



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/25-26/1153 - 1.0619** Date : **28/02/2026**  
Inv. No. : **GT/25-26/1153** Date : **28/02/2026**

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
B658	0.184	0.352	0.940	0.008	0.016	0.107	0.070	0.008	0.024	0.008	0.217	0.372
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
B658	513.07		319.46		36.80	38.0	36.0	36.0	36.6	144
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.	Marking on Casting : • Heat No. punch on Casting. • Foundry Logo.
1	2" (DN50) FIG -540 PN40 - BODY (CS)-M/C, Drg. No. : 0540050CM-08	C0540A050-037	B658	3	JCCMP-2526-01879	10	
2	2" (DN50) FIG -540 PN40 - BODY (CS)-M/C, Drg. No. : 0540050CM-08	C0540A050-037	B659	9	JCCMP-2526-01879	10	
3	2" (DN50) FIG -540 PN40 - BODY (CS)-M/C, Drg. No. : 0540050CM-08	C0540A050-037	B660	5	JCCMP-2526-01879	10	
4	2" (DN50) FIG -540 PN40 - BODY (CS)-M/C, Drg. No. : 0540050CM-08	C0540A050-037	B661	6	JCCMP-2526-01879	10	

Total Quantity : 23

Foundry Identification :

- 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