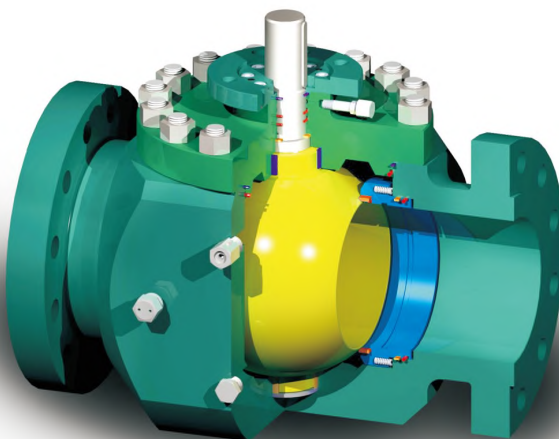


Series TT

Part number: C-TT-1504

Top Entry Forged Trunnion Mounted Ball Valve



Features:

Size: 2"~28"
Class: 150~150C
Top Entry Forged Steel Body
Trunnion Mounted Ball, Full & Reduced Bore
Anti-static Device
Blow-out Proof Stem
Fire Safe Design
Emergency Sealant Injector (6" & Larger)

Specifications

Design	ASME B16.34/API 6D
Face to Face	ASME B16.10/API 6D
End to End	ASME B16.10/API 6D
End Flange	ASME B16.5
BW End	ASME B16.25
Test	API 6D
Fire Safe Test	API 607/API 6FA
Special	NACE MR0175

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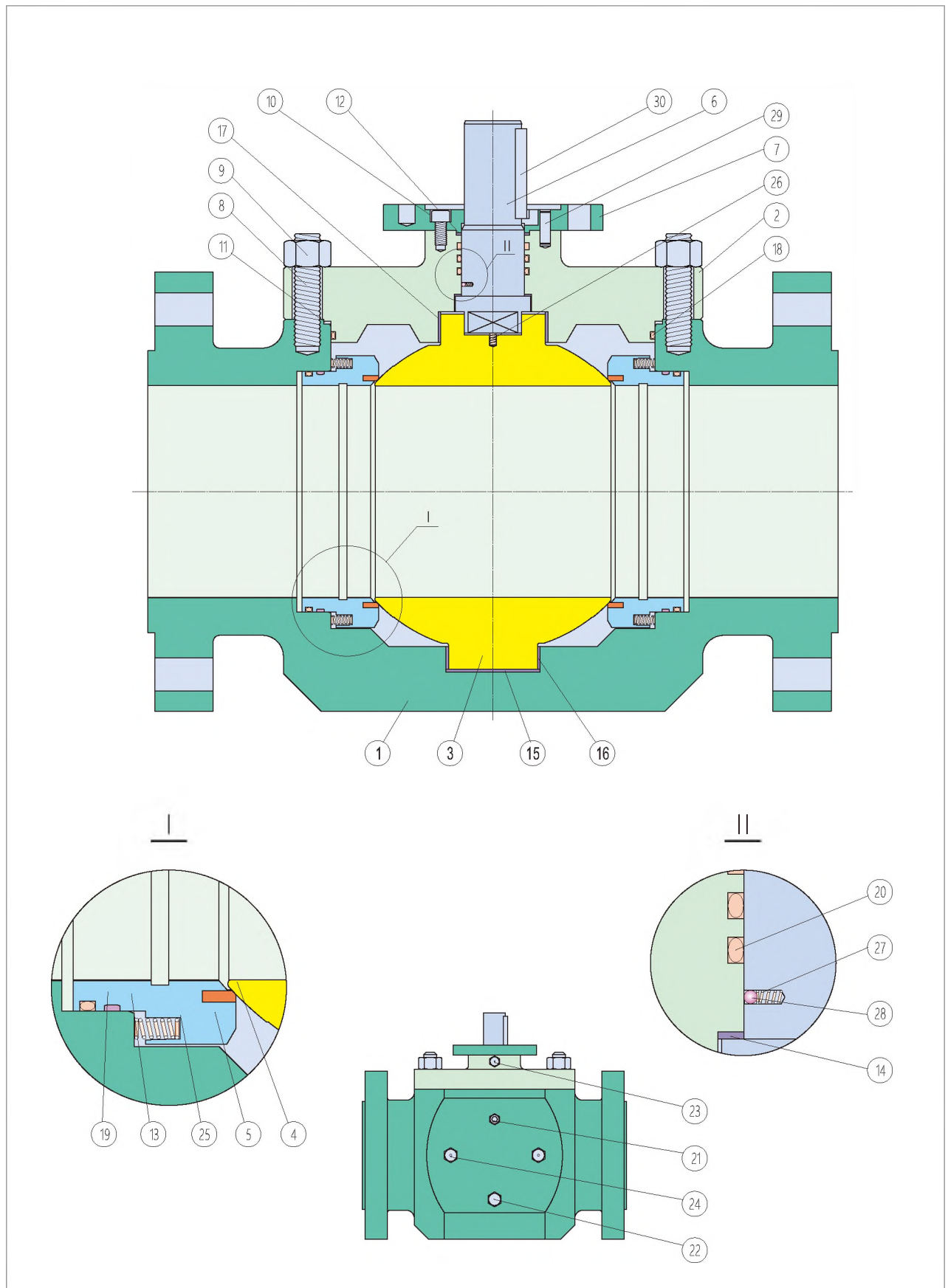
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Series TT

