

KPC

TRUNNION MOUNTED
BALL VALVE

TOP ENTRY



■ Top Entry Ball Valves

Full in Line Maintenance

The KPC Top entry ball valve is specifically designed for in-line maintenance.

The removal of the bonnet from the valve allows free access to the body cavity.

Limited space is required around the valve for maintenance, therefore the KPC top entry ball valve can be installed in areas where space is critical.

Upon completion of the in-line maintenance the integrity of the seat seals can be easily checked by pressurizing the body cavity without involving the pipeline system or other expensive test apparatus.

Standards

- The body is designed and manufactured in accordance with ANSI B16.34
- The bolted bonnet design complies with ASME Code Section VIII, Div. I.
- Flange dimensions in accordance with ANSI B16.5
- Face to face/internal bore dimensions in accordance with API 6D except the face to face dimensions of classes 150, 300 lbs, which are equal to the class 600 lbs face to face dimensions.
- Welding ends in accordance with ANSI B16.25
- Fire Tested to API 6FA & API 607

Features

- Easy in-line maintenance
- Trunnion mounted ball for ease of operation at high pressure
- Fewer potential leak paths
- Flange dimension in accordance with ANSI B 16.5
- Face to face/internal bore dimensions in accordance with API 6D
- Fire tested to API 6FA & API 607
- Double block and bleed
- Anti static design
- Anti blow-out stem
- Self relieving seats
- Choice of soft seated or metal-to-metal seated
- Secondary seat sealing system
- Special designs and materials available on request

Pressure Rating

ANSI Class 150/300/600/900/1500/2500

End Connection

Flanged- Butt Welded- Clamp End



Standard Design Features

Easy in-line maintenance

The KPC top entry ball valve is specifically designed for in-line maintenance.

Easy access to the body cavity is possible by removing the bonnet from the valve, without removing the valve from the pipeline. KPC's top entry ball valves have advantages such as convenient operation and in-line maintenance, small fluid resistance, simple structure, reliable sealing.

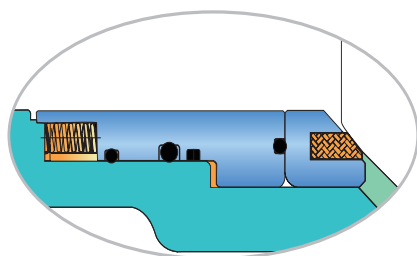
Body/Bonnet Construction

The body is designed and manufactured in accordance with ANSI B16.34

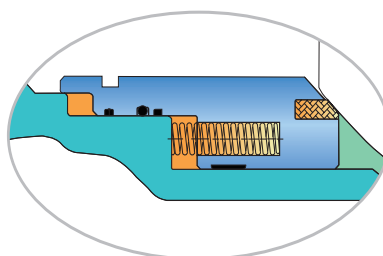
The bolted bonnet design complies with ASME Code Section VIII, Div.1.

A wide variety of sealing materials are available for special needs, such as low temperatures and sour gases. Graphite seals can also be used to further guarantee the performance of the KPC design under fire condition.

Seat Design



2 pieces design



1 piece design

Stem Construction

The stem of the KPC ball valve is of the anti-blow-out design.

The stem and ball connection is of rugged construction.

Therefore, the maximum allowable stem torque is approximately 3 times the required valve torque (shop functional test) at the maximum differential pressure.

The stem design incorporates a triple barrier sealing system (O-rings and graphite rings) which is provided with our standard construction. The upper gasket can be replaced when the ball is in the closed or open position provided that the body cavity is fully vented.

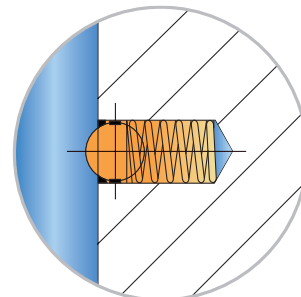
The stem construction can be either of the separate stem and ball design or the integral stem and ball design depending upon type of service

Standard Design Features

Antistatic Device

The KPC ball valve is provided with the anti-static structure and adopts the static electricity discharge device to directly form a static channel between the ball and body or between the ball and body through the stem.

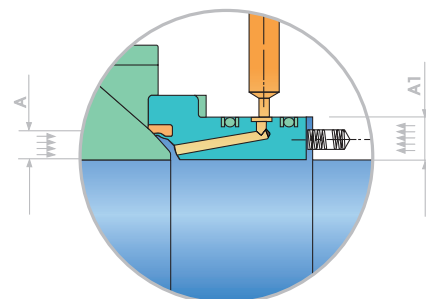
This device discharges the static electricity produced by friction during the opening and closing of ball and seat or by eddy/turbulence of fluid in the pipeline, and ensures system safety by preventing fire or explosion from static spark.



Double Block And Bleed

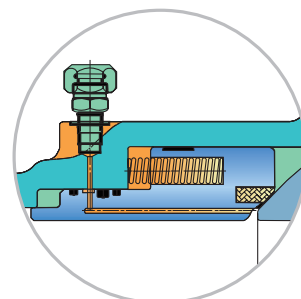
The sealing system of KPC valves, acting on both sides of the ball, leads to the block and bleed principle. Whenever line pressure increases, both upstream and downstream seats move against the ball providing positive sealing.

The bleed valve may be opened to verify tightness or to relieve body pressure for other purposes.



