Vijay Instrumentation Services

A-201 Arihant Supermarket, Opp SBI Lalbaug Branch, Manjalpur,
Vadodara – 390011
Email: calibration@vijayenterprises.in
Contact: +91-7041380818 | 0265-2664870

CC-2695

TRUE COPY

Calibration Certificate

FF – 24

Certificate No : VIS/21-22/M-516 ULR No. : CC269521000000516F	Date of Calibration : 29.06.2021 Recommended Due Date : 29.06.2022 Date of Issue : 30.06.2021
Customer Details : National Center For Quality Calibration 4, Abhishree Corporate Park, Nr. Swagat Bungalows BRTS, Opp. Shell Petrol Pump, Iscon - Bopal Road , Ambli Ahmedabad -380 058.	Calibrated at : Mechanical Lab Discipline : Mechanical Calibration Group : Pressure Indicating Device Receipt Date : 26.06.2021 Cond. On Receipt : Satisfactory Receipt No : VIS/S-302/21-22
Test Instrument : Digital Compound Gauge Model : MGA N 32-2 Range : -1 to 2 bar Least Count : 0.1 mmHg & 0.0001 bar Accuracy : +/- 0.05%FS	Serial No. : NVEM1806033 ID No. : NCQC/M-145 Make : Vijay Enterprises
Details of Standard Used : Dead Weight Tester Name/Make : Fluke Calibration Phoenix Traceability : Godrej, Mumbai.	Sr. No./Certi.No. : 71759 / M-200826-09-1 Range : -20 mmHg to -760mmHg : 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/s^2 Uncertainty = 50 ppm

Calibrated By : Harshwardhan Kumar
Lab Engineer : Mr. Harshwardhan Kumar

VIJAY INSTRUMENTATION SERVICES VADODARA

Approved By :
Technical Manager : Mr. Vijay J. Patil

NCQC System Certificate No. 298

NCQC
Valid up to 29/06/2022
Reviewed

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Calibration Certificate

Certificate No: VIS/21-22/M-516
ULR No. : CC269521000000516F

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	mmHg	mmHg	mmHg	mmHg	mmHg	mmHg	mmHg
1	-740.00	-740.5	-740.5	-740.6	-740.6	-740.6	-740.5	-740.55	-0.55	1.13	0.10	0.03	0.15962
2	-670.00	-670.6	-670.5	-670.5	-670.4	-670.5	-670.4	-670.48	-0.48	1.13	0.10	0.10	0.19531
3	-590.00	-590.5	-590.4	-590.4	-590.5	-590.4	-590.5	-590.45	-0.45	1.13	0.10	0.10	0.18812
4	-440.00	-440.4	-440.3	-440.3	-440.4	-440.4	-440.3	-440.35	-0.35	1.13	0.10	0.10	0.18408
5	-300.00	-300.3	-300.3	-300.2	-300.3	-300.2	-300.3	-300.27	-0.27	1.13	0.10	0.07	0.18070
6	-220.00	-220.3	-220.2	-220.3	-220.2	-220.2	-220.3	-220.25	-0.25	1.13	0.10	0.10	0.18020
7	-150.00	-150.2	-150.1	-150.1	-150.2	-150.2	-150.1	-150.15	-0.15	1.13	0.10	0.10	0.17950
8	-70.00	-70.1	-70.1	-70.0	-70.1	-70.0	-70.0	-70.05	-0.05	1.13	0.10	0.03	0.14211
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	0.00000

VIJAY INSTRUMENTATION SERVICES VADODARA

Calibrated By : Harshwardhan Kumar
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.

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Calibration Certificate

Certificate No: VIS/21-22/M-516
ULR No. : CC269521000000516F

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	bar	bar	bar	bar	bar	bar	bar
1	0.00000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.00000	0.00000	0.00150	0.00000	0.00000	0.00000
2	0.19613	0.1961	0.1963	0.1961	0.1962	0.1963	0.1962	0.19620	0.00007	0.00150	0.00020	0.00013	0.00021
3	0.39227	0.3924	0.3923	0.3925	0.3924	0.3924	0.3925	0.39242	0.00015	0.00150	0.00020	0.00010	0.00019
4	0.58840	0.5886	0.5885	0.5887	0.5886	0.5886	0.5885	0.58858	0.00018	0.00150	0.00010	0.00010	0.00019
5	0.78454	0.7847	0.7848	0.7847	0.7849	0.7848	0.7847	0.78477	0.00023	0.00150	0.00020	0.00013	0.00018
6	0.98067	0.9811	0.9812	0.9810	0.9810	0.9811	0.9810	0.98107	0.00040	0.00150	0.00020	0.00007	0.00019
7	1.37294	1.3732	1.3733	1.3733	1.3734	1.3732	1.3732	1.37327	0.00033	0.00150	0.00020	0.00007	0.00021
8	1.56907	1.5695	1.5696	1.5696	1.5697	1.5696	1.5695	1.56958	0.00051	0.00150	0.00020	0.00010	0.00024
9	2.05941	2.0599	2.0600	2.0599	2.0601	2.0600	2.0599	2.05997	0.00056	0.00150	0.00020	0.00013	0.00029

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

VIJAY INSTRUMENTATION SERVICES VADODARA

Calibrated By : Harshwardhan K.
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.
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