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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. : DIN EN 10213 - 1.4408 - 2016-10 & JC-MDS-640, Rev.
No. 0

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

TC No.: GT/25-26/1161 - 1.4408 Date : 02/03/2026
Inv. No. : GT/25-26/1161 Date : 02/03/2026

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 %	Cu %						
MIN						18.000	9.000	2.000							
MAX	0.070	1.500	1.500	0.030	0.040	20.000	12.000	2.500	0.500						
D673	0.040	0.840	0.870	0.007	0.027	18.380	9.210	2.070	0.328						
D697	0.040	1.000	0.920	0.006	0.026	18.320	9.350	2.070	0.002						
E621	0.037	0.890	0.940	0.005	0.024	18.660	9.430	2.100	0.366						
E627	0.035	0.990	0.890	0.005	0.022	18.580	9.320	2.070	0.361						

Mechanical Properties

Impact Test

Hardness Test

HEAT NO.	Tensile Strength		Yield Strength (1% Offset)		% Elongation (GL 25mm)	Impact Test(10mm X 10mm X 55mm) CVN 2mm at -196 °C In Joule				Hardness (BHN)	
	MPa	MPa	MPa	MPa		1	2	3	AVG.		
MIN	440.00		205.00		30.00				27.0		
MAX	640.00									210	
D673	522.90		311.47		50.76		102.0	96.0	92.0	96.6	162
D697	539.72		301.08		50.96		106.0	100.0	98.0	101.3	159
E621	545.46		297.17		51.00		102.0	98.0	106.0	102.0	162
E627	551.81		317.42		51.20		102.0	96.0	104.0	100.6	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 : • Heat No. punch on Casting. • Foundry Logo.	Special Note
1	1" (DN25) FIG -540-Q PN40 - BODY (SS), Drg. No. : 0540025CQM-1	C0540I025M P-497	D673	68	JCRM-2526-0188	03			JC Valvulas India Pvt. Ltd. Chennai, Tamil Nadu, India Verified & Accepted Q.A.
2	1" (DN25) FIG -540-Q PN40 - BODY (SS), Drg. No. : 0540025CQM-1	C0540I025M P-497	D697	46	JCRM-2526-0188	03			
3	1" (DN25) FIG -540-Q PN40 - BODY (SS), Drg. No. : 0540025CQM-1	C0540I025M P-497	E621	64	JCRM-2526-0188	03			
4	1" (DN25) FIG -540-Q PN40 - BODY (SS), Drg. No. : 0540025CQM-1	C0540I025M P-497	E627	72	JCRM-2526-0188	03			

Total Quantity : 250

Foundry Identification : (M)

- We, hereby certify that the items mentioned above are Manufactured, Stamped, Tested and Inspected in accordance with applicable material specifications DIN EN 10213 - 1.4408 - 2016-10 & JC-MDS-640, Rev. No. 0 and was found to meet the requirements.
- Certified that above mentioned casting is free from Radioactive Contamination.
- Found satisfactory as per MSS-SP-55 TYPE II TO XII CATEGORY A AND B ONLY
- Mechanical Test Specimens prepare & tested accordingly DIN EN ISO 6892-1:2019
- Impact Test Specimens prepare & tested accordingly EN ISO 148-1.
- 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



For, Microfusion Cast & Alloys



Jignesh Patel (Director)

Authorised By