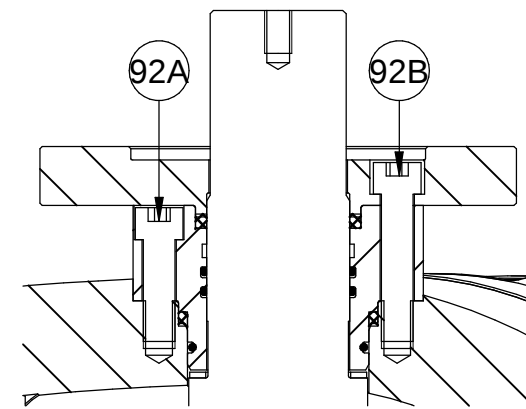
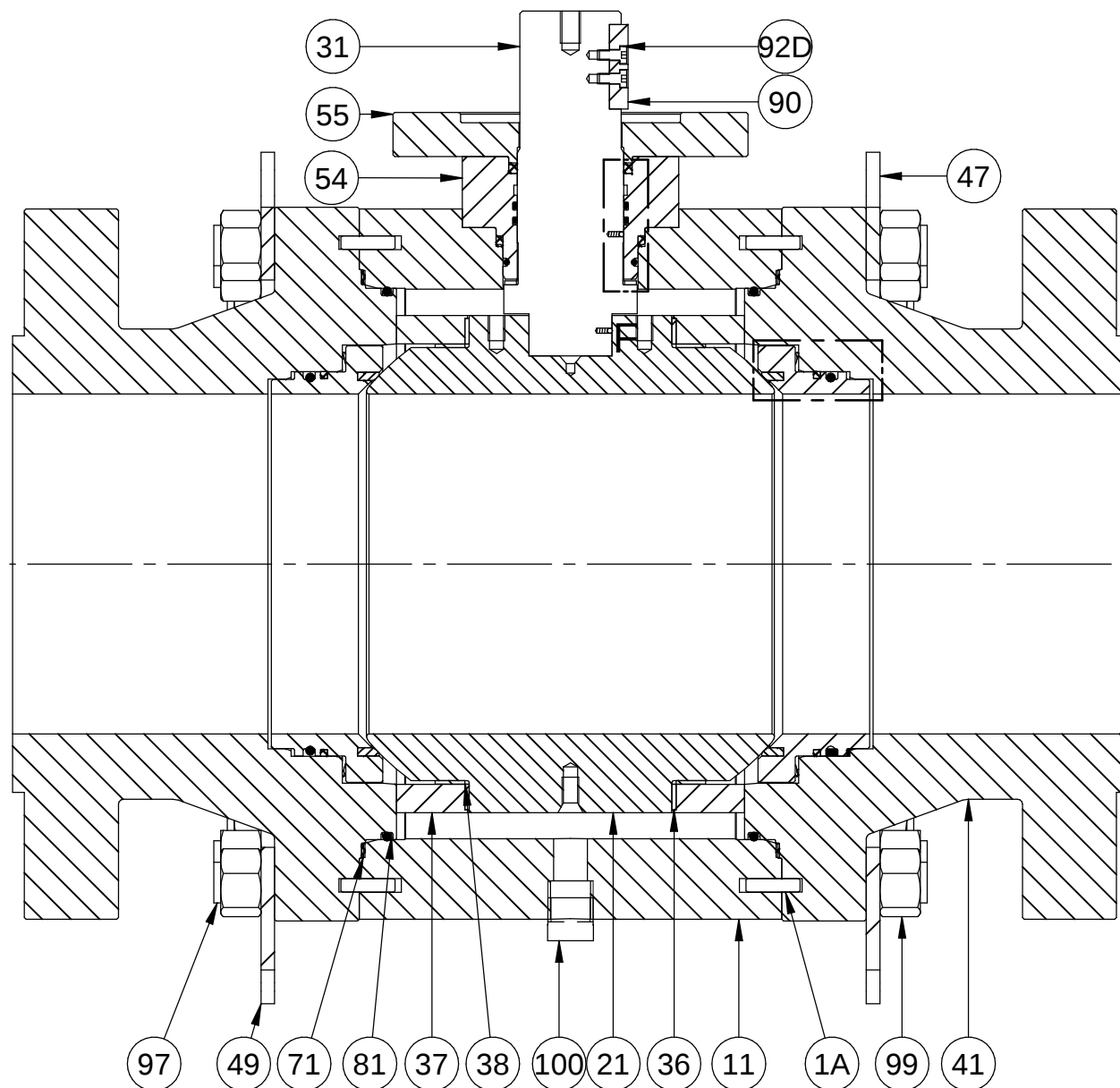
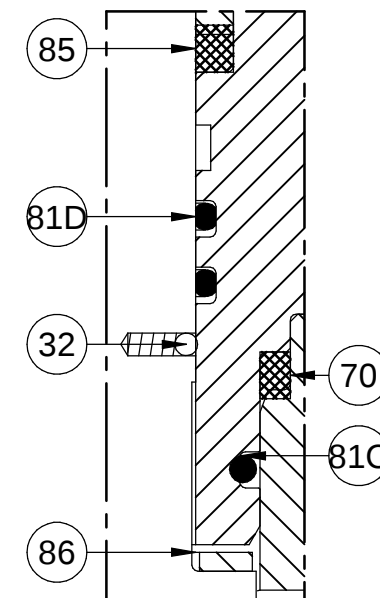
