
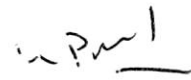


Calibration Certificate

FF - 24		Page 1 of 3	
Certificate No	: VIS/22-23/M-591	Date of Calibration	: 28.06.2022
ULR No.	: CC269522000000591F	Recommended Due Date	: 28.06.2023
		Date of Issue	: 28.06.2022
Customer Details : National Centre for Quality Calibration 4, Abhishree Corporate Park, Near Swagat Bungalows BRTS, Iskcon-Ambli Road, Ambli, Ahmedabad - 380 058, Gujarat, India.		Calibrated at	: Mechanical Lab
		Discipline	: Mechanical Calibration
		Group	: Pressure Indicating Device
		Receipt Date	: 28.06.2022
		Cond. On Receipt	: Satisfactory
		Receipt No	: VIS/S-335/22-23
Test Instrument : Digital Compound Gauge		Serial No. :	NVEM1806033
Model	: MGA N32-2	ID No. :	NCQC/M-145
Range	: -1 to 2 bar	Make	: Vijay Enterprises
Least Count	: 0.1 mmHg & 0.0001 bar		
Accuracy	: +/- 0.05%FS		
Details of Standard Used : Dead Weight Tester		Sr. No./Certi.No.	: 71759 / M-200826-09-1/A
Name/Make	: Fluke Calibration Phoenix	Range	: -20 mmHg to -760mmHg
Traceability	: Godrej, Mumbai.		: 0.2kg/cm2 to 35kg/cm2
		Valid Up to	: 26.08.2025
Work Instruction No : CP - 01		Standard Used	: DKD-R-6-1 ISO-GUM-1995
Environment Details			
Temperature : (23 +/- 1.5)°C		Relative Humidity : (40 - 70)%	

Remarks


- The reported Expanded Uncertainty is calculated at 95% C.L. with Coverage Factor $k=2$.
- Readings are taken in kg/cm2 (PRESSURE) & mmHg (VACUUM)
- CONVERSION :-
1 kg/cm2 = 0.98067 bar
1 mmHg = 0.00133 bar
- Test reading is corrected for Local gravity and temperature.
- Local gravity = 9.78763363 m/s² Uncertainty = 50 ppm

Calibrated By :  Approved By : 

Lab Engineer : Mr. Harshwardhan Kumar Technical Manager : Mr. Vijay J. Patil



NCQC System Certificate No. 298

NCQC
Valid up to 28-06-2023
Reviewed 

Calibration Certificate

Certificate No: VIS/22-23/M-591

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ULR No. : CC26952200000591F

Calibration Results

Sr. No.	Standard DWT Read.	Test Reading						Mean Value	Deviation	Deviation Allowed +/-	Repeatability	Hysteresis	Uncertainty +/-
		Up	Down	Up	Down	Up	Down						
		mmHg	mmHg	mmHg	mmHg	mmHg	mmHg						
1	-740.00	-740.5	-740.4	-740.4	-740.5	-740.5	-740.4	-740.45	-0.45	1.13	0.10	0.10	0.19321
2	-670.00	-670.4	-670.5	-670.4	-670.4	-670.4	-670.3	-670.40	-0.40	1.13	0.20	0.07	0.17213
3	-590.00	-590.2	-590.3	-590.2	-590.2	-590.3	-590.3	-590.25	-0.25	1.13	0.10	0.03	0.15342
4	-440.00	-440.3	-440.2	-440.2	-440.3	-440.3	-440.2	-440.25	-0.25	1.13	0.10	0.10	0.18408
5	-300.00	-300.2	-300.2	-300.3	-300.2	-300.3	-300.2	-300.23	-0.23	1.13	0.10	0.07	0.18070
6	-220.00	-220.2	-220.1	-220.2	-220.1	-220.1	-220.2	-220.15	-0.15	1.13	0.10	0.10	0.18020
7	-150.00	-150.1	-150.0	-150.0	-150.1	-150.1	-150.0	-150.05	-0.05	1.13	0.10	0.10	0.17950
8	-70.00	-70.0	-69.9	-69.9	-70.0	-70.0	-69.9	-69.95	0.05	1.13	0.10	0.10	0.17902
9	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	1.13	0.00	0.00	0.12910

Calibrated By :

Lab Engineer : Mr. Harshwardhan Kumar



Approved By :

Technical Manager : Mr. Vijay J. Patil

Note :

- The above results are without any adjustment / repair.
- Equipment used for calibration are calibrated & traceable to National & International Standards.
- The calibration results reported are valid at the time of and under stated conditions of the measurements.
- This certificate refers only to particular Items submitted for calibration.
- VIS is not liable for any change in calibration data & performance specification on account of malfunctioning of Standards/Instruments/Equipments covered by this certificate due to damage caused to it after issuance of this certificate.

Calibration Certificate

Certificate No: VIS/22-23/M-591

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ULR No. : CC269522000000591F

Calibration Results

Sr. No.	Standard DWT Read.	Test Reading						Mean Value	Deviation	Deviation Allowed +/-	Repeatability	Hysteresis	Uncertainty +/-
		Up	Down	Up	Down	Up	Down						
		bar	bar	bar	bar	bar	bar						
1	0.00000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.00000	0.00150	0.00000	0.00000	0.00013	
2	0.19613	0.1963	0.1962	0.1963	0.1962	0.1962	0.1961	0.19622	0.00009	0.00150	0.00010	0.00018	
3	0.39227	0.3925	0.3926	0.3924	0.3925	0.3925	0.3924	0.39248	0.00021	0.00150	0.00020	0.00019	
4	0.58840	0.5887	0.5886	0.5886	0.5885	0.5887	0.5886	0.58862	0.00022	0.00150	0.00010	0.00019	
5	0.78454	0.7847	0.7849	0.7849	0.7848	0.7849	0.7848	0.78483	0.00029	0.00150	0.00020	0.00018	
6	0.98067	0.9810	0.9810	0.9812	0.9811	0.9810	0.9811	0.98107	0.00040	0.00150	0.00020	0.00019	
7	1.37294	1.3734	1.3734	1.3735	1.3734	1.3736	1.3735	1.37347	0.00053	0.00150	0.00020	0.00021	
8	1.56907	1.5696	1.5698	1.5697	1.5696	1.5697	1.5696	1.56967	0.00060	0.00150	0.00020	0.00026	
9	2.05941	2.0601	2.0602	2.0601	2.0600	2.0600	2.0601	2.06008	0.00067	0.00150	0.00020	0.00027	

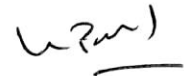
All reading are taken in kg/cm² at the time of calibration and converted to bar.

Calibrated By :



Lab Engineer : Mr. Harshwardhan Kumar

Approved By :



Technical Manager : Mr. Vijay J. Patil

Note :

- The above results are without any adjustment / repair.
- Equipment used for calibration are calibrated & traceable to National & International Standards.
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---X--- END OF REPORT ---X---