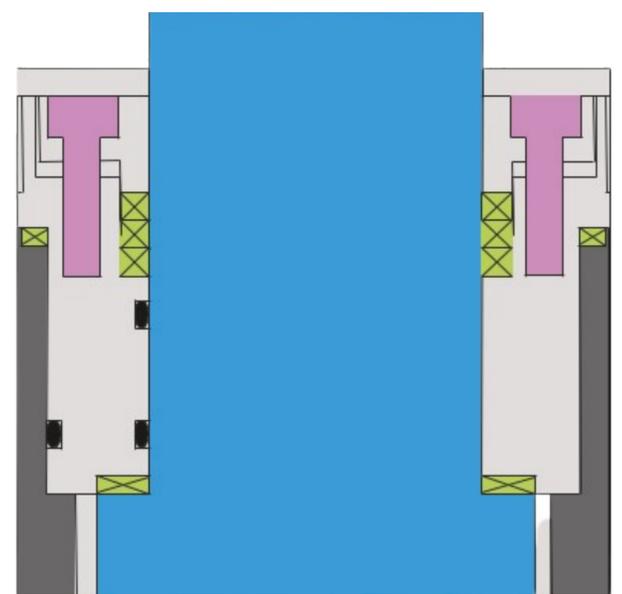
Kent Trunnion Mounted Ball Valves are design and manufactured to provide tight shut-off sealing. A sealant injection system can be provided on request. In the event of contaminants causing damage to the seat insert or stem seal, an emergency seal can be formed using the sealant injection system.



Sealant Injection

Double Sealing

The body joints are furnished with double sealing arrangements for maximum safety, to avoid any leakage of abrasive media from the body joints.



Low Emission Packing

Low Emission Stem Sealing

A double O-Ring system provides excellent stem sealing in normal operating conditions. A secondary graphite seal is retained by a gland for fire safety. The blow-out proof stem design allows replacement of stem seals under pressure when the valve is in either the fully closed or fully open position and the pressure in the cavity has been completely released.

Antistatic Feature

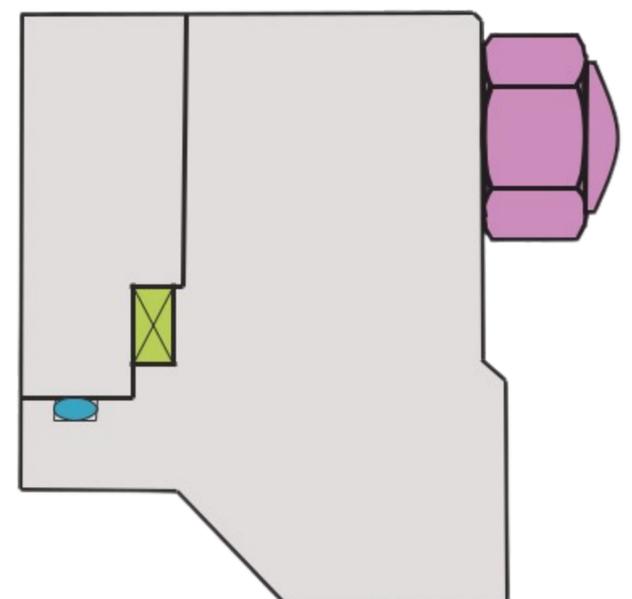
To meet the antistatic requirement of API 6D, all Trunnion Mounted Ball Valves are provided with stainless steel springs, which ensure electrical continuity between ball and stem and between stem and body. This eliminates a fire hazard in sensitive fluid applications.

Fire Safe Design

Kent Trunnion Mounted Ball Valves have been designed to meet the fire safety requirements of standard API 607 and API 6FA.

Stem Extension for Underground Installations

Kent Trunnion Mounted Ball Valves can be supplied with stem extensions as per client requirements.



Double Sealing on Body Joints

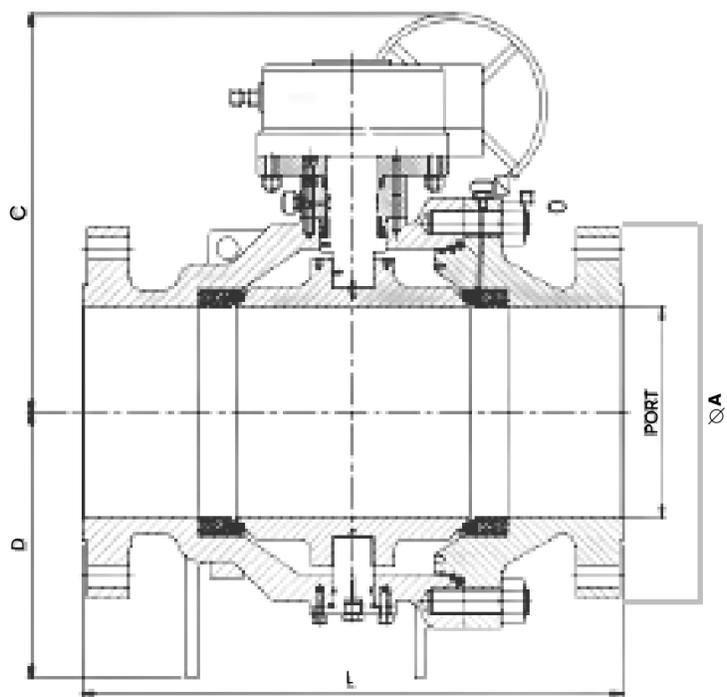


Trunnion Mounted Ball Valve Standard Material of Construction

SR. No	Description	Carbon Steel				Alloy Steel		
		WCB	WCC	LCB	LCC	C5	WC6	WC9
1	Body	A 216 Gr. WCB	A 216 Gr. WCC	A 352 Gr. LCB	A 352 Gr. LCC	A 217 Gr. C5	A 217 Gr. WC6	A 217 Gr. WC9
2	Body adaptor	A 216 Gr. WCB	A 216 Gr. WCC	A 352 Gr. LCB	A 352 Gr. LCC	A 217 Gr. C5	A 217 Gr. WC6	A 217 Gr. WC9
3	Ball	A 351 Gr. CF8	A 351 Gr. CF8	A 351 Gr. CF8	A 351 Gr. CF8	A 351 Gr. CF8	A 351 Gr. CF8	A 351 Gr. CF8
4	Seat Retainer	A 351 Gr. CF8	A 351 Gr. CF8	A 351 Gr. CF8	A 351 Gr. CF8	A 351 Gr. CF8	A 351 Gr. CF8	A 351 Gr. CF8
5	Seat	PTFE/ TFM 1600/ RPTFE/ CFT/ PEEK/ Derlin						
6	O-Ring (All)	Viton						
7	Spring	Spring Steel / 2-D / Inconel						
8	Stem	ASTM A276 T (410 / 304 / 316 / 304 L / 316 L)						
9	Stem Bearing	SS 316 + Backed PTFE / Bronze						
10	Gasket	PTFE/ Grafoil						
11	Body Stud & Nut	ASTM A 193 Gr B7 / ASTM A 194 Gr 2H ASTM A 193 Gr B8 / ASTM A 194 Gr B8M						
12	Trunnion	ASTM A276 T (410/ 304 / 316 / 304 L / 316 L						
13	Stuffing Box	A 216 Gr. WCB	A 216 Gr. WCC	A 352 Gr. LCB	A 352 Gr. LCC	A 217 Gr. C5	A 217 Gr. WC6	A 217 Gr. WC9
14	Injection Fitting	AISI 316						
15	Packing	PTFE/ Grafoil						

SR. No	Description	Stainless Steel						Duplex Stainless Steel		
		CF8	CF8M	CF3	CF3M	CN7M	CF8C	6A	5A	4A
1	Body	A 351 Gr. CF8	A 351 Gr. CF8M	A 351 Gr. CF3	A 351 Gr. CF3M	A 351 Gr. CN7M	A 351 Gr. CF8C	A 995 Gr. 6A	A 890 Gr. 5A	A 890 Gr. 4A
2	Body adaptor	A 351 Gr. CF8	A 351 Gr. CF8M	A 351 Gr. CF3	A 351 Gr. CF3M	A 351 Gr. CN7M	A 351 Gr. CF8C	A 995 Gr. 6A	A 890 Gr. 5A	A 890 Gr. 4A
3	Ball	A 351 Gr. CF8	A 351 Gr. CF8M	A 351 Gr. CF3	A 351 Gr. CF3M	A 351 Gr. CN7M	A 351 Gr. CF8C	A 995 Gr. 6A	A 890 Gr. 5A	A 890 Gr. 4A
4	Seat Retainer	A 351 Gr. CF8	A 351 Gr. CF8M	A 351 Gr. CF3	A 351 Gr. CF3M	A 351 Gr. CN7M	A 351 Gr. CF8C	A 995 Gr. 6A	A 890 Gr. 5A	A 890 Gr. 4A
5	Seat	PTFE/ TFM 1600/ RPTFE/ CFT/ PEEK/ Derlin								
6	O-Ring (All)	Viton								
7	Spring	Spring Steel / 2-D / Inconel								
8	Stem	ASTM A276 T (410 / 304 / 316 / 304 L / 316 L)								
9	Stem Bearing	SS 316 + Backed PTFE / Bronze								
10	Gasket	PTFE/ Grafoil								
11	Body Stud & Nut	ASTM A 193 Gr B7 / ASTM A 194 Gr 2H ASTM A 193 Gr B8 / ASTM A 194 Gr B8M								
12	Trunnion	ASTM A276 T (410/ 304 / 316 / 304 L / 316 L								
13	Stuffing Box	A 351 Gr. CF8	A 351 Gr. CF8M	A 351 Gr. CF3	A 351 Gr. CF3M	A 351 Gr. CN7M	A 351 Gr. CF8C	A 995 Gr. 6A	A 890 Gr. 5A	A 890 Gr. 4A
14	Injection Fitting	AISI 316								
15	Packing	PTFE/ Grafoil								

TRUNNION MOUNTED BALL VALVE – TWO PIECE (FULL BORE) FLANGED END 150# (API 6D / ISO 17292)



SR. NO.	DESCRIPTION	MATERIAL
1	Body	ASTM A 216 Gr. WCB
2	Adaptor	ASTM A 216 Gr. WCB
3	Ball	ASTM A351 Gr. CF8M
4	Seat Retainer	AISI 316
5	Seat	PTFE
6	O-Ring (All)	Viton
7	Spring	Inconel
8	Stem	AISI 316
9	Stem Bearing	S.S 316 + Backed PTFE
10	Gasket (All)	Grafoil
11	Stuffing Box	ASTM A 216 Gr. WCB
12	Body Stud & Nut (All)	ASTM A 193 Gr.B7 / ASTM A 194 Gr. 2H
13	Injection Fitting	AISI 316
14	Packing	PTFE / Grafoil
15	Trunnion	ASTM A105
16	Drain	AISI 316

Typical Example – Assembly of 2Pc Trunnion Mounted Ball Valve – Full Bore

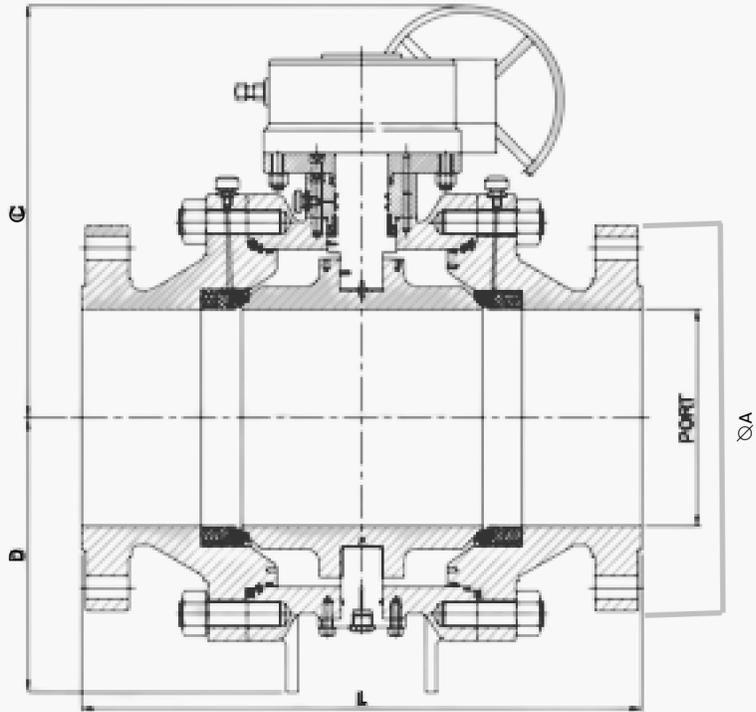
DIMENSION TABLE, CLASS -150									
SIZE	FACE TO FACE (L)		Port	ØA	C Approx	D Approx	WT Approx (kg)		Torque Approx (Nm)
	NPS	DN					RF	FL	
2	50	178	49	152	160	60	20	47.8	
3	80	203	74	190	260	90	35	84.9	
4	100	229	100	229	280	105	45	167.6	
6	150	394	150	279	485	160	140	326.7	
8	200	457	201	343	595	215	235	588.2	
10	250	533	252	406	635	265	340	912.7	
12	300	610	303	483	720	310	530	1528.7	
14	350	686	334	533	745	340	680	2133.1	
16	400	762	385	597	790	380	870	2453.2	

TWO PIECE FULL BORE

RF : Raised Face , RTJ : Ring Type Joint , BW : Buttweld , FL : Flanged
As Kent Valve continuously endeavour to improve our products, the data given herein is subject to change.