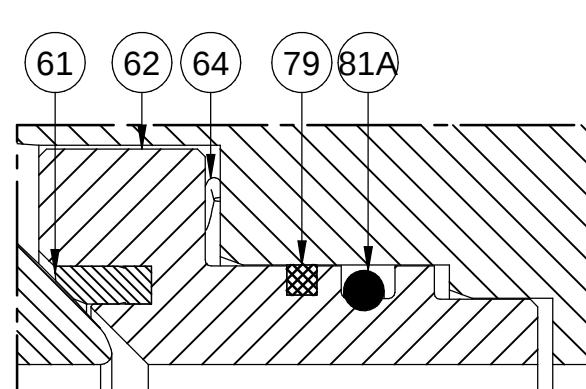
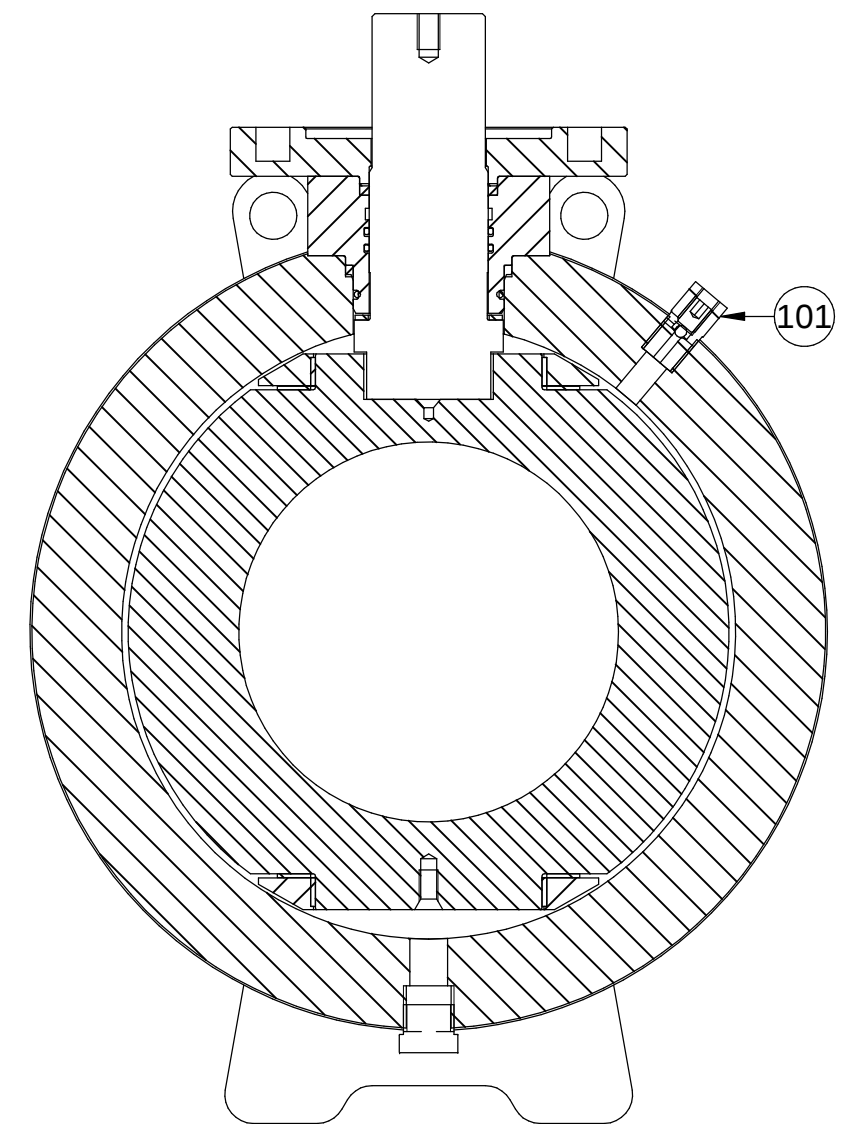