Top Entry Forged Trunnion Mounted Ball Valve

MATERIAL SPECIFICATIONS



Series TT

Top Entry Forged Trunnion Mounted Ball Valve

MATERIAL SPECIFICATIONS

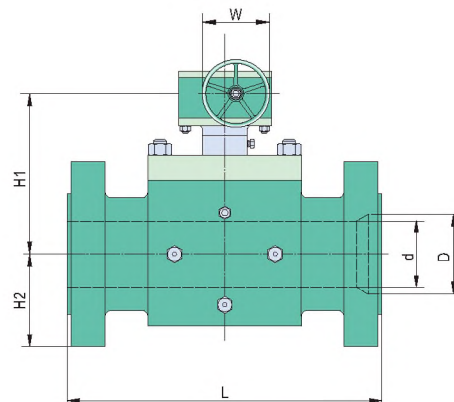
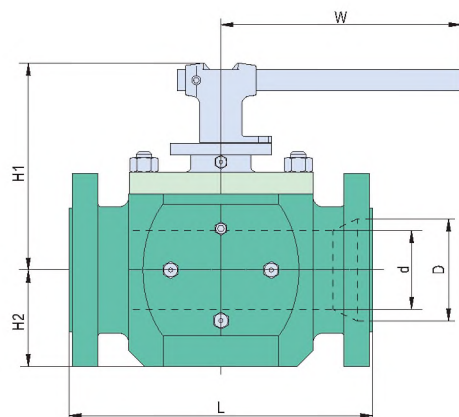
No.	Part	A105/ENP	A105/316	F316/316	LF2/316 NACE
1	Body	ASTM A105N	ASTM A105N	ASTM A182-F316	ASTM A350-LF2
2	Cover	ASTM A105N	ASTM A105N	ASTM A182-F316	ASTM A350-LF2
3	Ball	ASTM A105N/ENP	ASTM A182-F316	ASTM A182-F316	ASTM A182-F316
4	Seat Insert	PTFE/Nylon/PEEK	PTFE/Nylon/PEEK	PTFE/Nylon/PEEK	PTFE/Nylon/PEEK
5	Seat Ring	ASTM A105N/ENP	ASTM A182-F316	ASTM A182-F316	ASTM A182-F316
6	Stem	AISI 4140/ENP	ASTM A182-F51	ASTM A182-F51	ASTM A182-F51
7	Top Flange	ASTM A105N	ASTM A105N	ASTM A182-F316	ASTM A350-LF2
8	Body Stud	ASTM A193-B7	ASTM A193-B7	ASTM A193-B8	ASTM A320-L7M
9	Body Nut	ASTM A194-2H	ASTM A194-2H	ASTM A194-8	ASTM A194-7M
10	Screw	Carbon Steel	Carbon Steel	Stainless Steel	ASTM A320-L7M
11	* Body Gasket	Graphite	Graphite	Graphite	Graphite
12	* Stem Firesafe packing	Graphite	Graphite	Graphite	Graphite
13	* Seat Firesafe Packing	Carbon Fibre+Graphite	Carbon Fibre+Graphite	Carbon Fibre+Graphite	Carbon Fibre+Graphite
14	Thrust Washer	PTFE/316SS+PTFE+MoS2	PTFE/316SS+PTFE+MoS2	PTFE/316SS+PTFE+MoS2	PTFE/316SS+PTFE+MoS2
15	Washer	PTFE/316SS+PTFE+MoS2	PTFE/316SS+PTFE+MoS2	PTFE/316SS+PTFE+MoS2	PTFE/316SS+PTFE+MoS2
16	Bearing	316SS+PTFE+MoS2	316SS+PTFE+MoS2	316SS+PTFE+MoS2	316SS+PTFE+MoS2
17	Bearing	316SS+PTFE+MoS2	316SS+PTFE+MoS2	316SS+PTFE+MoS2	316SS+PTFE+MoS2
18	* O-ring	Viton	Viton	Viton	Viton
19	* O-ring	Viton	Viton	Viton	Viton
20	* O-ring	Viton	Viton	Viton	Viton
21	Vent Valve	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
22	Drain	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
23	Stem Injection	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
24	Seat Injection	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
25	Seat Spring	Inconel X-750	Inconel X-750	Inconel X-750	Inconel X-750
26	Antistatic Spring	Inconel X-750	Inconel X-750	Inconel X-750	Inconel X-750
27	Antistatic Spring	Inconel X-750	Inconel X-750	Inconel X-750	Inconel X-750
28	Grounding Plunger	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
29	Gland Pin	Carbon Steel	Carbon Steel	Stainless Steel	Stainless Steel
30	Key	Carbon Steel	Carbon Steel	Stainless Steel	Carbon Steel