TRUNNION MOUNTED BALL VALVE - THREE PIECE (FULL BORE) FLANGED END 150# (API 6D / ISO 17292)



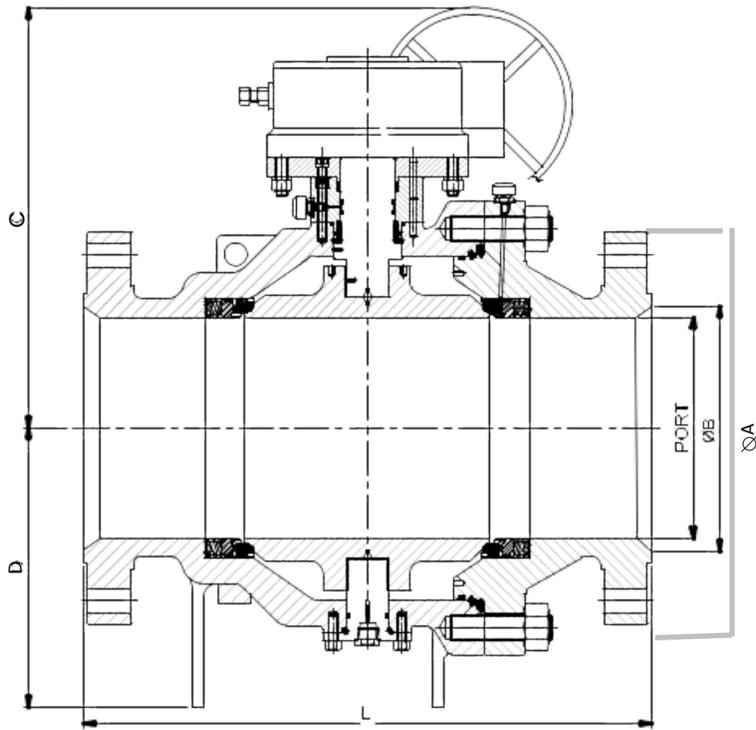
SR. NO.	DESCRIPTION	MATERIAL
1	Body	ASTM A 216 Gr. WCB
2	Adaptor	ASTM A 216 Gr. WCB
3	Ball	ASTM A351 Gr. CF8M
4	Seat Retainer	AISI 316
5	Seat	PTFE
6	O-Ring (All)	Viton
7	Spring	Inconel
8	Stem	AISI 316
9	Stem Bearing	S.S 316 + Backed PTFE
10	Gasket (All)	Grafoil
11	Stuffing Box	ASTM A 216 Gr. WCB
12	Body Stud & Nut (All)	ASTM A 193 Gr.B7 / ASTM A 194 Gr. 2H
13	Injection Fitting	AISI 316
14	Packing	PTFE / Grafoil
15	Trunnion	ASTM A105
16	Drain	AISI 316

Typical Example – Assembly of 3Pc Trunnion Mounted Ball Valve – Full Bore

DIMENSION TABLE, CLASS -150									
THREE PIECE FULL BORE	SIZE		FACE TO FACE (L)	Port	ØA	C Approx	D Approx	WT Approx (kg)	Torque Approx (Nm)
	NPS	DN	RF					FL	
	2	50	178	49	152	-	-	-	47.8
	3	80	203	74	190	-	-	-	84.9
	4	100	229	100	229	-	-	-	167.6
	6	150	394	150	279	-	-	-	326.7
	8	200	457	201	343	600	320	290	588.2
	10	250	533	252	406	690	390	430	912.7
	12	300	610	303	483	710	410	620	1528.7
	14	350	686	334	533	760	445	810	2133.1
	16	400	762	385	597	785	490	1040	2453.2

RF : Raised Face , RTJ : Ring Type Joint , BW : Buttweld , FL : Flanged
As Kent Valve continuously endeavour to improve our products, the data given herein is subject to change.

TRUNNION MOUNTED BALL VALVE – TWO PIECE (REDUCE BORE) FLANGED END 150# (API 6D / ISO 17292)



SR. NO.	DESCRIPTION	MATERIAL
1	Body	ASTM A 216 Gr. WCB
2	Adaptor	ASTM A 216 Gr. WCB
3	Ball	ASTM A351 Gr. CF8M
4	Seat Retainer	AISI 316
5	Seat	PTFE
6	O-Ring (All)	Viton
7	Spring	Inconel
8	Stem	AISI 316
9	Stem Bearing	S.S 316 + Backed PTFE
10	Gasket (All)	Grafoil
11	Stuffing Box	ASTM A 216 Gr. WCB
12	Body Stud & Nut (All)	ASTM A 193 Gr.B7 / ASTM A 194 Gr. 2H
13	Injection Fitting	AISI 316
14	Packing	PTFE / Grafoil
15	Trunnion	ASTM A105
16	Drain	AISI 316

Typical Example – Assembly of 2Pc Trunnion Mounted Ball Valve – Reduce Bore

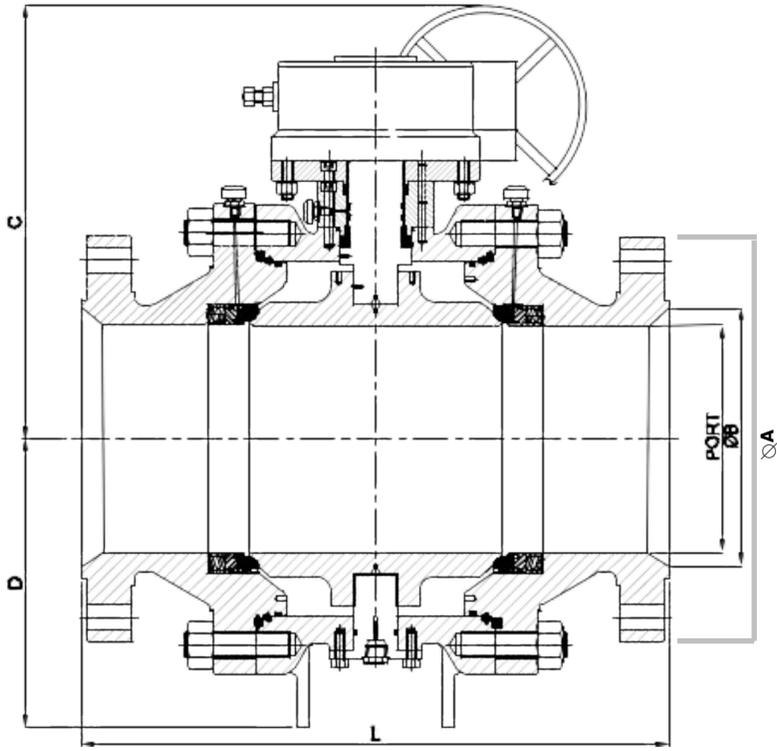
DIMENSION TABLE, CLASS -150

TWO PIECE REDUCE BORE	SIZE		FACE TO FACE (L)	Port	ØA	ØB	C Approx	D Approx	WT Approx (kg)	Torque Approx (Nm)
	NPS	DN	RF						FL	
	3 x 2	50	203	49	190	74	230	75	23	47.8
4 x 3	80	229	74	229	100	260	90	40	84.9	
6 x 4	100	394	100	279	150	345	130	75	167.6	
8 x 6	150	457	150	343	201	485	160	165	326.7	
10 x 8	200	533	201	406	252	595	215	260	588.2	
12 x 10	250	610	252	483	303	635	265	360	912.7	
14 x 10	250	686	252	533	334	635	265	425	912.7	
14 x 12	300	686	303	533	334	720	310	560	1528.7	
16 x 12	300	762	303	597	385	720	325	620	1528.7	
16 x 14	350	762	334	597	385	745	340	725	2133.1	
18 x 14	350	864	334	635	436	745	340	865	2133.1	
20 x 16	400	914	385	693	487	790	380	945	2453.2	

RF : Raised Face , RTJ : Ring Type Joint , BW : Buttweld , FL : Flanged
As Kent Valve continuously endeavour to improve our products, the data given herein is subject to change.



TRUNNION MOUNTED BALL VALVE – THREE PIECE (REDUCE BORE) FLANGED END 150# (API 6D / ISO 17292)



SL. NO.	DESCRIPTION	MATERIAL
1	Body	ASTM A 216 Gr. WCB
2	Adaptor	ASTM A 216 Gr. WCB
3	Ball	ASTM A351 Gr. CF8M
4	Seat Retainer	AISI 316
5	Seat	PTFE
6	O-Ring (All)	Viton
7	Spring	Inconel
8	Stem	AISI 316
9	Stem Bearing	S.S 316 + Backed PTFE
10	Gasket (All)	Grafoil
11	Stuffing Box	ASTM A 216 Gr. WCB
12	Body Stud & Nut (All)	ASTM A 193 Gr.B7 / ASTM A 194 Gr. 2H
13	Injection Fitting	AISI 316
14	Packing	PTFE / Grafoil
15	Trunnion	ASTM A105
16	Drain	AISI 316

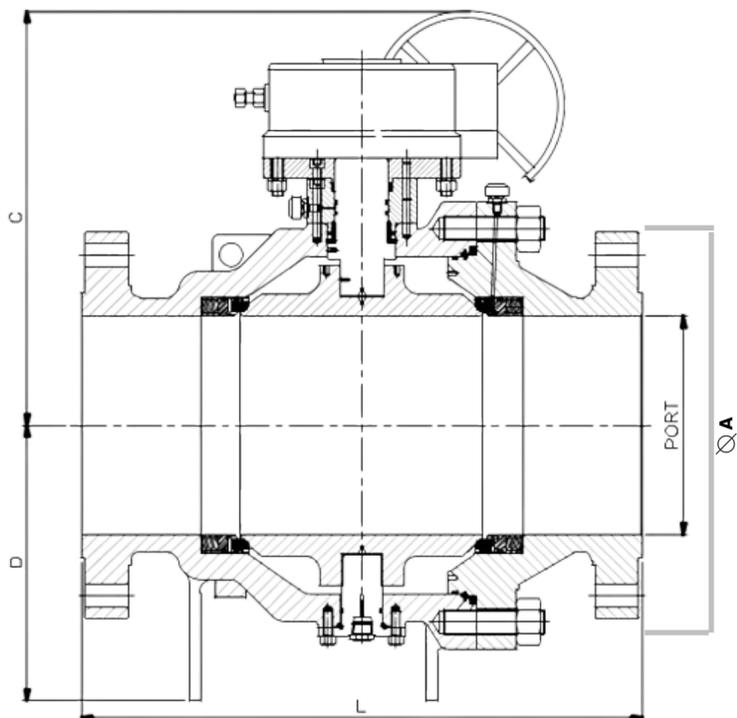
Typical Example – Assembly of 3Pc Trunnion Mounted Ball Valve – Reduce Bore