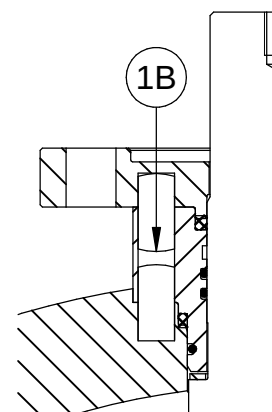
Top bolting Detail



Stem Detail



Seat Detail



Pin bonnet Detail

00	General Drawing	C.Curval	T.Paradinas	19-03-2012
Rev.	Descripción / Description	Dibujado / Drawn	Aprobado / Approved	Fecha / Date
 BAC bac valves Tapis, 126 - P.O. Box, 13 - 17600 FIGUERES (Girona) Spain Tel.: (34) 972 67 70 52 - Fax: (34) 972 50 90 40 E-mail: bac@bacvalves.com - web: www.bacvalves.com				
Título / Title Trunnion ball valve side-entry TSB type O-ring configuration General drawing		Dibujado / Drawn Celeste Curval		Escala / Scale -:-
		Aprobado / Approved Tomas Paradinas		Fecha / Date 19-03-2012
		Plano nº / Drawing nr. DW-TSB-ANSI-000		Rev. 0

101	VENT	1	ASTMA105N	ASTM A350 LF2	ASTM A479 316	
100	DRAIN PLUG	1	ASTMA105N	ASTM A350 LF2	ASTM A479 316	
99	NUT	-	ASTM A194 2HM	ASTM A194 7M	ASTM A194 B8M	
97	STUD BOLT	-	ASTMA193 B7M	ASTM A320 L7M	ASTM A193 B8M	
92D	STEM KEY BOLT	-	ASTM F738M A4-70	ASTM F738M A4-70	ASTM F738M A4-70	
92B	TOP FLANGE BOLT	4	ASTMA193 B7M	ASTM A320 L7M	ASTM A193 B8M	
92A	BONNET BOLT	4	ASTMA193 B7M	ASTM A320 L7M	ASTM A193 B8M	
90	STEM KEY	1	ASTM F738M A4-70	ASTM F738M A4-70	ASTM F738M A4-70	
86	AXIAL BEARING	1	PTFE	PTFE	PTFE	✓
85	STEM SEAL	1	GRAPHITE	GRAPHITE	GRAPHITE	✓
84	IDENTIF. PLATE	1	316	316	316	
81D	STEM O-RING	2	FKM	FKM/HNBR	FKM/HNBR	✓
81C	BONNET O-RING	1	FKM	FKM/HNBR	FKM/HNBR	✓
81A	SEAT O-RING	2	FKM	FKM/HNBR	FKM/HNBR	✓
81	BODY O-RING	2	FKM	FKM/HNBR	FKM/HNBR	✓
79	FIRE SAFE SEAT SEAL	2	GRAPHITE	GRAPHITE	GRAPHITE	
71	FIRESAFE BODY SEAL	2	GRAPHITE + 316	GRAPHITE + 316	GRAPHITE + 316	✓
70	BONNET SEAL	1	GRAPHITE	GRAPHITE	GRAPHITE	✓
64	SPRING	-	ASTM B637 UNS N00718	ASTM B637 UNS N00718	ASTM B637 UNS N00718	
62	HOUSING SEAT RING	2	ASTM A276 TYPE 316	ASTM A276 TYPE 316	ASTM A276 TYPE 316	
61	SEAT INSERT	2	FILLED PTFE/DEVLON/PEEK	FILLED PTFE/DEVLON/PEEK	FILLED PTFE/DEVLON/PEEK	
55	TOP FLANGE	1	ASTMA105N	ASTM A350 LF2	ASTM A479 316	
54	BONNET	1	ASTMA105N	ASTM A350 LF2	ASTM A479 316	
49	SUPPORTS	2	CARBON STEEL	CARBON STEEL	STAINLESS STEEL	
47	LIFTING LUGS	2	CARBON STEEL	CARBON STEEL	STAINLESS STEEL	
41	BODY CONNECTOR	2	ASTM A216 WCC	ASTM A352 LCC	ASTM A351 CF8M	
			ASTM A105N	ASTM A350 LF2	ASTM A182 F316	
38	PLAIN BUSHING	2	316/RF.PTFE	316/RF.PTFE	316/RF.PTFE	
37	BALL SUPPORT	2	EN 10025 S275J2G3	ASTM A516 Gr.70	ASTM A240 316	
36	TRUNNION BEARING	2	316/RF.PTFE	316/RF.PTFE	316/RF.PTFE	
32	ANTISTATIC	2	ASTM A479 316	ASTM A479 316	ASTM A479 316	
31	STEM	1	ASTM A479 316	ASTM A479 316	ASTM A479 316	
21	BALL	1	ASTM A351 CF8M	ASTM A351 CF8M	ASTM A351 CF8M	
			ASTM A182 F316	ASTM A182 F316	ASTM A182 F316	
11	BODY	1	ASTM A216 WCC	ASTM A352 LCC	ASTM A351 CF8M	
			ASTMA105N	ASTM A350 LF2	ASTM A182 F316	
1B	BONNET PIN	4	ASTM F738M A4-70	ASTM F738M A4-70	ASTM F738M A4-70	
1A	SUPPORT/GUIDE PIN	12	ASTM F738M A4-70	ASTM F738M A4-70	ASTM F738M A4-70	
POS.	DENOMINATION	QTY.	MATERIAL (Carbon Steel version)	MATERIAL (Low Carbon Steel version)	MATERIAL (Stainless Steel version)	SPARE PARTS