* Recommended Spare Parts

Series TT

Top Entry Forged Trunnion Mounted Ball Valve

DIMENSIONS AND WEIGHT



Full Bore Class 150

Size in	d mm	L mm	H1 mm	H2 mm	W mm	Weight Kg
2	51	292	210	83	350	46
3	76	356	225	110	400	83
4	102	432	260	143	450	156
6	152	559	295	217	*305	256
8	203	660	322	264	*406	453
10	254	787	357	313	*406	622
12	305	838	405	372	*406	747
14	337	889	455	430	*406	959
16	387	991	470	452	*600	1220
18	438	1092	500	470	*600	1640
20	489	1194	555	583	*600	2118
24	591	1397	600	594	*700	2950

* Gear Operation

Reduce Bore Class 150

Size in	d mm	D mm	L mm	H1 mm	H2 mm	W mm	Weight Kg
2*1-1/2	38	51	292	180	78	250	41
3*2	51	76	356	210	83	350	58
4*3	76	102	432	225	110	400	104
6*4	102	152	559	260	143	450	228
8*6	152	203	660	295	217	*305	320
10*8	203	254	787	322	264	*406	536
12*10	254	305	838	357	313	*406	685
14*10	254	337	889	357	313	*406	740
14*12	305	337	889	405	372	*406	840
16*12	305	387	991	405	372	*406	924
16*14	337	387	991	455	430	*406	1070
18*14	337	438	1092	455	430	*406	1177
18*16	387	438	1092	463	452	*600	1430
20*16	387	489	1194	463	452	*600	1681
20*18	438	489	1194	500	470	*600	1850
24*20	489	591	1397	555	583	*600	2450

Full Bore Class 300

Size in	d mm	L mm	H1 mm	H2 mm	W mm	Weight Kg
2	51	292	210	83	400	49
3	76	356	225	110	450	87
4	102	432	260	143	500	164
6	152	559	295	217	*305	272
8	203	660	330	264	*406	479
10	254	787	365	313	*406	657
12	305	838	415	400	*500	783
14	337	889	460	430	*600	1007
16	387	991	480	452	*600	1281
18	438	1092	523	470	*600	1722
20	489	1194	585	583	*600	2224
24	591	1397	635	594	*760	3100

* Gear Operation

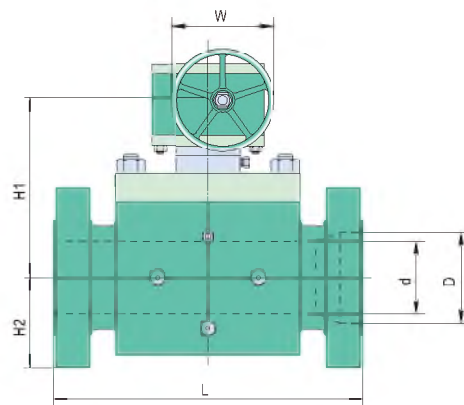
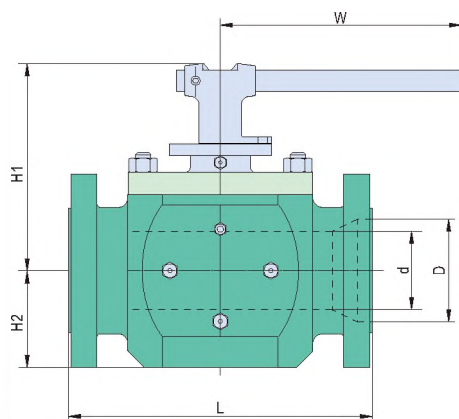
Reduce Bore Class 300

