



# KPC

## THREE PIECE TRUNNION MOUNTED BALL



### KPC

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# Global Challenger *KPC*

*KPC* Corporation was formed in 1977 as a special material manufacturer in Daegu city, southern part of South Korea and has so far served our clients engaged in the key industries such as oil & gas, mining, petrochemical, power generation, aerospace, defense, and other fields of industries with the most up-to-date and advanced industrial technologies.

This commitment to on-going research and development for more than 30 years of experience in this field, combined with our emphasis on high quality services, has had our company to earn a name *KPC* Corporation deserving not only one of the world leading valve manufacturers but also a leading manufacturer of special materials in wide range indispensable for valve components.

With 4 manufacturing plants, *KPC* Corporation is firmly standing toward a vision to the “Global Best” via daily innovation and improvement using state-of-the-art in-house facilities such as Vacuum Arc Remelting (VAR) furnaces, AOD refining vessel together with vacuum induction melting (VIM) furnaces and a testing and control laboratory to guarantee that each one of our valves meets the most demanding quality, functionality and safety criteria.

All activities at *KPC* are controlled under the detailed quality assurance system registered to ISO 9001 and certified by TUV and API.

*KPC* values Confidence, Service and Pride, and our dedication to quality and customer service will never be compromised.



## Trunnion mounted split body ball valves, double block and bleed function, for oil and gas standard and severe applications

### Features

- Ball valves, trunnion mounted, split body, type 3T
- All valves designed to API 6D and ASME VIII.
- Body wall thickness complies with ASME B16.34 (forged and/or cast).
- Full and reduced bore valves are available.
- Bi-directional valves and double block and bleed allowing venting and draining of the body cavity in both open and closed position.
- Two seat designs are available:
  - Single piston effect providing self relieving of the body cavity overpressure.
  - Double piston effect providing double barrier  
(Safety valve requested for relieving cavity pressure on liquid applications)
- Soft seat (PTFE, PCTFE, PEEK, Polyamide, etc.) and metal seat (TCC, CCC, etc.) are available.
- Blowout proof shouldered stem, (retained by the valve body)
- Antistatic device to BS 5351 (10 Ω under 12 Volt) between body and seats and ball and stem.
- Stem (bearings) to minimize the operating torques.
- Fire tested to API 607 and API 6FA.
- Emergency sealant injection provision, (all seats and stem)
  - standard for size 4" and above, smaller sizes on request.
- Testing to API 6D: hydrostatic body shell test, hydrostatic seats test, DBB test, pneumatic seat test and torque measurement.
- Marking to API 6D.
- Available with electric, pneumatic and hydraulic actuators.



### General application

The **KPC** split body trunnion mounted ball valves have been designed for severe oil and gas applications, including production, upstream processing, transportation and distribution, refining and petrochemical, as well as power plants, water transportation, sea water desalination and chemical applications.

### Technical data

Sizes : 2" to 60", FB and RB  
 Pressure rating : ANSI Class 150 to Class 2500  
 Body materials : Carbon steel, Stainless steel, Duplex and Super Duplex, Special alloys, Carbon steel with Inconel overlay  
 Temperature range : -321°F to +842°F ( -160°C to +450°C )  
 Connections : End to end dimensions to API 6D and ASME B16.10  
 Flanged to ASME B16.5 (2" to 24") and ASME B16.47(26" and above)  
 Buttweld ends to ASME B16.25, Mechanical joint on request

## Special Applications and Options

### Emergency Shut Down Valves (ESDV)

Valves specified ESD valves are with actuators that ensure their positive and rapid operation in an emergency. In case of such critical equipment, full details of the application conditions should be provided at the enquiry stage. **KPC** valves are available with SIL approval to ISO 61508 Standard for ESD service.

### HIPS/HIPPS

**KPC** have developed procedures conforming to the High Integrity Protection System and High Integrity Pressure Protection System to provide the highest level of safety risk analysis for gas process and pipeline installations.

### Special Coatings

The wear resistance and corrosion resistance of seat and ball materials may be enhanced by employing of weld overlays, electroless nickel plating, cobalt alloy deposition or other surface preparations, on seat ring, stem, ball or body sealing areas.

### Operating Packages

**KPC** has wide experience in the provision of total control packages including the fitting and testing of all types of actuation and a complete range of control accessories. Fully functional test facilities enable **KPC** to assume engineering responsibility for the entire package.

### Explosive Decompression

Wherever valves are used on high pressure gas applications, there is the possibility of gas being absorbed into the molecular structure of elastomeric O-rings. If the valve is then subject to a sudden decompression, the gas will expand rapidly and may destroy the O-ring. To be free from this possibility, special O-rings or lip seals suitable for such service conditions are available.

### Sour Service

Valves are available conforming to the recommendations of the NACE specification MR-01-75 for use on applications where the presence of wet H<sub>2</sub>S generates a risk of stress corrosion cracking.



