

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: July 16, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-01	

CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : BLD
Model : 01050070
Serial Number : **N190260011**
Location : Pressure Test Pump
Type : Analog
Range : 0 to 160 MPa
Calibrated Range : 0 to 160 MPa
Resolution : 2 MPa
Accuracy : 1.6
Tolerance : ±1.6 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : July 16, 2024
Calibration Due : **15 July 2025**



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
MPa	MPa	MPa	±
0	0	0	0.0
40	40.12	-0.12	-0.1
80	80.15	-0.15	-0.1
120	120.23	-0.23	-0.1
160	160.26	-0.26	-0.2

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.

Certificate of Calibration

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Date of Issue: July 16, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-02	

CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : ST
Model : EN837-1
Serial Number : 2903
Location : Pressure Test Pump
Type : Analog
Range : 0 to 23 psi
Calibrated Range : 0 to 23 psi
Resolution : 0.5 psi
Accuracy : 1.6
Tolerance : ±1.6 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : July 16, 2024
Calibration Due : **15 July 2025**



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
psi	psi	psi	±
0	0	0	0.0
5	5.00	0.00	0.0
10	10.10	-0.10	-0.4
15	15.20	-0.20	-0.9
23	23.20	-0.20	-0.9

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: July 16, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-05	

CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : WIKA
Model : 0500119
Serial Number : **88013K46E**
Location : KOOMEY UNIT
Type : Analog
Range : 0 to 40 MPa
Calibrated Range : 0 to 40 MPa
Resolution : 1 MPa
Accuracy : 1.6
Tolerance : ±1.6 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : July 16, 2024
Calibration Due : **15 July 2025**



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
MPa	MPa	MPa	±
0	0	0	0.0
10	10.09	-0.09	-0.2
20	20.12	-0.12	-0.3
30	30.15	-0.15	-0.4
40	40.17	-0.17	-0.4

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: July 16, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-06	

CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : WIKA
Model : 0500119
Serial Number : **88013K464**
Location : KOOMEY UNIT
Type : Analog
Range : 0 to 40 MPa
Calibrated Range : 0 to 40 MPa
Resolution : 1 MPa
Accuracy : 1.6
Tolerance : ±1.6 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : July 16, 2024
Calibration Due : **15 July 2025**



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
MPa	MPa	MPa	±
0	0	0	0.0
10	10.04	-0.04	-0.1
20	20.07	-0.07	-0.2
30	30.10	-0.10	-0.3
40	40.12	-0.12	-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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Date of Issue: July 16, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-07	

CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : WIKA
Model : 0500119
Serial Number : **88012FFR**
Location : KOOMEY UNIT
Type : Analog
Range : 0 to 25 MPa
Calibrated Range : 0 to 25 MPa
Resolution : 1 MPa
Accuracy : 1.6
Tolerance : ±1.6 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : July 16, 2024
Calibration Due : **15 July 2025**



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
MPa	MPa	MPa	±
0	0	0	0.0
6	5.92	0.08	0.3
12	11.94	0.06	0.2
18	17.95	0.05	0.2
25	24.97	0.03	0.1

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: July 16, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-08	

CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : WIKA
Model : 0500119
Serial Number : **88014AVM**
Location : KOOMEY UNIT
Type : Analog
Range : 0 to 230 psi
Calibrated Range : 0 to 230 psi
Resolution : 5 psi
Accuracy : 1.6
Tolerance : ±1.6 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : July 16, 2024
Calibration Due : **15 July 2025**



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
psi	psi	psi	±
0	0	0	0.0
60	61.20	-1.20	-0.5
120	121.80	-1.80	-0.8
180	182.30	-2.30	-1.0
230	232.50	-2.50	-1.1

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: July 16, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-09	

CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : WIKA
Model : 0500119
Serial Number : **88014AU4**
Location : KOOMEY UNIT
Type : Analog
Range : 0 to 40 MPa
Calibrated Range : 0 to 40 MPa
Resolution : 1 MPa
Accuracy : 1.6
Tolerance : ±1.6 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : July 16, 2024
Calibration Due : **15 July 2025**



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
MPa	MPa	MPa	±
0	0	0	0.0
10	10.13	-0.13	-0.3
20	20.16	-0.16	-0.4
30	30.15	-0.15	-0.4
40	40.19	-0.19	-0.5

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.

Certificate of Calibration

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Date of Issue: July 16, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-10	

CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : WIKA
Model : 0500119
Serial Number : **88014AUC**
Location : KOOMEY UNIT
Type : Analog
Range : 0 to 40 MPa
Calibrated Range : 0 to 40 MPa
Resolution : 1 MPa
Accuracy : 1.6
Tolerance : ±1.6 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : July 16, 2024
Calibration Due : **15 July 2025**



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
MPa	MPa	MPa	±
0	0	0	0.0
10	9.88	0.12	0.3
20	19.90	0.10	0.3
30	29.93	0.07	0.2
40	39.96	0.04	0.1

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.

Certificate of Calibration

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Date of Issue: July 16, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-11	

CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : WIKA
Model : 0500119
Serial Number : **88014AU6**
Location : KOOMEY UNIT
Type : Analog
Range : 0 to 40 MPa
Calibrated Range : 0 to 40 MPa
Resolution : 1 MPa
Accuracy : 1.6
Tolerance : ±1.6 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : July 16, 2024
Calibration Due : **15 July 2025**



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
MPa	MPa	MPa	±
0	0	0	0.0
10	10.17	-0.17	-0.4
20	20.20	-0.20	-0.5
30	30.24	-0.24	-0.6
40	40.27	-0.27	-0.7

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.

Certificate of Calibration

Al Takamul Yard, North Rumailah South Iraq

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Date of Issue: July 16, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-12	

CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : WIKA
Model : 0500119
Serial Number : **88014ATW**
Location : KOOMEY UNIT
Type : Analog
Range : 0 to 40 MPa
Calibrated Range : 0 to 40 MPa
Resolution : 1 MPa
Accuracy : 1.6
Tolerance : ±1.6 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : July 16, 2024
Calibration Due : **15 July 2025**



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
MPa	MPa	MPa	±
0	0	0	0.0
10	10.08	-0.08	-0.2
20	20.12	-0.12	-0.3
30	30.15	-0.15	-0.4
40	40.16	-0.16	-0.4

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.

Certificate of Calibration

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Date of Issue: July 16, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-13	

CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : BLD
Model : 01050070
Serial Number : **1809112C162**
Location : KOOMEY UNIT
Type : Analog
Range : 0 to 145 psi
Calibrated Range : 0 to 145 psi
Resolution : 5 psi
Accuracy : 2.5
Tolerance : ±2.5 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : July 16, 2024
Calibration Due : **15 July 2025**



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
psi	psi	psi	±
0	0	0	0.0
35	35.50	-0.50	-0.3
70	70.80	-0.80	-0.6
105	106.10	-1.10	-0.8
145	146.20	-1.20	-0.8

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.

Certificate of Calibration

Al Takamul Yard, North Rumailah South Iraq

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Date of Issue: July 16, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-14	

CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : WIKA
Model : EN837-1
Serial Number : **883429496**
Location : KOOMEY UNIT
Type : Analog
Range : 0 to 230 psi
Calibrated Range : 0 to 230 psi
Resolution : 5 psi
Accuracy : 1.6
Tolerance : ±1.6 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : July 16, 2024
Calibration Due : **15 July 2025**



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
psi	psi	psi	±
0	0	0	0.0
60	61.30	-1.30	-0.6
120	121.50	-1.50	-0.7
180	181.60	-1.60	-0.7
230	231.80	-1.80	-0.8

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.




Certificate of Calibration

Al Takamul Yard, North Rumailah South Iraq

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Date of Issue: July 16, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-15	

CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : MC
Model : 00000314
Serial Number : **180412664**
Location : KOOMEY UNIT
Type : Analog
Range : 0 to 230 psi
Calibrated Range : 0 to 230 psi
Resolution : 10 psi
Accuracy : 2.5
Tolerance : ±2.5 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : July 16, 2024
Calibration Due : **15 July 2025**



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
psi	psi	psi	±
0	0	0	0.0
60	59.20	0.80	0.3
120	119.30	0.70	0.3
180	179.60	0.40	0.2
230	229.50	0.50	0.2

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.

Certificate of Calibration

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Date of Issue: July 16, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-16	



CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : MC.
Model : 00000314
Serial Number : **19084425D**
Location : BOP CONTROL PANEL RIG FLOOR
Type : Analog
Range : 0 to 40 MPa
Calibrated Range : 0 to 40 MPa
Resolution : 0.5 MPa
Actual F/S Pressure : 0.2 MPa
Accuracy : 1.6
Tolerance : ± 1.6 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : July 16, 2024
Calibration Due : **15 July 2025**



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
MPa	MPa	MPa	±
0	0	0	0.0
10	10.05	-0.05	-0.1
20	20.07	-0.07	-0.2
30	30.08	-0.08	-0.2
40	40.11	-0.11	-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.



