



RING FORGINGS PRIVATE LIMITED

A-283/284, 6th main, 2nd Stage, Peenya Industrial Estate, BANGALORE - 560 058.

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TEST CERTIFICATE - EN 10204 : 3.1

TC No. : RF / TC / 0991 / 2024 - 25 DATE : 23.05.2024

1. Customer : M/s. JC VALVULAS INDIA PVT LTD 4. Heat Number : 23L2051
 2. P.O. No. : JCRM - 2425000025 5. Invoice Number : RF/2425/0991
 3. Material : ASTM A182 Gr. F316 - 24 6. Forging Ratio : 3 : 1 Min

COMPONENT DETAILS

SL.NO.	PART DESCRIPTION	PART NUMBER/ DRAWING NO	Qty
1	PROOF M/CED FORGED BAR OD 210 X ID 146 X 58 MM	XRM-210-058-146-34I	28

CHEMICAL COMPOSITION (Wt.%)

Elements	C%	Mn%	Si%	S%	P%	Ni%	Cr%	Mo%	N%
Min	-	-	-	-	-	10.00	16.00	2.00	-
Max	0.080	2.00	1.000	0.030	0.045	14.00	18.00	3.00	0.10
Product Values	0.012	1.630	0.321	0.015	0.024	10.120	16.500	2.100	0.063

HEAT TREATMENT

TYPE OF HEAT TREATMENT	TEMPERATURE	SOAKING TIME	COOLING MEDIA
SOLUTION ANNEALING	1050 ° C	4 HOURS	WATER

MECHANICAL TEST AS PER ASTM A370

PARAMETER	UTS - Mpa	Offset YS 0.2 % - Mpa	%EL	%RA	HARDNESS - HBW
Min	515	205	30	50	-
Max	-	-	-	-	235
Actual Values	553	283	55.4	72.4	155 - 157

Supply Condition : FORGED, SOLUTION ANNEALED & PROOF MACHINED.

Identified as follows: RFPL / F316/ PART NO / HEAT NO : 23L2051

Remarks :

- (1) SPECIFICATION AS PER JC-MDS-34I Rev.6
- (2) NO WELD REPAIR WAS CARRIED OUT, NO VISIBLE DEFECTS, INCLUDING SEAMS, LAPS, AND FOLDS
- (3) MATERIAL CONFORMS TO NACE STD. MR 0175 : 2021 / ISO 15156 : 2020 & MR0103:2015.
- (4) MATERIAL IS FREE FROM RADIOACTIVE CONTAMINATIONS.
- (5) VISUAL EXAMINATION WAS PERFORMED AND RESULTS FOUND SATISFACTORY AS PER ASME BPVC Section VIII, Division 1, UF-45 AND UF-46

We hereby certify that the items mentioned above have been tested and inspected in our presence in accordance with drawings

and satisfy the requirements of ASTM A182 Gr.F316-24 . The results comply with product description.

For RING FORGINGS PVT LTD



Authorized Signatory

JC Valvulas India Pvt. Ltd.
 Chennai, Tamil Nadu, India
 Verified & Accepted
 Q.A. *C. Sathyan*