Other materials under request

STANDARDS

DESIGN

FACE TO FACE

FLANGED / ENDS **

FIRE SAFE

ANTI-STATIC

TOP FLANGE

INT. WETTED PARTS

ISO 14313 / API 6D

ASME B16.10 LONG PATTERN

ASME B16.5 RF

ASME B16.5 RTJ

ASME B16.25 BW

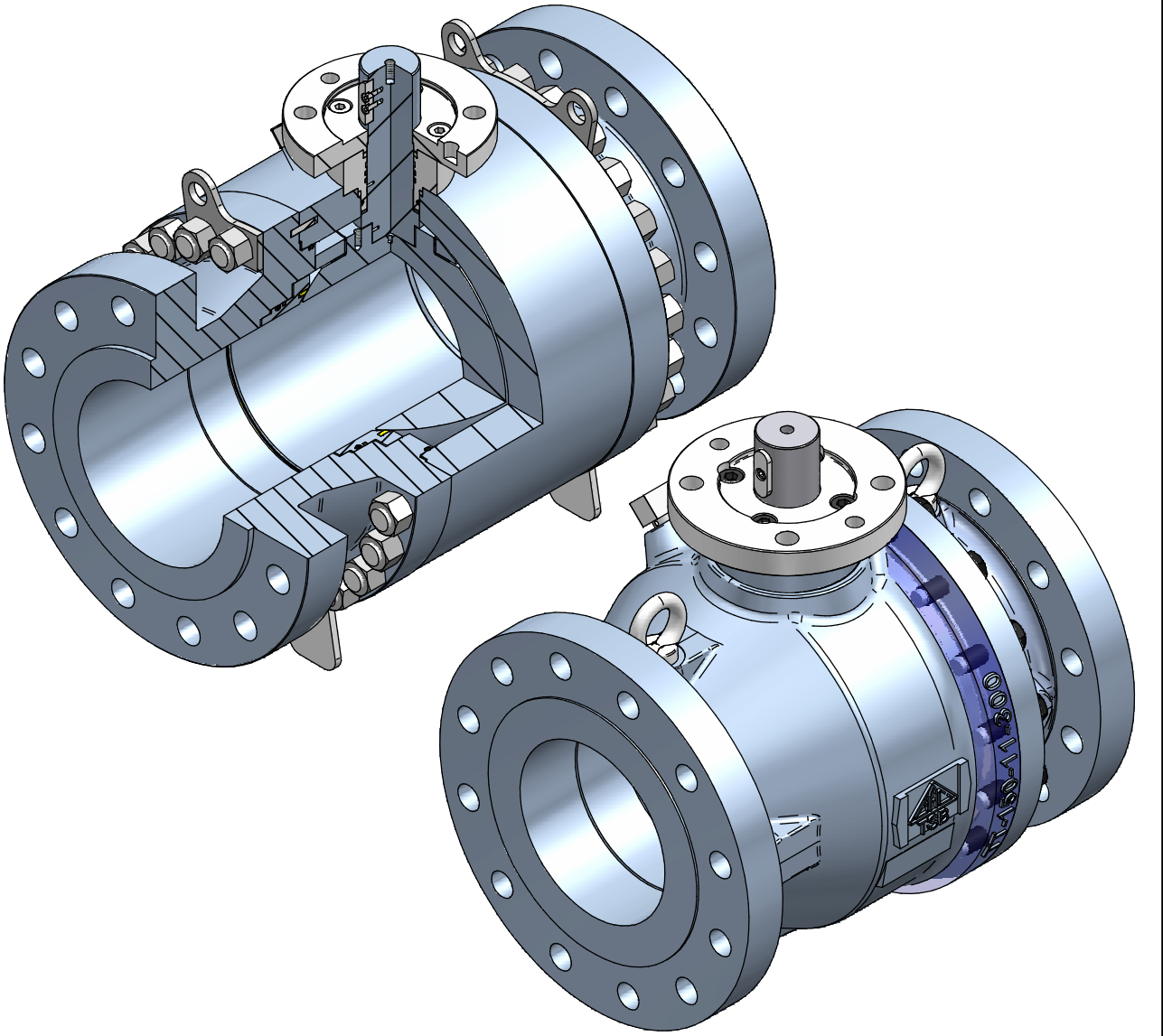
ISO 10497, API 607 5ed

ISO 14313 / API 6D

ISO 5211