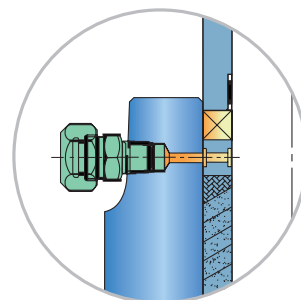
Seat Sealant Injection

An emergency sealant injection system through the seat up to the ball contact circle may provide temporary sealing until the primary seal is restored.



Stem Sealant Injection

An emergency sealant injection point between the second and third O-ring is provided to temporarily seal the stem until the primary seal is restored.



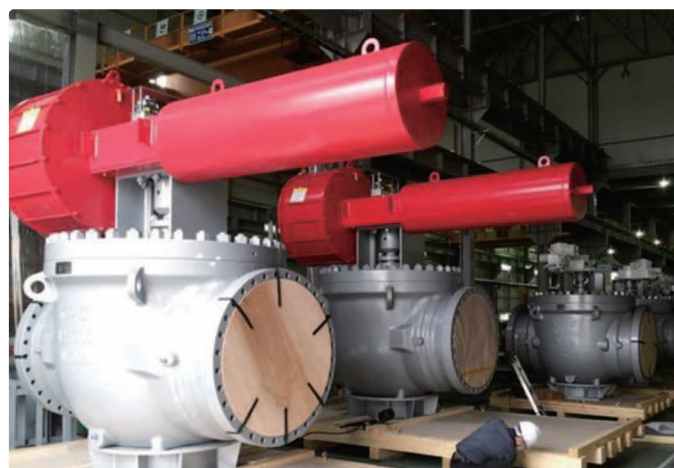
Special Design Features

Automated Systems

Automation and control is an integral part of KPC's service to customers.

KPC offers a full range of automation and control systems conforming to international standards, supplying custom solutions to meet customer specifications and requirements for pneumatic, electric and hydraulic actuators and controls.

Fully functional test facilities enable KPC to assume engineering responsibility for the entire package.



Extended Stem/Drain

Extended stems are easily fitted to top entry ball valves. Extended stems are suitable for inaccessible areas or where the valves are to be installed underground.

The length of the extension is measured from the center line of the valve to the top of the actuator mounting flange (this dimension is to be specified at time of quotation or order).

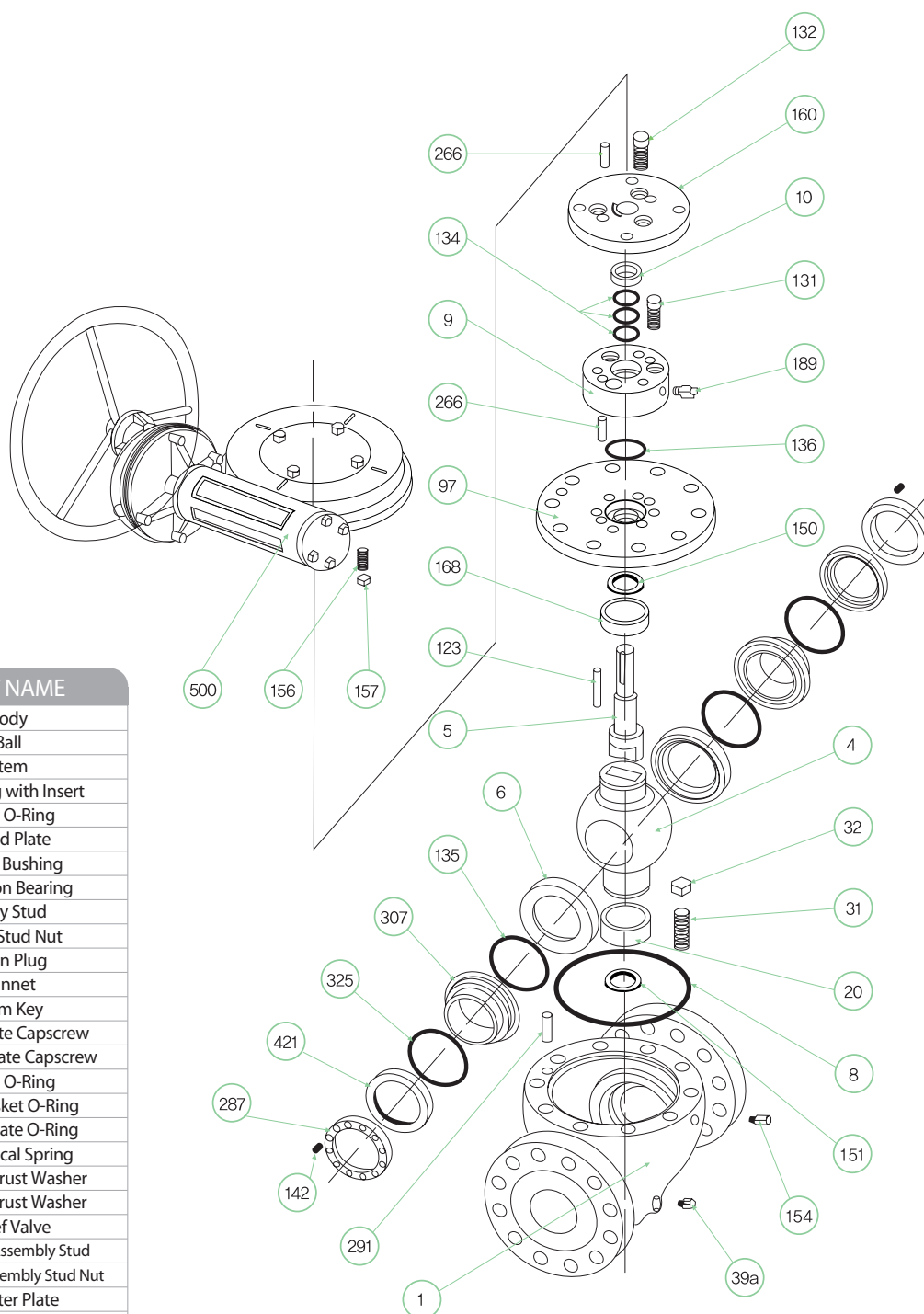
The drains are normally piped to the top of the extension for ease of venting.

