



# AISWARYA LAKSHMI ENGINEERING WORKS

(ISO 9001:2015 CERTIFIED COMPANY)

## INSPECTION CERTIFICATE

(AS PER EN 10204 3.1)

CUSTOMER	JC VALVULAS INDIA PVT LTD., CHENNAI	OUR T.C No.	ALEW / GST / 24-25 / 205 / 02
PART NAME	STEM DN25 A182 GR.F51	DATE	24.03.2025
PART No.	EPF5125TJQ ✓	OUR INV No.	GST / 24-25 / 205
DRG No.	EPI25Q-JCI ✓	MILL TC No.	198084
DRG REV No.	1	HEAT No.	23L1034 ✓
P.O.No.	JCCMP- 2425001623 ✓	QYT (NO' S)	200 ✓
P.O.No.	JCCMP- 2425001839 ✓	QYT (NO' S)	300 ✓

**MATERIAL SPECIFICATION : ASTM A182/A182M-24A, Gr. F51 (UNS S31803)**

### CHEMICAL PROPERTIES

TEST REPORT NO: TRC/24-25/44857-1 Dt 22-01-2024

%	C	Si	Mn	P	S	Cr	Ni	Mo	N
MIN						21.00 ✓	4.50 ✓	2.50 ✓	0.08 ✓
MAX	0.030 ✓	1.00 ✓	2.00 ✓	0.030 ✓	0.020 ✓	23.00 ✓	6.50 ✓	3.50 ✓	0.20 ✓
ACTUAL	0.022 ✓	0.335 ✓	1.755 ✓	0.028 ✓	0.012 ✓	22.778 ✓	4.984 ✓	3.042 ✓	0.137 ✓

### MECHANICAL PROPERTIES

TEST REPORT NO: TRC/24-25/44857-1 Dt 22-01-2024

PARAMETER %	MIN	MAX	ACTUAL
TENSILE STRENGTH IN Mpa	620 ✓	-	949 ✓
YIELD STRENGTH IN Mpa 0.2% OFFSET	450 ✓	-	873 ✓
ELONGATION IN GL OF 50mm%	25 ✓	-	33.0 ✓
REDUCTION IN AREA %	40 ✓	-	66.5 ✓

### METALLURGICAL PROPERTIES

I.G.C	: NIL
IMPACT	: NIL
MICRO	: NIL
FERRITE	: NIL
HEAT TREATMENT	: SOLUTION ANNEALED @ 1050°C SOAKING TIME 1 Hrs/Inch THEN WATER QUENCHED ✓

### REMARKS:

- 1) We hereby certify that the items above have been tested and inspected in our presence in accordance with drawings and satisfy the requirements for "ASTM A182 Gr.F51 - 24 The results comply with product description. ✓
- 2) Materials Free From Radioactive contamination. ✓
- 3) Visual and Dimensional Found satisfactory as per drawing. ✓
- 4) Markings done according to MSS-SP-25. ✓
- 5) No weld Repair Performed. ✓
- 6) MARKING, PUNCH IDENTIFIED AS F51 23L1034 ✓
- 7) Material is ultrasonically tested as per ASTM A388/388M & Found satisfactory ✓
- 8) Material confirms to NACE MR0175/ISO - 1516- 2020 and NACE MR0103/ISO - 17945 - 2016 ✓
- 9) JC MDS NO -JC-MDS-346 REV 6 ✓

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

WE HEREBY CERTIFY THAT THE ITEMS MENTIONED ABOVE HAVE BEEN TESTED, INSPECTED & FOUND TO BE IN ACCORDANCE WITH THE SPECIFICATION REQUIREMENTS.

For AISWARYALAKSHMI ENGINEERING WORKS

Mr. D. Thirumurugan  
Quality Incharge



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