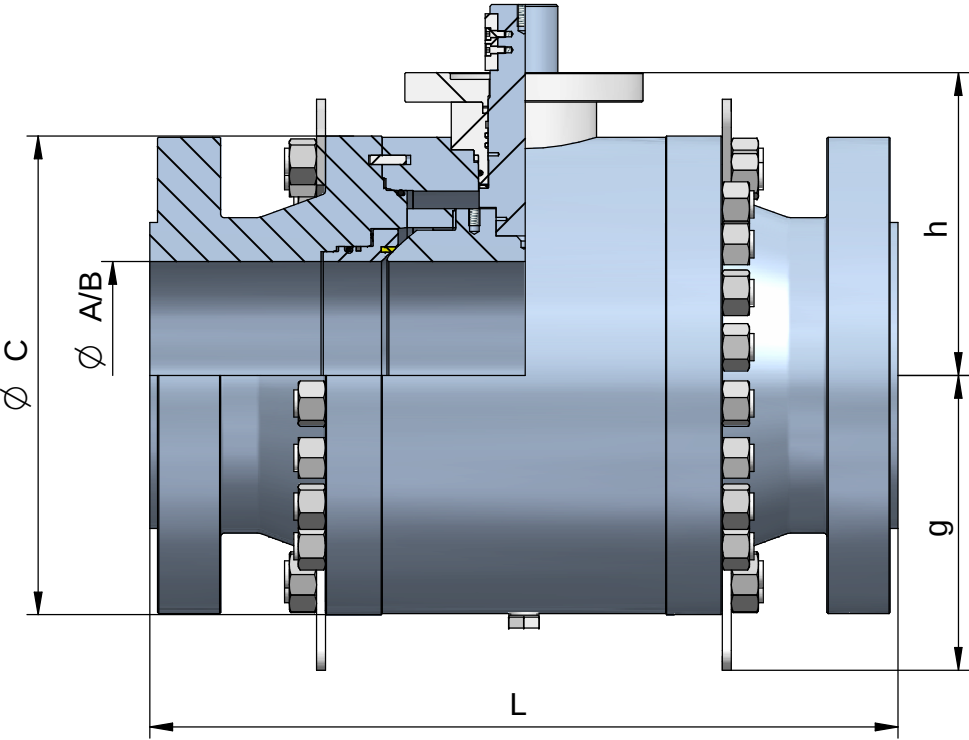
NACE MR0175

** Other end types under request



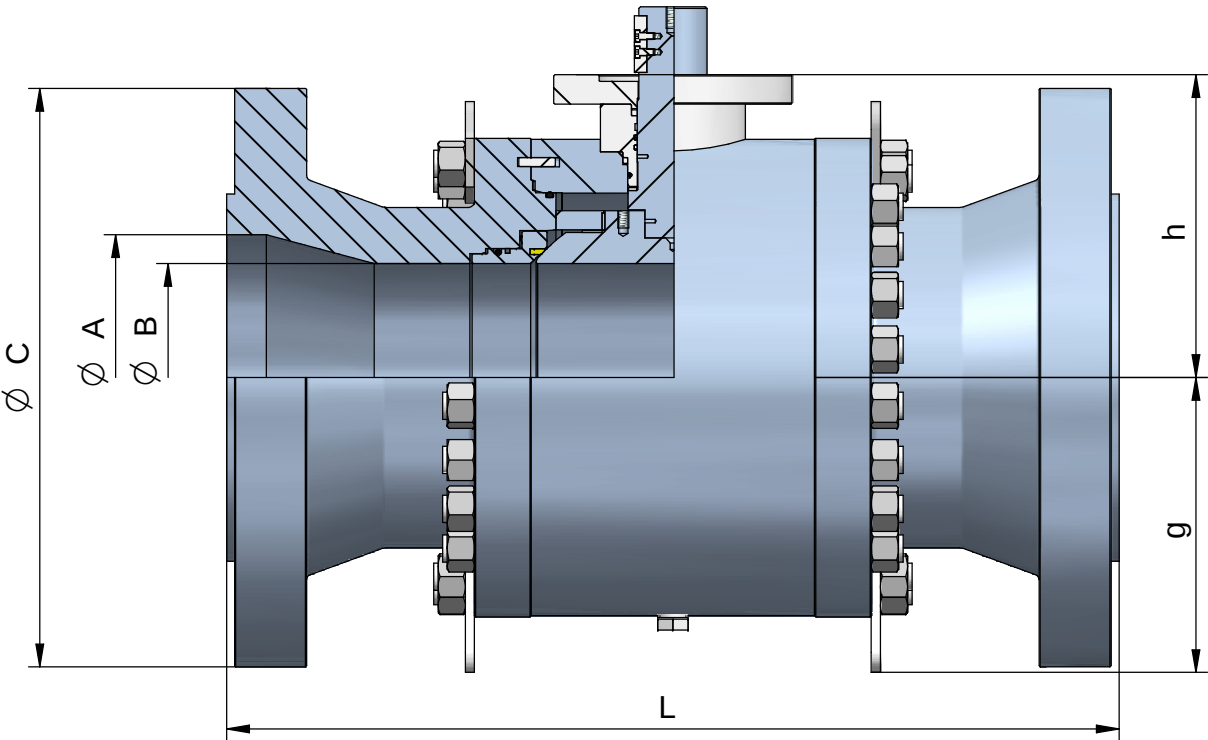
00	General Drawing	C.Curval	T.Paradinas	19-03-2012
Rev.	Descripción / Description	Dibujado / Drawn	Aprobado / Approved	Fecha / Date
 BAC bac valves Tapis, 126 - P.O. Box, 13 - 17600 FIGUERES (Girona) Spain Tel.: (34) 972 67 70 52 - Fax: (34) 972 50 90 40 E-mail: bac@bacvalves.com - web: www.bacvalves.com				
Titulo / Title		Dibujado / Drawn		Escala / Scale
		Celeste Curval		-:-
		Aprobado / Approved		Fecha / Date
Trunnion ball valve side-entry TSB type		Tomas Paradinas		19-03-2012
		Plano nº / Drawing nr.		Rev.
O-ring configuration General drawing		DW-TSB-ANSI-000		0