※ Other features available on request.



Standard Parts

ITEM	PART NAME
1	Body
4	Ball
5	Stem
6	Seat Ring with Insert
8	Body O-Ring
9	Gland Plate
10	Gland Bushing
20	Trunnion Bearing
31	Body Stud
32	Body Stud Nut
39a	Drain Plug
97	Bonnet
123	Stem Key
131	Gland Plate Capscrew
132	Adapter Plate Capscrew
134	Stem O-Ring
135	Seat Gasket O-Ring
136	Gland Plate O-Ring
142	Cylindrical Spring
150	Upper Thrust Washer
151	Lower Thrust Washer
154	Relief Valve
156	Operator Assembly Stud
157	Operator Assembly Stud Nut
160	Adapter Plate
168	Stem Bearing
189	Stem Grease Fitting
266	Stop Spring Pin
287	Spring Holder Ring
291	Bonnet Spring Pin
307	Seat Thrust Ring
325	Seat Thrust Ring O-Ring
421	Retaining Ring
500	Operator



Range of Material

KPC's top entry ball valves have complete flexibility in the use of materials for body, trim and seal gasket selection.

For this reason, they can be trimmed to meet your most severe applications.

Body/Bonnet Material

- Carbon steel
- Stainless Steel
- Duplex Stainless Steel
- Nickel Alloy
(Inconel, Incoloy, Hastelloy, Monel)

Trim Material

- Carbon steel+ (Overlay or Hard facing)
- Stainless Steel
- Duplex Stainless Steel
- Nickel Alloy
(Inconel, Incoloy, Hastelloy, Monel)

Material for Seat Inserts

Material for seat inserts are selected among the best polymers in order to meet the critical conditions of temperature, pressure and corrosive fluids.

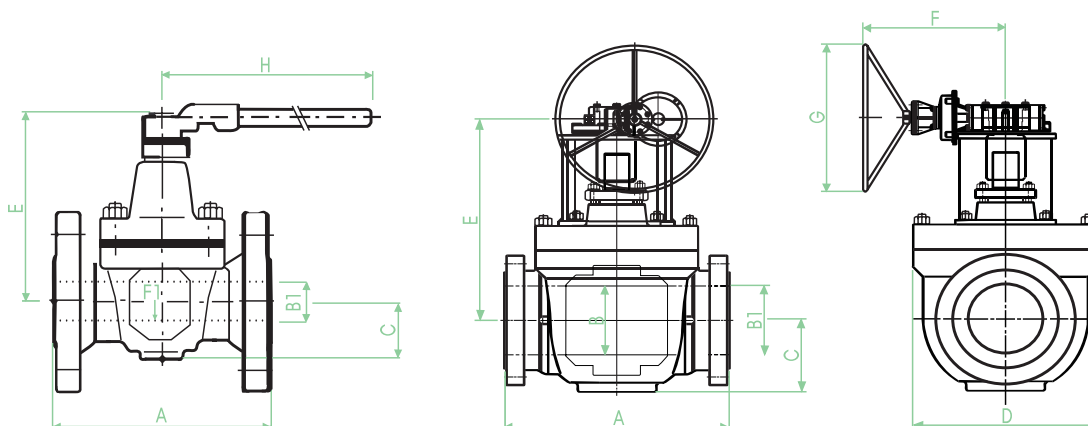
- PTFE, PEEK, Devlon, Viton, Metal

Hard Facing options

Stellite, HVOF (TCC, CCC, others)

Self Fluxing Alloy Powder Coating(Ni Base)

