

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: May 20, 2024

Page 1 of 1

REQUEST NUMBER : By Contract
JOB NUMBER : QC/JN/24/00217
CERTIFICATE NUMBER : QC240520-112

APPROVED BY: [Signature] IN CHARGE QC



CUSTOMER DETAILS

Name : HONGHUA OIL & GAS ENGINEERING SERVICES LTD. IRAQ
Address : Majnoon Oil Field , Basra - Iraq
Department : HH008

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Relief Valve
Manufacturer : NA
Model : NA
Serial Number : CAL-PRV-02
Set/Pressure : 25 bar
Location : SCBA Pump (Cascade)
Tolerance : $\pm 3\%$
Calibrated By : Asjad Rafiq
Calibration Date : May 20, 2024
Calibration Due : May 19, 2025
Last Calibration : NA



ENVIRONMENTAL CONDITIONS DURING TEST

Ambient Temperature : $22.0 \pm 2^{\circ}\text{C}$ Humidity : $44.0 \pm 5\% \text{ RH}$ Atm. Pressure : $1011.0 \pm 10 \text{ hPa}$

CALIBRATION METHOD

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

REFERENCE EQUIPMENT USED

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

CALIBRATION TEST RESULTS

Set Value on Unit Under Calibration (M)	Ref. Standard Values (A)	Deviation (D=M-A)	Tolerance Limit
bar	bar	bar	$\pm \text{bar}$
25	26.1	-1.1	0.75

Results :

The above Value Indicates That the Instrument complies with the Specified Maximum Permissible error tolerance.
At The Time of Calibration. and ready for use.

DEVIATION FROM STANDARD METHOD : None

REMARK (S) :

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

~ END OF DOCUMENT ~



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: May 20, 2024

Page 1 of 1

REQUEST NUMBER : By Contract
JOB NUMBER : QC/JN/24/00217
CERTIFICATE NUMBER : QC240520-113

APPROVED BY: [Signature] IN CHARGE QC



CUSTOMER DETAILS

Name : HONGHUA OIL & GAS ENGINEERING SERVICES LTD. IRAQ
Address : Majnoon Oil Field , Basra - Iraq
Department : HH008

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Relief Valve
Manufacturer : NA
Model : NA
Serial Number : CAL-PRV-03
Set/Pressure : 95 bar
Location : SCBA Pump (Cascade)
Tolerance : $\pm 3\%$
Calibrated By : Asjad Rafiq
Calibration Date : May 20, 2024
Calibration Due : May 19, 2025
Last Calibration : NA



ENVIRONMENTAL CONDITIONS DURING TEST

Ambient Temperature : $22.0 \pm 2^{\circ}\text{C}$ Humidity : $44.0 \pm 5\% \text{ RH}$ Atm. Pressure : $1011.0 \pm 10 \text{ hPa}$

CALIBRATION METHOD

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

REFERENCE EQUIPMENT USED

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

CALIBRATION TEST RESULTS

Set Value on Unit Under Calibration (M)	Ref. Standard Values (A)	Deviation (D=M-A)	Tolerance Limit
bar	bar	bar	$\pm \text{bar}$
95	96.1	-1.1	2.85

Results :

The above Value Indicates That the Instrument complies with the Specified Maximum Permissible error tolerance.
At The Time of Calibration. and ready for use.

DEVIATION FROM STANDARD METHOD : None

REMARK (S) :

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

~ END OF DOCUMENT ~



Address : North Rumaila, Al Takamul Yard
Contact : +9647810009138

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: May 20, 2024

Page 1 of 1

REQUEST NUMBER	: By Contract	APPROVED BY	APPROVED IN CHARGE QC
JOB NUMBER	: QC/JN/24/00217		
CERTIFICATE NUMBER	: QC240520-114		



CUSTOMER DETAILS

Name : HONGHUA OIL & GAS ENGINEERING SERVICES LTD. IRAQ
Address : Majnoon Oil Field , Basra - Iraq
Department : HH008

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Relief Valve
Manufacturer : NA
Model : NA
Serial Number : CAL-PRV-04
Set/Pressure : 5 bar
Location : SCBA Pump (Cascade)
Tolerance : $\pm 3\%$
Calibrated By : Asjad Rafiq
Calibration Date : May 20, 2024
Calibration Due : May 19, 2025
Last Calibration : NA