NPS (in/mm)	CLASS	ØA	ØB	C	L-RF	L-RTJ	L-WE	g	h	ISO 5211	WEIGHT
		mm									Kg
6" 150	150	150	150	324	394	406	457	-	206	F12	146
	300	150	150	324	403	419	457	-	213	F14	170
	600	150	150	355	559	562	559	220	213	F14	269
	900	150	150	380	610	613	610	260	230	F16	317
	1500	144	144	396	705	711	705	279	255	F16	487
	2500	131	131	485	914	927	914	301	269	F25	852
8" 200	150	201	201	405	457	470	521	250	250	F14	260
	300	201	201	411	502	518	521	-	250	F14	315
	600	201	201	422	660	664	660	260	267	F16	433
	900	201	201	470	737	740	737	315	293	F25	653
	1500	192	192	505	832	841	832	323	322	F25	830
	2500	179	179	600	1022	1038	1022	380	370	F35	1647
10" 250	150	252	252	480	533	546	559	310	286	F14	397
	300	252	252	495	568	584	559	328	303	F16	498
	600	252	252	533	787	791	787	450	329	F25	798
	900	252	252	562	838	841	838	353	347	F30	1026
	1500	239	239	630	991	1000	991	396	384	F30	1605
12" 300	150	303	303	656	610	622	635	350	336	F16	623
	300	303	303	595	648	664	635	383	362	F25	801
	600	303	303	615	838	841	838	400	376	F30	1169
	900	303	303	620	965	968	965	450	376	F30	1410
	1500	287	287	710	1130	1146	1130	500	427	F30	2290
14" 350	150	334	334	615	686	699	762	405	358	F16	844
	300	334	334	640	762	778	762	425	384	F25	1083
	600	334	334	670	889	892	889	440	398	F30	1419
	900	322	322	685	1029	1038	1029	490	398	F30	1836
16" 400	150	358	358	706	762	775	838	397	420	F25	1230
	300	385	385	725	838	854	838	427,7	434	F30	1537
	600	385	385	745	991	994	991	480	434	F30	1956
	900	373	373	790	1130	1140	1130	490,3	469	F35	2627
18" 450	150	436	436	785	864	876	914	499	460	F25	1657
	300	436	436	810	914	1095	914	540	474	F30	2037
	600	436	436	929	1092	981	1092	540	508	F35	2723
	900	423	423	915	1219	1232	1219	550	531	F35	3644,5
20" 500	150	487	487	870	914	927	991	600	531	F30	2177
	300	487	487	892	991	1010	991	600	531	F30	2595
	600	487	487	1058	1194	1200	1194	650	560	F40	3557
22" 550	300	538	538	987	1092	1114	1092	600	579	F35	3406
	600	538	538	1015	1295	1305	1295	650	619	F48	4404
24" 600	150	589	589	1030	1067	1080	1143	700	580	F30	3463
	300	589	589	1060	1143	1165	1143	700	615	F35	4150
	600	589	589	1100	1397	1407	1397	720	651	F48	5537