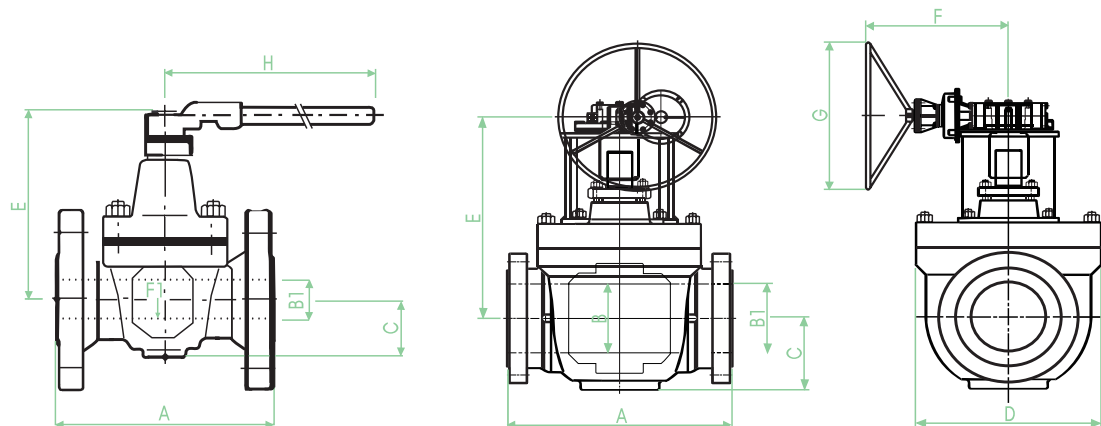
Dimensions



ANSI CLASS 150

SIZE	A			B	B1	C	D	E	F	G	H1	WGT
	RF	RTJ	WE									
2X1 1/2	292	295	292	38	51	85	180	450	-	-	-	25
2	292	295	292	51	51	85	180	450	-	-	-	30
3X2	356	359	356	51	77	85	180	450	-	-	-	45
3	356	359	356	77	77	112	230	600	-	-	-	70
4X3	432	435	432	77	102	112	230	600	-	-	-	80
4	432	435	432	102	102	145	283	1000	-	-	-	110
6X4	559	562	559	102	152	145	283	1000	-	-	-	130
6	559	562	559	152	152	220	325	345	360	500	-	220
8X6	660	664	660	152	203	220	325	345	360	500	-	255
8	660	664	660	203	203	260	405	385	340	700	-	350
10X8	787	791	787	203	254	260	405	385	340	700	-	430
10	787	791	787	254	254	311	490	426	340	700	-	500
12X10	838	841	838	254	305	311	490	426	340	700	-	600
14X10	889	892	889	254	337	311	490	426	340	700	-	650
12	838	841	838	305	305	366	570	473	340	700	-	740
16X12	991	994	991	305	387	366	570	473	340	700	-	860
14	889	892	889	337	337	428	660	530	545	700	-	900
16	991	994	991	387	387	450	700	537	545	700	-	1150
20X16	1194	1200	1194	387	489	450	700	537	545	700	-	1500
18	1092	1095	1092	438	438	473	755	597	575	700	-	1550
20	1194	1200	1194	489	489	580	880	663	579	700	-	2050
24X20	1397	1406	1397	489	591	580	880	663	579	700	-	2400
22	1295	1305	1295	540	540	590	965	690	579	700	-	2840
24	1397	1406	1397	591	591	600	1040	721	579	700	-	3600
30X24	1651	1664	1651	591	736	600	1040	721	579	700	-	3960
26	1448	1460	1448	635	635	635	1085	874	605	620	-	4550
28	1549	1562	1549	686	686	700	1175	919	950	1400	-	5700
30	1651	1664	1651	737	737	700	1492	1150	900	1000	1050	6800
32x26	1778	1794	1778	635	781	640	1090	-	-	-	900	6200
32	1778	1794	1778	781	781	800	1550	-	-	-	1100	7300
34x28	1930	1946	1930	686	832	700	1180	-	-	-	950	6800
34	1930	1946	1930	832	832	850	1620	-	-	-	1150	8000
36x30	2083	2098	2083	737	874	700	1492	-	-	-	1050	8200
36	2083	2098	2083	874	874	900	1680	-	-	-	1200	10500
40x34	2337	2337	2337	832	978	850	1620	-	-	-	1150	10000
40	2337	2337	2337	978	978	1000	1850	-	-	-	1300	13000
42x36	2437	2437	2437	874	1022	900	1670	-	-	-	1200	11800
42	2437	2437	2437	1022	1022	1050	1870	-	-	-	1400	15200
48x42	2540	2540	2540	1022	1166	1050	1870	-	-	-	1400	18000
48	2540	2540	2540	1166	1166	1250	2080	-	-	-	1500	23000
54	2949	2949	2949	1330	1330	1350	2360	-	-	-	1600	26500
60	3030	3030	3030	1460	1460	1500	2520	-	-	-	1900	43000