DIMENSION TABLE, CLASS -150

THREE PIECE REDUCE BORE	SIZE		FACE TO FACE (L)	Port	ØA	ØB	C Approx	D Approx	WT Approx (kg)	Torque Approx (Nm)
	NPS	DN	RF						FL	
	3 x 2	50	203	49	190	74	-	-	-	47.8
4 x 3	80	229	74	229	100	-	-	-	84.9	
6 x 4	100	394	100	279	150	-	-	-	167.6	
8 x 6	150	457	150	343	201	-	-	-	326.7	
10 x 8	200	533	201	406	252	600	320	325	588.2	
12 x 10	250	610	252	483	303	690	390	495	912.7	
14 x 10	250	686	252	533	334	690	390	525	912.7	
14 x 12	300	686	303	533	334	710	410	670	1528.7	
16 x 12	300	762	303	597	385	710	410	720	1528.7	
16 x 14	350	762	334	597	385	760	445	830	2133.1	
18 x 14	350	864	334	635	436	760	445	980	2133.1	
20 x 16	400	914	385	693	487	785	490	1190	2453.2	

RF : Raised Face , RTJ : Ring Type Joint , BW : Butt weld , FL : Flanged
As Kent Valve continuously endeavour to improve our products, the data given herein is subject to change.

TRUNNION MOUNTED BALL VALVE - TWO PIECE (FULL BORE) FLANGED END 300# (API 6D / ISO 17292)



SL. NO.	DESCRIPTION	MATERIAL
1	Body	ASTM A 216 Gr. WCB
2	Adaptor	ASTM A 216 Gr. WCB
3	Ball	ASTM A351 Gr. CF8M
4	Seat Retainer	AISI 316
5	Seat	PTFE
6	O-Ring (All)	Viton
7	Spring	Inconel
8	Stem	AISI 316
9	Stem Bearing	S.S 316 + Backed PTFE
10	Gasket (All)	Grafoil
11	Stuffing Box	ASTM A 216 Gr. WCB
12	Body Stud & Nut (All)	ASTM A 193 Gr.B7 / ASTM A 194 Gr. 2H
13	Injection Fitting	AISI 316
14	Packing	PTFE / Grafoil
15	Trunnion	ASTM A105
16	Drain	AISI 316

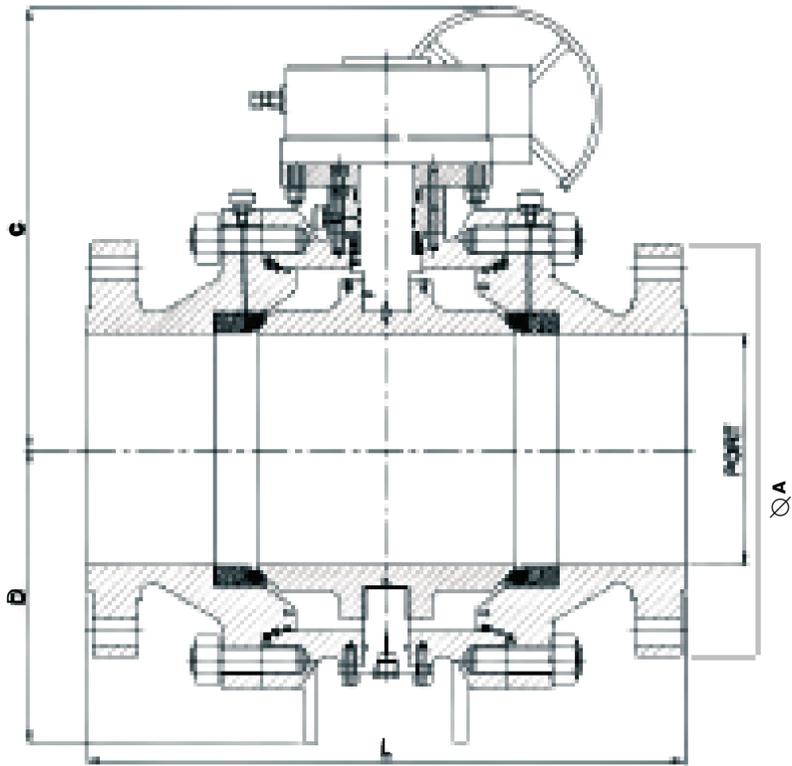
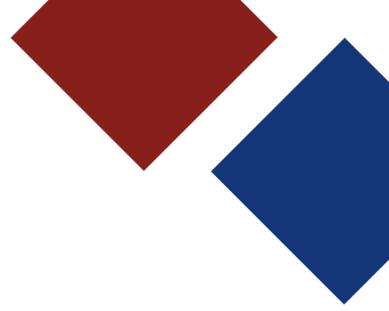
Typical Example – Assembly of Two Piece Floating Ball Valve with standard bill of material.

DIMENSION TABLE, CLASS -300								
SIZE	FACE TO FACE (L)		Port	ØA	C Approx	D Approx	WT Approx (kg)	Torque Approx (Nm)
	NPS	DN					RF	
2	50	216	49	165	250	75	25	84
3	80	283	74	210	260	90	45	146.8
4	100	305	100	254	380	130	75	302.6
6	150	403	150	318	485	165	180	577.4
8	200	502	201	381	595	235	290	1064
10	250	568	252	444	665	275	445	1664.2
12	300	648	303	521	720	320	660	2926.2
14	350	762	334	584	820	360	900	4237.1
16	400	838	385	648	850	390	980	4726.9

RF : Raised Face , RTJ : Ring Type Joint , BW : Butt weld , FL : Flanged As Kent Valve continuously endeavour to improve our products, the data given herein is subject to change.



TRUNNION MOUNTED BALL VALVE – THREE PIECE (FULL BORE) FLANGED END 300# (API 6D / ISO 17292)



SL. NO.	DESCRIPTION	MATERIAL
1	Body	ASTM A 216 Gr. WCB
2	Adaptor	ASTM A 216 Gr. WCB
3	Ball	ASTM A351 Gr. CF8M
4	Seat Retainer	AISI 316
5	Seat	PTFE
6	O-Ring (All)	Viton
7	Spring	Inconel
8	Stem	AISI 316
9	Stem Bearing	S.S 316 + Backed PTFE
10	Gasket (All)	Grafoil
11	Stuffing Box	ASTM A 216 Gr. WCB
12	Body Stud & Nut (All)	ASTM A 193 Gr.B7 / ASTM A 194 Gr. 2H
13	Injection Fitting	AISI 316
14	Packing	PTFE / Grafoil
15	Trunnion	ASTM A105
16	Drain	AISI 316

Typical Example – Assembly of 3Pc Trunnion Mounted Ball Valve – Full Bore

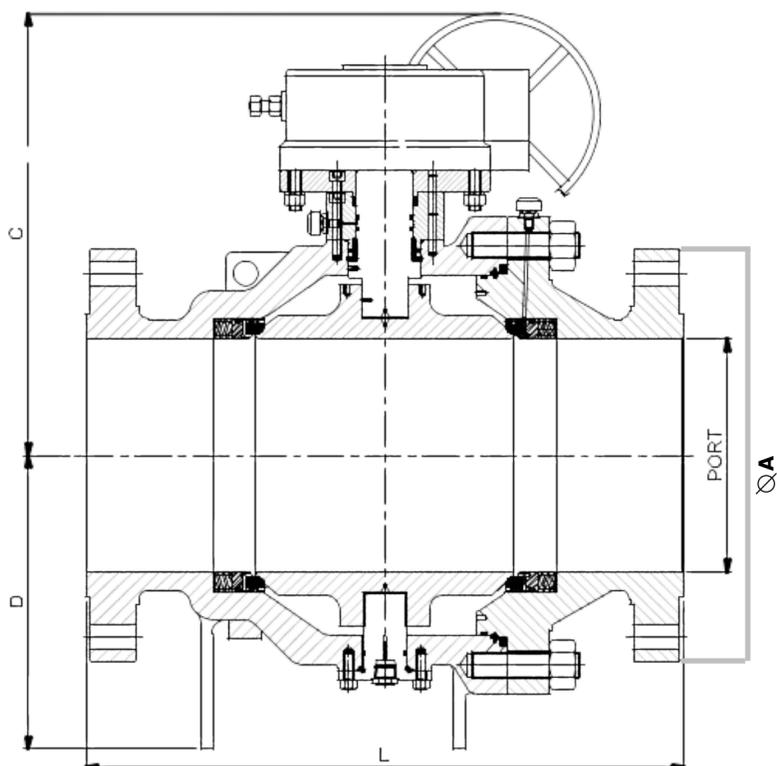
DIMENSION TABLE, CLASS -300											
THREE PIECE FULL BORE	SIZE		FACE TO FACE (L)		Port	ØA	C Approx	D Approx	WT Approx (kg)		Torque Approx (Nm)
	NPS	DN	RF						FL		
	2	50	216		49	165	-	-	-		84
	3	80	283		74	210	-	-	-		146.8
	4	100	305		100	254	-	-	-		302.6
	6	150	403		150	318	-	-	-		577.4
	8	200	502		201	381	610	360	355		1064
	10	250	568		252	444	650	380	530		1664.2
	12	300	648		303	521	730	420	835		2926.2
	14	350	762		334	584	760	460	1010		4237.1
	16	400	838		385	648	850	490	1390		4726.9

RF : Raised Face , RTJ : Ring Type Joint , BW : Butt weld , FL : Flanged
As Kent Valve continuously endeavour to improve our products, the data given herein is subject to change.

