



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. : **DIN EN 10213 - 1.0619 - 2016-10 & JC-MDS-641, Rev No. 0**

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

TC No.: GT/25-26/1125 - 1.0619

Date : 26/02/2026

Inv. No. : GT/25-26/1125

Date : 26/02/2026

Heat Treatment : 1) Quenching : Heated at 920 °C for 2 Hr. and Water Quench. 2) Tempering : Heated at 675 °C for 4 Hr. and Furnace Cool.

Spectro Chemical Analysis

HEAT NO.	C %	Si %	Mn %	S %	P %	Cr %	Ni %	Mo %	Cu %	V %	RE	CE %
MIN	0.180		0.500									
MAX	0.230	0.600	1.200	0.020	0.030	0.300	0.400	0.120	0.300	0.030	1.000	0.430
B659	0.185	0.378	0.900	0.008	0.015	0.087	0.058	0.007	0.023	0.011	0.186	0.361
B660	0.184	0.384	0.910	0.008	0.015	0.090	0.060	0.013	0.025	0.009	0.197	0.364
B661	0.187	0.391	0.910	0.008	0.015	0.087	0.057	0.005	0.025	0.010	0.184	0.365

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 -29 °C In Joule				Hardness (HBW)	
	MPa	MPa	MPa	MPa		1	2	3	AVG.		
MIN	420.00		240.00		22.00	27.0					
MAX	600.00					1	2	3	AVG.	225	
B659	524.69		319.46		39.20	38.0	38.0	36.0	37.3	144	
B660	566.10		347.38		39.20	34.0	38.0	32.0	34.6	147	
B661	519.52		325.91		39.20	34.0	36.0	38.0	36.0	139	

Dispatch Detail

Special Note

Sr. No.	Description / Drawing No. - Revision No.	Cust. Part ID	Heat No.	Dispatch Quantity	PO No.	Line No.
5	2" (DN50) FIG -540 PN40 - BODY (CS)-M/C, Drg. No. : 0540050CM-08	C0540A050-037	B659	34	JCCMP-2526-01879	10
6	2" (DN50) FIG -540 PN40 - BODY (CS)-M/C, Drg. No. : 0540050CM-08	C0540A050-037	B660	22	JCCMP-2526-01879	10
7	2" (DN50) FIG -540 PN40 - ADAPTER (CS)-M/C, Drg. No. : 0540050LM-07	L0540A050-037	B661	4	JCCMP-2526-01879	18

Marking on Casting :
• Heat No. punch on Casting.
• Foundry Logo.

JC Valvulas India Pvt. Ltd.
Chennai, Tamil Nadu, India
Verified & Accepted
Q.A. R. Diksh

Total Quantity : 60

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 - 1.0619 - 2016-10 & JC-MDS-641, 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