• Dimensions in mm • All weights in kg and approximate

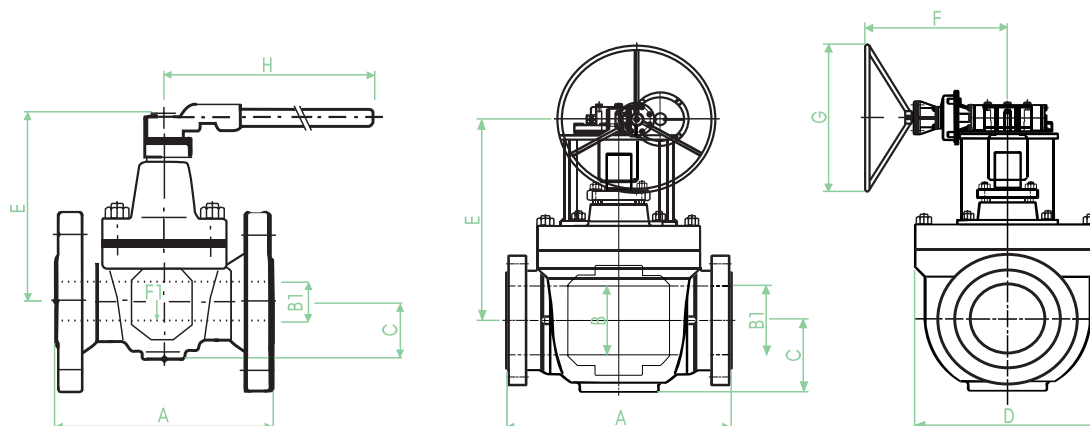


ANSI CLASS 300

SIZE	A			B	B1	C	D	E	F	G	H1	WGT
	RF	RTJ	WE									
2X1 1/2	292	295	292	38	51	85	180	450	-	-	-	35
2	292	295	292	51	51	85	180	450	-	-	-	42
3X2	356	359	356	51	77	85	180	450	-	-	-	50
3	356	359	356	77	77	112	230	600	-	-	-	70
4X3	432	435	432	77	102	112	230	600	-	-	-	95
4	432	435	432	102	102	145	283	1000	-	-	-	120
6X4	559	562	559	102	152	145	283	1000	-	-	-	155
6	559	562	559	152	152	220	325	345	360	500	-	250
8X6	660	664	660	152	203	220	325	345	360	500	-	280
8	660	664	660	203	203	260	405	385	340	700	-	360
10X8	787	791	787	203	254	260	405	385	340	700	-	450
10	787	791	787	254	254	311	490	426	340	700	-	540
12X10	838	841	838	254	305	311	490	426	340	700	-	650
14X10	889	892	889	254	337	311	490	426	340	700	-	730
12	838	841	838	305	305	366	570	473	340	700	-	780
16X12	991	994	991	305	387	366	570	473	340	700	-	1000
14	889	892	889	337	337	428	660	530	545	700	-	1150
16	991	994	991	387	387	450	700	537	545	700	-	1450
20X16	1194	1200	1194	387	489	450	700	537	545	700	-	1850
18	1092	1095	1092	438	438	473	755	597	575	700	-	2000
20	1194	1200	1194	489	489	580	880	663	579	700	-	2600
24X20	1397	1406	1397	489	591	580	880	663	579	700	-	2900
22	1295	1305	1295	540	540	590	965	690	579	700	-	3500
24	1397	1406	1397	591	591	600	1040	721	579	700	-	4200
30X24	1651	1664	1651	591	736	600	1040	721	579	700	-	5200
26	1448	1460	1448	635	635	635	1085	874	605	620	-	5500
28	1549	1562	1549	686	686	700	1175	919	950	1400	-	6700
30	1651	1664	1651	737	737	700	1492	1150	950	1000	1050	7500
32x26	1778	1794	1778	635	781	640	1090	-	-	-	900	6400
32	1778	1794	1778	781	781	800	1560	-	-	-	1100	8300
34x28	1930	1946	1930	686	832	700	1180	-	-	-	950	7100
34	1930	1946	1930	832	832	850	1620	-	-	-	1150	9200
36x30	2083	2098	2083	737	874	700	1492	-	-	-	1050	9700
36	2083	2098	2083	874	874	900	1680	-	-	-	1200	12600
40x34	2337	2337	2337	832	978	850	1620	-	-	-	1150	11700
40	2337	2337	2337	978	978	1000	1850	-	-	-	1300	15200
42x36	2437	2437	2437	874	1022	900	1680	-	-	-	1200	13800
42	2437	2437	2437	1022	1022	1050	1870	-	-	-	1400	17900
48x42	2540	2540	2540	1022	1166	1050	1870	-	-	-	1400	19300
48	2540	2540	2540	1166	1166	1250	2080	-	-	-	1500	25000
54	2949	2949	2949	1330	1330	1350	2360	-	-	-	1600	27000
60	3030	3030	3030	1460	1460	1500	2520	-	-	-	1900	45000

