



National Accreditation Board for
Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION

TEKNO VALVES (LABORATORY DIVISION)

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2017

**"General Requirements for the Competence of Testing &
Calibration Laboratories"**

for its facilities at

NATUN RASTA, BILKANDA, KOLKATA, 24 PARAGANAS NORTH, WEST BENGAL, INDIA

in the field of

CALIBRATION

Certificate Number: CC-2617

Issue Date: 22/03/2022

Valid Until: 21/03/2024

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.

(To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

Name of Legal Entity : Tekno Valves

Signed for and on behalf of NABL



N. Venkateswaran
Chief Executive Officer



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	TEKNO VALVES (LABORATORY DIVISION), NATUN RASTA, BILKANDA, KOLKATA, 24 PARAGANAS NORTH, WEST BENGAL, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2617	Page No	1 of 6
Validity	22/03/2022 to 21/03/2024	Last Amended on	18/05/2022

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
Permanent Facility					
1	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	THREAD RING GAUGE(Pitch Diameter)	Using "Go" and "Not Go" Check Plug Gauge by comparison method	2 mm to 4 mm	0.003 mm
2	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	3 Point Internal Micrometer L.C 0.001 mm	Master Setting Ring by comparison method	16 mm to 35 mm	0.0012 mm
3	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	CALIPERS(VERNIER/ DIAL/DIGITAL) LC : 0.01mm	Using Gauge Block and Master setting ring by comparison method	0 to 300 mm	13.3µm
4	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	DIAL GAUGE PLUNGER TYPE LC : 0.01mm	Using Length measuring machine by comparison method	0 to 30 mm	0.005 mm



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5	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	EXTERNAL MICROMETER (MECHNICAL/ DIGITAL) LC : 0.001 mm	Using Gauge and Long Gauge Blocks by comparison method	0 to 100 mm	0.002 mm
6	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	LIMIT DEPTH MEASURING GAUGE	Using Comparator and Gauge Blocks by comparison methods	0 to 300 mm	0.0039 mm
7	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	MICROMETER SETTING ROD	Using Comparator and Gauge Blocks by comparison method	25mm to 75mm	0.0049 mm
8	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	PLAIN PLUG GAUGE (External Diameter)	Using Length Measuring Machine by direct measurement	1 mm to 50 mm	0.0024 mm
9	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	PLAIN RING GAUGE (Internal Diameter)	Using Length Measuring Machine by direct measurement	3 mm to 50 mm	0.0020 mm



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10	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Receiver Gauge (For verification of Centre Distances among 2/3 hole/pin location)	Using Universal length measuring machine by direct measurement	1mm to 30mm	0.003 mm
11	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	SNAP GAUGE	Using Gauge Blocks by Comparison Methods	4 mm to 100 mm	6.1um
12	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	TAPER PLUG GAUGE (External Taper Diameter)	Using Length Measuring Machine by direct method	1 mm to 50 mm	0.78µm
13	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	TAPER PLUG GAUGE (External Taper Diameter)	Using Length Measuring Machine by direct measurement	1degree to 11degree	0.0016degree
14	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	TAPER Ring GAUGE (Internal Taper Diameter)	Using Length Measuring Machine by direct measurement	1 mm to 50 mm	0.003 mm



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15	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	TAPER Ring GAUGE (Internal Taper Diameter)	Using Length Measuring Machine by direct measurement	1degree to 11degree	0.0020 degree
16	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	TAPER THREAD PLUG GAUGE(Pitch Diameter)	Using Floating Carriage Diameter Measuring Machine by 2 wire and spotting method	1 degree to 11 degree	0.0083 degree
17	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	TAPER THREAD PLUG GAUGE(Pitch Diameter)	Using Floating Carriage Diameter Measuring Machine by 2 wire and spotting method	1 mm to 50 mm	0.003 mm
18	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	TAPER THREAD RING GAUGE(Pitch Diameter)	Using Check Plug and lever dial gauge by comparison method	1 degree to 11 degree	0.0028 degree
19	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	TAPER THREAD RING GAUGE(Pitch Diameter)	Using Check Plug and lever dial gauge by comparison method	1 mm to 50 mm	3.28µm



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20	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	THREAD PLUG GAUGE(Pitch Diameter & Major Diameter)	Using Length Measuring Machine by 2 wire method by comparison method	2 mm to 50 mm	3.4µm
21	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	THREAD RING GAUGE(Pitch Diameter & Minor Diameter)	Using Length Measuring Machine by 2 ball method by comparison method	4 mm to 50 mm	2.48µm
22	MECHANICAL-PRESSURE INDICATING DEVICES	HYDRAULIC PRESSURE DIAL /DIGITAL PRESSURE GAUGE AND CALIBRATORS - LC: 1 bar	Using Digital Pressure Gauge and Hydraulic Pump by comparison Method	600 bar to 1000 bar	2 bar
23	MECHANICAL-PRESSURE INDICATING DEVICES	HYDRAULIC PRESSURE DIAL /DIGITAL PRESSURE GAUGE AND CALIBRATORS -LC: 0.1 bar	Using Digital Pressure Gauge and Hydraulic Pump by comparison Method	up to 600 bar	0.4 bar
24	MECHANICAL-TORQUE GENERATING DEVICES	Rotary Torque Tool (DC Nut Runner)	Using Rotary Torque transducer with DRO unit by direct measurement	0.5 Nm to 180 Nm	2 %



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25	MECHANICAL-TORQUE GENERATING DEVICES	TORQUE GENERATING DEVICES (TORQUE WRENCH) Type I Torque Wrench-Class B & C 2)Type II Torque Wrench-Class A, B & C LC: 0.01 Nm	Using Torque transducer with DRO unit by direct measurement as per DIN EN ISO 6789-1:2017 & 6789-2:2017	0.5 Nm to 135 Nm	3 %

* CMCs represent expanded uncertainties expressed at approximately the 95% level of confidence, using a coverage factor of $k = 2$.