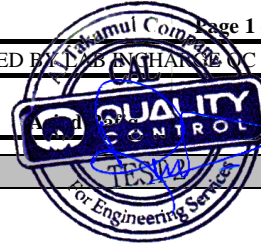
Certificate of Calibration

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Date of Issue: July 16, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-17	



CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : WIKA
Model : 0500119
Serial Number : **88012MQS**
Location : BOP CONTROL PANEL RIG FLOOR
Type : Analog
Range : 0 to 25 MPa
Calibrated Range : 0 to 25 MPa
Resolution : 0.5 MPa
Actual F/S Pressure : 0.2 MPa
Accuracy : 1.6
Tolerance : ± 1.6 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : July 16, 2024
Calibration Due : **15 July 2025**



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
MPa	MPa	MPa	±
0	0	0	0.0
6	6.08	-0.08	-0.3
12	12.10	-0.10	-0.4
18	18.12	-0.12	-0.5
25	25.15	-0.15	-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.



Certificate of Calibration

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Date of Issue: July 16, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-18	



CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : WIKA
Model : 0500119
Serial Number : **880181PL**
Location : BOP CONTROL PANEL RIG FLOOR
Type : Analog
Range : 0 to 40 MPa
Calibrated Range : 0 to 40 MPa
Resolution : 0.5 MPa
Actual F/S Pressure : 0.2 MPa
Accuracy : 1.6
Tolerance : ± 1.6 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : July 16, 2024
Calibration Due : **15 July 2025**



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
MPa	MPa	MPa	±
0	0	0	0.0
10	10.13	-0.13	-0.3
20	20.16	-0.16	-0.4
30	30.19	-0.19	-0.5
40	40.20	-0.20	-0.5

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.

Certificate of Calibration

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Date of Issue: July 16, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-19	

CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : WIKA
Model : 0500119
Serial Number : **88014AV6**
Location : BOP CONTROL PANEL RIG FLOOR
Type : Analog
Range : 0 to 230 MPa
Calibrated Range : 0 to 230 MPa
Resolution : 5 MPa
Accuracy : 1.6
Tolerance : ± 1.6 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : July 16, 2024
Calibration Due : **15 July 2025**



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
MPa	MPa	MPa	±
0	0	0	0.0
40	40.80	-0.80	-0.3
80	81.20	-1.20	-0.5
120	121.40	-1.40	-0.6
230	231.60	-1.60	-0.7

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.




Certificate of Calibration

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Date of Issue: July 16, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-20	

CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : WIKA
Model : EN837-1
Serial Number : **8801810J**
Location : BOP CONTROL PANEL RIG FLOOR
Type : Analog
Range : 0 to 230 MPa
Calibrated Range : 0 to 230 MPa
Resolution : 5 MPa
Accuracy : 1.6
Tolerance : ± 1.6 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : July 16, 2024
Calibration Due : **15 July 2025**



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
MPa	MPa	MPa	±
0	0	0	0.0
40	41.30	-1.30	-0.6
80	81.50	-1.50	-0.7
120	121.50	-1.50	-0.7
230	231.70	-1.70	-0.7

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.




Certificate of Calibration

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Date of Issue: July 16, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-21	

CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : MC
Model : 00000314
Serial Number : **2009203404**
Location : REMOT CONTROL PANEL
Type : Analog
Range : 0 to 50 MPa
Calibrated Range : 0 to 50 MPa
Resolution : 0.5 MPa
Accuracy : 1.6
Tolerance : ± 1.6 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : July 16, 2024
Calibration Due : **15 July 2025**



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
MPa	MPa	MPa	±
0.0	0.0	0.0	0.0
12.5	12.58	-0.08	-0.2
25.0	25.11	-0.11	-0.2
37.5	37.63	-0.13	-0.3
50.0	50.17	-0.17	-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.

Certificate of Calibration

Al Takamul Yard, North Rumailah South Iraq

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Date of Issue: July 16, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-22	

CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : MC
Model : 00000314
Serial Number : **2009203402**
Location : REMOT CONTROL PANEL
Type : Analog
Range : 0 to 50 MPa
Calibrated Range : 0 to 50 MPa
Resolution : 0.5 MPa
Accuracy : 1.6
Tolerance : ± 1.6 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : July 16, 2024
Calibration Due : **15 July 2025**



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
MPa	MPa	MPa	±
0.0	0.0	0.0	0.0
12.5	12.56	-0.06	-0.1
25.0	25.09	-0.09	-0.2
37.5	37.62	-0.12	-0.2
50.0	50.16	-0.16	-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.



Certificate of Calibration

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Date of Issue: July 16, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-23	

CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Position of Valve Gauge
Manufacturer : MC
Model : 00000286
Serial Number : **Y017010667**
Location : REMOT CONTROL PANEL
Type : Analog
Range : 3 psi (Close) to 15 psi (Open)
Calibrated Range : 3 psi (Close) to 15 psi (Open)
Resolution : NA
Accuracy : 1.5
Tolerance : ± 1.5 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : July 16, 2024
Calibration Due : **15 July 2025**



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
psi	psi	psi	±
0.0	0.0	0.0	0.0
3.0	3.00	0.00	0.0
15.0	15.00	0.00	0.0

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.

Certificate of Calibration

Al Takamul Yard, North Rumailah South Iraq

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Date of Issue: July 16, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-24	

CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Position of Valve Gauge
Manufacturer : MC
Model : 00000286
Serial Number : **Y017010641**
Location : REMOT CONTROL PANEL
Type : Analog
Range : 3 psi (Close) to 15 psi (Open)
Calibrated Range : 3 psi (Close) to 15 psi (Open)
Resolution : NA
Accuracy : 1.5
Tolerance : ± 1.5 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : July 16, 2024
Calibration Due : **15 July 2025**



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
psi	psi	psi	±
0.0	0.0	0.0	0.0
3.0	3.00	0.00	0.0
15.0	15.00	0.00	0.0

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.

Certificate of Calibration

Al Takamul Yard, North Rumailah South Iraq

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Date of Issue: July 16, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-25	

CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : MC
Model : 00000286
Serial Number : **L0179665**
Location : REMOT CONTROL PANEL
Type : Analog
Range : 0 to 870 psi
Calibrated Range : 0 to 870 psi
Resolution : 50 psi
Accuracy : 2.5
Tolerance : ± 2.5 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : July 16, 2024
Calibration Due : **15 July 2025**



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
psi	psi	psi	±
0.0	0.0	0.0	0.0
200.0	206.00	-6.00	-0.7
400.0	407.00	-7.00	-0.8
600.0	610.00	-10.00	-1.1
870.0	882.00	-12.00	-1.4

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.



Certificate of Calibration

Al Takamul Yard, North Rumailah South Iraq

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Date of Issue: July 16, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-26	

CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : MC
Model : 00000286
Serial Number : **L0178959**
Location : REMOT CONTROL PANEL
Type : Analog
Range : 0 to 140 psi
Calibrated Range : 0 to 140 psi
Resolution : 5 psi
Accuracy : 2.5
Tolerance : ± 2.5 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : July 16, 2024
Calibration Due : **15 July 2025**



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
psi	psi	psi	±
0.0	0.0	0.0	0.0
35.0	35.50	-0.50	-0.4
70.0	70.70	-0.70	-0.5
105.0	105.80	-0.80	-0.6
140.0	141.00	-1.00	-0.7

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.

Certificate of Calibration

Al Takamul Yard, North Rumailah South Iraq

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Date of Issue: July 16, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-27	

CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : MC
Model : 00000286
Serial Number : **L01789684**
Location : REMOT CONTROL PANEL
Type : Analog
Range : 0 to 230 psi
Calibrated Range : 0 to 230 psi
Resolution : 5 psi
Accuracy : 2.5
Tolerance : ± 2.5 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : July 16, 2024
Calibration Due : **15 July 2025**



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
psi	psi	psi	±
0.0	0.0	0.0	0.0
60.0	61.20	-1.20	-0.5
120.0	121.80	-1.80	-0.8
180.0	181.90	-1.90	-0.8
230.0	232.20	-2.20	-1.0

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.

Certificate of Calibration

Al Takamul Yard, North Rumailah South Iraq

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Date of Issue: July 16, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-29	

CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : WXPFG
Model : 02000144
Serial Number : **22064657**
Location : POWER TONG
Type : Analog
Range : 0 to 1.6 MPa
Calibrated Range : 0 to 1.6 MPa
Resolution : 0.05 MPa
Accuracy : 2.5
Tolerance : ± 2.5 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : July 16, 2024
Calibration Due : **15 July 2025**



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
MPa	MPa	MPa	±
0.0	0.0	0.0	0.0
0.4	0.40	0.00	0.0
0.8	0.81	-0.01	-0.6
1.2	1.21	-0.01	-0.6
1.6	1.61	-0.01	-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.