• Dimensions in mm • All weights in kg and approximate

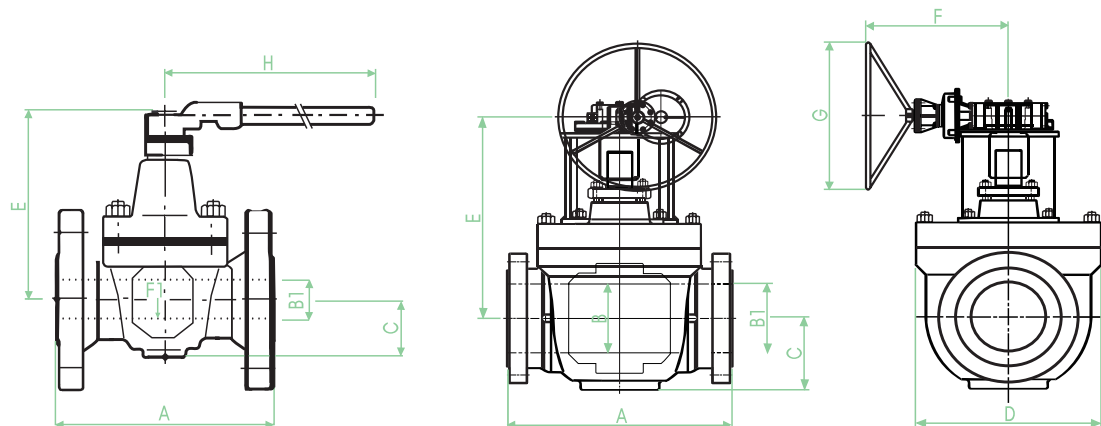
Dimensions



ANSI CLASS 600

SIZE	A			B	B1	C	D	E	F	G	H1	WGT
	RF	RTJ	WE									
2X1 1/2	292	295	292	38	51	85	180	450	-	-	-	35
2	292	295	292	51	51	85	180	600	-	-	-	42
3X2	356	359	356	51	77	85	180	600	-	-	-	55
3	356	359	356	77	77	112	230	1000	-	-	-	75
4X3	432	435	432	77	102	112	230	1000	-	-	-	105
4	432	435	432	102	102	145	283	1000	-	-	-	160
6X4	559	562	559	102	152	145	283	1000	-	-	-	195
6	559	562	559	152	152	220	325	336	340	700	-	300
8X6	660	664	660	152	203	220	325	336	340	700	-	340
8	660	664	660	203	203	260	415	395	340	700	-	500
10X8	787	791	787	203	254	260	415	395	340	700	-	600
10	787	791	787	254	254	311	505	415	545	700	-	760
12X10	838	841	838	254	305	311	505	415	545	700	-	850
14X10	889	892	889	254	337	311	505	415	545	700	-	930
12	838	841	838	305	305	366	585	461	545	700	-	1050
16X12	991	994	991	305	387	366	585	461	545	700	-	1350
14	889	892	889	337	337	428	680	526	575	700	-	1450
16	991	994	991	387	387	450	730	568	575	700	-	1940
20X16	1194	1200	1194	387	489	450	730	568	575	700	-	2400
18	1092	1095	1092	438	438	473	784	629	579	700	-	2500
20	1194	1200	1194	489	489	580	900	682	579	700	-	3050
24X20	1397	1406	1397	489	591	580	900	682	579	700	-	4150
22	1295	1305	1295	540	540	590	890	711	579	700	-	4450
24	1397	1406	1397	591	591	600	1070	808	950	1400	-	5000
30X24	1651	1664	1651	591	736	600	1070	808	950	1400	-	6100
26	1448	1460	1448	635	635	635	1115	880	950	1400	-	6300
28	1549	1562	1549	686	686	700	1210	945	950	1400	-	7700
30	1651	1664	1651	737	737	750	1492	1200	950	1000	1050	8700
32x26	1778	1794	1778	635	781	640	1120	-	-	-	900	8200
32	1778	1794	1778	781	781	850	1580	-	-	-	1100	10500
34x28	1930	1946	1930	686	832	700	1250	-	-	-	950	10000
34	1930	1946	1930	832	832	900	1670	-	-	-	1150	11700
36x30	2083	2098	2083	737	874	750	1500	-	-	-	1050	11300
36	2083	2098	2083	874	874	950	1690	-	-	-	1200	14000
40x34	2337	2337	2337	832	978	900	1670	-	-	-	1150	15250
40	2337	2337	2337	978	978	1050	1870	-	-	-	1300	19500
42x36	2437	2437	2437	874	1022	950	1690	-	-	-	1200	18200
42	2437	2437	2437	1022	1022	1100	1880	-	-	-	1400	22500
48x42	2540	2540	2540	1022	1166	1100	1880	-	-	-	1400	29300
48	2540	2540	2540	1166	1166	1250	2100	-	-	-	1500	32000