TRUNNION MOUNTED BALL VALVE – TWO PIECE (REDUCE BORE) FLANGED END



300# (API 6D / ISO 17292)



SL. NO.	DESCRIPTION	MATERIAL
1	Body	ASTM A 216 Gr. WCB
2	Adaptor	ASTM A 216 Gr. WCB
3	Ball	ASTM A351 Gr. CF8M
4	Seat Retainer	AISI 316
5	Seat	PTFE
6	O-Ring (All)	Viton
7	Spring	Inconel
8	Stem	AISI 316
9	Stem Bearing	S.S 316 + Backed PTFE
10	Gasket (All)	Grafoil
11	Stuffing Box	ASTM A 216 Gr. WCB
12	Body Stud & Nut (All)	ASTM A 193 Gr.B7 / ASTM A 194 Gr. 2H
13	Injection Fitting	AISI 316
14	Packing	PTFE / Grafoil
15	Trunnion	ASTM A105
16	Drain	AISI 316

Typical Example – Assembly of 2Pc Trunnion Mounted Ball Valve –Reduce Bore

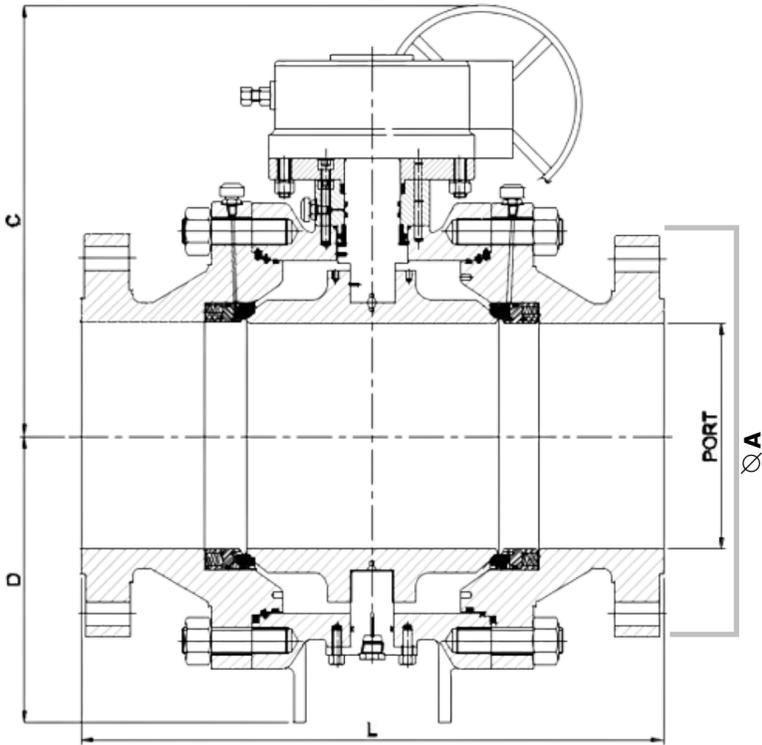
DIMENSION TABLE, CLASS -300

TWO PIECE REDUCE BORE	SIZE		FACE TO FACE (L)	Port	ØA	ØB	C Approx	D Approx	WT Approx (kg)	Torque Approx (Nm)
	NPS	DN	RF						FL	
	3 x 2	50	283	49	210	74	250	75	30	84
4 x 3	80	305	74	254	100	260	90	55	146.8	
6 x 4	100	403	100	318	150	380	130	100	302.6	
8 x 6	150	502	150	381	201	485	165	190	577.4	
10 x 8	200	568	201	444	252	595	235	310	1064	
12 x 10	250	648	252	521	303	665	275	470	1664.2	
14 x 10	250	762	252	584	334	665	275	620	1664.2	
14 x 12	300	762	303	584	334	720	320	740	2926.2	
16 x 12	300	838	303	648	385	720	350	765	2926.2	
16 x 14	350	838	334	648	385	820	360	990	4237.1	
18 x 14	350	914	334	711	436	820	385	1210	4237.1	
18 x 16	400	914	385	711	436	850	390	1350	4726.9	
20 x 16	400	991	385	775	487	850	400	1480	4726.9	

RF : Raised Face , RTJ : Ring Type Joint , BW : Butt weld , FL : Flanged
As Kent Valve continuously endeavour to improve our products, the data given herein is subject to change.



TRUNNION MOUNTED BALL VALVE - THREE PIECE (REDUCE BORE) FLANGED END 300# (API 6D / ISO 17292)



SL. NO.	DESCRIPTION	MATERIAL
1	Body	ASTM A 216 Gr. WCB
2	Adaptor	ASTM A 216 Gr. WCB
3	Ball	ASTM A351 Gr. CF8M
4	Seat Retainer	AISI 316
5	Seat	PTFE
6	O-Ring (All)	Viton
7	Spring	Inconel
8	Stem	AISI 316
9	Stem Bearing	S.S 316 + Backed PTFE
10	Gasket (All)	Grafoil
11	Stuffing Box	ASTM A 216 Gr. WCB
12	Body Stud & Nut (All)	ASTM A 193 Gr.B7 / ASTM A 194 Gr. 2H
13	Injection Fitting	AISI 316
14	Packing	PTFE / Grafoil
15	Trunnion	ASTM A105
16	Drain	AISI 316

Typical Example – Assembly of 3Pc Trunnion Mounted Ball Valve –Reduce Bore

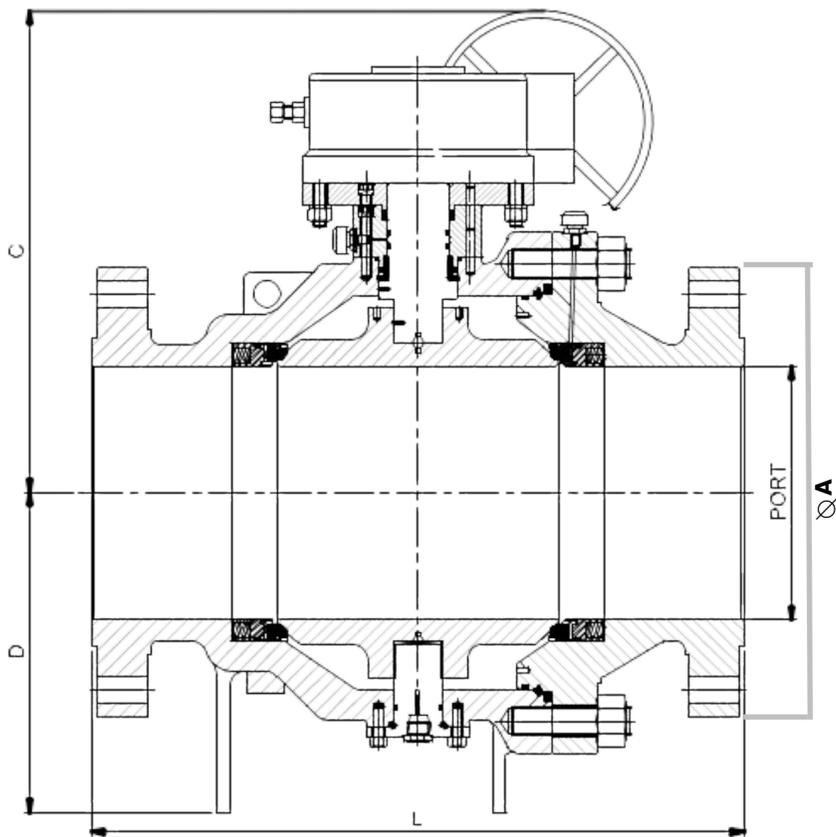
DIMENSION TABLE, CLASS -300

SIZE	FACE TO FACE (L)	Port	Ø A	Ø B	C Approx	D Approx	WT Approx (kg)		Torque Approx (Nm)
							NPS	DN	
3 x 2	50	283	49	210	74	-	-	-	84
4 x 3	80	305	74	254	100	-	-	-	146.8
6 x 4	100	403	100	318	150	-	-	-	302.6
8 x 6	150	502	150	381	201	-	-	-	577.4
10 x 8	200	568	201	444	252	610	360	400	1064
12 x 10	250	648	252	521	303	650	380	585	1664.2
14 x 10	250	762	252	584	334	650	380	648	1664.2
14 x 12	300	762	303	584	334	730	420	840	2926.2
16 x 12	300	838	303	648	385	730	420	990	2926.2
16 x 14	350	838	334	648	385	760	460	1100	4237.1
18 x 14	350	914	334	711	436	760	460	1360	4237.1
18 x 16	400	914	385	711	436	850	490	1590	4726.9
20 x 16	400	991	385	775	487	850	490	1695	4726.9

THREE PIECE REDUCE BORE

RF : Raised Face , RTJ : Ring Type Joint , BW : Butt weld , FL : Flanged
As Kent Valve continuously endeavour to improve our products, the data given herein is subject to change.

TRUNNION MOUNTED BALL VALVE - TWO PIECE (FULL BORE) FLANGED END 600# (API 6D / ISO 17292)



SL. NO.	DESCRIPTION	MATERIAL
1	Body	ASTM A 216 Gr. WCB
2	Adaptor	ASTM A 216 Gr. WCB
3	Ball	ASTM A351 Gr. CF8M
4	Seat Retainer	AISI 316
5	Seat	PTFE
6	O-Ring (All)	Viton
7	Spring	Inconel
8	Stem	AISI 316
9	Stem Bearing	S.S 316 + Backed PTFE
10	Gasket (All)	Grafoil
11	Stuffing Box	ASTM A 216 Gr. WCB
12	Body Stud & Nut (All)	ASTM A 193 Gr.B7 / ASTM A 194 Gr. 2H
13	Injection Fitting	AISI 316
14	Packing	PTFE / Grafoil
15	Trunnion	ASTM A105
16	Drain	AISI 316

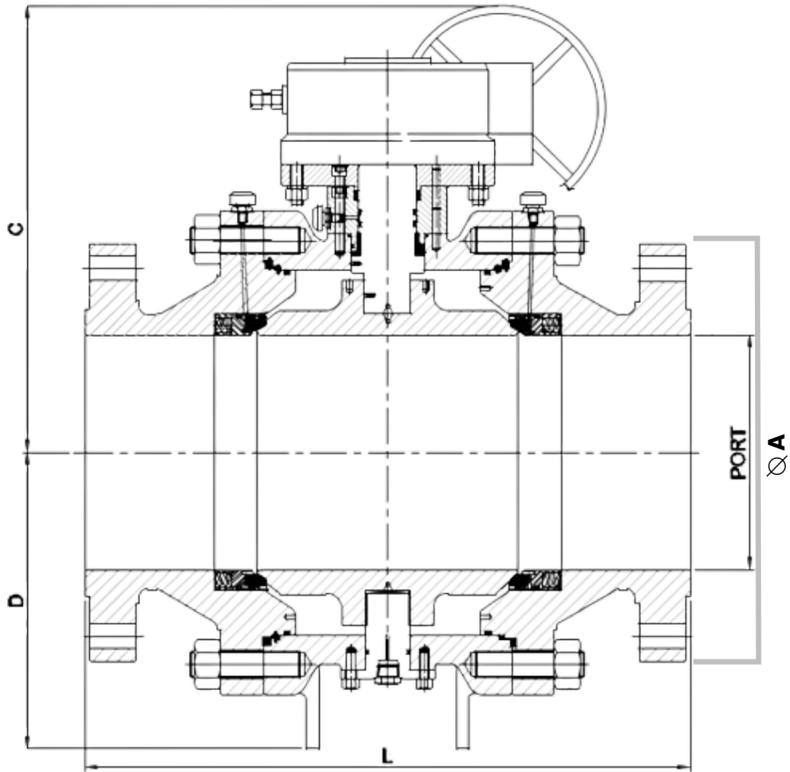
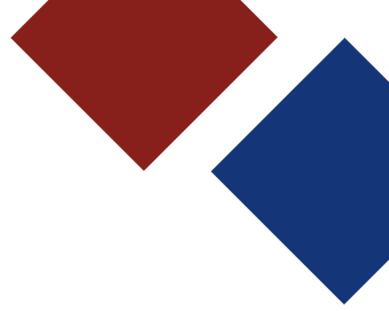
Typical Example – Assembly of 2Pc Trunnion Mounted Ball Valve – Full Bore

DIMENSION TABLE, CLASS -600									
SIZE	FACE TO FACE (L)		Port	ØA	C Approx	D Approx	WT Approx (kg)		Torque Approx (Nm)
	NPS	DN					RF	FL	
2	50	292	49	165	250	75	35	144.3	
3	80	356	74	210	355	105	65	243.5	
4	100	432	100	273	450	130	110	527.7	
6	150	559	150	356	565	175	295	995.1	
8	200	660	201	419	645	235	450	1857.1	
10	250	787	252	508	765	310	745	2916.6	
12	300	838	303	559	810	355	970	5255.6	
14	350	889	334	603	840	380	1330	7743.8	
16	400	991	385	686	935	425	1570	8516.3	

RF : Raised Face , RTJ : Ring Type Joint , BW : Butt weld , FL : Flanged
As Kent Valve continuously endeavour to improve our products, the data given herein is subject to change.