Certificate of Calibration

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Date of Issue: July 16, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-30	

CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : WXPFG
Model : 02000144
Serial Number : 21117372
Location : POWER TONG
Type : Analog
Range : 0 to 25 MPa
Calibrated Range : 0 to 25 MPa
Resolution : 0.5 MPa
Accuracy : 2.5
Tolerance : ± 2.5 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : July 16, 2024
Calibration Due : 15 July 2025



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
MPa	MPa	MPa	±
0.0	0.0	0.0	0.0
6.0	5.89	0.11	0.4
12.0	11.92	0.08	0.3
18.0	17.94	0.06	0.2
25.0	24.95	0.05	0.2

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.

Certificate of Calibration

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Date of Issue: July 16, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-31	

CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : MC
Model : 00000314
Serial Number : **CK3164**
Location : CHOK MANIFOLD
Type : Analog
Range : 0 to 10 MPa
Calibrated Range : 0 to 10 MPa
Resolution : 0.2 MPa
Accuracy : 2.5
Tolerance : ± 2.5 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : July 16, 2024
Calibration Due : **15 July 2025**



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
MPa	MPa	MPa	±
0.0	0.0	0.0	0.0
2.6	2.62	-0.02	-0.2
5.0	5.03	-0.03	-0.3
7.4	7.43	-0.03	-0.3
10.0	10.05	-0.05	-0.5

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.

Certificate of Calibration

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Date of Issue: July 16, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-32	

CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : MC
Model : 00000314
Serial Number : **CK3367**
Location : CHOK MANIFOLD
Type : Analog
Range : 0 to 40 MPa
Calibrated Range : 0 to 40 MPa
Resolution : 1 MPa
Accuracy : 1.6
Tolerance : ± 1.6 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : July 16, 2024
Calibration Due : **15 July 2025**



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
MPa	MPa	MPa	±
0.0	0.0	0.0	0.0
10.0	10.07	-0.07	-0.2
20.0	20.08	-0.08	-0.2
30.0	30.11	-0.11	-0.3
40.0	40.13	-0.13	-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.

Certificate of Calibration

Al Takamul Yard, North Rumailah South Iraq

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Date of Issue: July 16, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-33	

CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : VaccumGauge
Manufacturer : NA
Model : NA
Serial Number : **KC-013**
Location : VACUUM DEGASSER
Type : Analog
Range : 0 to -30 inHg
Calibrated Range : 0 to -30 inHg
Resolution : 0.5 inHg
Accuracy : NA
Tolerance : ± 1 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : July 16, 2024
Calibration Due : **15 July 2025**



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
inHg	inHg	inHg	±
0.0	0.0	0.0	0.0
5.0	5.03	-0.03	0.1
10.0	10.02	-0.02	0.1
20.0	20.02	-0.02	0.1
30.0	30.03	-0.03	0.1

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.

Certificate of Calibration

Al Takamul Yard, North Rumailah South Iraq

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Date of Issue: July 16, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-34	

CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : MC
Model : 00000314
Serial Number : **2110281149**
Location : DRAW WORKS
Type : Analog
Range : 0 to 25 MPa
Calibrated Range : 0 to 25 MPa
Resolution : 1 MPa
Accuracy : 2.5
Tolerance : ± 2.5 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : July 16, 2024
Calibration Due : **15 July 2025**



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
MPa	MPa	MPa	±
0.0	0.0	0.0	0.0
6.0	6.06	-0.06	-0.2
12.0	12.07	-0.07	-0.3
18.0	18.09	-0.09	-0.4
25.0	25.10	-0.10	-0.4

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.

Certificate of Calibration

Al Takamul Yard, North Rumailah South Iraq

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Date of Issue: July 16, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-35	

CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : **Pressure Gauge**
 Manufacturer : MC
 Model : 00000314
 Serial Number : **2108237082**
 Location : DRAW WORKS
 Type : Analog
 Range : 0 to 25 MPa
 Calibrated Range : 0 to 25 MPa
 Resolution : 1 MPa
 Accuracy : 2.5
 Tolerance : ± 2.5 % of Full Scale
 As found : In Tolerance
 Calibrated By : Asjad Rafiq
 Calibration Date : July 16, 2024
Calibration Due : 15 July 2025



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
MPa	MPa	MPa	±
0.0	0.0	0.0	0.0
6.0	6.03	-0.03	-0.1
12.0	12.05	-0.05	-0.2
18.0	18.05	-0.05	-0.2
25.0	25.08	-0.08	-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.

Certificate of Calibration

Al Takamul Yard, North Rumailah South Iraq

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Date of Issue: July 16, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-36	

CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : **Pressure Gauge**
 Manufacturer : MC
 Model : 00000658
 Serial Number : **1903A453**
 Location : MUD PUMP 1
 Type : Analog
 Range : 0 to 230 psi
 Calibrated Range : 0 to 230 psi
 Resolution : 5 psi
 Accuracy : 2.5
 Tolerance : ± 2.5 % of Full Scale
 As found : In Tolerance
 Calibrated By : Asjad Rafiq
 Calibration Date : July 16, 2024
Calibration Due : 15 July 2025



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
psi	psi	psi	±
0.0	0.0	0.0	0.0
60.0	61.30	-1.30	-0.6
120.0	121.50	-1.50	-0.7
180.0	181.70	-1.70	-0.7
230.0	232.90	-2.90	-1.3

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.

Certificate of Calibration

Al Takamul Yard, North Rumailah South Iraq

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Date of Issue: July 16, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-37	

CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : MC
Model : 00000658
Serial Number : **18078565**
Location : MUD PUMP 1
Type : Analog
Range : 0 to 1.6 MPa
Calibrated Range : 0 to 1.6 MPa
Resolution : 0.05 MPa
Accuracy : 2.5
Tolerance : ± 2.5 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : July 16, 2024
Calibration Due : **15 July 2025**



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
MPa	MPa	MPa	±
0.0	0.0	0.0	0.0
0.4	0.41	-0.01	-0.6
0.8	0.81	-0.01	-0.6
1.2	1.21	-0.01	-0.6
1.6	1.62	-0.02	-1.3

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.




Certificate of Calibration

Al Takamul Yard, North Rumailah South Iraq

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Date of Issue: July 16, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-38	

CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : MC
Model : 00000658
Serial Number : **180213175**
Location : MUD PUMP 1
Type : Analog
Range : 0 to 230 psi
Calibrated Range : 0 to 230 psi
Resolution : 5 psi
Accuracy : 2.5
Tolerance : ± 2.5 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : July 16, 2024
Calibration Due : **15 July 2025**



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
psi	psi	psi	±
0.0	0.0	0.0	0.0
60.0	59.20	0.80	0.3
120.0	119.30	0.70	0.3
180.0	179.50	0.50	0.2
230.0	229.40	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.

Certificate of Calibration

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Date of Issue: July 16, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-39	

CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : **Pressure Gauge**
Manufacturer : MC
Model : 00000314
Serial Number : **1908211351**
Location : MUD PUMP 1
Type : Analog
Range : 0 to 16 MPa
Calibrated Range : 0 to 16 MPa
Resolution : 0.5 MPa
Accuracy : 2.5
Tolerance : ± 2.5 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : July 16, 2024
Calibration Due : 15 July 2025



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
MPa	MPa	MPa	±
0.0	0.0	0.0	0.0
4.0	4.02	-0.02	-0.1
8.0	8.03	-0.03	-0.2
12.0	12.03	-0.03	-0.2
16.0	16.05	-0.05	-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.



Certificate of Calibration

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Date of Issue: July 16, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-40	

CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : MC
Model : 00000658
Serial Number : **1903A456**
Location : MUD PUMP 2
Type : Analog
Range : 0 to 230 psi
Calibrated Range : 0 to 230 psi
Resolution : 5 psi
Accuracy : 2.5
Tolerance : ± 2.5 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : July 16, 2024
Calibration Due : **15 July 2025**



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
psi	psi	psi	±
0.0	0.0	0.0	0.0
60.0	60.30	-0.30	-0.1
120.0	120.40	-0.40	-0.2
180.0	180.40	-0.40	-0.2
230.0	230.60	-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.



Certificate of Calibration

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Date of Issue: July 16, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-41	

CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : MC
Model : 00000314
Serial Number : **18021347D**
Location : MUD PUMP 2
Type : Analog
Range : 0 to 230 psi
Calibrated Range : 0 to 230 psi
Resolution : 10 psi
Accuracy : 2.5
Tolerance : ± 2.5 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : July 16, 2024
Calibration Due : **15 July 2025**



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
psi	psi	psi	±
0.0	0.0	0.0	0.0
60.0	61.20	-1.20	-0.5
120.0	121.30	-1.30	-0.6
180.0	181.50	-1.50	-0.7
230.0	231.60	-1.60	-0.7

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.

