



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 & ASTM A351 Gr CF3M (Dual) - 24e1 & JC-MDS-307 Rev.No.2
Melting Media : Air Melting Through Electric Induction Furnace
Mfg. Process : Investment Casting By Lost Wax Process
TC No. : GT-0729 - CF8M/CF3M (Dual)
Inv. No. : GT -0729
Date : 31/03/2025

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									
MIN						17.000	9.000	2.000									
MAX	0.030	1.500	1.500	0.040	0.040	21.000	13.000	3.000									
J512	0.023	0.930	1.170	0.007	0.029	18.360	9.290	2.120									
J513	0.026	0.850	1.150	0.007	0.028	18.270	9.190	2.120									
J514	0.022	0.770	1.180	0.006	0.029	18.480	9.490	2.210									

Mechanical Properties

Impact Test

Hardness Test

HEAT NO.	Tensile Strength		Yield Strength (0.2% Offset)		% Elongation (GL 25mm)	Impact Test (10mm X 10mm X 55mm) CVN 2mm at -50 °C In Joule				Hardness (BHN)
	KSI	MPa	KSI	MPa						
MIN	70.00	485.00	30.00	205.00	30.00	27.0			27.0	235
MAX						54.0			54.0	237
J512	78.83	543.64	44.13	304.35	51.60	162.0	160.0	168.0	163.3	159
J513	78.34	540.24	43.51	300.10	51.60	154.0	166.0	162.0	160.6	162
J514	78.34	540.24	43.56	300.42	51.60	168.0	160.0	158.0	162.0	159

Dispatch Detail

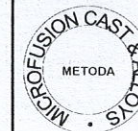
Special Note

Sr. No.	Description / Drawing No. - Revision No.	Cust. Part ID	Heat No.	Dispatch Quantity	PO No.	Line No.	Marking on Casting : • Heat No. punch on Casting. • Foundry Logo.
7	6" (DN150) FIG-515 BODY #150-M/C, Drg. No. : 0515150MC-1	C0515D150	J512	4	JCRM-2425000290	02	<div style="border: 1px solid black; padding: 5px;"> <p>JC Valvulas India Pvt. Ltd. Chennai, Tamil Nadu, India <i>Verified & Accepted</i></p> <p>Q.A. <i>R. Dik</i></p> </div>
8	6" (DN150) FIG-515 BODY #150-M/C, Drg. No. : 0515150MC-1	C0515D150	J513	5	JCRM-2425000290	02	
9	6" (DN150) FIG-515 BODY #150-M/C, Drg. No. : 0515150MC-1	C0515D150	J514	4	JCRM-2425000290	02	

Total Quantity : 13

Foundry Identification :

• We, hereby certify that the items mentioned above are Manufactured, Stamped, Tested and Inspected in accordance with applicable material specifications ASTM A 351 Gr. CF8M & ASTM A351 Gr CF3M (Dual) - 24e1 & JC-MDS-307 Rev.No.2 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 BS ISO 19959 Level 1.
• Mechanical Test Specimens prepared & tested accordingly ASTM A370 -24
• Casting confirms 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)



For, Microfusion Cast & Alloys



Jignesh Patel (Director)

Authorised By