

## Certificate of Calibration

Al Takamul Yard, North Rumailah South Iraq

• Phone : +964 7810009138 • www.qualitycontrol-iraq.com • E-mail: op@qualitycontrol-iraq.com

**Date of Issue:** June 13, 2024

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REQUEST NUMBER : By Contract	APPROVED BY: 
JOB NUMBER : QC/JN/24/00239	
CERTIFICATE NUMBER : <b>QC240613-04</b>	



### CUSTOMER DETAILS

**Name :** Honghua Oil & Gas Engineering Services Limited  
**Address :** Basra, South Iraq  
**Department :** HH029

### EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

**Description :** Pressure Gauge  
**Manufacturer :** NA  
**Model :** NA  
**Serial Number :** CAL-HH029-01  
**Locatin :** Air Compressor  
**Type :** Analog  
**Range :** 0 to 180 lb in<sup>2</sup>  
**Calibrated Range :** 0 to 180 lb in<sup>2</sup>  
**Resolution :** 100 lb in<sup>2</sup>  
**Tolerance :** ±1 % of Full Scale  
**As found :** In Tolerance  
**Calibrated By :** Hussein Alaa  
**Calibration Date :** June 13, 2024  
**Calibration Due :** **14 June 2025**  
**Last Calibration Date :** NA



**DEVIATION FROM STANDARD METHOD :** None  
**REMARK (S) :**

1. No adjustments were made prior to calibration.
2. Overload test was not performed.
3. No accessories were fitted.
4. Values were rounded in computation.

### ENVIRONMENTAL CONDITIONS DURING TEST

**Ambient Temperature :** 25.0 ± 2°C    **Humidity :** 44.0 ± 5 % RH    **Atm. Pressure :** 1011.0 ± 10 hPa

### CALIBRATION METHOD

The above equipment has been calibrated in accordance with Calibration Procedure QC/CP/R/03 Rev. 01  
 The above instrument has been calibrated in increasing and decreasing pressure mode using a Digital Pressure Calibrator as the reference standard having traceability to Internationally recognised standards.

### REFERENCE EQUIPMENT USED

DESCRIPTION	SERIAL NO.	MAKE / MODEL	CALIBRATION DATE	CALIBRATION DUE DATE
Digital Pressure Gauge	468802	AMETEK / XP2i	20 Nov, 2023	19 Nov, 2024

### CALIBRATION TEST RESULTS

Measured Values on Unit Under Calibration (M)	Ref. Standard Values (A)	Deviation (D=M-A)	Error Percentage
lb in <sup>2</sup>	lb in <sup>2</sup>	lb in <sup>2</sup>	±
0	0	0	0.0
40	40.20	-0.20	-0.1
80	80.40	-0.40	-0.2
120	120.50	-0.50	-0.3
140	140.70	-0.70	-0.4
180	180.60	-0.60	-0.3

Calibration results were found to conform as per specified accuracy requirements. Above Instrument has **PASSED** its Calibration.

- The results are as found (no adjustment done).  
 The results are post adjustment.


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JOB NUMBER : QC/JN/24/00239	
CERTIFICATE NUMBER : QC240613-04	



### CUSTOMER DETAILS

Name : **Honghua Oil & Gas Engineering Services Limited**  
 Address : Basra, South Iraq  
 Department : HH029

### EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : **Pressure Gauge**  
 Manufacturer : NA  
 Model : NA  
 Serial Number : **CAL-HH029-03**  
 Locatin : Air Compressor  
 Type : Analog  
 Range : 0 to 180 lb in<sup>2</sup>  
 Calibrated Range : 0 to 180 lb in<sup>2</sup>  
 Resolution : 100 lb in<sup>2</sup>  
 Tolerance : ±1 % of Full Scale  
 As found : In Tolerance  
 Calibrated By : Hussein Alaa  
 Calibration Date : June 13, 2024  
**Calibration Due : 14 June 2025**  
 Last Calibration Date : NA



**DEVIATION FROM STANDARD METHOD : None**  
**REMARK (S) :**

1. No adjustments were made prior to calibration.
2. Overload test was not performed.
3. No accessories were fitted.
4. Values were rounded in computation.

### ENVIRONMENTAL CONDITIONS DURING TEST

Ambient Temperature : 25.0 ± 2°C      Humidity : 44.0 ± 5 % RH      Atm. Pressure : 1011.0 ± 10 hPa

### CALIBRATION METHOD

The above equipment has been calibrated in accordance with Calibration Procedure QC/CP/R/03 Rev. 01  
 The above instrument has been calibrated in increasing and decreasing pressure mode using a Digital Pressure Calibrator as the reference standard having traceability to Internationally recognised standards.