TRUNNION MOUNTED BALL VALVE – THREE PIECE (FULL BORE) FLANGED END 600# (API 6D / ISO 17292)



SL. NO.	DESCRIPTION	MATERIAL
1	Body	ASTM A 216 Gr. WCB
2	Adaptor	ASTM A 216 Gr. WCB
3	Ball	ASTM A351 Gr. CF8M
4	Seat Retainer	AISI 316
5	Seat	PTFE
6	O-Ring (All)	Viton
7	Spring	Inconel
8	Stem	AISI 316
9	Stem Bearing	S.S 316 + Backed PTFE
10	Gasket (All)	Grafoil
11	Stuffing Box	ASTM A 216 Gr. WCB
12	Body Stud & Nut (All)	ASTM A 193 Gr.B7 / ASTM A 194 Gr. 2H
13	Injection Fitting	AISI 316
14	Packing	PTFE / Grafoil
15	Trunnion	ASTM A105
16	Drain	AISI 316

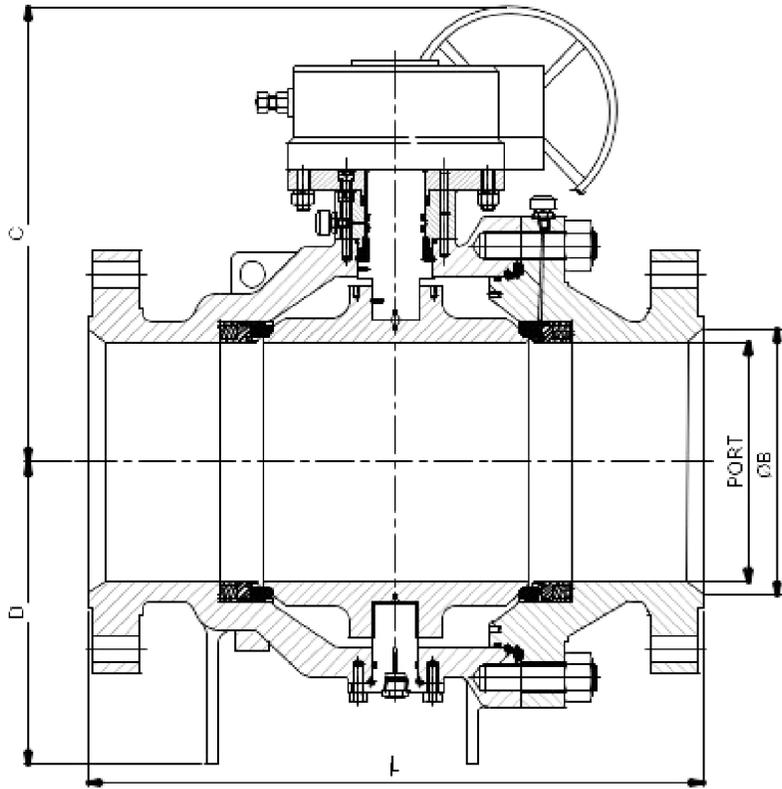
Typical Example – Assembly of 3Pc Trunnion Mounted Ball Valve – Full Bore

DIMENSION TABLE, CLASS -600									
THREE PIECE FULL BORE	SIZE		FACE TO FACE (L)	Port	ØA	C Approx	D Approx	WT Approx (kg)	Torque Approx (Nm)
	NPS	DN	RF					FL	
	2	50	292	49	165	-	-	-	144.3
	3	80	356	74	210	-	-	-	243.5
	4	100	432	100	273	-	-	-	527.7
	6	150	559	150	356	-	-	-	995.1
	8	200	660	201	419	575	340	480	1857.1
	10	250	787	252	508	735	390	820	2916.6
	12	300	838	303	559	950	450	1130	5255.6
	14	350	889	334	603	960	470	1480	7743.8
	16	400	991	385	686	1060	530	1915	8516.3

RF : Raised Face , RTJ : Ring Type Joint , BW : Butt weld , FL : Flanged
As Kent Valve continuously endeavour to improve our products, the data given herein is subject to change.

TRUNNION MOUNTED BALL VALVE - TWO PIECE (REDUCE BORE) FLANGED END

600# (API 6D / ISO 17292)



SL. NO.	DESCRIPTION	MATERIAL
1	Body	ASTM A 216 Gr. WCB
2	Adaptor	ASTM A 216 Gr. WCB
3	Ball	ASTM A351 Gr. CF8M
4	Seat Retainer	AISI 316
5	Seat	PTFE
6	O-Ring (All)	Viton
7	Spring	Inconel
8	Stem	AISI 316
9	Stem Bearing	S.S 316 + Backed PTFE
10	Gasket (All)	Grafoil
11	Stuffing Box	ASTM A 216 Gr. WCB
12	Body Stud & Nut (All)	ASTM A 193 Gr.B7 / ASTM A 194 Gr. 2H
13	Injection Fitting	AISI 316
14	Packing	PTFE / Grafoil
15	Trunnion	ASTM A105
16	Drain	AISI 316

Typical Example – Assembly of 2Pc Trunnion Mounted Ball Valve –Reduce Bore

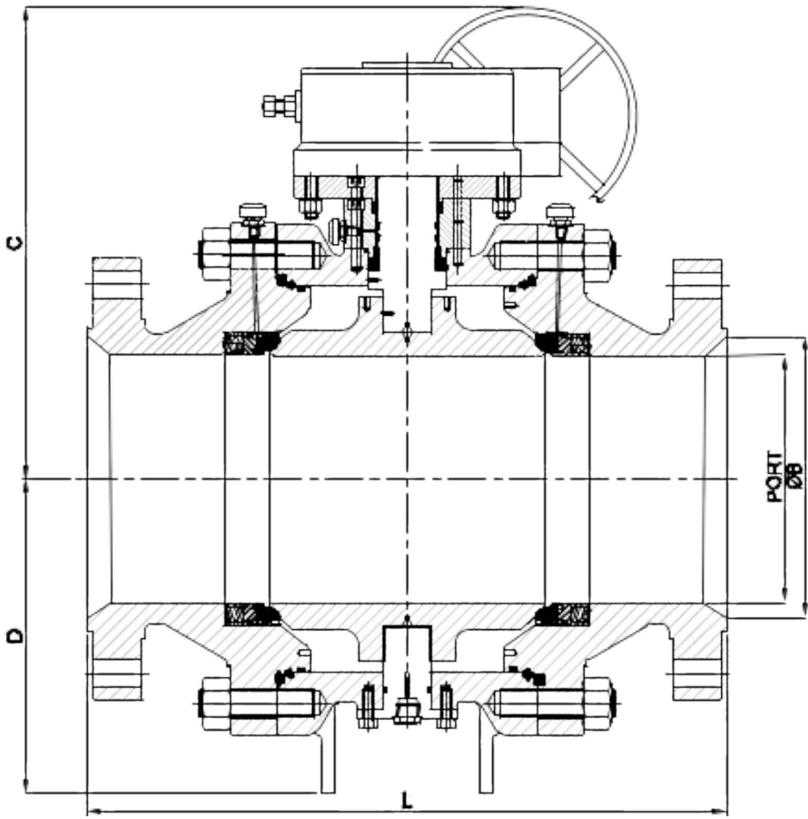
DIMENSION TABLE, CLASS -600

TWO PIECE REDUCE BORE	SIZE		FACE TO FACE (L)	Port	ØA	ØB	C Approx	D Approx	WT Approx (kg)	Torque Approx (Nm)
	NPS	DN	RF						FL	
	3 x 2	50	356	49	210	74	250	75	40	144.3
4 x 3	80	432	74	273	100	355	105	90	243.5	
6 x 4	100	559	100	356	150	450	130	145	527.7	
8 x 6	150	660	150	419	201	565	175	325	995.1	
10 x 8	200	787	201	508	252	645	235	565	1857.1	
12 x 10	250	838	252	559	303	765	310	800	2916.6	
14 x 10	250	889	252	603	334	765	310	965	2916.6	
14 x 12	300	889	303	603	334	810	355	1050	5255.6	
16 x 12	300	991	303	686	385	810	355	1170	5255.6	
16 x 14	350	991	334	686	385	840	380	1465	7743.8	
18 x 14	350	1092	334	743	436	840	380	1540	7743.8	
18 x 16	400	1092	385	743	436	935	425	1735	8516.3	
20 x 16	400	1194	385	813	487	935	425	2065	8516.3	

RF : Raised Face , RTJ : Ring Type Joint , BW : Butt weld , FL : Flanged
As Kent Valve continuously endeavour to improve our products, the data given herein is subject to change.



TRUNNION MOUNTED BALL VALVE - THREE PIECE (REDUCE BORE) FLANGED END 600# (API 6D / ISO 17292)



SL. NO.	DESCRIPTION	MATERIAL
1	Body	ASTM A 216 Gr. WCB
2	Adaptor	ASTM A 216 Gr. WCB
3	Ball	ASTM A351 Gr. CF8M
4	Seat Retainer	AISI 316
5	Seat	PTFE
6	O-Ring (All)	Viton
7	Spring	Inconel
8	Stem	AISI 316
9	Stem Bearing	S.S 316 + Backed PTFE
10	Gasket (All)	Grafoil
11	Stuffing Box	ASTM A 216 Gr. WCB
12	Body Stud & Nut (All)	ASTM A 193 Gr.B7 / ASTM A 194 Gr. 2H
13	Injection Fitting	AISI 316
14	Packing	PTFE / Grafoil
15	Trunnion	ASTM A105
16	Drain	AISI 316

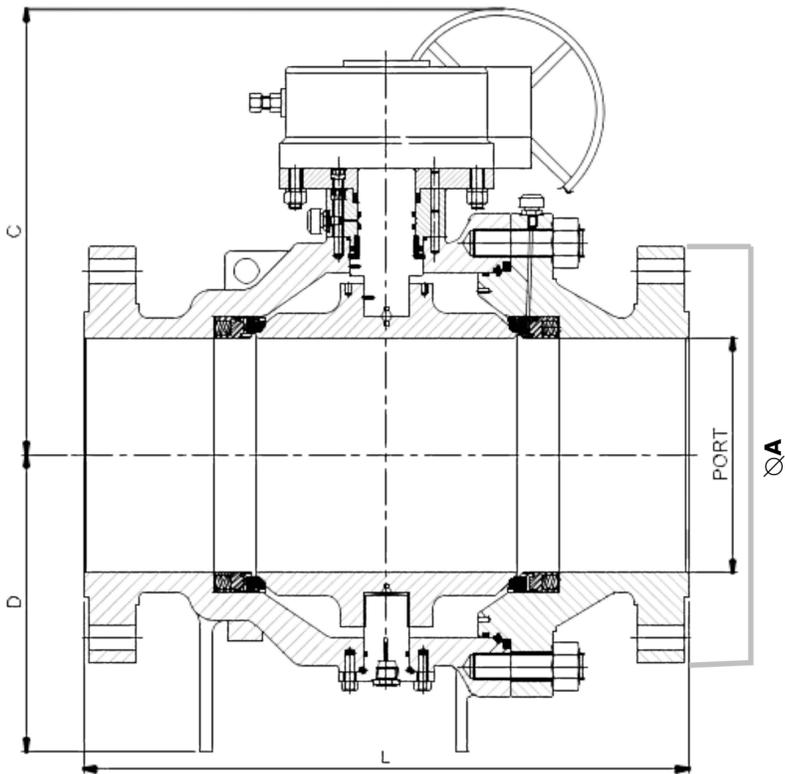
Typical Example – Assembly of 3Pc Trunnion Mounted Ball Valve –Reduce Bore

DIMENSION TABLE, CLASS -600

THREE PIECE REDUCE BORE	SIZE		FACE TO FACE (L)	Port	ØA	ØB	C Approx	D Approx	WT Approx (kg)	Torque Approx (Nm)
	NPS	DN	RF						FL	
	3 x 2	50	356	49	210	-	-	-	-	144.3
4 x 3	80	432	74	273	-	-	-	-	243.5	
6 x 4	100	559	100	356	-	-	-	-	527.7	
8 x 6	150	660	150	419	-	-	-	-	995.1	
10 x 8	200	787	201	508	252	575	340	630	1857.1	
12 x 10	250	838	252	559	303	650	390	855	2916.6	
14 x 10	250	889	252	603	334	650	390	1080	2916.6	
14 x 12	300	889	303	603	334	730	450	1275	5255.6	
16 x 12	300	991	303	686	385	950	450	1355	5255.6	
16 x 14	350	991	334	686	385	960	470	1685	7743.8	
18 x 14	350	1092	334	743	436	960	470	1785	7743.8	
18 x 16	400	1092	385	743	436	1060	530	2000	8516.3	
20 x 16	400	1194	385	813	487	1060	530	2130	8516.3	

RF : Raised Face , RTJ : Ring Type Joint , BW : Butt weld , FL : Flanged
As Kent Valve continuously endeavour to improve our products, the data given herein is subject to change.

