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|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|--------|-----------------------|--------------------------------------------------------------|----------|-------------------|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>Office &amp; Work :</b><br>Plot No. : G-1064, G.I.D.C. Lodhika (Metoda)<br>Rajkot (Gujarat) INDIA - 360021                         | <b>Phone :</b> +91 -2827-287201<br><b>E- mail :</b> info@microfusioncast.com<br><b>Web :</b> www.microfusioncast.com | <b>INSPECTION CERTIFICATE</b><br><b>F-QA-02/Rev-03/Date: 01/09/2018</b> |        |                       |                                                              |          |                   |                |                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                    |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | THIS CERTIFICATE HAS BEEN PREPARED AS PER EN 10204 : 2005 (Type 3.1)                                                                  |                                                                                                                      |                                                                         |        |                       |                                                              |          |                   |                |                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                    |  |  |  |  |
| Customer : <b>JC VALVULAS INDIA PVT LTD</b><br>Metal Spe. : <b>ASTM A351 Gr. CF8M - 24e1 &amp; JC-MDS-30I Rev-06</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Melting Media : <b>Air Melting Through Electric Induction Furnace</b><br>Mfg. Process : <b>Investment Casting By Lost Wax Process</b> | TC No.: <b>GT/25-26/1155 - CF8M</b><br>Inv. No. : <b>GT/25-26/1155</b>                                               | Date : <b>28/02/2026</b><br>Date : <b>28/02/2026</b>                    |        |                       |                                                              |          |                   |                |                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                    |  |  |  |  |
| Heat Treatment : <b>Solution Annealing : Heated at 1080 °C for 1 Hr. 30 Min. and Water Quench.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                       |                                                                                                                      |                                                                         |        |                       |                                                              |          |                   |                |                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                    |  |  |  |  |
| <b>Spectro Chemical Analysis</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                       |                                                                                                                      |                                                                         |        |                       |                                                              |          |                   |                |                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                    |  |  |  |  |
| 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             |                |                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                    |  |  |  |  |
| E636                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.035                                                                                                                                 | 0.960                                                                                                                | 0.880                                                                   | 0.005  | 0.024                 | 18.640                                                       | 9.360    | 2.090             |                |                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                    |  |  |  |  |
| E652                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.043                                                                                                                                 | 1.010                                                                                                                | 1.010                                                                   | 0.004  | 0.021                 | 18.560                                                       | 9.190    | 2.100             |                |                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                    |  |  |  |  |
| <b>Mechanical Properties</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                       |                                                                                                                      |                                                                         |        |                       |                                                              |          |                   |                |                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                    |  |  |  |  |
| HEAT NO.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Tensile Strength                                                                                                                      |                                                                                                                      | Yield Strength (0.2% Offset)                                            |        | %Elongation (GL 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                 | 27.0                                                         |          |                   |                | 27.0                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                    |  |  |  |  |
| MAX                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                       |                                                                                                                      |                                                                         |        |                       | 1                                                            | 2        | 3                 | AVG.           |                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                    |  |  |  |  |
| E636                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 79.89                                                                                                                                 | 550.99                                                                                                               | 43.51                                                                   | 300.10 | 50.76                 | 98.0                                                         | 102.0    | 100.0             | 100.0          | 235                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                    |  |  |  |  |
| E652                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 79.61                                                                                                                                 | 549.04                                                                                                               | 43.85                                                                   | 302.38 | 51.40                 | 102.0                                                        | 98.0     | 106.0             | 102.0          | 159                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                    |  |  |  |  |
| <b>Dispatch Detail</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                       |                                                                                                                      |                                                                         |        |                       |                                                              |          |                   |                |                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                    |  |  |  |  |
| Sr. No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Description / Drawing No. - Revision No.                                                                                              |                                                                                                                      |                                                                         |        |                       | Cust. Part ID                                                | Heat No. | Dispatch Quantity | PO No.         | Line No.                                                                                                                                                                               | Marking on Casting :<br>• Heat No. punch on Casting.<br>• Foundry Logo.<br><div style="border: 1px solid blue; padding: 5px; margin-top: 10px;"> <b>JC Valvulas India Pvt. Ltd.</b><br/>           Chennai, Tamil Nadu, India<br/> <i>Verified &amp; Accepted</i><br/>           Q.A.  </div> |  |  |  |  |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 3/4" (DN20) FIG-515 ADAPTOR #150, Drg. No. : 0515020LM-R5                                                                             |                                                                                                                      |                                                                         |        |                       | L05151020MP-497                                              | E636     | 48                | JCRM-2526-0188 | 04                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                    |  |  |  |  |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 3/4" (DN20) FIG-515 ADAPTOR #150, Drg. No. : 0515020LM-R5                                                                             |                                                                                                                      |                                                                         |        |                       | L05151020MP-497                                              | E652     | 33                | JCRM-2526-0188 | 04                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                    |  |  |  |  |
| Total Quantity : 81                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                       |                                                                                                                      |                                                                         |        |                       |                                                              |          |                   |                |                                                                                                                                                                                        | Foundry Identification :                                                                                                                                                                                                                                                                      |  |  |  |  |
| • We, hereby certify that the items mentioned above are Manufactured, Stamped, Tested and Inspected in accordance with applicable material specifications ASTM A351 Gr. CF8M - 24e1 & JC-MDS-30I Rev-06 and meet the requirements.<br>• Certified that above mentioned casting is free from Radioactive Contamination.<br>• Found satisfactory as per MSS-SP-55 TYPE II TO XII CATEGORY A AND B ONLY<br>• Mechanical Test Specimens prepare & tested accordingly ASTM A370 -24a<br>• Casting confirms to NACE MR 0175:2021/ISO 15156 :2020 & NACE MR 0103:2015/ISO 17945:2015.<br>• 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) |                                                                                                                                       |                                                                                                                      |                                                                         |        |                       |                                                              |          |                   |                |                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                    |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                       |                                                                                                                      |                                                                         |        |                       |                                                              |          |                   |                | <b>For, Microfusion Cast &amp; Alloys</b><br><br>Jignesh Patel (Director)<br><b>Authorised By</b> |                                                                                                                                                                                                                                                                                                                                                                                    |  |  |  |  |