

CERTIFICATE OF CALIBRATION

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ULR No.	CC282826000007957F	Date of Issue	04-06-2026
Date of Calibration	03-06-2026	Next Calibration Due	03-06-2027

CUSTOMER NAME AND ADDRESS

M/s. Chavanke Engineering Private Limited, PAP-113, Near AIMA Office, MIDC, Ambad, Nashik-422010	Certificate Number	: CS/26/340/MP/1
Customer Reference: Verbal	Date of Receipt	: 01-06-2026
	Condition of UUC Received	: Satisfactory
	Calibration At	: Lab

DETAILS OF THE UNIT UNDER CALIBRATION

Description	: Digital Pressure Gauge	Cal.Range	: 0 to 300 bar
Make/Model Number	: Keller / Leo 2	Resolution	: 0.1 bar
Sl.No./Tag Number	: 96523 / P-01	Accuracy	: ± 0.1 %FS
Range	: 0 to 300 bar	Location	: NA
Calibrated By	: T. Pandi Kumar	Equipment Name	: NA

Environmental Conditions		Calibration Method	Disciplines	Mechanical
Temperature	(23 $\pm$ 1.5) $^{\circ}$ C	Comparison Method	Work Instruction	WI/RD/PR/01
Humidity	(50 $\pm$ 20)%RH		Group	Pressure Indicating Devices

DETAILS OF THE STANDARD INSTRUMENT USED FOR CALIBRATION

Description	Make	Id No.	Sl.No	Certificate No.	Validity
Pressure Calibrator	R&D Instruments	P-26	13941603	CS/25/761/MP/3	02-02-2027



Scope



Certificate




Authorised Signatory
T. Pandi Kumar
Technical Manager



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Mechanical Calibration-Pressure and Vacuum

Calibration Results

Pressure:

Unit Under Calibration P_{ind} bar	Standard Instrument P_{std} bar				Mean Value MP_{std} bar
	Rising M_1	Falling M_2	Rising M_3	Falling M_4	
0.0	0.00	0.00	0.00	0.00	0.00
37.5	37.38	37.37	37.38	37.37	37.38
75.0	74.91	74.90	74.90	74.90	74.90
112.5	112.37	112.36	112.37	112.35	112.36
150.0	149.78	149.79	149.78	149.79	149.79
187.5	187.40	187.41	187.40	187.41	187.41
225.0	224.88	224.89	224.87	224.89	224.88
262.5	262.41	262.40	262.41	262.40	262.41
300.0	299.83	299.83	299.82	299.82	299.83

Unit Under Calibration P_{ind} bar	Error ΔP bar	Zero Deviation f_0 bar	Repeatability b' bar	Hysteresis h bar	Expanded Uncertainty $\pm$ U bar
0.0	0.00	-	-	-	-
37.5	0.12	0.00	0.00	0.010	0.059
75.0	0.10	0.00	0.01	0.005	0.059
112.5	0.14	0.00	0.01	0.015	0.061
150.0	0.21	0.00	0.00	0.010	0.061
187.5	0.09	0.00	0.00	0.010	0.064
225.0	0.12	0.00	0.01	0.015	0.064
262.5	0.09	0.00	0.00	0.010	0.067
300.0	0.17	0.00	0.01	0.000	0.070

Remarks :

1) $MP_{std} = \sum m_i / 4$;

2) $\Delta p = P_{ind} - MP_{std}$;

3) $f_0 = \max\{|M_{2,0}-M_{1,0}|, |M_{4,0}-M_{3,0}|\}$;

4) $b' = \max\{|(M_{3,j}-M_{3,0})-(M_{1,j}-M_{1,0})|, |(M_{4,j}-M_{4,0})-(M_{2,j}-M_{2,0})|\}$;

5) $h = 1/2 \{|(M_{2,j}-M_{1,0})-(M_{1,j}-M_{1,0})| + |(M_{4,j}-M_{3,0})-(M_{3,j}-M_{3,0})|\}$;

Where, j - stands for numbers of nominal values of the pressure.

6) As per IS : 3624-1987, SI unit of Pressure is Pascal (Pa). 1 Pascal (Pa) = 10^{-5} bar.

7) Medium Used For Calibration: Water

T. Pandi Kumar
Authorised Signatory

T.Pandi Kumar
Technical Manager