### Metal / Metal

For applications where elastomeric seats would be inappropriate such as very high pressure, temperatures above 392°F(200°C), or where solid particles are present in the fluid, valves are provided with metal/metal seating and incorporating tungsten carbide coating. For high temperature service, the valves will be fitted with extension bonnets to ensure that the operator is located in the ambient temperature zone. Metal seated ball valves are currently used whenever high safety level is required as in the HIPPS application. Seat leakage test to ANSI/FCI 70-2, BS6755 part 1, BS EN 12266

### Seat Pressure / Temperature Ratings

Size	Material	Class150~300~600	900	1500	2500
2"~12"	PTFE	392 °F(200°C)	-	-	-
14"~60"	PCTFE	212 °F(100°C)	176 °F	122 °F	122 °F
2"~60"	PEEK	392 °F(200°C)	320 °F	320 °F	320 °F
14"~60"	Polyamide	212 °F(100°C)	176 °F	104 °F	-
2"~60"	FKM	356 °F(180°C)	-	-	-
2"~60"	Metallic	1022 °F(550°C)	842 °F	842 °F	842 °F

### Color key

	External Trunnion mount, Shaft type
	Internal Trunnion mount, Plate type

### Size / Pressure Ratings

Pressure rating	Size range (full bore)																											
	2"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	22"	24"	26"	28"	30"	32"	34"	36"	40"	42"	46"	48"	54"	56"	60"	
ANSI 150	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□
ANSI 300	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□
ANSI 600	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□
ANSI 900	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□
ANSI 1500	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□
ANSI 2500	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□

## KPC produces

## the following ball valves

**Top Entry  
Trunnion Ball Valve**



One piece body design for inline maintenance. Mainly installed on offshore applications.

- Bolted or pressure sealed bonnet
- Fire safe approved design
- End connections: butt weld, clamped, flanged or transition/pup pieces
- Built-in antistatic feature
- Face to face according to API 6D
- Double block & bleed (SPE, DPE)
- Design to ANSI B16.34
- Soft, Metal/Soft or Metal/Metal Seating
- Wide range of sizes, materials and body design option providing a suitable model for any application.
- ISO mounting models which are quick and easy to automate.

Pressure Class:  
ANSI 150, 300, 600, 900, 1500, 2500  
Size Range : 2" ~ 60"

**Wedge Seal  
Top Entry Ball Valve**



Two piece (cast or forged) trunnion mounted design for tight shut-off on gas and liquid services.

- Full or reduced bore
- Fire safe approved design
- End connections: butt weld, flanged or pup pieces
- Self-adjusting seats:
- Spring loaded low pressure seals
- Pressure activated seating
- Built-in antistatic feature
- Simplified inline service
- Minimal potential leak paths
- Wide selection of materials & options
- Soft, Metal/Soft or Metal/Metal seating
- Manual or powered operation

Pressure Class:  
ANSI 150, 300, 600, 900, 1500  
Size Range : Full bore : 1/2" ~ 10"  
Reduced : 2" ~ 12"

**Top Entry  
Forged Ball Valve**



Severe-Service valves for the Power and Process Industries.

- Full or reduced bore
- End connections: butt weld, flanged, clamped, flanged or transition/pup pieces
- Materials: Stainless Steel, Hastelloy, Monel, Alloy-20, Nickel, Tantalum, Titanium, others.
- Design to ANSI B16.34
- Mechanical indicator
- Live loaded packing( Standard)
- Metal/Metal seating(Standard)
- Manual or powered operation

Pressure Class:  
ANSI 600, 900, 1500, 2500, 4500  
Size Range : 1" ~ 24"

**2 PC Floating  
Ball Valve**



Two piece (cast or forged) floating design for tight shut-off on gas and liquid services.

- Full or reduced bore
- Fire safe approved design
- End connections: butt weld, flanged or pup pieces.
- End connections: butt weld, clamped, flanged or transition / pup pieces.
- Built-in antistatic feature
- Face to face according to API 6D
- Design to ANSI B16.34
- Soft, Metal/Soft or Metal/Metal Seating
- Fugitive emission device
- Cryogenic Service
- Manual or powered operation

Pressure Class:  
ANSI 150, 300, 600  
Size Range : Full bore : 1/2" ~ 10"  
Reduced : 2" ~ 12"

**Split Body  
2PC Trunnion Ball Valve**

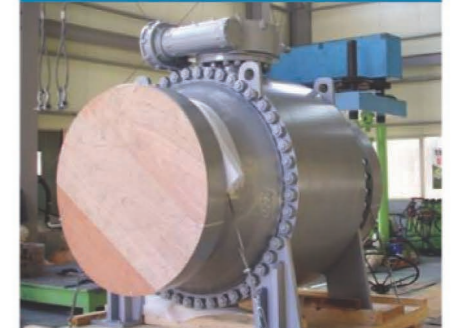


Two piece (cast or forged) trunnion mounted design for tight shut-off on gas and liquid services.

