



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 / 26-27 / 08 / 03
P.O.No.	JCCMP-2526-02257	DATE	07.04.2026
PART NAME	STEM DN40 ASTM A564 Tp.630 17-4 ph, HT-H1150D	OUR INV No.	GST / 26-27 / 08
PART No.	EP174PH40TJQ	MILL TC No.	TC243556
DRG No.	EPI40Q	HEAT No.	S-33049
DRG REV No.	1	QYT (NO' S)	5

MATERIAL SPECIFICATION : ASTM A564 TYPE 630 17-4PH (UNS S17400) H1150D

CHEMICAL PROPERTIES

TEST REPORT NO: TR/25-26/43649-1 27-12-2025

%	C	Si	Mn	P	S	Cr	Cu	Ni
MIN	-	-	-	-	-	15.00	3.00	3.00
MAX	0.070	1.00	1.00	0.040	0.030	17.50	5.00	5.00
ACTUAL	0.049	0.361	0.729	0.028	0.015	15.675	3.06	0.349

MECHANICAL PROPERTIES

TEST REPORT NO: TR/25-26/43649-1 27-12-2025

PARAMETER %	MIN	MAX	ACTUAL
TENSILE STRENGTH IN Mpa	860	-	1037
YIELD STRENGTH IN Mpa 0.2% OFFSET	725	-	959
ELONGATION IN GL OF 50mm%	16	-	23.0
REDUCTION IN AREA %	50	-	64
HARDNESS(HRC)	24	33	30.9

METALLURGICAL PROPERTIES

I.G.C	: NIL
IMPACT	: NIL
MICRO	: NIL
FERRITE	: NIL
HEAT TREATMENT	: SOLUTION ANNEALED @ 1040 C.AND HARDENED @ 620 C THEN AIR QUENCHED COOL BELOW 260 C

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 A564 TYPE 630 17-4PH (UNS S17400) H1150D " 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 17-4 PH S-33049
- 7) Material is ultrasonically tested as per ASTM A388/388M & Found satisfactory
- 8) Material confirms to NACE MR0175/ISO - 15156- 2020 and NACE MR0103/ISO -17945 - 2016
- 9) JC MDS NO -JC-MDS-466 REV 5

JC Valvulas India Pvt. Ltd.
Chennai, Tamil Nadu, India
Verified & Accepted
Q.A. *R. D. S.*

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

For AISWARYA LAKSHMI ENGINEERING WORKS

R. L. Thirumurugan

Mr.L.Thirumurugan
Quality Incharge



Address 132A, SIDCO INDUSTRIAL ESTATE, AMBATTUR, CHENNAI - 98. Email Id: alewchennai@gmail.com



Test Report

TC1472825000133499F

Customer: M/s. Aiswarya Lakshmi Engineering Works No. 132A,Sidco Industrial Estate,North Phase,Ambattur ,City:Chennai ,600098	Report No.:	TR/25-26/43649-1
	Report Date:	27-12-2025
	Customer Ref. No.:	803
	Ref. Date	26-12-2025
	Sample Received Date:	26-12-2025
	Date Of Completion:	27-12-2025

Samples drawn by Customer

Sample Description: Rod, Size: Dia 35.00mm, Material: ASTM A564 TYPE 630 17-4PH (UNS S17400) H1150D, Heat No: S-33049

Discipline : Chemical, Group : METALS & ALLOYS

SPECTRO CHEMICAL ANALYSIS

Test Method : JIS G 1253:2002 A-1:2013

Verified By: PAPPITHA

Tested on : 27-12-2025

Test Parameters	Result	Requirement
% Carbon	0.049 ✓	0.070 max. ✓
% Silicon	0.361 ✓	1.00 max. ✓
% Manganese	0.729 ✓	1.00 max. ✓
% Phosphorus	0.028 ✓	0.040 max. ✓
% Sulphur	0.015 ✓	0.030 max. ✓
% Chromium	15.675 ✓	15.00-17.50 ✓
% Nickel	4.460 ✓	3.00-5.00 ✓
% Copper	3.056 ✓	3.00-5.00 ✓
% Niobium	0.349 ✓	
% Tantalum	0.001 ✓	
% Nb+Ta	0.350 ✓	0.15-0.45

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

Q.A. *P. D. K. J.*

Remarks :The material conforms to ASTM A564 Type 630(UNS S17400) with respect to test/s carried out

Discipline : Mechanical, Group : MECHANICAL PROPERTIES OF METALS

HARDNESS TEST

Test Method : ASTM E18:2025

Verified By: SANTHOSH KUMAR.B

Tested on : 27-12-2025

Test Parameters	Result	Requirement
Rockwell Hardness Value (HRC)	31.1, 30.9, 31.4 ✓	24-33 ✓

Remarks :The material conforms to ASTM A564 Type 630 (UNS S17400) Condition H1150D with respect to test/s carried out

NOTE : This report relates only to the particular sample submitted for test * Any correction is not attested shall invalidate this certificate * Sample will be destroyed after 15 days from the date of testing unless instructed otherwise * Any complaints about this report should be communicated in writing within 7 days of this report * This report not to be produced wholly or in parts and cannot be used as an evidence in a court of law and shall not be used in advertising Media without prior permission in writing * Sample description is not verified in all cases and is given as described by the customers * Sample are not drawn by us unless otherwise stated * Laboratory reports the statements of Conformity to material specification as per Decision Rule 1, Non Conformity as per Decision Rule 4 & For Rule 2 & 3 Customer provides feedback.





TC1472825000133499F
TR/25-26/43649-1 Dt- 27-12-2025

TENSILE TEST

Test Method : ASTM A370:24a

Verified By: SURENDIRAN

Tested on : 27-12-2025

Test Parameters	Result	Requirement
Yield Strength (N/mm ² or Mpa)	959 ✓	725 min. ✓
Ultimate Tensile Strength (N/mm ² or Mpa)	1037 ✓	860 min. ✓
Elongation (%) 4D GL	23.0 ✓	16 min. ✓
Reduction Area (%)	64.0 ✓	50 min. ✓

Remarks : The material conforms to ASTM A564 Type 630 (UNS S17400) Condition H1150D with respect to test/s carried out ✓

P.L Saravanan
Head- Chemical & Q.M.
Authorised Signatory

For MICROLAB

P. Selvakumar
Asst. Technical Manager
Authorised Signatory

----- **End of Test Report** -----

JC Valvulas India Pvt. Ltd.

Chennai, Tamil Nadu, India
Verified & Accepted

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