



## VALVE TEST CERTIFICATE / CERTIFICATE OF CONFORMANCE

EF

Certificate No. : 120297-3

PAGE: 1 OF 4

### VALVE INFORMATION

<b>S.O.#/P.O.#</b>	13300 / P423517	<b>S.O. ITEM #</b>	390
<b>VALVE TYPE</b>	TRUNNION BALL VALVE	<b>MODEL NUMBER</b>	EB10R033TA02E3BG31
<b>SIZE</b>	10"×8"	<b>SERIAL NUMBER</b>	12029703 01 TO 01
<b>CLASS</b>	300	<b>QUANTITY</b>	1

### VALVE DETAIL

<b>BODY/ADAPTER</b>	ASTM A350 LF2	<b>BALL</b>	ASTM A350 LF2+ENP
<b>STEM</b>	ASTM A350 LF2+ENP	<b>TRUNNION</b>	ASTM A350 LF2+ENP
<b>SEAT INSERT</b>	RPTFE	<b>SEAT</b>	ASTM A350 LF2+ENP
<b>SEALS</b>	GRAPHITE	<b>O-RINGS</b>	HNBR
<b>BOLTS</b>	A320 L7M	<b>NUTS</b>	A194 7M

### VALVE DESIGN CODE

<b>DESIGN CODE:</b>	<u>ASME B16.34</u>	YES	<b>DESIGN CODE:</b>	<u>ASME B16.5</u>	YES
	<u>API 6D / ISO 14313</u>	YES		<u>API 607 Rev 5</u>	YES
	<u>ASME B16.10</u>	YES		<u>CSA Z662 Region 3</u>	YES
	<u>API 608</u>	YES			
	<u>CSA Z245.15</u>	YES		<u>NACE MR0175/ISO 15156</u>	YES

### VALVE TEST RESULTS

TEST PERFORMED	CODE	HYDRO SHELL	HYDRO SEAT	AIR SEAT	BACK SEAT	
<b>PRESSURE- PSI/ MPA /BAR</b>		MPA/PSI	MPA/PSI	MPA/PSI	MPA/PSI	-
<b>TEST PRESSURE</b>	API 6D	7.8/1125	5.7/825	0.55/80	-	-
<b>DURATION (MINUTES MIN.)</b>	API 6D	5	5	5	-	-
<b>TEST RESULTS</b>		PASS	PASS	PASS	-	-
<b>DIMENSIONAL CHECK</b>	B16.10	PASS	-	-	-	-
<b>VISUAL</b>	MSS-SP-55	PASS	-	-	-	-

We certify all valves indicated in this certificate are manufactured, inspected and tested in accordance with standards noted.

DATE: July 18, 2017



Ping Zhu

Bay K, 1423 45 Avenue NE, Calgary, Alberta, T2E 2P3



Bay K, 1423 45 Avenue NE, Calgary, Alberta, T2E 2P3

EF

### TRACEABILITY SHEET

Certificate No. : 120297-3

PAGE 2 OF 4

SERIAL NO.	BODY HEAT #	ADAPTER HEAT #	BALL HEAT #	STEM HEAT #	TRUNNION HEAT#	BOLTING HEAT#	NUT HEAT#	
1	12029703-01	L1538	L1538	LR2489	L2023	L3317	15709805	15709805
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
32								
33								
34								
35								

DATE: 18/Jul/17



Bay K, 1423 45 Avenue NE, Calgary, Alberta, T2E 2P3

**MATERIAL TEST REPORT - EN10204 3.1**

BF

Certificate No. : 120297-3

PAGE 3 OF 4

**CHEMICAL ANALYSIS**

Component	Material	Heat-No.	C (%)	Mn (%)	Si (%)	Cr (%)	Ni (%)	Mo (%)	P (%)	S (%)	Cu (%)	V (%)	Nb (%)	Residual Elements	Carbon Equivalent
BODY	A 350 L/F2 class 1	Requirements	≤0.30	0.60-1.35	0.15-0.30	≤0.30	≤0.40	≤0.12	≤0.035	≤0.040	≤0.40	≤0.08	≤0.02	≤1.00	≤0.47
	REV 11	LF2	L1538	0.190	0.900	0.230	0.170	0.040	0.010	0.006	0.004	0.070	0.001	0.001	0.29
ADAPTER	LF2	L1538	0.190	0.900	0.230	0.170	0.040	0.010	0.006	0.004	0.070	0.001	0.001	0.29	0.38
BALL	LF2	LR2849	0.220	0.970	0.220	0.070	0.020	0.002	0.014	0.013	0.030	0.002	0.003	0.12	0.40
STEM	LF2	L2023	0.180	0.910	0.230	0.050	0.010	0.001	0.011	0.004	0.010	0.001	0.001	0.07	0.34
TRUNNION	LF2	L3317	0.200	0.870	0.230	0.040	0.050	0.001	0.022	0.016	0.130	0.001	0.001	0.22	0.37
STUDS	A320 L7M	Requirements	0.38-0.48	0.75-1.00	0.15-0.35	0.80-1.10	—	0.15-0.25	≤0.035	≤0.040	—	—	—	—	—
	REV 11	LF2	L1538	0.37-0.49	0.65-1.10	0.15-0.35	0.75-1.20	—	0.15-0.25	≤0.035	≤0.040	—	—	—	—
NUTS	A194 7M	Requirements	0.37-0.49	0.65-1.10	0.15-0.35	0.75-1.20	—	0.15-0.25	≤0.035	≤0.040	—	—	—	—	—
	REV 10a	L7M	15709805	0.410	0.840	0.220	0.880	—	0.170	0.010	0.003	—	—	—	—
NUTS	7M	15709805	0.410	0.840	0.220	0.880	—	0.170	0.010	0.003	—	—	—	—	—

We certify all materials are manufactured inspected and tested in accordance with material specification.



Ping Zhu  
July 18, 2017

