



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 | | | | | | | | | | |
| H554 | 0.023 | 0.950 | 1.090 | 0.005 | 0.029 | 18.350 | 9.320 | 2.130 | | | | | | | | | | |
| H597 | 0.022 | 1.260 | 1.050 | 0.007 | 0.029 | 18.320 | 9.260 | 2.110 | | | | | | | | | | |
| H598 | 0.025 | 1.020 | 1.090 | 0.006 | 0.027 | 18.370 | 9.260 | 2.050 | | | | | | | | | | |

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 | | 1 | | 3 | | |
| MIN | 70.00 | 485.00 | 30.00 | 205.00 | 30.00 | 27.0 | | 27.0 | | 235 |
| MAX | | | | | | | | | | |
| MIN | 70.00 | 485.00 | 30.00 | 205.00 | 30.00 | 54.0 | | 54.0 | | 237 |
| MAX | | | | | | 1 | 2 | 3 | | |
| H554 | 78.05 | 538.29 | 43.04 | 296.84 | 51.52 | 158.0 | 162.0 | 168.0 | 162.6 | 162 |
| H597 | 79.71 | 549.69 | 45.78 | 315.74 | 51.60 | 158.0 | 160.0 | 164.0 | 160.6 | 162 |
| H598 | 79.85 | 550.67 | 46.25 | 319.00 | 51.60 | 162.0 | 168.0 | 160.0 | 163.3 | 162 |

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 |
|---------|--|---------------|----------|-------------------|-----------------|----------|--|
| 1 | 6" (DN150) FIG-515 BODY #150-M/C, Drg. No. : 0515150MC-1 | C0515D150 | H554 | 3 | JCRM-2425000290 | 02 | Marking on Casting : • Heat No. punch on Casting • Foundry Logo. <div style="border: 1px solid blue; padding: 5px; text-align: center;"> JC Valvulas India Pvt. Ltd. Chennai, Tamil Nadu, India Verified & Accepted QA <i>R. D. Patel</i> </div> |
| 2 | 6" (DN150) FIG-515 BODY #150-M/C, Drg. No. : 0515150MC-1 | C0515D150 | H597 | 3 | JCRM-2425000290 | 02 | |
| 3 | 6" (DN150) FIG-515 BODY #150-M/C, Drg. No. : 0515150MC-1 | C0515D150 | H598 | 2 | JCRM-2425000290 | 02 | |

Total Quantity : 8

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 0175:2021/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