- Full or reduced bore
- Fire safe approved design
- End connections: butt weld, clamped, flanged or transition/pup pieces
- Built-in antistatic feature
- Face to face according to API 6D
- Double Block & Bleed (SPE, DPE)
- Design to ANSI B16.34
- Soft, Metal/Soft or Metal/Metal seating
- Manual or powered operation
- Wide range of sizes, materials and body design option providing a suitable model for any application.
- ISO mounting models which are quick and easy to automate.

Pressure Class:  
ANSI 150, 300, 600, 900, 1500, 2500  
Size Range : 2" ~ 30"

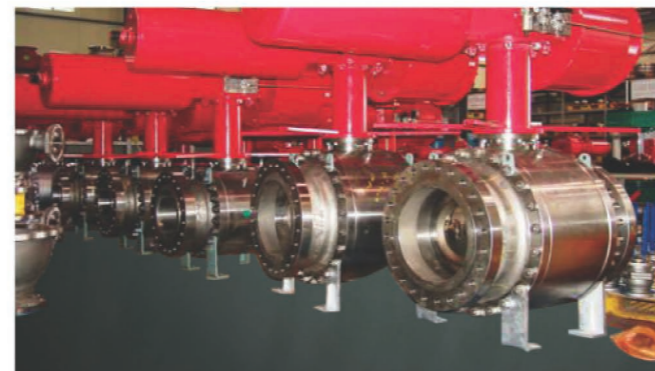
**Split Body  
3PC Trunnion Ball Valve**



3 piece (forged) trunnion mounted design for tight shut-off on gas and liquid services.

- Full or reduced bore
- Fire safe approved design
- End connections: butt weld, clamped, flanged or transition/pup pieces
- Built-in antistatic feature
- Face to face according to API 6D
- Double block & bleed (SPE, DPE)
- Design to ANSI B16.34
- Soft, Metal/Soft or Metal/Metal seating
- Wide range of sizes, materials and body design option providing a suitable model for any application.
- ISO mounting models which are quick and easy to automate.

Pressure Class:  
ANSI 150, 300, 600, 900, 1500, 2500  
Size Range : 2" ~ 60"



# HOW TO SPECIFY KPC BALL VALVES

① ① - ② ② ③ - ⑤ ⑥ - ⑦ ⑧ - ⑨ ⑨  
3 T - 0 8 1 - S 2 - R 2 - G A

3T BALL VALVE 8" ANSI 150# FULL BORE, CARBON STEEL BODY, STAINLESS STEEL TRIM  
GLASS REINFORCED PTFE SEAT, RAISED FACE, GEAR OPERATED, FIRE SAFE, ANTISTATIC

① VALVE MODEL		② SIZE				③ ANSI CLASS & PORT		④ BODY & ⑤ TRIM MAT'L	
CODE	DESCRIPTION	CODE	SIZE	CODE	SIZE	CODE	CLASS	CODE	DESCRIPTION
FM	FLO-MAX (2Pc FLOATING)	OA	1/4	20	20"	1	150# FB	C	C/STEEL
3T	3PCS TRUNNION SIDE ENTRY	OB	1/2	22	22"	2	150# RB	S	S/STEEL
2T	2PC TRUNNION	OC	3/4	24	24"	3	300# FB	A	ALLOY 20
WT	WEDGE SEAL TOP ENTRY	01	1"	26	26"	4	300# RB	H	HASTELLOY
WS	WEDGE SEAL SIDE ENTRY	1A	1 1/4	28	28"	5	600# FB	D	DUPLEX SS
TT	TOP ENTRY TRUNNION	1B	1 1/2	30	30"	6	600# RB	M	MONEL
2F	2PCS FLOATING	02	2"	32	32"	7	900# FB	T	TITANIUM
3F	3PCS FLOATING	2B	2 1/2	34	34"	8	900# RB	X	SPECIAL
SP	SPECIAL	03	3"	36	36"	9	1500# FB		
		04	4"	40	40"	0	1500# RB		
		05	5"	42	42"	A	2500# FB		
		06	6"	44	44"	B	2500# RB		
		08	8"	46	46"	C	4500# FB		
		10	10"	48	48"				
		12	12"	54	54"				
		14	14"	56	56"				
		16	16"	60	60"				
		18	18"						

⑥ SEAT MATERIAL		⑦ END CONFIGURATION		⑧ OPERATING		⑨ OPTIONAL FEATURES	
CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION
1	VIRGIN PTFE	F	FLAT FACE	0	BARE STEM	S	STANDARD
2	GLASS RPTFE	R	RAISED FACE	1	WRENCH HANDLE	G	GRAPHITE PACKING / GASKET (API-607/FIRESAFE)
3	CARBON RPTFE	J	RING JOINT	2	ENCLOSED GEAR	L	DOUBLE LIVE LOADED RTFE CHEVRON PACKING
4	PCTFE	B	BUTT WELD	3	PNEUMATIC	E	EXTENDED STEM
5	PEEK	S	SOCKET WELD	4	ELECTRIC MOTOR	C	CHLORINE SERVICE CLEANING (CL2 CLEANING)
6	METAL SEAT	C	SCREWED	5	HYDRAULIC	N	NACE CERTIFIED TRIM
7	POLYAMIDE	X	SPECIAL	6	OVER HANDLE	V	VENTED BALL
8	CARBON GRAPHITE			X	SPECIAL	X	SPECIAL
9	CERAMIC						
X	SPECIAL						