Size in	d mm	D mm	L mm	H1 mm	H2 mm	W mm	Weight Kg
2*1-1/2	38	51	292	180	78	250	44
3*2	51	76	356	210	83	400	62
4*3	76	102	432	225	110	450	110
6*4	102	152	559	260	143	500	243
8*6	152	203	660	295	217	*305	343
10*8	203	254	787	330	264	*406	559
12*10	254	305	838	365	313	*406	725
14*10	254	337	889	365	313	*406	798
14*12	305	337	889	415	400	*500	890
16*12	305	387	991	415	400	*500	1052
16*14	337	387	991	460	430	*600	1120
18*14	337	438	1092	460	430	*600	1288
18*16	387	438	1092	480	452	*600	1480
20*16	387	489	1194	480	452	*600	1728
20*18	438	489	1194	523	470	*600	1960
24*20	489	591	1397	585	583	*600	2650

Series TT

Top Entry Forged Trunnion Mounted Ball Valve

DIMENSIONS AND WEIGHT



Full Bore						Class 600	
Size in	d mm	L mm	H1 mm	H2 mm	W mm	Weight Kg	
2	51	292	210	83	400	52	
3	76	356	225	110	500	92	
4	102	432	260	143	700	173	
6	152	559	295	217	*406	285	
8	203	660	330	264	*406	504	
10	254	787	370	313	*600	680	
12	305	838	425	400	*600	819	

* Gear Operation

Reduce Bore						Class 600	
Size in	d mm	D mm	L mm	H1 mm	H2 mm	W mm	Weight Kg
2*1-1/2	38	51	292	180	78	350	46
3*2	51	76	356	210	83	400	74
4*3	76	102	432	225	110	500	120
6*4	102	152	559	260	143	700	249
8*6	152	203	660	295	217	*406	380
10*8	203	254	787	330	264	*406	587
12*10	254	305	838	370	313	*600	752

Full Bore						Class 900	
Size in	d mm	L mm	H1 mm	H2 mm	W mm	Weight Kg	
2	51	368	210	83	450	60	
3	76	381	225	110	600	100	
4	102	457	260	143	*305	204	
6	152	610	295	225	*406	420	
8	203	737	335	270	*600	644	
10	254	838	377	320	*600	943	
12	305	965	510	415	*600	1295	

* Gear Operation

Reduce Bore						Class 900	
Size in	d mm	D mm	L mm	H1 mm	H2 mm	W mm	Weight Kg
2*1-1/2	38	51	368	180	78	400	54
3*2	51	76	381	210	83	450	80
4*3	76	102	457	225	110	600	148
6*4	102	152	610	260	143	*305	305
8*6	152	203	737	295	225	*406	552
10*8	203	254	838	335	270	*600	748
12*10	254	305	965	377	320	*600	1048

Full Bore						Class 1500	
Size in	d mm	L mm	H1 mm	H2 mm	W mm	Weight Kg	
2	51	368	210	83	450	69	
3	76	470	235	120	700	133	
4	102	546	290	153	*406	256	
6	146	705	300	235	*600	667	
8	194	832	350	282	*600	865	
10	241	991	400	335	*600	1375	
12	289	1130	525	425	*600	2175	

* Gear Operation

Reduce Bore						Class 1500	
Size in	d mm	D mm	L mm	H1 mm	H2 mm	W mm	Weight Kg
2*1-1/2	38	51	368	180	78	400	63
3*2	51	76	470	235	120	450	95
4*3	76	102	546	290	153	700	183
6*4	102	146	705	300	235	*406	359
8*6	146	194	832	350	282	*600	794
10*8	194	241	991	400	335	*600	1070
12*10	241	289	1130	525	425	*600	1541

Flow Control Expert

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