

	D.M. METAL CAST Survey No.91/1,Plot No.1,B/h Advance Technoforge,Veraval-Padavala Main Road,Padavala,Ta.Kotada SanganiRajkot Pin :360024, Phone :7573028351, email :info@dmmetalcast.com
	INSPECTION CERTIFICATE HAS BEEN PREPARED AS PER EN 10204 - 3.1

M/s. JC VALVULAS INDIA PVT LTD 143 Developed Plots, 1st Main Road, Perungudi Industrial Estate, Perungudi, CHENNAI , Pin :600096	T.C No : DM3271/23-24/1 Date: 30/03/2024
	INVOICE No : DM3271/23-24 Date: 30/03/2024
	P.O : JCRM - 2324000461 Dt.22/02/2024, Manufacture Mark : "DM"

SPECIFICATION : ASTM A216/A216M-21 Gr.WCB MELT PRACTICE :- BASIC INDUCTION FURNA

CHEMICAL ANALYSIS														
HEAT No	C.%	Si.%	Mn.%	S.%	P.%	Cr.%	Ni.%	Mo.%	Cu.%	V.%	RE.%	CE.%		
MIN	-	-	-	-	-	-	-	-	-	-	-	-		
MAX	0.300	0.600	1.000	0.035	0.035	0.500	0.500	0.200	0.300	0.030	1.000	0.430		
IC136	0.180	0.420	0.780	0.013	0.020	0.130	0.047	0.011	0.053	0.006	0.247	0.346		
IC137	0.170	0.480	0.850	0.011	0.019	0.062	0.038	0.014	0.048	0.006	0.168	0.334		
IC133	0.180	0.460	0.870	0.011	0.019	0.052	0.038	0.015	0.042	0.007	0.154	0.345		
IC130	0.180	0.430	0.900	0.012	0.019	0.062	0.034	0.011	0.050	0.004	0.161	0.351		

MECHANICAL PROPERTIES																
HEAT No	Y.S (0.2%)	T.S	Elgn %	Red %	Impact Test at -29°C (Joule)				Impact Test at (Joule)				Hardness BHN			
	MPa				MPa	in Area				I	II	III	AVG	I	II	III
MIN	250	485	22	35	27	27	27	27	-	-	-	-	-	-	-	-
MAX	-	655	-	-	-	-	-	-	-	-	-	-	237	237	237	
IC136	378.25	531.20	27.76	50.50	42	46	40	43	-	-	-	-	151	151	150	150.67
IC137	382.60	530.72	28.67	50.87	50	52	48	50	-	-	-	-	150	152	150	150.67
IC133	377.93	526.44	31.38	52.55	40	38	44	41	-	-	-	-	150	150	152	150.67
IC130	371.57	522.83	29.70	50.71	38	40	32	37	-	-	-	-	153	150	150	151

HEAT TREATMENT DETAILS													
HEAT No	HEAT TREATMENT PROCESS - I				HEAT TREATMENT PROCESS - II				HEAT TREATMENT PROCESS - III				
	Type of H/T	Soaked Temp. °C	Soaked Time Hrs	Cooling Media	Type of H/T	Soaked Temp. °C	Soaked Time Hrs	Cooling Media	Type of H/T	Soaked Temp. °C	Soaked Time Hrs	Cooling Media	
IC136	WATER QUENCHING	920°C	3:00 Hrs	W/Q	TEMPERING	680°C	6 HRS	A/C					
IC137	WATER QUENCHING	920°C	3:00 Hrs	W/Q	TEMPERING	680°C	6 HRS	A/C					
IC133	WATER QUENCHING	920°C	3:00 Hrs	W/Q	TEMPERING	680°C	6 HRS	A/C					
IC130	WATER QUENCHING	920°C	3:00 Hrs	W/Q	TEMPERING	680°C	6 HRS	A/C					

DESPATCH DETAILS								
HEAT No	PATT No	ITEM DESCRIPTION			DRAWING No		Part No.	DESP.QTY
IC136	A80009	DN150 CL 600 SC BODY F/E			YSC-150-2560N-01 REV.11		YSC-150-2560N-01-30A-037	4
IC137	A80009	DN150 CL 600 SC BODY F/E			YSC-150-2560N-01 REV.11		YSC-150-2560N-01-30A-037	1
IC133	A80010	DN150 CL 600 SC END PIECE F/E			YSL-150-2560N-01 REV.6		YSL-150-2560N-01-30A-037	8
IC130	A80010	DN150 CL 600 SC END PIECE F/E			YSL-150-2560N-01 REV.6		YSL-150-2560N-01-30A-037	8

We hereby certify that items mentioned above confirms to : **ASTM A216/A216M-21 Gr.WCB**

Castings are free from radioactive contamination.

Visual Inspection as per MSS-SP-55 Type II to XII "A" Satisfactory.

Surface condition shot blasted and Castings are fully killed.

Mechanical testing is carried out as per standard ASTM A370-20.

Hardness test is carried out as per standard ASTM E10-2018,BEND ALL OK as per standard.

castings conforms to NACE MR-0175-2020.& NACE MR0103 ED 2016.

MSS No.: JC MDS-30A REV.04 DATED 26.10.2023. as per general procedure PS04/11 Rev 0. JC Ref PO No. 2324000461 SP-037 Rev.0.

We confirms the above material was manufactured, sampled, tested and inspected in accordance with drawing, material specification,
and customer order requirements and found to meet requirements as per EN 10204 - 3.1

Customer TPI	<div style="display: flex; justify-content: space-between;"> <div style="text-align: center;"> <p>Tested by</p>  JAY PUROHIT (Lab Incharge) </div> <div style="text-align: center;">  </div> <div style="text-align: center;"> <p>Approved by</p>  SHYAM RAJBHAR Q.A Incharge </div> </div>
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