



AUSTIN ALLOY CAST PVT. LTD.

Survey No.177 P 17, Plot No.4,Rajkot-Gondal NH 27,BHARUDI,,Gondal,Pin:360311,INDIA
Tel:+91-2825-280299,280288,,Fax:,,e-mail:info@austinalloycast.com,sales@austinalloycast.com

ISO 9001 : 2015
Certificate No.
011001837527

INSPECTION CERTIFICATE EN 10204 - type 3.1

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M/s. L & T VALVES LIMITED,
L & T CAMPUS, L & T BYPASS ROAD,
MALUMICHAMPATTI,
POST BAG No. 607 - 656.
COIMBATORE, Pin :641050

T.C No : G/2275/18-19/1
D.C No : G/2275/18-19
O.A No : P2488
P.O No : 10162987

Date: 25/12/2018
Date: 25/12/2018
Date: 01/10/2018
Date: 01/10/2018

SPECIFICATION : ASTM A216-16 GR.WCB

CHEMICAL ANALYSIS

HEAT #	C.%	Mn.%	Si.%	S.%	P.%	Cr.%	Ni.%	Mo.%	V.%	Cu.%	Al.%	CE.%	TRE.%
MIN	-	-	-	-	-	-	-	-	-	-	-	-	-
MAX	0.300	1.000	0.600	0.030	0.035	0.500	0.500	0.200	0.030	0.300	0.060	0.500	0.500
4ZAB	0.173	0.799	0.308	0.014	0.015	0.089	0.143	0.017	0.009	0.057	0.002	0.343	0.315
4ZAC	0.165	0.821	0.328	0.014	0.016	0.066	0.143	0.011	0.008	0.045	0.003	0.331	0.258
4ZAC	0.165	0.821	0.328	0.014	0.016	0.066	0.143	0.011	0.008	0.045	0.003	0.331	0.258
4YJE	0.168	0.823	0.428	0.011	0.024	0.109	0.148	0.010	0.007	0.071	0.003	0.345	0.347
4ZAD	0.184	0.851	0.304	0.012	0.015	0.070	0.163	0.014	0.006	0.048	0.002	0.358	0.302

MECHANICAL PROPERTIES

HEAT #	Y.S (0.2%)	Y.S (1.0%)	T.S	% Elgn GL=25mm	% Red in Area	Hardness BHN	Shear Area	Impact Test at °C (J) SIZE : 10 X 10 X 55 MM				Lateral Expansion (in MM)			
	MPa	MPa	MPa					I	II	III	AVG	I	II	III	AVG
MIN	250	-	485	22	35	-	-	-	-	-	-	-	-	-	-
MAX	-	-	655	-	-	235	-	-	-	-	-	-	-	-	-
4ZAB	355.10	-	516.00	31.44	61.23	135 - 144	-	-	-	-	-	-	-	-	-
4ZAC	309.10	-	524.00	36.92	64.61	139 - 144	-	-	-	-	-	-	-	-	-
4ZAC	309.10	-	524.00	36.92	64.61	139 - 144	-	-	-	-	-	-	-	-	-
4YJE	326.20	-	520.00	32.24	63.92	144 - 156	-	-	-	-	-	-	-	-	-
4ZAD	310.20	-	515.00	32.52	58.98	137 - 144	-	-	-	-	-	-	-	-	-

HEAT TREATMENT DETAILS

HEAT #	HEAT TREATMENT PROCESS - I				HEAT TREATMENT PROCESS - II				HEAT TREATMENT PROCESS - III			
	Type of H/T	Soaked Temp. °C	Soaked Time Hrs	Cooling Media	Type of H/T	Soaked Temp. °C	Soaked Time Hrs	Cooling Media	Type of H/T	Soaked Temp. °C	Soaked Time Hrs	Cooling Media
4ZAB	NORMALIZE	900	2 Hr.	AC								
4ZAC	NORMALIZE	900	2 Hr.	AC								
4ZAC	NORMALIZE	900	2 Hr.	AC								
4YJE	NORMALIZE	900	2 Hr.	AC								
4ZAD	NORMALIZE	900	2 Hr.	AC								

DESPATCH DETAILS

HEAT #	POUR DATE	MOULD #	ITEM DESCRIPTION	PART #	DRAWING #	DESP. QTY
4ZAB	10/12/2018	DW1719C	BODY, SIZE : 2", CLASS - 150	BL0001V-Y-A10C0KA	BL0001V-B REV.000	8
4ZAC	10/12/2018	DW1719C	BODY, SIZE : 2", CLASS - 150	BL0001V-Y-A10C0KA	BL0001V-B REV.000	1
4ZAC	10/12/2018	DW1722C	COVER, SIZE : 2", CLASS : 150/300	BL0037V-Y-A10C0KA	BL0037V-B REV.000	28
4YJE	18/11/2018	DW1722C	COVER, SIZE : 2", CLASS : 150/300	BL0037V-Y-A10C0KA	BL0037V-B REV.000	9
4ZAD	10/12/2018	DW1722C	COVER, SIZE : 2", CLASS : 150/300	BL0037V-Y-A10C0KA	BL0037V-B REV.000	28

We hereby certify that items mentioned above confirms to : ASTM A216-16 GR.WCB

For AUSTIN ALLOY CAST PVT. LTD.

Amdt No. : 00

Date : 15.1.2015

Tested By:

JAYDEEP BHATT

[Signature]
K.P. BENDI
Quality Control
L&T Valves Limited, Coimbatore

KETANBHAI
Q.A. DEPARTMENT



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TEST CERTIFICATE

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We hereby certify that items mentioned above confirms to : **ASTM A216-16 GR.WCB**

Casting surface finish complies to MSS-SP-55 Example (Type II to XII A)

Steel is Fully Killed and Fine Grained.

Delivered Materials are Free of Radioactive Contamination.

Material conforms to NACE MR 0175/ISO 15156-2015 & NACE MR 0103-2016

Materials confirms to customer specification TDC-001 REV.026

No Major Weld Repair done on Casting.

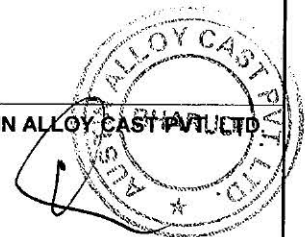
YS is measured by 0.2% offset method.

MPI REPORT NO.0359/18,0360/18,0361/18 REPORT DATE:25.12.2018

MANUFACTURER'S MARK  or 

Reviewed & Accepted
K.P. RENU, BAMESH
Quality Control
L&T Valves Limited, Coimbatore

For AUSTIN ALLOY CAST PVT. LTD.



Amdt No. : 00

Date : 15.1.2015

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