Certificate of Calibration

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Date of Issue: July 16, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-42	

CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : MC
Model : 00000314
Serial Number : **14113600H**
Location : MUD PUMP 2
Type : Analog
Range : 0 to 1.6 MPa
Calibrated Range : 0 to 1.6 MPa
Resolution : 0.05 MPa
Accuracy : 2.5
Tolerance : ± 2.5 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : July 16, 2024
Calibration Due : **15 July 2025**



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
MPa	MPa	MPa	±
0.0	0.0	0.0	0.0
0.4	0.40	0.00	0.0
0.8	0.80	0.00	0.0
1.2	1.21	-0.01	-0.6
1.6	1.61	-0.01	-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.



Certificate of Calibration

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Date of Issue: July 16, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-43	

CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : **Pressure Gauge**
 Manufacturer : MC
 Model : 00000314
 Serial Number : **2204201939**
 Location : MUD PUMP 3
 Type : Analog
 Range : 0 to 16 MPa
 Calibrated Range : 0 to 16 MPa
 Resolution : 0.5 MPa
 Accuracy : 2.5
 Tolerance : ± 2.5 % of Full Scale
 As found : In Tolerance
 Calibrated By : Asjad Rafiq
 Calibration Date : July 16, 2024
Calibration Due : 15 July 2025



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
MPa	MPa	MPa	±
0.0	0.0	0.0	0.0
4.0	4.02	-0.02	-0.1
8.0	8.03	-0.03	-0.2
12.0	12.05	-0.05	-0.3
16.0	16.06	-0.06	-0.4

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.



Certificate of Calibration

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Date of Issue: July 16, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-44	

CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : MC
Model : 00000658
Serial Number : **1908074477**
Location : MUD PUMP 3
Type : Analog
Range : 0 to 230 psi
Calibrated Range : 0 to 230 psi
Resolution : 5 psi
Accuracy : 2.5
Tolerance : ± 2.5 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : July 16, 2024
Calibration Due : **15 July 2025**



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
psi	psi	psi	±
0.0	0.0	0.0	0.0
60.0	60.80	-0.80	-0.3
120.0	120.90	-0.90	-0.4
180.0	181.20	-1.20	-0.5
230.0	231.30	-1.30	-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.

Certificate of Calibration

Al Takamul Yard, North Rumailah South Iraq

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Date of Issue: July 16, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-45	

CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : MC
Model : 00000314
Serial Number : **1908011350**
Location : MUD PUMP 2
Type : Analog
Range : 0 to 16 MPa
Calibrated Range : 0 to 16 MPa
Resolution : 0.5 MPa
Accuracy : 2.5
Tolerance : ± 2.5 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : July 16, 2024
Calibration Due : **15 July 2025**



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
MPa	MPa	MPa	±
0.0	0.0	0.0	0.0
4.0	4.03	-0.03	-0.2
8.0	8.05	-0.05	-0.3
12.0	12.05	-0.05	-0.3
16.0	16.07	-0.07	-0.4

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.

Certificate of Calibration

Al Takamul Yard, North Rumailah South Iraq

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Date of Issue: July 16, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-46	

CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : MC
Model : 00000314
Serial Number : **18023168D**
Location : MUD PUMP 3
Type : Analog
Range : 0 to 230 psi
Calibrated Range : 0 to 230 psi
Resolution : 5 psi
Accuracy : 2.5
Tolerance : ± 2.5 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : July 16, 2024
Calibration Due : **15 July 2025**



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
psi	psi	psi	±
0.0	0.0	0.0	0.0
60.0	61.20	-1.20	-0.5
120.0	121.40	-1.40	-0.6
180.0	181.50	-1.50	-0.7
230.0	231.50	-1.50	-0.7

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.

Certificate of Calibration

Al Takamul Yard, North Rumailah South Iraq

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Date of Issue: July 16, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-47	

CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : MC
Model : 00000658
Serial Number : **18125193**
Location : MUD PUMP 3
Type : Analog
Range : 0 to 1.6 MPa
Calibrated Range : 0 to 1.6 MPa
Resolution : 0.05 MPa
Accuracy : 2.5
Tolerance : ± 2.5 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : July 16, 2024
Calibration Due : **15 July 2025**



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
MPa	MPa	MPa	±
0.0	0.0	0.0	0.0
0.4	0.39	0.01	0.6
0.8	0.79	0.01	0.6
1.2	1.20	0.00	0.0
1.6	1.60	0.00	0.0

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.



Certificate of Calibration

Al Takamul Yard, North Rumailah South Iraq

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Date of Issue: July 17, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-48	

CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : MC
Model : 00000314
Serial Number : **2007230325**
Location : MIXING TANK
Type : Analog
Range : 0 to 230 psi
Calibrated Range : 0 to 230 psi
Resolution : 5 psi
Accuracy : 2.5
Tolerance : ± 2.5 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : July 17, 2024
Calibration Due : **16 July 2025**



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
psi	psi	psi	±
0.0	0.0	0.0	0.0
60.0	58.80	1.20	0.5
120.0	118.90	1.10	0.5
180.0	179.20	0.80	0.3
230.0	229.40	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.

Certificate of Calibration

Al Takamul Yard, North Rumailah South Iraq

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Date of Issue: July 17, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-49	

CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : MC
Model : 00000314
Serial Number : **1803083066**
Location : MIXING TANK
Type : Analog
Range : 0 to 230 psi
Calibrated Range : 0 to 230 psi
Resolution : 5 psi
Accuracy : 2.5
Tolerance : ± 2.5 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : July 17, 2024
Calibration Due : **16 July 2025**



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
psi	psi	psi	±
0.0	0.0	0.0	0.0
60.0	60.30	-0.30	-0.1
120.0	120.50	-0.50	-0.2
180.0	180.60	-0.60	-0.3
230.0	230.80	-0.80	-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.

Certificate of Calibration

Al Takamul Yard, North Rumailah South Iraq

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Date of Issue: July 17, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-50	

CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : **Pressure Gauge**
 Manufacturer : MC
 Model : 00000314
 Serial Number : **2007230323**
 Location : MIXING TANK
 Type : Analog
 Range : 0 to 230 psi
 Calibrated Range : 0 to 230 psi
 Resolution : 5 psi
 Accuracy : 2.5
 Tolerance : ± 2.5 % of Full Scale
 As found : In Tolerance
 Calibrated By : Asjad Rafiq
 Calibration Date : July 17, 2024
Calibration Due : 16 July 2025



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
psi	psi	psi	±
0.0	0.0	0.0	0.0
60.0	61.20	-1.20	-0.5
120.0	121.40	-1.40	-0.6
180.0	181.50	-1.50	-0.7
230.0	231.70	-1.70	-0.7

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.

Certificate of Calibration

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Date of Issue: July 17, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-51	

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 : EN837-1
Serial Number : **18163373**
Location : POOR BOY
Type : Analog
Range : 0 to 10 BAR
Calibrated Range : 0 to 10 BAR
Resolution : 0.1 BAR
Accuracy : NA
Tolerance : ± 1 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : July 17, 2024
Calibration Due : **16 July 2025**



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
BAR	BAR	BAR	±
0.0	0.0	0.0	0.0
2.5	2.52	-0.02	-0.2
5.0	5.03	-0.03	-0.3
7.5	7.53	-0.03	-0.3
10.0	10.04	-0.04	-0.4

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.

Certificate of Calibration

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Date of Issue: July 17, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-52	

CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : NOSHOK
Model : NA
Serial Number : PG-MC-03
Location : MUD CLEANER
Type : Analog
Range : 0 to 100 psi
Calibrated Range : 0 to 100 psi
Resolution : 2 psi
Accuracy : NA
Tolerance : ± 1 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : July 17, 2024
Calibration Due : **16 July 2025**



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
psi	psi	psi	±
0.0	0.0	0.0	0.0
24.0	24.30	-0.30	-0.3
50.0	50.50	-0.50	-0.5
74.0	74.50	-0.50	-0.5
100.0	100.70	-0.70	-0.7

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.

Certificate of Calibration

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Date of Issue: July 17, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-53	

CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : NOSHOK
Model : NA
Serial Number : PG-MC-01
Location : MUD CLEANER
Type : Analog
Range : 0 to 100 psi
Calibrated Range : 0 to 100 psi
Resolution : 2 psi
Accuracy : NA
Tolerance : ± 1 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : July 17, 2024
Calibration Due : **16 July 2025**



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
psi	psi	psi	±
0.0	0.0	0.0	0.0
24.0	24.10	-0.10	-0.1
50.0	50.20	-0.20	-0.2
74.0	74.30	-0.30	-0.3
100.0	100.30	-0.30	-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.



Certificate of Calibration

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Date of Issue: July 17, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-54	

CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : MC
Model : 00000658
Serial Number : **18106778**
Location : FIRE PUMP RS
Type : Analog
Range : 0 to 1.6 MPa
Calibrated Range : 0 to 1.6 MPa
Resolution : 0.05 MPa
Accuracy : 2.5
Tolerance : ± 2.5 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : July 17, 2024
Calibration Due : **16 July 2025**



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
MPa	MPa	MPa	±
0.0	0.0	0.0	0.0
0.4	0.39	0.01	0.6
0.8	0.79	0.01	0.6
1.2	1.20	0.00	0.0
1.6	1.60	0.00	0.0

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.



