



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

Melting Media : Air Melting Through Electric Induction Furnace
Mfg. Process : Investment Casting By Lost Wax Process

TC No. : GT -0238 - CF8M
Invoice No. : GT -0238
Date : 06/08/2024

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											
R470	0.050	0.950	1.180	0.011	0.026	18.260	9.300	2.070											
R471	0.047	0.980	1.100	0.011	0.027	18.400	9.350	2.060											

Mechanical Properties

HEAT NO.	Tensile Strength		Yield Strength (0.2% Offset)		%Elongation (G.L. 25mm)	Impact Test (10mm X 10mm X 55mm) CVN 2mm at -196 °C In Joule					Hardness (BHN)	
	KSI	MPa	KSI	MPa								
MIN	70.00	485.00	30.00	205.00	30.00	1	27.0	2	102.0	108.0	102.7	237
MAX												
R470	76.07	524.60	45.40	313.13	51.20	98.0	102.0	104.0	100.0	102.0	162	
R471	80.20	553.12	43.66	301.08	50.76	102.0					165	

Hardness Test

Dispatch Detail

Sr. No.	Description / Drawing No. - Revision No.	Cust. Part ID	Heat No.	Dispatch Quantity	PO No.	Actual Code P.un. on Casting	Special Note
7	1" (DN25) FIG-515 BODY #150-M/C. Dwg. No. : 0515025CM-R5	C0515025-49	R470	10	JCCMP-2425000569		Marking on Casting : • Heat No. punch on Casting. • Foundry Logo.
8	1" (DN25) FIG-515 BODY #150-M/C. Dwg. No. : 0515025CM-R5	C0515025-49	R471	7	JCCMP-2425000569		
9	1" (DN25) FIG-515 ADAPTER #150 M/C. Dwg. No. : 0515025LM-R5	L0515025-49	R471	28	JCCMP-2425000569		

Total Quantity : 45

Foundry Identification : (M)

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.

Visual Inspection of castings carried out as per MSS SP 55-2011, ASTM A997-23 Level-HII

Mechanical Test Specimens prepared & tested accordingly ASTM A370 -24

Casting conforms to NACE MR 0175/2021/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