TRUNNION MOUNTED BALL VALVE - TWO PIECE (FULL BORE) FLANGED END 900# (API 6D / ISO 17292)



SL. NO.	DESCRIPTION	MATERIAL
1	Body	ASTM A 216 Gr. WCB
2	Adaptor	ASTM A 216 Gr. WCB
3	Ball	ASTM A351 Gr. CF8M
4	Seat Retainer	AISI 316
5	Seat	PTFE
6	O-Ring (All)	Viton
7	Spring	Inconel
8	Stem	AISI 316
9	Stem Bearing	S.S 316 + Backed PTFE
10	Gasket (All)	Grafoil
11	Stuffing Box	ASTM A 216 Gr. WCB
12	Body Stud & Nut (All)	ASTM A 193 Gr.B7 / ASTM A 194 Gr. 2H
13	Injection Fitting	AISI 316
14	Packing	PTFE / Grafoil
15	Trunnion	ASTM A105
16	Drain	AISI 316

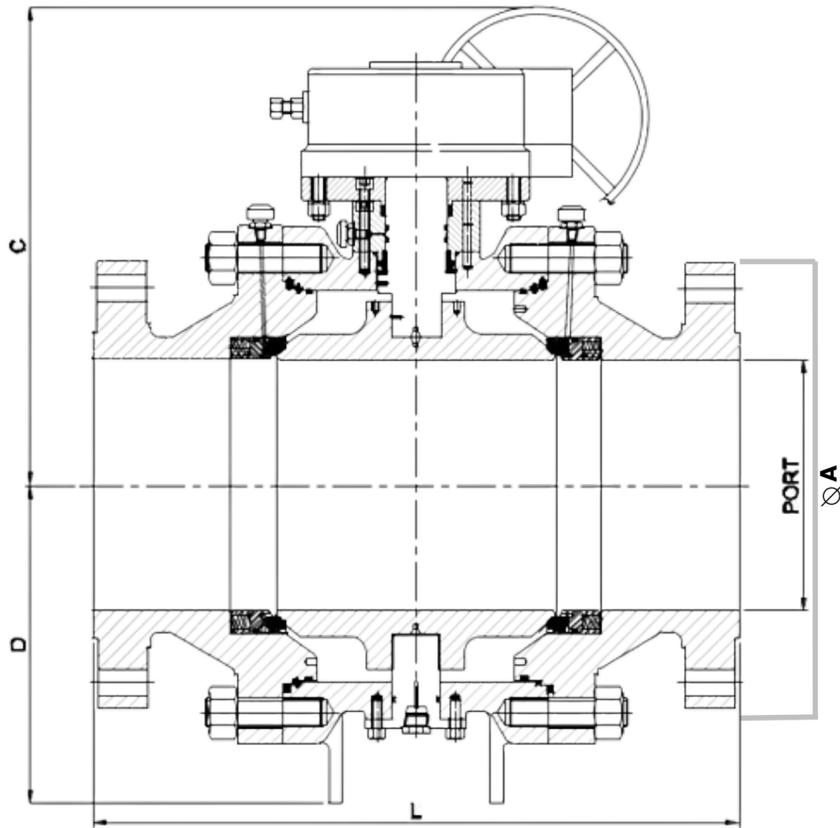
Typical Example – Assembly of 2Pc Trunnion Mounted Ball Valve – Full Bore

DIMENSION TABLE, CLASS -900									
SIZE	FACE TO FACE (L)		Port	ØA	C Approx	D Approx	WT Approx (kg)		Torque Approx (Nm)
	NPS	DN					RF	FL	
2	50	368	49	216	335	95	65	204.7	
3	80	381	74	267	435	120	85	353.1	
4	100	457	100	311	545	145	160	752.7	
6	150	610	150	394	620	195	350	1412.8	
8	200	737	201	483	-	-	-	2650.1	
10	250	838	252	584	-	-	-	4169.1	
12	300	965	303	673	-	-	-	7584.8	
14	350	1029	322	749	-	-	-	11250.5	
16	400	1130	373	826	-	-	-	12305.7	

RF : Raised Face , RTJ : Ring Type Joint , BW : Butt weld , FL : Flanged
As Kent Valve continuously endeavour to improve our products, the data given herein is subject to change.



TRUNNION MOUNTED BALL VALVE - THREE PIECE (FULL BORE) FLANGED END 900# (API 6D / ISO 17292)



SL. NO.	DESCRIPTION	MATERIAL
1	Body	ASTM A 216 Gr. WCB
2	Adaptor	ASTM A 216 Gr. WCB
3	Ball	ASTM A351 Gr. CF8M
4	Seat Retainer	AISI 316
5	Seat	PTFE
6	O-Ring (All)	Viton
7	Spring	Inconel
8	Stem	AISI 316
9	Stem Bearing	S.S 316 + Backed PTFE
10	Gasket (All)	Grafoil
11	Stuffing Box	ASTM A 216 Gr. WCB
12	Body Stud & Nut (All)	ASTM A 193 Gr.B7 / ASTM A 194 Gr. 2H
13	Injection Fitting	AISI 316
14	Packing	PTFE / Grafoil
15	Trunnion	ASTM A105
16	Drain	AISI 316

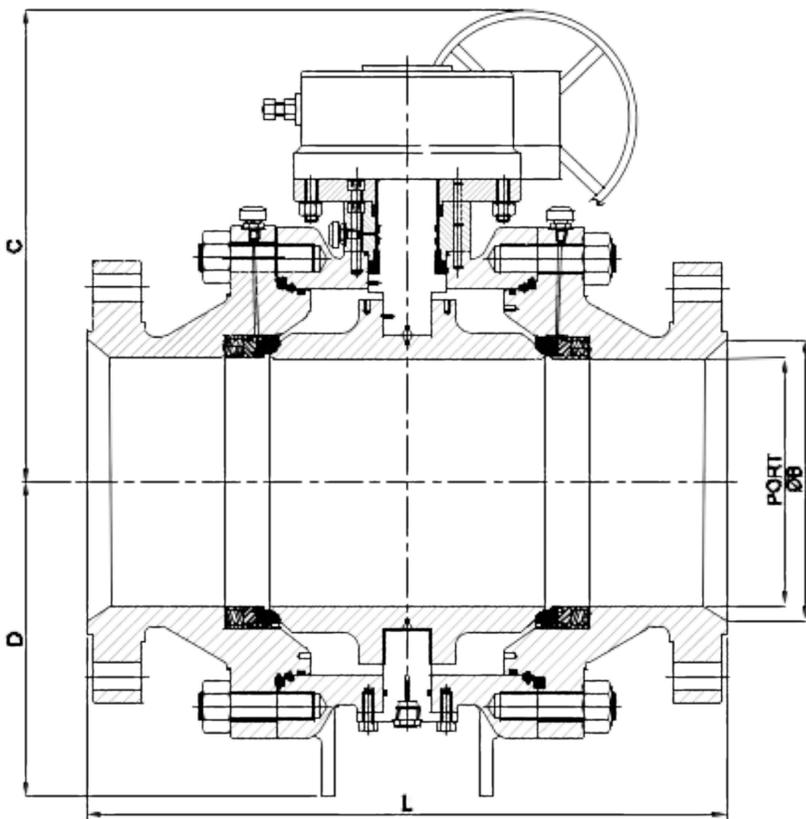
Typical Example – Assembly of 3Pc Trunnion Mounted Ball Valve – Full Bore

DIMENSION TABLE, CLASS -900									
THREE PIECE FULL BORE	SIZE		FACE TO FACE (L)	Port	ØA	C Approx	D Approx	WT Approx (kg)	Torque Approx (Nm)
	NPS	DN	RF					FL	
	2	50	368	49	216	-	-	-	204.7
	3	80	381	74	267	-	-	-	353.1
	4	100	457	100	311	-	-	-	752.7
	6	150	610	150	394	-	-	-	1412.8
	8	200	737	201	483	670	360	650	2650.1
	10	250	838	252	584	770	410	915	4169.1
	12	300	965	303	673	865	460	1430	7584.8
	14	350	1029	322	749	910	500	1600	11250.5
	16	400	1130	373	826	940	545	2195	12305.7

RF : Raised Face , RTJ : Ring Type Joint , BW : Butt weld , FL : Flanged
As Kent Valve continuously endeavour to improve our products, the data given herein is subject to change.

TRUNNION MOUNTED BALL VALVE - TWO PIECE (REDUCE BORE) FLANGED END

900# (API 6D / ISO 17292)



SL. NO.	DESCRIPTION	MATERIAL
1	Body	ASTM A 216 Gr. WCB
2	Adaptor	ASTM A 216 Gr. WCB
3	Ball	ASTM A351 Gr. CF8M
4	Seat Retainer	AISI 316
5	Seat	PTFE
6	O-Ring (All)	Viton
7	Spring	Inconel
8	Stem	AISI 316
9	Stem Bearing	S.S 316 + Backed PTFE
10	Gasket (All)	Grafoil
11	Stuffing Box	ASTM A 216 Gr. WCB
12	Body Stud & Nut (All)	ASTM A 193 Gr.B7 / ASTM A 194 Gr. 2H
13	Injection Fitting	AISI 316
14	Packing	PTFE / Grafoil
15	Trunnion	ASTM A105
16	Drain	AISI 316

Typical Example – Assembly of 2Pc Trunnion Mounted Ball Valve –Reduce Bore

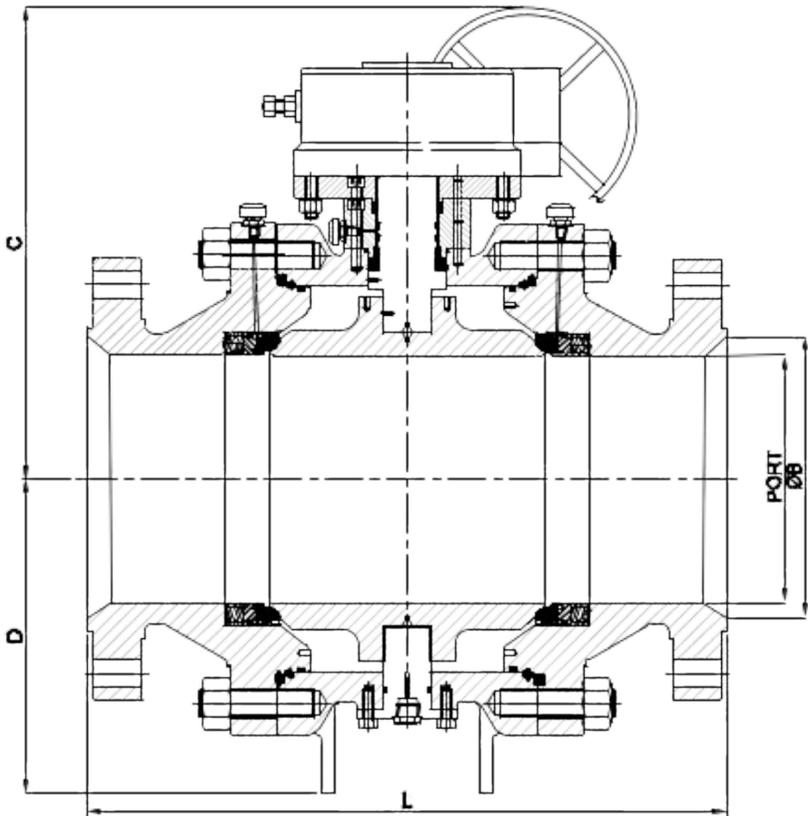
DIMENSION TABLE, CLASS -900

TWO PIECE REDUCE BORE	SIZE		FACE TO FACE (L)	Port	Ø A	B	C Approx	D Approx	WT Approx (kg)	Torque Approx (Nm)
	NPS	DN	RF						FL	
	3 x 2	50	381	49	267	74	335	95	70	204.7
4 x 3	80	457	74	311	100	435	120	110	353.1	
6 x 4	100	610	100	394	150	545	145	210	752.7	
8 x 6	150	737	150	483	201	620	175	380	1412.8	
10 x 8	200	838	201	584	252	-	-	-	2650.1	
12 x 10	250	965	252	673	303	-	-	-	4169.1	
14 x 10	250	1029	252	749	322	-	-	-	4169.1	
14 x 12	300	1029	303	749	322	-	-	-	7584.8	
16 x 12	300	1130	303	826	373	-	-	-	7584.8	
16 x 14	350	1130	322	826	373	-	-	-	11250.5	

RF : Raised Face , RTJ : Ring Type Joint , BW : Butt weld , FL : Flanged
As Kent Valve continuously endeavour to improve our products, the data given herein is subject to change.