Certificate of Calibration

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Date of Issue: July 17, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-55	

CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : RAJTECH
Model : EN837-1
Serial Number : 215428F
Location : FIRE PUMP CS
Type : Analog
Range : 0 to 350 psi
Calibrated Range : 0 to 350 psi
Resolution : 5 psi
Accuracy : 1.6
Tolerance : ± 1.6 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : July 17, 2024
Calibration Due : 16 July 2025



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
psi	psi	psi	±
0.0	0.0	0.0	0.0
90.0	91.20	-1.20	-0.3
180.0	181.30	-1.30	-0.4
270.0	271.30	-1.30	-0.4
350.0	351.50	-1.50	-0.4

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.




Certificate of Calibration

Al Takamul Yard, North Rumailah South Iraq

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Date of Issue: July 17, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-56	

CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : MC
Model : 02000328
Serial Number : **13100537F**
Location : WATER TANK RS
Type : Analog
Range : 0 to 145 psi
Calibrated Range : 0 to 145 psi
Resolution : 5 psi
Accuracy : 2.5
Tolerance : ± 2.5 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : July 17, 2024
Calibration Due : **16 July 2025**



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
psi	psi	psi	±
0.0	0.0	0.0	0.0
35.0	35.70	-0.70	-0.5
70.0	70.90	-0.90	-0.6
105.0	106.10	-1.10	-0.8
145.0	146.30	-1.30	-0.9

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.

Certificate of Calibration

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Date of Issue: July 17, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-57	

CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : MC
Model : 02000328
Serial Number : **13100550F**
Location : WATER TANK CS
Type : Analog
Range : 0 to 145 psi
Calibrated Range : 0 to 145 psi
Resolution : 5 psi
Accuracy : 2.5
Tolerance : ± 2.5 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : July 17, 2024
Calibration Due : **16 July 2025**



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
psi	psi	psi	±
0.0	0.0	0.0	0.0
35.0	35.30	-0.30	-0.2
70.0	70.40	-0.40	-0.3
105.0	105.50	-0.50	-0.3
145.0	145.70	-0.70	-0.5

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.

Certificate of Calibration

Al Takamul Yard, North Rumailah South Iraq

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Date of Issue: July 17, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-58	

CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : DANO
Model : EN837-1
Serial Number : CAL-PG-2901
Location : WATER TANK RS
Type : Analog
Range : 0 to 16 MPa
Calibrated Range : 0 to 16 MPa
Resolution : 0.5 MPa
Accuracy : 1.6
Tolerance : ± 1.6 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : July 17, 2024
Calibration Due : **16 July 2025**



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
MPa	MPa	MPa	±
0.0	0.0	0.0	0.0
4.0	4.05	-0.05	-0.3
8.0	8.08	-0.08	-0.5
12.0	12.07	-0.07	-0.4
16.0	16.09	-0.09	-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.




Certificate of Calibration

Al Takamul Yard, North Rumailah South Iraq

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Date of Issue: July 17, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-59	

CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : DANO
Model : EN837-1
Serial Number : CAL-PG-2902
Location : WATER TANK CS
Type : Analog
Range : 0 to 16 MPa
Calibrated Range : 0 to 16 MPa
Resolution : 0.5 MPa
Accuracy : 1.6
Tolerance : ± 1.6 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : July 17, 2024
Calibration Due : 16 July 2025



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
MPa	MPa	MPa	±
0.0	0.0	0.0	0.0
4.0	4.07	-0.07	-0.4
8.0	8.08	-0.08	-0.5
12.0	12.10	-0.10	-0.6
16.0	16.12	-0.12	-0.8

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.

Certificate of Calibration

Al Takamul Yard, North Rumailah South Iraq

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Date of Issue: July 17, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-60	

CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : MC
Model : 00000314
Serial Number : **18020468D**
Location : HPU RIG FLOOR
Type : Analog
Range : 0 to 580 psi
Calibrated Range : 0 to 580 psi
Resolution : 20 psi
Accuracy : 2.5
Tolerance : ± 2.5 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : July 17, 2024
Calibration Due : **16 July 2025**



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
psi	psi	psi	±
0.0	0.0	0.0	0.0
160.0	162.30	-2.30	-0.4
300.0	305.20	-5.20	-0.9
440.0	443.60	-3.60	-0.6
580.0	585.80	-5.80	-1.0

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.




Certificate of Calibration

Al Takamul Yard, North Rumailah South Iraq

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Date of Issue: July 17, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-61	

CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : MC
Model : 00000658
Serial Number : **1904H192**
Location : HPU RIG FLOOR
Type : Analog
Range : 0 to 40 MPa
Calibrated Range : 0 to 40 MPa
Resolution : 1 MPa
Accuracy : 2.5
Tolerance : ± 2.5 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : July 17, 2024
Calibration Due : **16 July 2025**



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
MPa	MPa	MPa	±
0.0	0.0	0.0	0.0
10.0	10.05	-0.05	-0.1
20.0	20.07	-0.07	-0.2
30.0	30.07	-0.07	-0.2
40.0	40.09	-0.09	-0.2

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.

Certificate of Calibration

Al Takamul Yard, North Rumailah South Iraq

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Date of Issue: July 17, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-62	

CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : WIKA
Model : 0500119
Serial Number : **880YE6L**
Location : BOP CONTROL PANEL DSV
Type : Analog
Range : 0 to 230 psi
Calibrated Range : 0 to 230 psi
Resolution : 10 psi
Accuracy : 1.6
Tolerance : ± 1.6 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : July 17, 2024
Calibration Due : **16 July 2025**



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
psi	psi	psi	±
0.0	0.0	0.0	0.0
60.0	58.60	1.40	0.6
120.0	118.70	1.30	0.6
180.0	178.90	1.10	0.5
230.0	229.20	0.80	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.




Certificate of Calibration

Al Takamul Yard, North Rumailah South Iraq

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Date of Issue: July 17, 2024

REQUEST NUMBER	: By Contract	APPROVED BY:  ENGHAR ALI
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-63	



CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : WIKA
Model : 0500119
Serial Number : **880181QR**
Location : BOP CONTROL PANEL DSV
Type : Analog
Range : 0 to 40 MPa
Calibrated Range : 0 to 40 MPa
Resolution : 1 MPa
Actual F/S Pressure : 0.2 MPa
Accuracy : 1.6
Tolerance : ± 1.6 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : July 17, 2024
Calibration Due : **16 July 2025**



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
MPa	MPa	MPa	±
0.0	0.0	0.0	0.0
10.0	10.12	-0.12	-0.3
20.0	20.14	-0.14	-0.4
30.0	30.15	-0.15	-0.4
40.0	40.17	-0.17	-0.4

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.




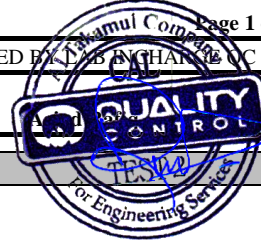
Certificate of Calibration

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Date of Issue: July 17, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-64	



CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : MC
Model : 00000314
Serial Number : **19084431D**
Location : BOP CONTROL PANEL DSV
Type : Analog
Range : 0 to 40 MPa
Calibrated Range : 0 to 40 MPa
Resolution : 1 MPa
Actual F/S Pressure : 0.2 MPa
Accuracy : 1.6
Tolerance : ± 1.6 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : July 17, 2024
Calibration Due : **16 July 2025**



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
MPa	MPa	MPa	±
0.0	0.0	0.0	0.0
10.0	10.08	-0.08	-0.2
20.0	20.12	-0.12	-0.3
30.0	30.14	-0.14	-0.4
40.0	40.18	-0.18	-0.4

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.



Certificate of Calibration

Al Takamul Yard, North Rumailah South Iraq

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Date of Issue: July 17, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-65	



CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : WIKA
Model : 0500119
Serial Number : **88012MQ4**
Location : BOP CONTROL PANEL DSV
Type : Analog
Range : 0 to 25 MPa
Calibrated Range : 0 to 25 MPa
Resolution : 0.5 MPa
Actual F/S Pressure : 0.2 MPa
Accuracy : 1.6
Tolerance : ± 1.6 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : July 17, 2024
Calibration Due : **16 July 2025**



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
MPa	MPa	MPa	±
0.0	0.0	0.0	0.0
6.0	6.04	-0.04	-0.2
12.0	12.06	-0.06	-0.2
18.0	18.07	-0.07	-0.3
25.0	25.11	-0.11	-0.4

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.