## in compliance with the following standards

### Applicable Standards

**KPC** ball valves are in accordance with API, ANSI, ASME and BS requirements.  
The following list contains the most important applicable standards for ball valves.  
**KPC** valves may be designed, manufactured and tested in accordance with other international standards on request.

API – American Petroleum Institute		BSI – British Standard Institute	
Spec. 6A	Specification for wellhead and christmas tree equipment	BS 1503	Specification for steel forgings for pressure purposes.
Spec. 6D	Specification for pipeline valves.	BS 1504	Specification for steel castings for pressure purposes.
Spec. 6FA	Specification for fire testing of valves	BS 1560	Steel pipe flanges and flanged fittings.
Spec. RP6F	Recommended practice for fire testing of valves	BS 2080	Face-to-face, centre-to-end, end-to-end and centre-to-end dimensions of flanged and butt-welding end steel valves for the petroleum, petrochemical and allied industries.
Std. 598	Valve inspection and test.	BS 4504	Flanges and bollings for pipes valves and fittings.
Std. 605	Large diameter carbon steel flanges.	BS 5146	Inspection and test of steel valves for the petroleum, petrochemical and allied industries.
Std. 607	Fire test for soft seated quarter-trun valves.	BS 5351	Steel ball valves for the petroleum, petrochemical and allied industries
		BS 5750	Quality ststem
		BS 6755	Testing of valves.

ANSI – American National Standard Institute		MSS – Manufactures Standardization Society	
B 16.5	Steel pipe flanges and flanged fittings.	SP 6	Standafd finishes for contact faces of pipe flanges and connecting-end flages and unions.
B 16.10	Face-to-face and end-to-end dimensioms ends of ferrous valves	SP 25	Standard marking system for valves, fittings flages and unions.
B 16.25	Butt welding ends.	SP 44	Steel pipe line flanges.
B 16.34	Steel valves–flanged and butt welding ends.	SP 45	By-pass and drain connection standard.
B 31.3	Chemical plant and petroleum refinery piping	SP 55	Quality standard for steel castings visual method.
B 31.4	Liquid petroleum transportation piping systems.	SP 61	Hydrostatic testing of steel–valves.
B 31.8	Gas transmission and distribution piping systems.	SP 72	Ball valves with flanged or butt-welding general service.
B 46.1	Surface texture		