• Dimensions in mm • All weights in kg and approximate

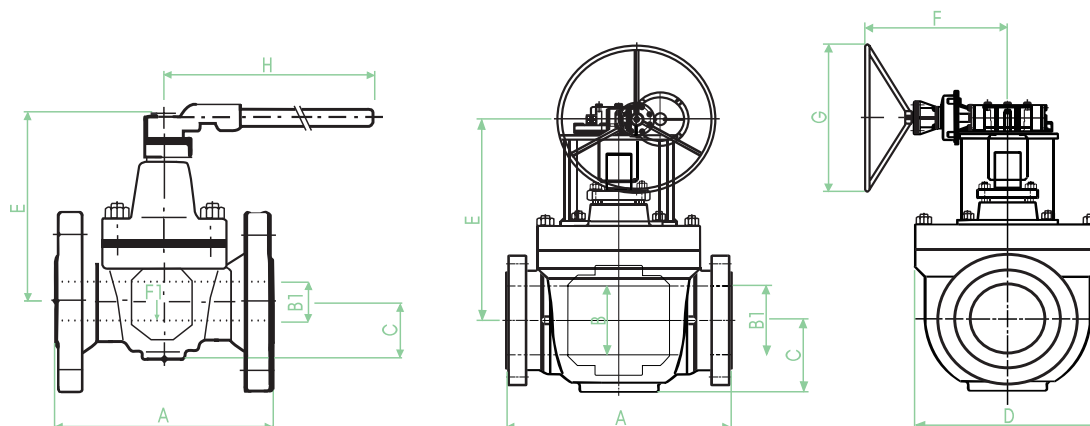


ANSI CLASS 900

SIZE	A			B	B1	C	D	E	F	G	H1	WGT
	RF	RTJ	WE									
2X1 1/2	368	371	368	38	51	85	195	450	-	-	-	60
2	368	371	368	51	51	85	195	600	-	-	-	67
3X2	381	384	381	51	77	85	195	600	-	-	-	80
3	381	384	381	77	77	112	240	1000	-	-	-	95
4X3	457	460	457	77	102	112	240	1000	-	-	-	130
4	457	460	457	102	102	145	295	291	360	500	-	190
6X4	610	613	610	102	152	145	295	291	360	500	-	270
6	610	613	610	152	152	225	330	313	340	700	-	380
8X6	737	740	737	152	203	225	330	313	340	700	-	470
8	737	740	737	203	203	260	425	378	545	700	-	650
10X8	838	841	838	203	254	260	425	378	545	700	-	880
10	838	841	838	254	254	320	525	430	545	700	-	950
12X10	965	968	965	254	305	320	525	430	545	700	-	1150
14X10	1029	1038	1029	254	324	320	525	430	545	700	-	1400
12	965	968	965	305	305	375	600	493	575	700	-	1550
16X12	1130	1140	1130	305	375	375	600	493	575	700	-	1750
14	1029	1038	1029	324	324	440	695	545	575	700	-	2100
16	1130	1140	1130	375	375	465	750	605	579	700	-	2930
20X16	1321	1331	1321	375	473	465	750	605	579	700	-	3550
18	1219	1232	1219	425	425	485	800	650	579	700	-	3690
20	1321	1331	1321	473	473	600	925	775	950	1400	-	4950
24X20	1549	1568	1549	473	571	600	925	775	950	1400	-	6870
24	1549	1568	1549	571	571	620	1095	835	950	1400	-	7900
30X24	1880	1902	1880	571	714	620	1095	835	950	1400	-	9250
26	1651	1674	1651	619	619	655	1145	915	950	1400	-	9500
28	1753	1775	1753	667	667	720	1240	979	950	1400	-	11200
30	1880	1902	1880	714	714	800	1540	1300	950	1000	1150	13200
32x26	2032	2054	2032	617	762	660	1150	-	-	-	1000	12400
32	2032	2054	2032	762	762	900	1650	-	-	-	1200	16000
34x28	2159	2188	2159	665	762	720	1250	-	-	-	1050	14500
34	2159	2188	2159	810	810	1000	1750	-	-	-	1250	18000
36x30	2286	2315	2286	712	810	800	1540	-	-	-	1150	17200
36	2286	2315	2286	857	857	1100	1850	-	-	-	1300	23000
40	2580	2600	2580	958	958	1200	1950	-	-	-	1350	32000

• Dimensions in mm • All weights in kg and approximate

■ Dimensions



■ ANSI CLASS 1500

SIZE	A			B	B1	C	D	E	F	G	H1	WGT
	RF	RTJ	WE									
2X1 1/2	368	371	368	38	51	85	205	450	-	-	-	75
2	368	371	368	51	51	85	205	600	-	-	-	80
3X2	470	473	470	51	77	85	205	600	-	-	-	95
3	470	473	470	77	77	120	250	1000	-	-	-	130
4X3	546	549	546	77	102	120	250	1000	-	-	-	180
4	546	549	546	102	102	155	310	295	340	700	-	270
6X4	705	711	705	102	146	155	310	295	340	700	-	340
6	705	711	705	146	146	240	370	333	545	700	-	635
8X6	832	841	832	146	194	240	370	333	545	700	-	770
8	832	841	832	194	194	280	455	410	575	700	-	1150
10X8	991	1000	991	194	241	280	455	410	575	700	-	1500
10	991	1000	991	241	241	340	565	460	575	700	-	1610
12X10	1130	1146	1130	241	289	340	565	460	575	700	-	2120
14X10	1257	1276	1257	241	317	340	565	460	575	700	-	2190
12	1130	1146	1130	289	289	400	670	511	575	700	-	2750
16X12	1384	1406	1384	289	362	400	670	511	575	700	-	3250
14	1257	1276	1257	317	317	467	730	575	579	700	-	3400
16	1384	1406	1384	362	362	495	790	620	579	700	-	5250
18	1537	1559	1537	407	407	520	840	740	950	1400	-	6300
20	1664	1686	1664	457	457	639	965	795	950	1400	-	7900
24	2043	2071	2043	534	534	640	1145	979	1045	1400	-	12500
30	2590	2610	2590	688	688	1350	1750	-	-	-	1250	30000
32	2770	2790	2770	732	732	1500	1900	-	-	-	1300	35000
36	3110	3130	3110	821	821	1800	2200	-	-	-	1400	50000

■ ANSI CLASS 2500

SIZE	A			B	B1	C	D	E	F	G	H1	WGT
	RF	RTJ	WE									
2X1 1/2	451	454	451	38	44.5	93	250	600	-	-	-	96
2	451	454	451	44.5	44.5	105	270	250	297	300	-	130
3X2	578	584	578	44.5	63.5	105	270	250	297	300	-	175
3	578	584	578	63.5	63.5	127	350	305	340	700	-	260
4X3	673	683	673	63.5	89	127	350	305	340	700	-	340
4	673	683	673	89	89	156	400	360	340	700	-	485
6X4	914	927	914	89	133	156	400	360	340	700	-	790
6	914	927	914	133	133	240	480	430	575	700	-	1410
8X6	1022	1038	1022	133	181	240	480	430	575	700	-	2100
8	1022	1038	1022	181	181	280	530	513	575	700	-	2550
10X8	1270	1292	1270	181	226	280	530	513	575	700	-	2950
10	1270	1292	1270	226	226	365	720	620	590	700	-	3400
12X10	1422	1445	1422	226	267	365	720	620	590	700	-	3980
12	1422	1445	1422	267	267	430	860	740	505	620	-	4600

• Dimensions in mm • All weights in kg and approximate

■ 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

Spec. 6A	Specification for wellhead and christmas tree equipment.
Spec. 6D	Specification for pipeline valves.
Spec. 6FA	Specification for fire testing of valves.
Spec. RP6F	Recommended practice for fire testing of valves.
Spec. 598	Valve inspection and test.
Spec. 605	Large diameter carbon steel flanges.
Spec. 607	Fire test for soft seated quarter-trun valves.