Certificate of Calibration

Al Takamul Yard, North Rumailah South Iraq

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Date of Issue: July 17, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-66	

CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : WIKA
Model : EN837-1
Serial Number : **889026004**
Location : BOP CONTROL PANEL DSV
Type : Analog
Range : 0 to 230 psi
Calibrated Range : 0 to 230 psi
Resolution : 5 psi
Accuracy : 1.6
Tolerance : ± 1.6 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : July 17, 2024
Calibration Due : **16 July 2025**



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
psi	psi	psi	±
0.0	0.0	0.0	0.0
60.0	59.30	0.70	0.3
120.0	119.40	0.60	0.3
180.0	179.50	0.50	0.2
230.0	229.70	0.30	0.1

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.

Certificate of Calibration

Al Takamul Yard, North Rumailah South Iraq

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Date of Issue: July 17, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-67	



CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : **Weight Indicator**
Manufacturer : MD Totco
Model : WA71-33
Serial Number : **1234824**
Location : DRILLER CABIN
Type : Analog
Range : 0 to 4900 kN
Calibrated Range : 0 to 4900 kN
Resolution : 50 kN
Full Scale Pressure : 990 psi
Accuracy : NA
Tolerance : ± 1 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : July 17, 2024
Calibration Due : **16 July 2025**



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
kN	kN	kN	±
0.0	0.0	0.0	0.0
1250.0	1255.00	-5.00	-0.1
2500.0	2506.00	-6.00	-0.1
1650.0	1655.00	-5.00	-0.1
4900.0	4907.00	-7.00	-0.1

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.




Certificate of Calibration

Al Takamul Yard, North Rumailah South Iraq

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Date of Issue: July 17, 2024

REQUEST NUMBER	: By Contract	APPROVED BY:  ENGHAR ALI
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-68	



CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : **Tong Torque Gauge**
Manufacturer : MD Totco
Model : 10128214-001
Serial Number : **194316378**
Location : DRILLER CABIN
Type : Analog
Range : 0 to 133 kN
Calibrated Range : 0 to 133 kN
Resolution : 1 kN
Full Scale Pressure : 2768.4 psi
Accuracy : NA
Tolerance : ± 1 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : July 17, 2024
Calibration Due : **16 July 2025**



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
kN	kN	kN	±
0.0	0.0	0.0	0.0
30.0	30.30	-0.30	-0.2
65.0	65.50	-0.50	-0.4
100.0	100.50	-0.50	-0.4
133.0	133.60	-0.60	-0.5

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.

Certificate of Calibration

Al Takamul Yard, North Rumailah South Iraq

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Date of Issue: July 17, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-69	

CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : MD Totco
Model : 10128198-001
Serial Number : **21-4362013**
Location : DRILLER CABIN
Type : Analog
Range : 0 to 7500 psi
Calibrated Range : 0 to 7500 psi
Resolution : 200 psi
Accuracy : NA
Tolerance : ± 1 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : July 17, 2024
Calibration Due : **16 July 2025**



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
psi	psi	psi	±
0.0	0.0	0.0	0.0
1800.0	1816.00	-16.00	-0.2
3800.0	3820.00	-20.00	-0.3
5600.0	5621.00	-21.00	-0.3
7500.0	7523.00	-23.00	-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.

Certificate of Calibration

Al Takamul Yard, North Rumailah South Iraq

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Date of Issue: July 17, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-70	

CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Torque Gauge
Manufacturer : Zhejiang Zhongheng
Model : ZQ100
Serial Number : **22044569**
Location : DRILLER CABIN
Type : Analog
Range : 0 to 20 MPa
Calibrated Range : 0 to 20 MPa
Resolution : 1 MPa
Accuracy : 2.5
Tolerance : ± 2.5 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : July 17, 2024
Calibration Due : **16 July 2025**



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
MPa	MPa	MPa	±
0.0	0.0	0.0	0.0
5.0	5.03	-0.03	-0.2
10.0	10.03	-0.03	-0.1
15.0	15.05	-0.05	-0.3
20.0	20.06	-0.06	-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.




Certificate of Calibration

Al Takamul Yard, North Rumailah South Iraq

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Date of Issue: July 18, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-71	

CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : NOSHOK
Model : NA
Serial Number : DT001F
Location : DIESEL TANK RS
Type : Analog
Range : 0 to 100 psi
Calibrated Range : 0 to 100 psi
Resolution : 2 psi
Accuracy : NA
Tolerance : ± 1 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : July 18, 2024
Calibration Due : 17 July 2025



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
psi	psi	psi	±
0.0	0.0	0.0	0.0
24.0	24.60	-0.60	-0.6
50.0	50.60	-0.60	-0.6
76.0	76.50	-0.50	-0.5
100.0	100.70	-0.70	-0.7

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.

Certificate of Calibration

Al Takamul Yard, North Rumailah South Iraq

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Date of Issue: July 18, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-72	

CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : NOSHOK
Model : NA
Serial Number : DT002F
Location : DIESEL TANK RS
Type : Analog
Range : 0 to 100 psi
Calibrated Range : 0 to 100 psi
Resolution : 2 psi
Accuracy : NA
Tolerance : ± 1 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : July 18, 2024
Calibration Due : 17 July 2025



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
psi	psi	psi	±
0.0	0.0	0.0	0.0
24.0	24.30	-0.30	-0.3
50.0	50.40	-0.40	-0.4
76.0	76.40	-0.40	-0.4
100.0	100.60	-0.60	-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.

Certificate of Calibration

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Date of Issue: July 18, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-73	

CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : NOSHOK
Model : NA
Serial Number : PG-MC-02
Location : DIESEL TANK RS
Type : Analog
Range : 0 to 100 psi
Calibrated Range : 0 to 100 psi
Resolution : 2 psi
Accuracy : NA
Tolerance : ± 1 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : July 18, 2024
Calibration Due : 17 July 2025



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
psi	psi	psi	±
0.0	0.0	0.0	0.0
24.0	23.50	0.50	0.5
50.0	49.60	0.40	0.4
76.0	75.50	0.50	0.5
100.0	99.70	0.30	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.




Certificate of Calibration

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Date of Issue: July 18, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-74	

CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : WIKA
Model : EN837-1
Serial Number : 6435042
Location : AIR COMPRESSOR
Type : Analog
Range : 0 to 1.6 MPa
Calibrated Range : 0 to 1.6 MPa
Resolution : 0.05 MPa
Accuracy : 1.6
Tolerance : ± 1.6 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : July 18, 2024
Calibration Due : 17 July 2025



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
MPa	MPa	MPa	±
0.0	0.0	0.0	0.0
0.4	0.40	0.00	0.0
0.8	0.80	0.00	0.0
1.2	1.20	0.00	0.0
1.6	1.61	-0.01	-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.



Certificate of Calibration

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Date of Issue: July 18, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-75	

CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : WIKA
Model : EN837-1
Serial Number : 6435044
Location : AIR COMPRESSOR
Type : Analog
Range : 0 to 1.6 MPa
Calibrated Range : 0 to 1.6 MPa
Resolution : 0.05 MPa
Accuracy : 1.6
Tolerance : ± 1.6 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : July 18, 2024
Calibration Due : 17 July 2025



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
MPa	MPa	MPa	±
0.0	0.0	0.0	0.0
0.4	0.41	-0.01	-0.6
0.8	0.81	-0.01	-0.6
1.2	1.21	-0.01	-0.6
1.6	1.61	-0.01	-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.

Certificate of Calibration

Al Takamul Yard, North Rumailah South Iraq

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Date of Issue: July 18, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-76	

CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : MC
Model : 00000314
Serial Number : 2108202313
Location : CAT WALK
Type : Analog
Range : 0 to 40 MPa
Calibrated Range : 0 to 40 MPa
Resolution : 2 MPa
Accuracy : 1.6
Tolerance : ± 1.6 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : July 18, 2024
Calibration Due : 17 July 2025



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
MPa	MPa	MPa	±
0.0	0.0	0.0	0.0
10.0	10.14	-0.14	-0.4
20.0	20.16	-0.16	-0.4
30.0	30.16	-0.16	-0.4
40.0	40.18	-0.18	-0.4

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.

Certificate of Calibration

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Date of Issue: July 18, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-77	

CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : MC
Model : 00000314
Serial Number : 2109230835
Location : CAT WALK
Type : Analog
Range : 0 to 10 MPa
Calibrated Range : 0 to 10 MPa
Resolution : 0.5 MPa
Accuracy : 1.6
Tolerance : ± 1.6 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : July 18, 2024
Calibration Due : 17 July 2025



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
MPa	MPa	MPa	±
0.0	0.0	0.0	0.0
2.5	2.53	-0.03	-0.3
5.0	5.05	-0.05	-0.5
7.5	7.56	-0.06	-0.6
10.0	10.08	-0.08	-0.8

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.