00	General Drawing	C.Curval	T.Paradinas	19-03-2012
Rev.	Descripción / Description	Dibujado / Drawn	Aprobado / Approved	Fecha / Date
 BAC bac valves Tapis, 126 - P.O. Box, 13 - 17600 FIGUERES (Girona) Spain Tel.: (34) 972 67 70 52 - Fax: (34) 972 50 90 40 E-mail: bac@bacvalves.com - web: www.bacvalves.com				
Titulo / Title Trunnion ball valve side-entry TSB type General drawing Dimensions		Dibujado / Drawn		Escala / Scale
		Celeste Curval		-:-
		Aprobado / Approved		Fecha / Date
		Tomas Paradinas		19-03-2012
		Plano nº / Drawing nr.		
		DW-TSB-ANSI-000		
		Rev.		0

NPS (in/mm)	CLASS	ØA	ØB	C	L-RF	L-RTJ	L-WE	g	h	ISO 5211	WEIGHT
		mm									Kg
8" x 6" 200 x 150	150	201	150	435,2	457	470	521	-	206	F12	169
	300	201	150	466,2	502	518	521	-	213	F14	215
	600	201	150	420	660	664	660	220	213	F14	320
	900	201	150	470	737	740	737	260	230	F16	417
	1500	192	144	485	832	841	832	279	255	F25	604
	2500	179	131	550	1022	1038	1022	301	269	F25	950
10" x 8" 250 x 200	150	252	201	496	533	546	559	250	250	F14	287
	300	252	201	445	568	584	559	283	250	F14	353
	600	252	201	510	787	791	787	260	267	F16	540
	900	252	201	545	838	841	838	315	293	F25	759
	1500	239	192	585	991	1000	991	323	315	F30	1046
	2500	223	179	625	1270	1292	1270	380	394	F35	2153
12" x 10" 300 x 250	150	303	252	485	610	622	635	310	286	F14	464
	300	303	252	520	648	664	635	328	303	F16	573
	600	303	252	560	838	841	838	340	329	F25	859
	900	303	252	610	965	968	965	353	347	F30	1158
	1500	287	239	675	1130	1146	1130	395	384	F35	1864
14" x 12" 350 x 300	150	334	303	565	686	699	762	350	336	F16	682
	300	334	303	595	762	778	762	383	362	F25	920
	600	334	303	615	889	892	889	400	376	F30	1246
	900	322	303	640	1029	1038	1029	450	376	F30	1534
	1500	315	287	750	1257	1276	1257	500	427	F35	2527
16" x 12" 400 x 300	150	385	303	595	762	775	838	350	336	F16	774
	300	385	303	650	838	854	838	383	362	F25	1036
	600	385	303	685	991	994	991	400	376	F30	1423
	900	373	303	705	1130	1140	1130	450	376	F30	1664
	1500	360	287	825	1384	1407	1384	500	427	F35	2857
20" x 16" 500 x 400	150	487	385	706	914	927	991	450	420	F25	1384
	300	487	385	775	991	1010	991	450	434	F30	1793
	600	487	385	830	1194	1200	1194	520	434	F30	2314
	900	471	373	853	1321	1334	1321	491	469	F35	3067
24" x 20" 600 x 500	150	589	487	870	1067	1080	1143	600	503	F30	2418
	300	589	487	915	1143	1165	1143	600	503	F30	3011
	600	589	487	940	1397	1407	1397	650	578	F40	4079



00	General Drawing	C.Curval	T.Paradinas	19-03-2012
Rev.	Descripción / Description	Dibujado / Drawn	Aprobado / Approved	Fecha / Date
 BAC bac valves Tapis, 126 - P.O. Box, 13 - 17600 FIGUERES (Girona) Spain Tel.: (34) 972 67 70 52 - Fax: (34) 972 50 90 40 E-mail: bac@bacvalves.com - web: www.bacvalves.com				
Titulo / Title Trunnion ball valve side-entry TSB type General drawing Dimensions		Dibujado / Drawn Celeste Curval		Escala / Scale -:-
		Aprobado / Approved Tomas Paradinas		Fecha / Date 19-03-2012
		Plano nº / Drawing nr. DW-TSB-ANSI-000		Rev. 0