### REFERENCE EQUIPMENT USED

DESCRIPTION	SERIAL NO.	MAKE / MODEL	CALIBRATION DATE	CALIBRATION DUE DATE
Digital Pressure Gauge	468802	AMETEK / XP2i	20 Nov, 2023	19 Nov, 2024

### CALIBRATION TEST RESULTS

Measured Values on Unit Under Calibration (M)	Ref. Standard Values (A)	Deviation (D=M-A)	Error Percentage
lb in <sup>2</sup>	lb in <sup>2</sup>	lb in <sup>2</sup>	±
0	0	0	0.0
40	40.50	-0.50	-0.3
80	80.30	-0.30	-0.2
120	120.70	-0.70	-0.4
140	140.80	-0.80	-0.4
180	181.10	-1.10	-0.6

Calibration results were found to conform as per specified accuracy requirements. Above Instrument has **PASSED** its Calibration.

- The results are as found (no adjustment done).  
 The results are post adjustment.

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**Date of Issue:** June 13, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: ALI CHANGI
JOB NUMBER	: QC/JN/24/00239	
CERTIFICATE NUMBER	: <b>QC240613-06</b>	



### CUSTOMER DETAILS

**Name** : Honghua Oil & Gas Engineering Services Limited  
**Address** : Basra, South Iraq  
**Department** : HH029

### EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

**Description** : Pressure Relief Valve  
**Manufacturer** : NA  
**Model** : NA  
**Serial Number** : CAL-HH029-02  
**Location** : Air Compressor  
**Set/Pressure** : 1160 psi  
**Tolerance** : ±3 %  
**Calibrated By** : Hussein Alaa  
**Calibration Date** : June 13, 2024  
**Calibration Due** : June 12, 2025



### ENVIRONMENTAL CONDITIONS DURING TEST

Ambient Temperature : 25.0 ± 1°C      Humidity : 44.0 ± 5 % RH      Atm. Pressure : 1011.0 ± 10 hPa

### CALIBRATION METHOD

Standard Method API 527 was used to test the unit under test. Test pressure was applied on inlet of unit under test and test was repeated 3 times. Identical repetitions were carried out as recommended in used standard.

### REFERENCE EQUIPMENT USED

DESCRIPTION	SERIAL NO.	MAKE / MODEL	CALIBRATION DATE	CALIBRATION DUE DATE
Digital Pressure Gauge	1505119397	Sino Instruments / HS108	20 Nov, 2023	19 Nov, 2024

### CALIBRATION TEST RESULTS

Measured Values on Unit Under Calibration (M)	Ref. Standard Values (A)	Deviation (D=M-A)	Tolerance Limit
psi	psi	psi	± psi
1160	1165	-5	34.80

**Results :**

The above Value Indicates That the Instrument complies with the Specified Maximum Permissible error tolerance.

At The Time of Calibration. and ready for use.

**DEVIATION FROM STANDARD METHOD :** None

**REMARK (S) :**

- The results relate to measurements taken at nominal value only.
- Adjustments were made prior to calibration.
- Accessories were fitted.

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**Date of Issue:** June 13, 2024

<b>REQUEST NUMBER</b> : By Contract <b>JOB NUMBER</b> : QC/JN/24/00239 <b>CERTIFICATE NUMBER</b> : <b>QC240613-07</b>	APPROVED BY: ALI CHANGI 
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### CUSTOMER DETAILS

**Name** : **Honghua Oil & Gas Engineering Services Limited**  
**Address** : Basra, South Iraq  
**Department** : HH029

### EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

**Description** : **Pressure Relief Valve**  
**Manufacturer** : NA  
**Model** : NA  
**Serial Number** : **CAL-HH029-04**  
**Location** : Air Compressor  
**Set/Pressure** : 1160 psi  
**Tolerance** : ±3 %  
**Calibrated By** : Hussein Alaa  
**Calibration Date** : June 13, 2024  
**Calibration Due** : **June 12, 2025**



### ENVIRONMENTAL CONDITIONS DURING TEST

**Ambient Temperature** : 25.0 ± 1°C     **Humidity** : 44.0 ± 5 % RH     **Atm. Pressure** : 1011.0 ± 10 hPa

### CALIBRATION METHOD

Standard Method API 527 was used to test the unit under test. Test pressure was applied on inlet of unit under test and test was repeated 3 times. Identical repetitions were carried out as recommended in used standard.

### REFERENCE EQUIPMENT USED

DESCRIPTION	SERIAL NO.	MAKE / MODEL	CALIBRATION DATE	CALIBRATION DUE DATE
Digital Pressure Gauge	1505119397	Sino Instruments / HS108	20 Nov, 2023	19 Nov, 2024

### CALIBRATION TEST RESULTS

Measured Values on Unit Under Calibration (M)	Ref. Standard Values (A)	Deviation (D=M-A)	Tolerance Limit
psi	psi	psi	± psi
1160	1172	-12	34.80

**Results :**

The above Value Indicates That the Instrument complies with the Specified Maximum Permissible error tolerance.

At The Time of Calibration. and ready for use.

**DEVIATION FROM STANDARD METHOD :** None

**REMARK (S) :**

- The results relate to measurements taken at nominal value only.
- Adjustments were made prior to calibration.
- Accessories were fitted.

~ END OF DOCUMENT ~