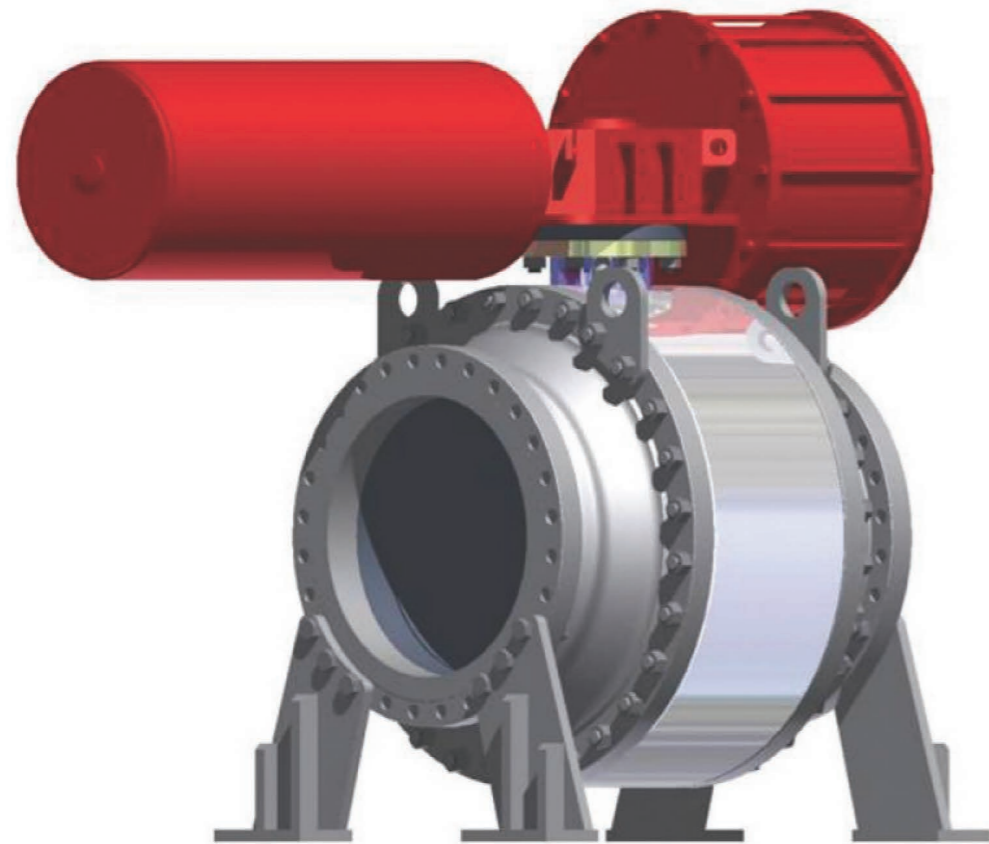
  

ASME – American Society of Mechanical Engineers		ASTM – American Society for Testing Materials	

ISO – International Standard Organization		NACE – National Association of Corrosion Engineers	
ISO 9001	Quality system–Model for quality assurance in design/development, production, installation and servicing	MR0175	Sulfide stress cracking resistant metallic materials for oil field equipment
		MR0103	Standard material requirements

## KPC BALL VALVES, TRUNNION MOUNTED BALL DESIGN

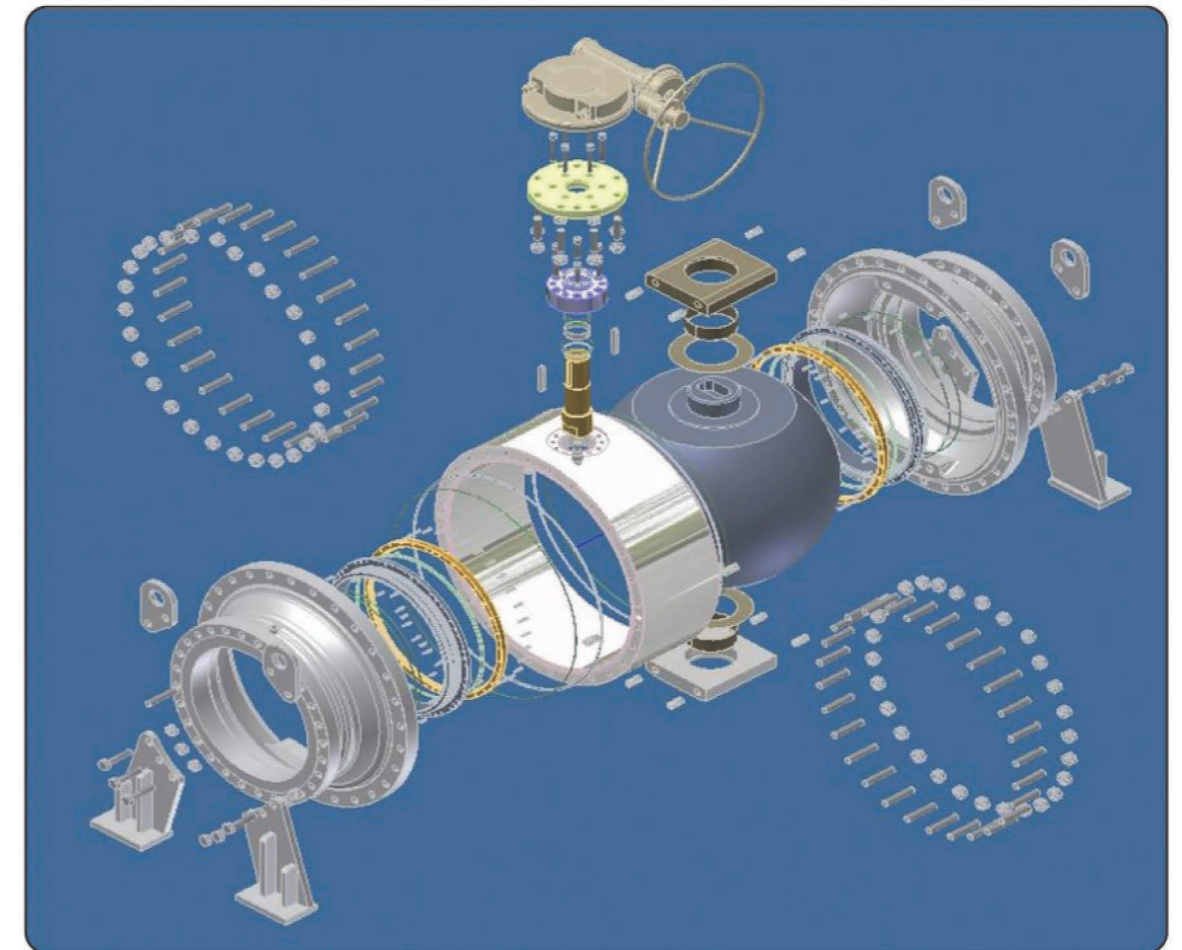


### DESIGN AND TESTING STANDARDS

Design ; ASME B16.34, API 6D, BS EN ISO 17292  
Face to face ; API 6D, ASME B16.10  
Flange dimension ; ASME B16.5 SMOOTH FINISH Ra3,2~6.3 $\mu$ m  
Bore dimension ; API 6D  
Actuator mounting pad on the valve as per ISO 5211  
Pressure test & inspection ; API 598, API 6D  
Fugitive emission qualification as per ISO 15848 & EPA 40  
Actuator mounting pad on the valve as per ISO 5211  
NACE MR 01-75 Compliant  
Fire-Safe ; API 607, API 6FA  
ANTI-STATIC ; BS 5351  
Drain, Vent, Bypass ; API 6D, MSS SP 45

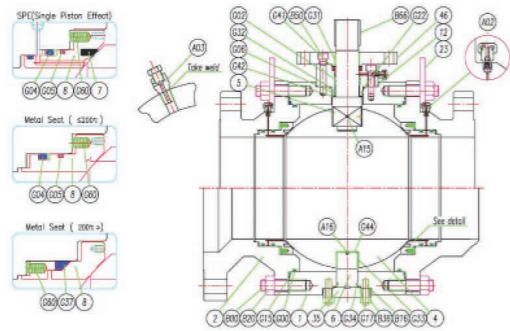
## KPC BALL VALVES, TRUNNION MOUNTED BALL DESIGN

### Construction and Material



### Standard Feature

Trunnion Mounted Ball Design  
Built-In Antistatic  
Blow-out Proof Stem  
Fire Safe Design  
Emergency Sealant Injection  
Double Block & Bleed  
Drain & Vent Fittings  
Support Leg & Lifting lugs



Valve size range:  
4" to 8" FB  
3" to 10" RB  
Pressure rating:  
ANSI 150 to ANSI 600

Valve size range:  
2" to 3"  
Pressure rating:  
ANSI 900 to 2500

The selection of the material depends upon the corrosion resistance, pressure rating and temperature.

Valve part list with BOM – 3T Model, Soft & Metal Seated Ball valves

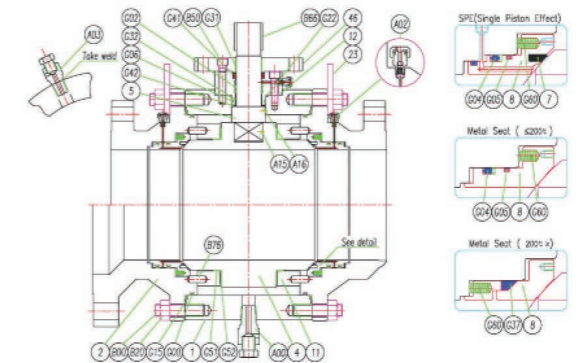
Item	Designation	Carbon Steel Standard Material	Carbon Steel Body with Stainless Steel trim	Stainless Steel body Standard Material
1	Body	ASTM A 105	ASTM A 105	ASTM A 182 Gr F316
2	Cap	ASTM A 216 WCB	ASTM A 216 WCB	ASTM A 182 Gr F316
4	Ball	A 216 WCB+75µm ENP/AISI 410	ASTM A 182 Gr F316	ASTM A 182 Gr F316
5	Stem	A 276 Gr UNS S41000 (AISI 410)	A 276 Gr UNS S41000 (AISI 410)	ASTM A 182 Gr F316
6	Low stem	A 276 Gr UNS S41000 (AISI 410)	A 276 Gr UNS S41000 (AISI 410)	ASTM A 182 Gr F316
7	Seat insert	RTFE/PCTFE/NYLON/PEEK	RTFE/PCTFE/NYLON/PEEK	RTFE/PCTFE/NYLON/PEEK
8	Seat ring	A351 Gr. CF8M	A351 Gr. CF8M	A351 Gr. CF8M
11	Bearing plate	ASTM A216 WCB	ASTM A216 WCB	A351 Gr. CF8M
12	Cover	AISI 1020	AISI 1020	ASTM A 182 Gr F316
23	Lifting lug	AISI 1020	AISI 1020	ASTM A 182 Gr F304
35	Low Cover	AISI 1020	AISI 1020	ASTM A 182 Gr F316
46	Adapter flange	AISI 1020	AISI 1020	ASTM A 182 Gr F316
B00	Stud bolt	ASTM A193 Gr B7M	ASTM A193 Gr B7M	ASTM A 320 Gr B8M
B16	Stud bolt	ASTM A193 Gr B7M	ASTM A193 Gr B7M	ASTM A 320 Gr B8M
B20	Nut	ASTM A194 Gr 2HM	ASTM A194 Gr 2HM	ASTM A 194 Gr 8M
B36	Nut	ASTM A194 Gr 2HM	ASTM A194 Gr 2HM	ASTM A 194 Gr 8M
B50	Screw	ASTM A193 Gr B7M	ASTM A193 Gr B7M	ASTM A 320 Gr B8M
B66	Stem key	AISI 4140	AISI 4140	AISI 4140
G00	O-Ring seal	FKM	FKM	FKM
G02	Stem O-Ring	FKM	FKM	FKM
G04	O-Ring seal	FKM	FKM	FKM
G05	Fire seal	EXPANDED GRAPHITE	EXPANDED GRAPHITE	EXPANDED GRAPHITE
G06	O-Ring seal	FKM	FKM	FKM
G15	Fire safe gasket	EXPANDED GRAPHITE	EXPANDED GRAPHITE	EXPANDED GRAPHITE
G17	Fire safe gasket	EXPANDED GRAPHITE	EXPANDED GRAPHITE	EXPANDED GRAPHITE
G22	Fire safe gasket	EXPANDED GRAPHITE	EXPANDED GRAPHITE	EXPANDED GRAPHITE
G31	Gland bearing	C,S+PTFE LINING	C,S+PTFE LINING	316 SS+PTFE LINING
G32	Stem bearing	C,S+PTFE LINING	C,S+PTFE LINING	316 SS+PTFE LINING
G33	Bearing	C,S+PTFE LINING	C,S+PTFE LINING	316 SS+PTFE LINING
G34	O-Ring seal	FKM	FKM	FKM
G41	Fire seal	EXPANDED GRAPHITE	EXPANDED GRAPHITE	EXPANDED GRAPHITE
G42	Bearing	C,S+PTFE LINING	C,S+PTFE LINING	316 SS+PTFE LINING
G44	Thrust washe	C,S+PTFE LINING	C,S+PTFE LINING	316 SS+PTFE LINING
G51	Bearing	C,S+PTFE LINING	C,S+PTFE LINING	316 SS+PTFE LINING
G52	Bearing	C,S+PTFE LINING	C,S+PTFE LINING	316 SS+PTFE LINING
G60	Seal spring	INCONEL X750	INCONEL X750	INCONEL X750
A00	Drain plug	AISI 1020 + Cr.plated	AISI 1020 + Cr.plated	ASTM A 182 Gr F316L
A02	Sealant injection	AISI 1020 + Cr.plated	AISI 1020 + Cr.plated	ASTM A 182 Gr F316L
A03	Vent plug	AISI 1020 + Cr.plated	AISI 1020 + Cr.plated	ASTM A 182 Gr F316L
A15	Anti-static spring	ANSI 316	ANSI 316	ANSI 316
A16	Anti-static spring	INCONEL X750	INCONEL X750	INCONEL X750