Certificate of Calibration

Al Takamul Yard, North Rumailah South Iraq

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Date of Issue: July 18, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-78	

CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : ZFYB
Model : NA
Serial Number : CAL-PG-0825
Location : DIESEL TANK
Type : Analog
Range : 0 to 145 psi
Calibrated Range : 0 to 145 psi
Resolution : 5 psi
Accuracy : NA
Tolerance : ± 1 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : July 18, 2024
Calibration Due : 17 July 2025



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
psi	psi	psi	±
0.0	0.0	0.0	0.0
35.0	35.60	-0.60	-0.4
70.0	70.60	-0.60	-0.4
105.0	105.70	-0.70	-0.5
145.0	145.80	-0.80	-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.




Certificate of Calibration

Al Takamul Yard, North Rumailah South Iraq

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Date of Issue: July 18, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-79	

CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : ZFYB
Model : NA
Serial Number : CAL-PG-0826
Location : DIESEL TANK
Type : Analog
Range : 0 to 145 psi
Calibrated Range : 0 to 145 psi
Resolution : 5 psi
Accuracy : NA
Tolerance : ± 1 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : July 18, 2024
Calibration Due : 17 July 2025



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
psi	psi	psi	±
0.0	0.0	0.0	0.0
35.0	35.30	-0.30	-0.2
70.0	70.50	-0.50	-0.3
105.0	105.50	-0.50	-0.3
145.0	145.70	-0.70	-0.5

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.

Certificate of Calibration

Al Takamul Yard, North Rumailah South Iraq

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Date of Issue: July 18, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-80	

CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : MC
Model : NA
Serial Number : 18033344
Location : TRIP TANK
Type : Analog
Range : 0 to 1 MPa
Calibrated Range : 0 to 1 MPa
Resolution : 0.02 MPa
Accuracy : 2.5
Tolerance : ± 2.5 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : July 18, 2024
Calibration Due : 17 July 2025



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
MPa	MPa	MPa	±
0.0	0.0	0.0	0.0
0.2	0.20	0.00	0.0
0.6	0.60	0.00	0.0
0.8	0.80	0.00	0.0
1.0	1.01	-0.01	-1.0

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.

Certificate of Calibration

Al Takamul Yard, North Rumailah South Iraq

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Date of Issue: July 18, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-81	

CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : **Pressure Gauge**
 Manufacturer : MC
 Model : NA
 Serial Number : 1803083065
 Location : INTERMEDIATE TANK
 Type : Analog
 Range : 0 to 1 MPa
 Calibrated Range : 0 to 1 MPa
 Resolution : 0.05 MPa
 Accuracy : 2.5
 Tolerance : ± 2.5 % of Full Scale
 As found : In Tolerance
 Calibrated By : Asjad Rafiq
 Calibration Date : July 18, 2024
Calibration Due : 17 July 2025



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
MPa	MPa	MPa	±
0.0	0.0	0.0	0.0
0.2	0.20	0.00	0.0
0.6	0.60	0.00	0.0
0.8	0.81	-0.01	-1.0
1.0	1.01	-0.01	-1.0

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.

Certificate of Calibration

Al Takamul Yard, North Rumailah South Iraq

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Date of Issue: July 18, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-82	

CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : MC
Model : NA
Serial Number : 1803083062
Location : INTERMEDIATE TANK
Type : Analog
Range : 0 to 1 MPa
Calibrated Range : 0 to 1 MPa
Resolution : 0.05 MPa
Accuracy : 2.5
Tolerance : ± 2.5 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : July 18, 2024
Calibration Due : **17 July 2025**



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
MPa	MPa	MPa	±
0.0	0.0	0.0	0.0
0.2	0.20	0.00	0.0
0.6	0.60	0.00	0.0
0.8	0.80	0.00	0.0
1.0	1.01	-0.01	-1.0

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.




Certificate of Calibration

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Date of Issue: July 18, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-85	

CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : **Pressure Gauge**
 Manufacturer : YYFLT
 Model : NA
 Serial Number : CAL-PG-2905
 Location : CAMP WATER TANK
 Type : Analog
 Range : 0 to 1 MPa
 Calibrated Range : 0 to 1 MPa
 Resolution : 0.02 MPa
 Accuracy : NA
 Tolerance : ± 1 % of Full Scale
 As found : In Tolerance
 Calibrated By : Asjad Rafiq
 Calibration Date : July 18, 2024
Calibration Due : 17 July 2025



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
MPa	MPa	MPa	±
0.0	0.0	0.0	0.0
0.25	0.25	-0.01	-0.5
0.50	0.50	0.00	0.0
0.75	0.76	-0.01	-1.0
1.00	1.01	-0.01	-1.0

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.



Certificate of Calibration

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Date of Issue: July 18, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-86	

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-PG-0827
Location : MAN RIDER
Type : Analog
Range : 0 to 150 psi
Calibrated Range : 0 to 150 psi
Resolution : 2 psi
Accuracy : NA
Tolerance : ± 1 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : July 18, 2024
Calibration Due : 17 July 2025



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
psi	psi	psi	±
0.0	0.0	0.0	0.0
40.0	40.70	-0.70	-0.5
80.0	80.80	-0.80	-0.5
120.0	120.80	-0.80	-0.5
150.0	151.10	-1.10	-0.7

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.

Certificate of Calibration

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Date of Issue: July 18, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-87	

CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : HONGQI
Model : NA
Serial Number : HC71581208850
Location : AIR WINCH
Type : Analog
Range : 0 to 1 MPa
Calibrated Range : 0 to 1 MPa
Resolution : 0.02 MPa
Accuracy : 2.5
Tolerance : ± 2.5 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : July 18, 2024
Calibration Due : 17 July 2025



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
MPa	MPa	MPa	±
0.0	0.0	0.0	0.0
0.25	0.25	0.00	0.0
0.50	0.50	0.00	0.0
0.75	0.76	-0.01	-1.0
1.00	1.01	-0.01	-1.0

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.




Certificate of Calibration

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Date of Issue: July 18, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-88	

CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : **Pressure Gauge**
 Manufacturer : HONGQI
 Model : NA
 Serial Number : HC71581208885
 Location : AIR WINCH
 Type : Analog
 Range : 0 to 1 MPa
 Calibrated Range : 0 to 1 MPa
 Resolution : 0.02 MPa
 Accuracy : 2.5
 Tolerance : ± 2.5 % of Full Scale
 As found : In Tolerance
 Calibrated By : Asjad Rafiq
 Calibration Date : July 18, 2024
Calibration Due : 17 July 2025



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
MPa	MPa	MPa	±
0.0	0.0	0.0	0.0
0.25	0.25	0.00	0.0
0.50	0.50	0.00	0.0
0.75	0.75	0.00	0.0
1.00	1.01	-0.01	-1.0

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.



Certificate of Calibration

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Date of Issue: July 18, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-90	

CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : MC
Model : NA
Serial Number : 10001006
Location : CHOKE CONTROL PANEL
Type : Analog
Range : 0 to 150 psi
Calibrated Range : 0 to 150 psi
Resolution : 5 psi
Accuracy : 2.5
Tolerance : ± 2.5 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : July 18, 2024
Calibration Due : 17 July 2025



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
psi	psi	psi	±
0.0	0.0	0.0	0.0
40.0	40.50	-0.50	-0.3
80.0	80.60	-0.60	-0.4
120.0	120.60	-0.60	-0.4
150.0	150.80	-0.80	-0.5

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.



Certificate of Calibration

Al Takamul Yard, North Rumailah South Iraq

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Date of Issue: July 18, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-91	

CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : USG
Model : NA
Serial Number : CC0A6
Location : CASCADE UNIT
Type : Analog
Range : 0 to 600 psi
Calibrated Range : 0 to 600 psi
Resolution : 10 psi
Accuracy : NA
Tolerance : ± 1 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : July 18, 2024
Calibration Due : 17 July 2025



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
psi	psi	psi	±
0.0	0.0	0.0	0.0
150.0	152.20	-2.20	-0.4
300.0	302.50	-2.50	-0.4
450.0	452.60	-2.60	-0.4
600.0	603.20	-3.20	-0.5

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.

Certificate of Calibration

Al Takamul Yard, North Rumailah South Iraq

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Date of Issue: July 18, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-92	

CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : USG
Model : NA
Serial Number : CC0A1
Location : CASCADE UNIT
Type : Analog
Range : 0 to 6000 psi
Calibrated Range : 0 to 6000 psi
Resolution : 100 psi
Accuracy : NA
Tolerance : ± 1 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : July 18, 2024
Calibration Due : 17 July 2025



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
psi	psi	psi	±
0.0	0.0	0.0	0.0
1500.0	1507.00	-7.00	-0.1
3000.0	3008.00	-8.00	-0.1
4500.0	4508.00	-8.00	-0.1
6000.0	6011.00	-11.00	-0.2

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.