ANSI-American National Standard Institute

B 16.5	Steel pipe flanges and flanged fittings.
B 16.10	Face-to-face and end-to-end dimensions ends of ferrous valves.
B 16.25	Butt welding ends.
B 16.34	Steel valves-flanged and butt welding ends.
B 31.3	Chemical plant and petroleum refinery piping.
B 31.4	Liquid petroleum transportation piping systems.
B 31.8	Gas transmission and distribution piping systems.
B 46.1	Surface texture.

ASME-American Society of Mechanical Engineers

ASTM-American Society for Testing Materials

ISO-International Standard Organization

ISO 9001	Quality system-Model for quality assurance in design/development, production, installation and servicing.
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BSI-British Standard Institute

BS 1503	Specification for steel forgings for pressure purposes.
BS 1504	Specification for steel castings for pressure purposes.
BS 1560	Steel pipe flanges and flanged fittings.
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.
BS 4504	Flanges and boltings for pipes valves and fittings.
BS 5146	Inspection and test of steel valves for the petroleum petrochemical and allied industries.
BS 5351	Steel ball valves for the petroleum, petrochemical and allied industries.
BS 5750	Quality system.
BS 6755	testing of valves.

MSS-Manufactures Standardization Society

SP 6	Standard finishes for contact faces of pipe flanges and connecting-end flanges and unions.
SP 25	standard marking system for valves, fittings flanges and unions.
SP 44	steel pipe line flanges.
SP 45	By-pass and drain connection standard.
SP 55	Quality standard for steel castings visual method.
SP 61	Hydrostatic testing of steel-valves.
SP 72	Ball valves with flanged or butt-welding general service.

NACE-National Association of Corrosion Engineers

MR0175	Sulfide stress cracking resistant metallic materials for oil field equipment.
MR0103	standard material requirements.

How To Specify KPC Ball Valves

①- ①- ②- ③- ④- ⑤- ⑥- ⑦- ⑧- ⑨-
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① VALVE MODEL	
CODE	DESCRIPTION
2FC	2PC FLOATING
3TC	3PCS TRUNNION SIDE ENTRY CASTING
2TC	2PC TRUNNION CASTING
WTC	WEDGE SEAL TOP ENTRY CASTING
WSC	WEDGE SEAL SIDE ENTRY CASTING
TTC	TOP ENTRY TRUNNION CASTING
2FF	2PCS FLOATING FORGING
3FF	3PCS FLOATING FORGING
2TF	2PCS TRUNNION FORGING
3TF	3PCS TRUNNION FORGING

② SIZE			
CODE	SIZE	CODE	SIZE
OA	1/4	20	20"
OB	1/2	22	22"
OC	3/4	24	24"
01	1"	26	26"
1A	1 1/4	28	28"
1B	1 1/2	30	30"
02	2"	32	32"
2B	2 1/2	34	34"
03	3"	36	36"
04	4"	40	40"
05	5"	42	42"
06	6"	44	44"
08	8"	46	46"
10	10"	48	48"
12	12"	54	54"
14	14"	56	56"
16	16"	60	60"
18	18"	-	-

③ ANSI CLASS & PORT	
CODE	CLASS
1	150# FB
2	150# RB
3	300# FB
4	300# RB
5	600# FB
6	600# RB
7	900# FB
8	900# RB
9	1500# FB
0	1500# RB
A	2500# FB
B	2500# RB
C	4500# FB

④ BODY MATERIAL	
CODE	CLASS
1	CARBON STEEL(HIGH TEMP)
2	CARBON STEEL(LOW TEMP)
3	STAINLESS STEEL
4	DUPLEX STAINLESS STEEL
5	SUPER DUPLEX S/S
6	TITANIUM
7	MONEL
8	HASTELLOY

⑤ TRIM MATERIAL	
CODE	CLASS
1	CF8(F304)
2	CF8M(F316)
3	CA15(F410)
4	DUPLEX STAINLESS STEEL
5	SUPER DUPLEX S/S
6	TITANIUM
7	MONEL
8	HASTELLOY

⑥ SEAT MATERIAL	
CODE	CLASS
1	PTFE
2	GLASS FIELD PTFE
3	CARBON FIELD PTFE
4	PCTFE
5	PEEK
6	DEVLOX
7	METAL SEAT
8	SPECIAL

⑦ END CONFIGURATION	
CODE	CLASS
1	FLAT FACE
2	RAISED FACE
3	RING JOINT
4	BUTT WELD
5	SOCKET WELD
6	SCREWED
7	SPECIAL

⑧ OPERATING	
CODE	CLASS
0	BARE STEM
1	WRENCH HANDLE
2	ENCLOSED GEAR
3	PNEUMATIC
4	ELECTRIC MOTOR
5	HYDRAULIC
6	OVER HANDLE
X	SPECIAL

⑨ OPTIONAL FEATURES	
CODE	CLASS
1	STANDARD
2	NACE MR 0175
3	EXTENDED BONNET
4	CRYOGENIC SERVICE
5	LOW TEMPERATURE SERVICE
6	INCONEL 625 OVERLAY FOR WET PART
7	INCONEL 625 OVERLAY FOR TRIM PART
8	DOUBLE PISTON EFFECT
9	DOUBLE BLOCK AND BLEED
0	CLEANING SERVICE
A	VOC PACKING

Quality Management

In addition to its own highly strict company quality standards, KPC is ISO 9001 certified and has a manufacturing ability to comply with ASME, DIN, API, and other internationally recognized standards.

KPC ensures that each valve fulfills all engineering specifications, including the most demanding applications. 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.

