

## CALIBRATION CERTIFICATE (QC240101-11)

|                                 |  |                          |            |
|---------------------------------|--|--------------------------|------------|
| Certificate No.:                | QC240101-11  | Date of Calibration:     | 01-01-2024 |
| Customer Name:                  | Egyptian Maintenance(EMC) Company<br>IRAQ  | Due Date of Calibration: | 31-12-2024 |
| Instrument under Calibration:   |  | Hydrostatic Machine      |            |
| Serial Number of Equipment      | 4232800780   | Pressure Gauge Ranges    | 0-400 BAR  |
| Pressure Gauges Serial Numbers: | EMC-002 & EMC-003  |                          |            |
| Model No. :                     | 9LD625-2   | Manufacturer:            | LOMBARDINI |
| Calibration Method:             | Based on <u>DCL-2003</u> ;The reported uncertainty is the expanded uncertainty with k=2 according to the ISO/IEC "Guide to the expansion of uncertainty in measurement" providing a level of confidence of approximately 95% |                          |            |

**Equipment used for calibration:**

1. Digital Pressure Gauge Manufacturer: Sino Instruments China

| Serial No. | Model No. | Range     | Traceability | Due Date      |
|------------|-----------|-----------|--------------|---------------|
| 1506119435 | HS108     | 0~700 BAR | AW20113274   | 21, Aug, 2024 |

**Environmental Conditions during calibration:**

|           |                                      |
|-----------|--------------------------------------|
| 30.1 % RH | Calibration Temperatures Mean:35.6°C |
|-----------|--------------------------------------|

**RESULTS**

|                      |              |
|----------------------|--------------|
| QC Job Reference No. | QC/JN/24/001 |
|----------------------|--------------|

The instrument under calibration was calibrated up to full scale according to the used standard calibration method. The following gives the under test readings and the corresponding reference mean readings:

| Unit Under Calibration (BAR) | Reference Instrument Reading (BAR) | Reference Value (BAR) |                  |
|------------------------------|------------------------------------|-----------------------|------------------|
|                              |                                    | Pressure Rising       | Pressure Falling |
| 0                            | 0.00                               | 0.00                  | 0.00             |
| 100                          | 100.20                             | 100.10                | 100.06           |
| 150                          | 150.40                             | 150.20                | 150.10           |
| 200                          | 200.40                             | 200.30                | 200.20           |
| 300                          | 300.60                             | 300.40                | 300.30           |
| 400                          | 400.70                             | 400.50                | 400.50           |

  

| Unit Under Calibration (BAR) | Reference Instrument Reading (BAR) | Reference Value (BAR) |                  |
|------------------------------|------------------------------------|-----------------------|------------------|
|                              |                                    | Pressure Rising       | Pressure Falling |
| 0                            | 0.00                               | 0.00                  | 0.00             |
| 100                          | 100.15                             | 100.15                | 100.10           |
| 150                          | 150.25                             | 150.25                | 150.20           |
| 200                          | 200.36                             | 200.36                | 200.35           |
| 300                          | 300.47                             | 300.47                | 300.45           |
| 400                          | 400.59                             | 400.59                | 400.59           |

Uncertainty of measurements: ± (10) BAR  
The accuracy was found to be: 1.0% F.S.

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### The Instrument Specification

- This calibration was carried out in compliance with the *ISO/IEC 17025*.
- The standard/standards used in this calibration is/are traced to the SI unit of pressure through traceability to primary standards maintained in the National Institute of Standards (NIS)
- This calibration certificate refers only to the particular item submitted for calibration
- This certificate shall not be reproduced, unless written permission has been obtained from the lab
- Customer should ensure comparing between instrument data sheet and the above results before assembly.
- This certificate is valid only with signature and stamp.

Calibrated By: **Mahdi Haleem**  
Signature:



Reviewed By: **Asjad Bano**  
Signature:

