



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 : **DM0056/24-25/1** Date: **09/04/2024**
 INVOICE No : **DM0056/24-25** Date: **09/04/2024**
 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
IC151	0.180	0.390	0.730	0.013	0.018	0.054	0.049	0.011	0.054	0.005	0.173	0.323
IC150	0.190	0.450	0.820	0.012	0.019	0.063	0.040	0.014	0.041	0.004	0.162	0.348
IC151	0.180	0.390	0.730	0.013	0.018	0.054	0.049	0.011	0.054	0.005	0.173	0.323
IC149	0.190	0.440	0.800	0.012	0.019	0.130	0.060	0.012	0.048	0.005	0.255	0.360

MECHANICAL PROPERTIES

HEAT No	Y.S (0.2%) MPa	T.S MPa	Elgn %	Red %	Impact Test at -29°C (Joule)				Impact Test at (Joule)				Hardness BHN						
					in Area				I	II	III	AVG	I	II	III	AVG	I	II	III
MIN	250	485	22	35	27	27	27	27	-	-	-	-	-	-	-	-	-	-	-
MAX	-	655	-	-	-	-	-	-	-	-	-	-	-	237	237	237	-	-	-
IC151	387.92	533.65	33.42	52.33	54	54	60	56	-	-	-	-	154	154	152	153.33	-	-	-
IC150	352.62	519.82	31.65	52.71	50	72	48	57	-	-	-	-	153	152	153	152.67	-	-	-
IC151	387.92	533.65	33.42	52.33	54	54	60	56	-	-	-	-	154	154	152	153.33	-	-	-
IC149	346.79	527.87	30.80	50.92	50	40	42	44	-	-	-	-	150	148	148	148.67	-	-	-

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
IC151	WATER QUENCHING	920°C	3 HRS	W/Q	TEMPERING	680°C	6 HRS	A/C				
IC150	WATER QUENCHING	920°C	3 HRS	W/Q	TEMPERING	680°C	6 HRS	A/C				
IC151	WATER QUENCHING	920°C	3 HRS	W/Q	TEMPERING	680°C	6 HRS	A/C				
IC149	WATER QUENCHING	920°C	3 HRS	W/Q	TEMPERING	680°C	6 HRS	A/C				

DESPATCH DETAILS

HEAT No	PATT No	ITEM DESCRIPTION	DRAWING No	Part No.	DESP.QTY
IC151	A80009	DN150 CL 600 SC BODY F/E	YSC-150-2560N-01 REV.11	YSC-150-2560N-01-30A-037	4
IC150	A80009	DN150 CL 600 SC BODY F/E	YSC-150-2560N-01 REV.11	YSC-150-2560N-01-30A-037	4
IC151	A80010	DN150 CL 600 SC END PIECE F/E	YSL-150-2560N-01 REV.6	YSL-150-2560N-01-30A-037	2
IC149	A80010	DN150 CL 600 SC END PIECE F/E	YSL-150-2560N-01 REV.6	YSL-150-2560N-01-30A-037	2

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 X11 A & B acceptable.
 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 confrims to NACE MR-0175-2020.& NACE MR0103 ED 2016.
 MSS No.: JC MDS-30A REV.04 DATED 26.10.2023. as per general procedure PS04/1 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

JC Valvulas India Pvt. Ltd.
 Chennai, Tamil Nadu, India
 Verified & Accepted
 C. Sathya

Tested by

JAY PUROHIT
 (Lab Incharge)



Approved by

SHYAM RAJBHAR
 Q.A Incharge