Certificate of Calibration

Al Takamul Yard, North Rumailah South Iraq

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Date of Issue: July 18, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-93	

CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : USG
Model : NA
Serial Number : CC0A2
Location : CASCADE UNIT
Type : Analog
Range : 0 to 600 psi
Calibrated Range : 0 to 600 psi
Resolution : 10 psi
Accuracy : NA
Tolerance : ± 1 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : July 18, 2024
Calibration Due : 17 July 2025



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
psi	psi	psi	±
0.0	0.0	0.0	0.0
150.0	152.00	-2.00	-0.3
300.0	302.30	-2.30	-0.4
450.0	453.60	-3.60	-0.6
600.0	605.30	-5.30	-0.9

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.

Certificate of Calibration

Al Takamul Yard, North Rumailah South Iraq

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Date of Issue: July 18, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-94	

CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : USG
Model : NA
Serial Number : CC600A3
Location : CASCADE UNIT
Type : Analog
Range : 0 to 6000 psi
Calibrated Range : 0 to 6000 psi
Resolution : 100 psi
Accuracy : NA
Tolerance : ± 1 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : July 18, 2024
Calibration Due : 17 July 2025



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
psi	psi	psi	±
0.0	0.0	0.0	0.0
1500.0	1485.00	15.00	0.3
3000.0	2984.00	16.00	0.3
4500.0	4486.00	14.00	0.2
6000.0	5989.00	11.00	0.2

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.

Certificate of Calibration

Al Takamul Yard, North Rumailah South Iraq

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Date of Issue: July 18, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-95	

CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : USG
Model : NA
Serial Number : MT003
Location : CASCADE UNIT
Type : Analog
Range : 0 to 600 psi
Calibrated Range : 0 to 600 psi
Resolution : 10 psi
Accuracy : NA
Tolerance : ± 1 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : July 18, 2024
Calibration Due : 17 July 2025



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
psi	psi	psi	±
0.0	0.0	0.0	0.0
150.0	152.10	-2.10	-0.3
300.0	302.50	-2.50	-0.4
450.0	452.70	-2.70	-0.4
600.0	602.80	-2.80	-0.5

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.

Certificate of Calibration

Al Takamul Yard, North Rumailah South Iraq

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Date of Issue: July 18, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-96	

CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : USG
Model : NA
Serial Number : CC0D5
Location : CASCADE UNIT
Type : Analog
Range : 0 to 6000 psi
Calibrated Range : 0 to 6000 psi
Resolution : 100 psi
Accuracy : NA
Tolerance : ± 1 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : July 18, 2024
Calibration Due : 17 July 2025



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
psi	psi	psi	±
0.0	0.0	0.0	0.0
1500.0	1512.00	-12.00	-0.2
3000.0	3015.00	-15.00	-0.3
4500.0	4518.00	-18.00	-0.3
6000.0	6023.00	-23.00	-0.4

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.



Certificate of Calibration

Al Takamul Yard, North Rumailah South Iraq

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Date of Issue: July 18, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-97	

CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : WIKA
Model : EN837-1
Serial Number : CC600B31
Location : CASCADE MANIFOLD SYSTEM
Type : Analog
Range : 0 to 300 psi
Calibrated Range : 0 to 300 psi
Resolution : 10 psi
Accuracy : NA
Tolerance : ± 1 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : July 18, 2024
Calibration Due : 17 July 2025



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
psi	psi	psi	±
0.0	0.0	0.0	0.0
70.0	71.30	-1.30	-0.4
150.0	151.20	-1.20	-0.4
220.0	221.60	-1.60	-0.5
300.0	301.70	-1.70	-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.

Certificate of Calibration

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Date of Issue: July 18, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-98	

CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : WIKA
Model : EN837-1
Serial Number : CC0A4
Location : CASCADE MANIFOLD SYSTEM
Type : Analog
Range : 0 to 300 psi
Calibrated Range : 0 to 300 psi
Resolution : 10 psi
Accuracy : NA
Tolerance : ± 1 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : July 18, 2024
Calibration Due : 17 July 2025



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
psi	psi	psi	±
0.0	0.0	0.0	0.0
70.0	70.50	-0.50	-0.2
150.0	150.80	-0.80	-0.3
220.0	221.20	-1.20	-0.4
300.0	301.40	-1.40	-0.5

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.

Certificate of Calibration

Al Takamul Yard, North Rumailah South Iraq

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Date of Issue: July 18, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-99	

CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : **Pressure Gauge**
 Manufacturer : WIKA
 Model : EN837-1
 Serial Number : CC0A8
 Location : CASCADE MANIFOLD SYSTEM
 Type : Analog
 Range : 0 to 300 psi
 Calibrated Range : 0 to 300 psi
 Resolution : 10 psi
 Accuracy : NA
 Tolerance : ± 1 % of Full Scale
 As found : In Tolerance
 Calibrated By : Asjad Rafiq
 Calibration Date : July 18, 2024
Calibration Due : 17 July 2025



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
psi	psi	psi	±
0.0	0.0	0.0	0.0
70.0	68.50	1.50	0.5
150.0	148.70	1.30	0.4
220.0	218.50	1.50	0.5
300.0	298.80	1.20	0.4

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.

Certificate of Calibration

Al Takamul Yard, North Rumailah South Iraq

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Date of Issue: July 18, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-100	

CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : **Pressure Gauge**
Manufacturer : WIKA
Model : EN837-1
Serial Number : CC0A9
Location : CASCADE MANIFOLD SYSTEM
Type : Analog
Range : 0 to 300 psi
Calibrated Range : 0 to 300 psi
Resolution : 10 psi
Accuracy : NA
Tolerance : ± 1 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : July 18, 2024
Calibration Due : 17 July 2025



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
psi	psi	psi	±
0.0	0.0	0.0	0.0
70.0	68.90	1.10	0.4
150.0	149.20	0.80	0.3
220.0	219.30	0.70	0.2
300.0	299.30	0.70	0.2

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.

Certificate of Calibration

Al Takamul Yard, North Rumailah South Iraq

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Date of Issue: July 18, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-101	

CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : WIKA
Model : EN837-1
Serial Number : CC60A9
Location : MUD TANK MANIFOLD
Type : Analog
Range : 0 to 300 psi
Calibrated Range : 0 to 300 psi
Resolution : 10 psi
Accuracy : NA
Tolerance : ± 1 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : July 18, 2024
Calibration Due : 17 July 2025



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
psi	psi	psi	±
0.0	0.0	0.0	0.0
70.0	71.30	-1.30	-0.4
150.0	151.20	-1.20	-0.4
220.0	221.50	-1.50	-0.5
300.0	301.60	-1.60	-0.5

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.



Certificate of Calibration

Al Takamul Yard, North Rumailah South Iraq

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Date of Issue: July 18, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-102	

CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : WIKA
Model : EN837-1
Serial Number : CC600B32
Location : MUD TANK MANIFOLD
Type : Analog
Range : 0 to 300 psi
Calibrated Range : 0 to 300 psi
Resolution : 10 psi
Accuracy : NA
Tolerance : ± 1 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : July 18, 2024
Calibration Due : 17 July 2025



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
psi	psi	psi	±
0.0	0.0	0.0	0.0
70.0	72.00	-2.00	-0.7
150.0	152.20	-2.20	-0.7
220.0	222.20	-2.20	-0.7
300.0	302.50	-2.50	-0.8

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.

Certificate of Calibration

Al Takamul Yard, North Rumailah South Iraq

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Date of Issue: July 18, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-103	

CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : WIKA
Model : EN837-1
Serial Number : CC60A10
Location : MUD TANK MANIFOLD RF
Type : Analog
Range : 0 to 300 psi
Calibrated Range : 0 to 300 psi
Resolution : 10 psi
Accuracy : NA
Tolerance : ± 1 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : July 18, 2024
Calibration Due : 17 July 2025



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
psi	psi	psi	±
0.0	0.0	0.0	0.0
70.0	70.80	-0.80	-0.3
150.0	151.20	-1.20	-0.4
220.0	221.40	-1.40	-0.5
300.0	301.50	-1.50	-0.5

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.

Certificate of Calibration

Al Takamul Yard, North Rumailah South Iraq

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Date of Issue: July 18, 2024

REQUEST NUMBER	: By Contract	APPROVED BY: 
JOB NUMBER	: QC/JN/24/00284	
CERTIFICATE NUMBER	: QC240716-106	

CUSTOMER DETAILS

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

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : MC
Model : 00000314
Serial Number : TBH2213
Location : STAND PIPE
Type : Analog
Range : 0 to 60 MPa
Calibrated Range : 0 to 60 MPa
Resolution : 1 MPa
Accuracy : 1.6
Tolerance : ± 1.6 % of Full Scale
As found : In Tolerance
Calibrated By : Asjad Rafiq
Calibration Date : July 18, 2024
Calibration Due : 17 July 2025



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
MPa	MPa	MPa	±
0.0	0.0	0.0	0.0
15.0	15.14	-0.14	-0.2
30.0	30.16	-0.16	-0.3
45.0	45.17	-0.17	-0.3
60.0	60.20	-0.20	-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.