Valve size range:  
10" to 60"  
Pressure rating:  
ANSI 150 to ANSI 600

Valve size range:  
4" to 42"  
Pressure rating:  
ANSI 900

Valve size range:  
4" to 36"  
Pressure rating:  
ANSI 1500

Valve size range:  
4" to 24"  
Pressure rating:  
ANSI 2500



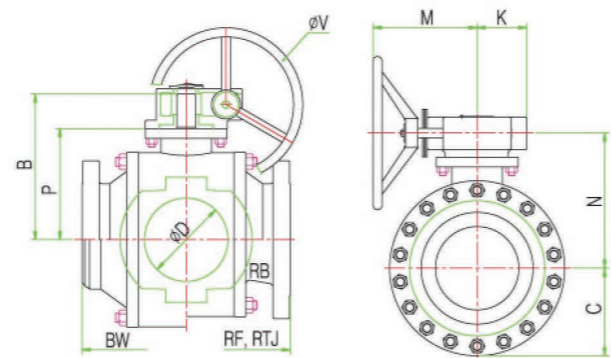
The selection of the material depends upon the corrosion resistance, pressure rating and temperature.

Valve part list with BOM – 3T Model, Soft & Metal Seated Ball valves

Item	Designation	Carbon Steel Standard Material	Carbon Steel Body with Stainless Steel trim	Stainless Steel body Standard Material
1	Body	ASTM A 105	ASTM A 105	ASTM A 182 Gr F316
2	Cap	ASTM A 216 WCB	ASTM A 216 WCB	ASTM A 182 Gr F316
4	Ball	A 216 WCB+75µm ENP/AISI 410	ASTM A 182 Gr F316	ASTM A 182 Gr F316
5	Stem	A 276 Gr UNS S41000 (AISI 410)	A 276 Gr UNS S41000 (AISI 410)	ASTM A 182 Gr F316
7	Seat insert	RTFE/PCTFE/NYLON/PEEK	RTFE/PCTFE/NYLON/PEEK	RTFE/PCTFE/NYLON/PEEK
8	Seat ring	A351 Gr. CF8M	A351 Gr. CF8M	A351 Gr. CF8M
11	Bearing plate	ASTM A216 WCB	ASTM A216 WCB	A351 Gr. CF8M
12	Cover	AISI 1020	AISI 1020	ASTM A 182 Gr F316
23	Lifting lug	AISI 1020	AISI 1020	ASTM A 182 Gr F304
46	Adapter flange	AISI 1020	AISI 1020	ASTM A 182 Gr F316
B00	Stud bolt	ASTM A193 Gr B7M	ASTM A193 Gr B7M	ASTM A 320 Gr B8M
B20	Nut	ASTM A194 Gr 2HM	ASTM A194 Gr 2HM	ASTM A 194 Gr 8M
B50	Screw	ASTM A193 Gr B7M	ASTM A193 Gr B7M	ASTM A 320 Gr B8M
B66	Stem key	AISI 4140	AISI 4140	AISI 4140
B76	PIN	AISI 4140	AISI 4140	AISI 4140
G00	O-Ring seal	FKM	FKM	FKM
G02	Stem O-Ring	FKM	FKM	FKM
G04	O-Ring seal	FKM	FKM	FKM
G05	Fire seal	EXPANDED GRAPHITE	EXPANDED GRAPHITE	EXPANDED GRAPHITE
G06	O-Ring seal	FKM	FKM	FKM
G15	Fire safe gasket	EXPANDED GRAPHITE	EXPANDED GRAPHITE	EXPANDED GRAPHITE
G22	Fire safe gasket	EXPANDED GRAPHITE	EXPANDED GRAPHITE	EXPANDED GRAPHITE
G31	Gland bearing	C,S+PTFE LINING	C,S+PTFE LINING	316 SS+PTFE LINING
G32	Stem bearing	C,S+PTFE LINING	C,S+PTFE LINING	316 SS+PTFE LINING
G41	Fire seal	EXPANDED GRAPHITE	EXPANDED GRAPHITE	EXPANDED GRAPHITE
G42	Bearing	C,S+PTFE LINING	C,S+PTFE LINING	316 SS+PTFE LINING
G51	Bearing	C,S+PTFE LINING	C,S+PTFE LINING	316 SS+PTFE LINING
G52	Bearing	C,S+PTFE LINING	C,S+PTFE LINING	316 SS+PTFE LINING
G60	Seal spring	INCONEL X750	INCONEL X750	INCONEL X750
A00	Drain plug	AISI 1020 + Cr.plated	AISI 1020 + Cr.plated	ASTM A 182 Gr F316L
A02	Sealant injection	AISI 1020 + Cr.plated	AISI 1020 + Cr.plated	ASTM A 182 Gr F316L
A03	Vent plug	AISI 1020 + Cr.plated	AISI 1020 + Cr.plated	ASTM A 182 Gr F316L
A15	Anti-static spring	ANSI 316	ANSI 316	ANSI 316
A16	Anti-static spring	ANSI 316	ANSI 316	ANSI 316



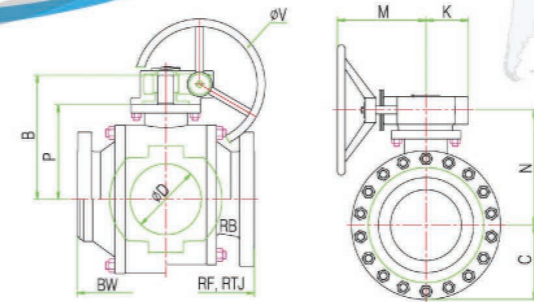




Dimensions ANSI 600 – Full Bore 6" to 60" – Reduced Bore 6" to 60"

Table with 16 columns: ins (mm), Bore, RF, RJ, BW, B, C, D, K, M, N, P, V, RF-RTJ, BW, Gear Operator. Rows include nominal diameters from 6" (150) to 1,500 (1,500) in both reduced and full bore configurations.

For the standards that are not available in these dimensions, please consult our commercial department.  
(1) – Lever operated valves RB = Reduced bore FB = Full bore All dimensions in mm



Dimensions ANSI 900 – Full Bore 4" to 60" – Reduced Bore 4" to 60"

Table with 16 columns: ins (mm), Bore, RF, RJ, BW, B, C, D, K, M, N, P, V, RF-RTJ, BW, Gear Operator. Rows include nominal diameters from 4" (100) to 1,500 (1,500) in both reduced and full bore configurations.

For the standards that are not available in these dimensions, please consult our commercial department.  
(1) – Lever operated valves RB = Reduced bore FB = Full bore All dimensions in mm





KHURAI PROJECT  
24"-300# RTFE SEATED BALL VALVE



KOC PROJECT 24"-300#  
RTFE SEATED TOP ENTRY BALL VALVE



KPPC(SKEC) PROJECT 54" & 48"-150#  
TOP ENTRY BALL VALVE



AI-SHUWEIHAT S2 IWPP PROJECT  
28"-150# BW TOP ENTRY BALL VALVE



KOC GC-24(SKEC) PROJECT  
42"-300# TOP ENTRY BALL VALVE



KOC GC-24(SKEC) PROJECT  
16"-1500# TOP ENTRY BALL VALVE

## That's KPC Quality!!

KPC ball valves are recognized worldwide for its more than 30 years of manufacturing excellence. Our goal is to give our customers the best product at the best competitive price with in-time delivery and the backing of a full service program.

