



Office & Work :
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INSPECTION CERTIFICATE
F-QA-02/Rev-03/Date: 01/09/2018

THIS CERTIFICATE HAS BEEN PREPARED AS PER EN 10204 : 2005 (Type 3.1)

Customer : JC VALVULAS INDIA PVT LTD
Metal Spe. : ASTM A351 Gr. CF8M - 24 & JC-MDS-301 Rev-04
Heat Treatment : Solution Annealing : Heated at 1080 °C for 1 Hr. 30 Min. and Water Quench.

Spectro Chemical Analysis

HEAT NO.	C %	Si %	Mn %	S %	P %	Cr %	Ni %	Mo %										
MIN						18.000	9.000	2.000										
MAX	0.080	1.500	1.500	0.040	0.040	21.000	12.000	3.000										
R448	0.067	1.030	1.030	0.012	0.033	18.460	9.190	2.070										
R449	0.056	1.000	1.080	0.011	0.032	18.430	9.240	2.080										
R469	0.055	1.000	1.110	0.016	0.028	18.320	9.330	2.060										

Mechanical Properties

HEAT NO.	Tensile Strength		Yield Strength (0.2% Offset)		%Elongation (GL 25mm)	Impact Test (10mm X 10mm X 55mm) CVN 2mm at -196 °C			Hardness (BHN)		
	KSI	MPa	KSI	MPa							
MIN	70.00	485.00	30.00	205.00	30.00	27.0			237		
MAX						1			2		
R448	78.50	541.41	43.84	302.37	51.44	98.0			102.0		
R449	80.16	552.80	43.66	301.08	51.40	98.0			100.0		
R469	79.54	548.56	44.83	309.19	51.20	112.0			106.0		
						98.0			102.0		
						105.3			105.3		

Hardness Test

Dispatch Detail

Sl. No.	Description / Drawing No. - Revision No.	Cust. Part ID	Heat No.	Dispatch Quantity	PO No.	Actual Code P. on Casting	Special Note
4	1" (DN25) FIG-515 ADAPTER #150 M/C. Drg. No. : 051502SLM-R5	L05151025-49	R448	30	JCCMP-2425000569		
5	1" (DN25) FIG-515 BODY #150-M/C. Drg. No. : 051502SCM-R5	C05151025-49	R449	22	JCCMP-2425000569		
6	1" (DN25) FIG-515 BODY #150-M/C. Drg. No. : 051502SCM-R5	C05151025-49	R469	37	JCCMP-2425000569		

Total Quantity : 89

We, hereby certify that the items mentioned above are Manufactured, Stamped, Tested and Inspected in accordance with applicable material specifications ASTM A351 Gr. CF8M - 24 & JC-MDS-301 Rev-04 and was found to meet the requirements.
• Certified that above mentioned casting is free from Radioactive Contamination.
• Visual Inspection of castings carried out as per MSS SP 55-2011, ASTM A997-23 Level-H
• Mechanical Test Specimens prepare & tested accordingly ASTM A370 -24
• Casting conforms to NACE MR 0175/2012/ISO 15156 :2020 & NACE MR 0103/2015/ISO 17945:2015.
• Approved & Certified according to PED 2014/68/EU - Annexure 1 Chapter 4.3 & AD 2000 - Merkblatt WO by Notified body for pressure equipment directive of TUV NORD SYSTEMS GMBH & CO. KG (Notified Body No. 0045)



Foundry Identification : (M)

For, Microfusion Cast & Alloys

Jignesh Patel (Director)
Authorised By