TRUNNION MOUNTED BALL VALVE - THREE PIECE (REDUCE BORE) FLANGED END 900# (API 6D / ISO 17292)



SL. NO.	DESCRIPTION	MATERIAL
1	Body	ASTM A 216 Gr. WCB
2	Adaptor	ASTM A 216 Gr. WCB
3	Ball	ASTM A351 Gr. CF8M
4	Seat Retainer	AISI 316
5	Seat	PTFE
6	O-Ring (All)	Viton
7	Spring	Inconel
8	Stem	AISI 316
9	Stem Bearing	S.S 316 + Backed PTFE
10	Gasket (All)	Grafoil
11	Stuffing Box	ASTM A 216 Gr. WCB
12	Body Stud & Nut (All)	ASTM A 193 Gr.B7 / ASTM A 194 Gr. 2H
13	Injection Fitting	AISI 316
14	Packing	PTFE / Grafoil
15	Trunnion	ASTM A105
16	Drain	AISI 316

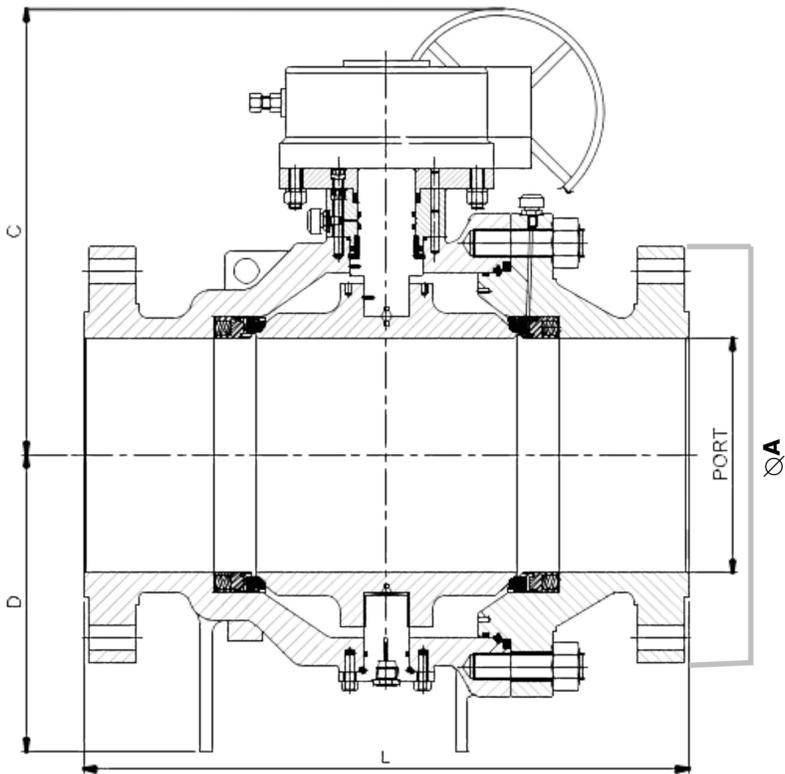
Typical Example – Assembly of 3Pc Trunnion Mounted Ball Valve –Reduce Bore

DIMENSION TABLE, CLASS -900

THREE PIECE REDUCE BORE	SIZE		FACE TO FACE (L)	Port	ØA	ØB	C Approx	D Approx	WT Approx (kg)	Torque Approx (Nm)
	NPS	DN	RF						FL	
	3 x 2	50	381	49	267	74	-	-	-	204.7
4 x 3	80	457	74	311	100	-	-	-	353.1	
6 x 4	100	610	100	394	150	-	-	-	752.7	
8 x 6	150	737	150	483	201	-	-	-	1412.8	
10 x 8	200	838	201	584	252	670	360	750	2650.1	
12 x 10	250	965	252	673	303	770	380	1055	4169.1	
14 x 10	250	1029	252	749	322	770	410	1120	4169.1	
14 x 12	300	1029	303	749	322	730	460	1515	7584.8	
16 x 12	300	1130	303	826	373	865	460	1610	11250.5	
16 x 14	350	1130	322	826	373	760	460	1100	11250.5	

RF : Raised Face , RTJ : Ring Type Joint , BW : Butt weld , FL : Flanged
As Kent Valve continuously endeavour to improve our products, the data given herein is subject to change.

TRUNNION MOUNTED BALL VALVE - TWO PIECE (FULL BORE) FLANGED END 1500# (API 6D / ISO 17292)



SL. NO.	DESCRIPTION	MATERIAL
1	Body	ASTM A 216 Gr. WCB
2	Adaptor	ASTM A 216 Gr. WCB
3	Ball	ASTM A351 Gr. CF8M
4	Seat Retainer	AISI 316
5	Seat	PTFE
6	O-Ring (All)	Viton
7	Spring	Inconel
8	Stem	AISI 316
9	Stem Bearing	S.S 316 + Backed PTFE
10	Gasket (All)	Grafoil
11	Stuffing Box	ASTM A 216 Gr. WCB
12	Body Stud & Nut (All)	ASTM A 193 Gr.B7 / ASTM A 194 Gr. 2H
13	Injection Fitting	AISI 316
14	Packing	PTFE / Grafoil
15	Trunnion	ASTM A105
16	Drain	AISI 316

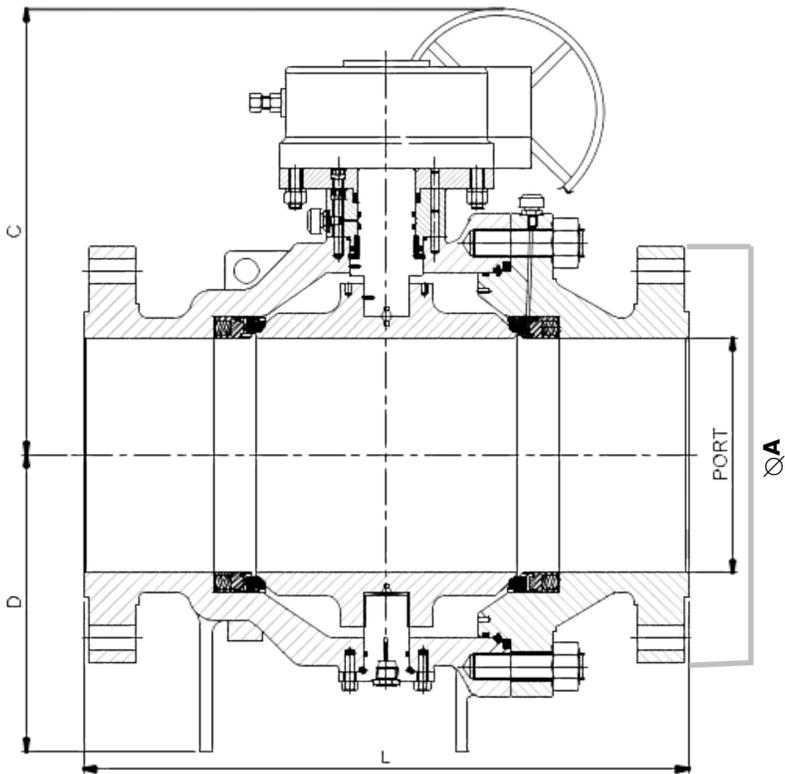
Typical Example – Assembly of 2Pc Trunnion Mounted Ball Valve – Full Bore

DIMENSION TABLE, CLASS -1500									
SIZE	FACE TO FACE (L)		Port	ØA	C Approx	D Approx	WT Approx (kg)		Torque Approx (Nm)
	NPS	DN					RF	FL	
2	50	368	49	216	340	95	70	325.3	
3	80	470	74	267	445	125	110	559.3	
4	100	546	100	311	605	180	265	1202.8	
6	150	705	144	394	645	225	490	2248.3	
8	200	832	192	483	-	-	-	4236.3	
10	250	991	239	584	-	-	-	6673.9	
12	300	1130	287	673	-	-	-	12243.3	
14	350	1257	315	749	-	-	-	18263.9	
16	400	1384	360	826	-	-	-	19884.6	

RF : Raised Face , RTJ : Ring Type Joint , BW : Butt weld , FL : Flanged
As Kent Valve continuously endeavour to improve our products, the data given herein is subject to change.



TRUNNION MOUNTED BALL VALVE - THREE PIECE (FULL BORE) FLANGED END 1500# (API 6D / ISO 17292)



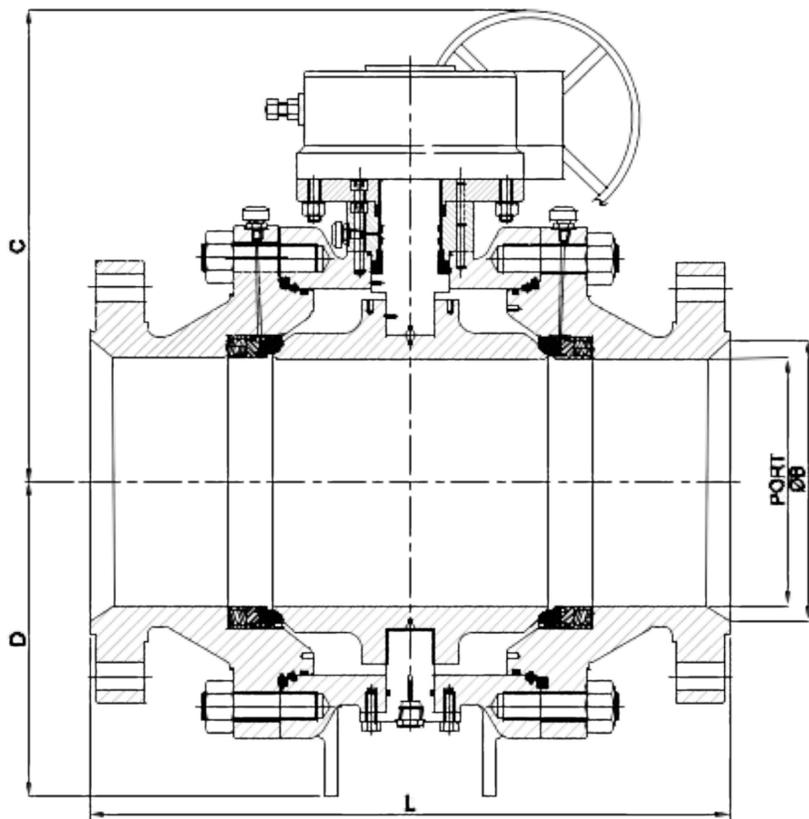
SL. NO.	DESCRIPTION	MATERIAL
1	Body	ASTM A 216 Gr. WCB
2	Adaptor	ASTM A 216 Gr. WCB
3	Ball	ASTM A351 Gr. CF8M
4	Seat Retainer	AISI 316
5	Seat	PTFE
6	O-Ring (All)	Viton
7	Spring	Inconel
8	Stem	AISI 316
9	Stem Bearing	S.S 316 + Backed PTFE
10	Gasket (All)	Grafoil
11	Stuffing Box	ASTM A 216 Gr. WCB
12	Body Stud & Nut (All)	ASTM A 193 Gr.B7 / ASTM A 194 Gr. 2H
13	Injection Fitting	AISI 316
14	Packing	PTFE / Grafoil
15	Trunnion	ASTM A105
16	Drain	AISI 316

Typical Example – Assembly of 3Pc Trunnion Mounted Ball Valve – Full Bore

DIMENSION TABLE, CLASS -1500									
THREE PIECE FULL BORE	SIZE		FACE TO FACE (L)	Port	ØA	C Approx	D Approx	WT Approx (kg)	Torque Approx (Nm)
	NPS	DN	RF					FL	
	2	50	368	49	216	-	-	-	325.3
	3	80	470	74	267	-	-	-	559.3
	4	100	546	100	311	-	-	-	1202.8
	6	150	705	144	394	-	-	-	2248.3
	8	200	832	192	483	750	390	935	4236.3
	10	250	991	239	584	875	475	1800	6673.9
	12	300	1130	287	673	1020	510	2850	12243.3
	14	350	1257	315	749	1060	550	3350	18263.9
	16	400	1384	360	826	1185	620	4190	19884.6

RF : Raised Face , RTJ : Ring Type Joint , BW : Butt weld , FL : Flanged
As Kent Valve continuously endeavour to improve our products, the data given herein is subject to change.

TRUNNION MOUNTED BALL VALVE - TWO PIECE (REDUCE BORE) FLANGED END 1500# (API 6D / ISO 17292)



SL. NO.	DESCRIPTION	MATERIAL
1	Body	ASTM A 216 Gr. WCB
2	Adaptor	ASTM A 216 Gr. WCB
3	Ball	ASTM A351 Gr. CF8M
4	Seat Retainer	AISI 316
5	Seat	PTFE
6	O-Ring (All)	Viton
7	Spring	Inconel
8	Stem	AISI 316
9	Stem Bearing	S.S 316 + Backed PTFE
10	Gasket (All)	Grafoil
11	Stuffing Box	ASTM A 216 Gr. WCB
12	Body Stud & Nut (All)	ASTM A 193 Gr.B7 / ASTM A 194 Gr. 2H
13	Injection Fitting	AISI 316
14	Packing	PTFE / Grafoil
15	Trunnion	ASTM A105
16	Drain	AISI 316

Typical Example – Assembly of 2Pc Trunnion Mounted Ball Valve –Reduce Bore

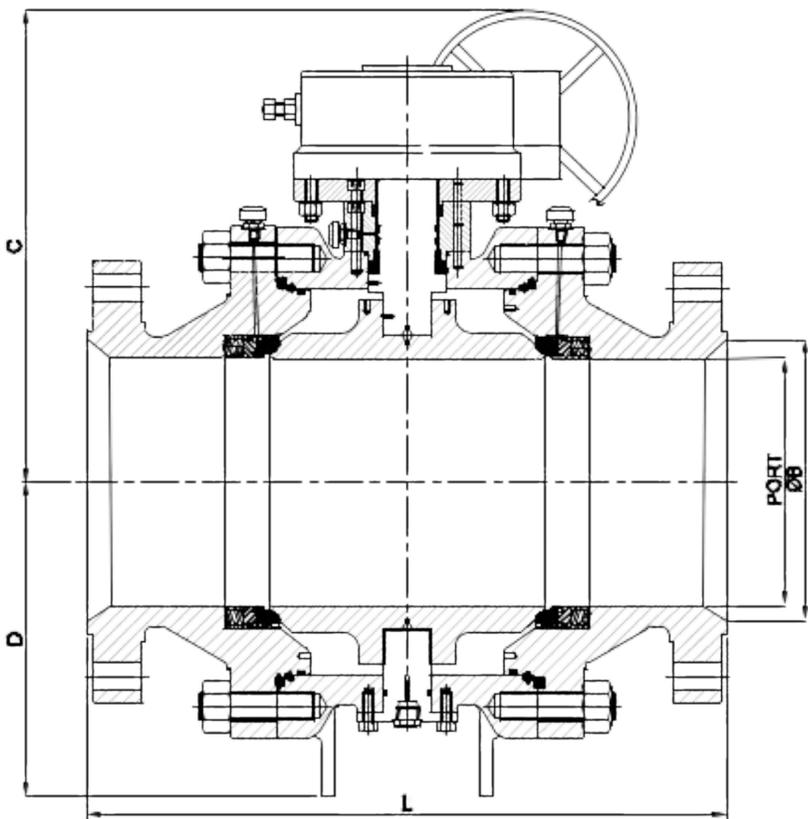
DIMENSION TABLE, CLASS -1500

TWO PIECE REDUCE BORE	SIZE		FACE TO FACE (L)	Port	ØA	ØB	C Approx	D Approx	WT Approx (kg)	Torque Approx (Nm)
	NPS	DN	RF						FL	
	3 x 2	50	470	49	267	74	340	95	85	325.3
4 x 3	80	546	74	311	100	445	125	155	559.3	
6 x 4	100	705	100	394	144	605	180	355	1202.8	
8 x 6	150	832	144	483	192	645	175	580	2248.3	
10 x 8	200	991	192	584	239	-	-	-	4236.3	
12 x 10	250	1130	239	673	287	-	-	-	6673.9	
14 x 10	250	1257	239	749	315	-	-	-	6673.9	
14 x 12	300	1257	287	749	315	-	-	-	12243.3	
16 x 12	300	1384	287	826	360	-	-	-	12243.3	
16 x 14	350	1384	315	826	360	-	-	-	18263.9	

RF : Raised Face , RTJ : Ring Type Joint , BW : Butt weld , FL : Flanged
As Kent Valve continuously endeavour to improve our products, the data given herein is subject to change.



TRUNNION MOUNTED BALL VALVE – THREE PIECE (REDUCE BORE) FLANGED END 1500# (API 6D / ISO 17292)



SL. NO.	DESCRIPTION	MATERIAL
1	Body	ASTM A 216 Gr. WCB
2	Adaptor	ASTM A 216 Gr. WCB
3	Ball	ASTM A351 Gr. CF8M
4	Seat Retainer	AISI 316
5	Seat	PTFE
6	O-Ring (All)	Viton
7	Spring	Inconel
8	Stem	AISI 316
9	Stem Bearing	S.S 316 + Backed PTFE
10	Gasket (All)	Grafoil
11	Stuffing Box	ASTM A 216 Gr. WCB
12	Body Stud & Nut (All)	ASTM A 193 Gr.B7 / ASTM A 194 Gr. 2H
13	Injection Fitting	AISI 316
14	Packing	PTFE / Grafoil
15	Trunnion	ASTM A105
16	Drain	AISI 316

Typical Example – Assembly of 3Pc Trunnion Mounted Ball Valve – Reduce Bore

DIMENSION TABLE, CLASS -1500

THREE PIECE REDUCE BORE	SIZE		FACE TO FACE (L)	Port	ØA	ØB	C Approx	D Approx	WT Approx (kg)	Torque Approx (Nm)
	NPS	DN	RF						FL	
	3 x 2	50	470	49	267	74	-	-	-	325.3
4 x 3	80	546	74	311	100	-	-	-	559.3	
6 x 4	100	705	100	394	144	-	-	-	1202.8	
8 x 6	150	832	144	483	192	-	-	-	2248.3	
10 x 8	200	991	192	584	239	750	390	1125	4236.3	
12 x 10	250	1130	239	673	287	875	475	1910	6673.9	
14 x 10	250	1257	239	749	315	875	475	2150	6673.9	
14 x 12	300	1257	287	749	315	1020	510	2740	12243.3	
16 x 12	300	1384	287	826	360	1020	510	2875	12243.3	
16 x 14	350	1384	315	826	360	1060	460	3725	18263.9	

RF : Raised Face , RTJ : Ring Type Joint , BW : Butt weld , FL : Flanged
As Kent Valve continuously endeavour to improve our products, the data given herein is subject to change.



ORDERING INFORMATION

A	B	C	C1	C2	D	E	F	G
BLT	8	006	FB	3P	FR	16	20	GO

A	
VALVE TYPE MODEL CODE	
BALL VALVE TRUNNION MOUNTED	BLT

B	
SIZE	
2"	02
2 1/2"	2H
3"	03
4"	04
5"	05
6"	06
8"	08
10"	10
12"	12
14"	14
16"	16
18"	18
20"	20
24"	24
26"	26
28"	28
30"	30
32"	32
34"	34
36"	36
38"	38
40"	40

C	
PRESSURE CLASS	
CLASS	FORGED
150	001
300	003
600	006
900	009
1500	015
2500	025

D		
END CONNECTION CODE		
FLANGE	RF	FR
FLANGE	FF	FF
RING TYPE JOINT		RT
BWE		BW
BWE SHORT		BS

E	
BODY MATERIAL ASTM	
A 216 Gr. WCB	16
A 216 Gr. WCC	17
A 352 Gr. LCC	18
A 352 Gr. LCB	19
A 217 GR. WC6	20
A 217 GR. WC9	21
A 217 GR. C5	22
A 351 GR. CF3	23
A 351 GR. CF8	24
A 351 GR. CF3M	25
A 351 GR. CF8M	26
A 351 GR. CF8C	27
A 351 GR. CN7M	28
A 890 GR. 5A	29

C1	
BORE TYPE	
FULL BORE	FB
REDUCE BORE	RB

END CONNECTION 26" & above	
AWWA	AW
ASME B 16.47 - A	4A
ASME B 16.47 - B	4B

C2	
BODY TYPE	
TWO PIECE	2P
THREE PIECE	3P

F			
TRIM MATERIAL			
SR NO.	SEAT	BALL *	STEM /BUSH
20	PTFE	13% Cr	13% Cr
21		SS 304	SS 316
22		SS 316	SS 316
23	GFT 25% GLASS FILLED & CFT	13% Cr	13% Cr
24		SS 304	SS 316
25		SS 316	SS 316
26	DEVLON / DELRIN	13% Cr	13% Cr
27		SS 304	SS 316
28		SS 316	SS 316
29	PEEK	13% Cr	13% Cr
30		SS 304	SS 316
31		SS 316	SS 316
32	EPDM	13% Cr	13% Cr

G	
OPERATOR	
LEVER OPERATED	LO GEAR
OPERATED	GO
PNEUMATIC ACTUATOR	PA
HYDRAULIC ACTUATOR	HA
ELECTRIC ACTUATOR	EA BARE
STEM	BS

SPECIAL REQUIREMENT	
LOCKING ARRANGEMENT	LA
EXTENDED BONNET	EB
CRYOGENIC VALVE	CR
EXTENDED STEM	ES
IBR CERTIFICATE	IB
BYPASS SERVICE	BS
FULL STEM JACKET	FJ
PARTIAL STEM JACKET	PJ

* HF : Hard-faced with Stellite #6 (Co-Cr-W alloy) or equivalent.

Note :- Other Combination if required, please ask.

OFFICE AND FACTORY



KENT VALVE
CRITICAL PRESSURE & FLOW CONTROL



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