ENVIRONMENTAL CONDITIONS DURING TEST

Ambient Temperature : $22.0 \pm 2^{\circ}\text{C}$ Humidity : $44.0 \pm 5\% \text{ RH}$ Atm. Pressure : $1011.0 \pm 10 \text{ hPa}$

CALIBRATION METHOD

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

REFERENCE EQUIPMENT USED

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

CALIBRATION TEST RESULTS

Set Value on Unit Under Calibration (M)	Ref. Standard Values (A)	Deviation (D=M-A)	Tolerance Limit
bar	bar	bar	$\pm \text{bar}$
5	5.4	-0.4	0.15

Results :

The above Value Indicates That the Instrument complies with the Specified Maximum Permissible error tolerance.
At The Time of Calibration. and ready for use.

DEVIATION FROM STANDARD METHOD : None

REMARK (S) :

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

~ END OF DOCUMENT ~



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: May 20, 2024

Page 1 of 1

REQUEST NUMBER : By Contract
JOB NUMBER : QC/JN/24/00217
CERTIFICATE NUMBER : QC240520-115

APPROVED BY: [Signature] IN CHARGE QC



CUSTOMER DETAILS

Name : HONGHUA OIL & GAS ENGINEERING SERVICES LTD. IRAQ
Address : Majnoon Oil Field , Basra - Iraq
Department : HH008

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Relief Valve
Manufacturer : NA
Model : NA
Serial Number : CAL-PRV-01
Set/Pressure : 5000 psi
Location : SCBA Pump (Cascade)
Tolerance : $\pm 3\%$
Calibrated By : Asjad Rafiq
Calibration Date : May 20, 2024
Calibration Due : May 19, 2025
Last Calibration : NA



ENVIRONMENTAL CONDITIONS DURING TEST

Ambient Temperature : $22.0 \pm 2^{\circ}\text{C}$ Humidity : $44.0 \pm 5\% \text{ RH}$ Atm. Pressure : $1011.0 \pm 10 \text{ hPa}$

CALIBRATION METHOD

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

REFERENCE EQUIPMENT USED

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

CALIBRATION TEST RESULTS

Set Value on Unit Under Calibration (M)	Ref. Standard Values (A)	Deviation (D=M-A)	Tolerance Limit
psi	psi	psi	$\pm$ psi
5000	5011.5	-11.5	150.00

Results :

The above Value Indicates That the Instrument complies with the Specified Maximum Permissible error tolerance.
At The Time of Calibration. and ready for use.

DEVIATION FROM STANDARD METHOD : None

REMARK (S) :

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

~ END OF DOCUMENT ~



Address : North Rumaila, Al Takamul Yard
Contact : +9647810009138

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: May 20, 2024

Page 1 of 1

REQUEST NUMBER : By Contract
JOB NUMBER : QC/JN/24/00217
CERTIFICATE NUMBER : QC240520-116

APPROVED BY: [Signature] IN CHARGE QC



CUSTOMER DETAILS

Name : HONGHUA OIL & GAS ENGINEERING SERVICES LTD. IRAQ
Address : Majnoon Oil Field , Basra - Iraq
Department : HH008

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Relief Valve
Manufacturer : FUYU
Model : NA
Serial Number : 2479
Set/Pressure : 1.2 Mpa
Location : Generator
Tolerance : $\pm 3\%$
Calibrated By : Asjad Rafiq
Calibration Date : May 20, 2024
Calibration Due : May 19, 2025
Last Calibration : NA



ENVIRONMENTAL CONDITIONS DURING TEST

Ambient Temperature : $22.0 \pm 2^{\circ}\text{C}$ Humidity : $44.0 \pm 5\% \text{ RH}$ Atm. Pressure : $1011.0 \pm 10 \text{ hPa}$

CALIBRATION METHOD

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

REFERENCE EQUIPMENT USED

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

CALIBRATION TEST RESULTS

Set Value on Unit Under Calibration (M)	Ref. Standard Values (A)	Deviation (D=M-A)	Tolerance Limit
Mpa	Mpa	Mpa	$\pm$ Mpa
1.2	1.214	-0.014	0.04

Results :

The above Value Indicates That the Instrument complies with the Specified Maximum Permissible error tolerance.
At The Time of Calibration. and ready for use.

DEVIATION FROM STANDARD METHOD : None

REMARK (S) :

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

~ END OF DOCUMENT ~



Address : North Rumaila, Al Takamul Yard
Contact : +9647810009138

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: May 20, 2024

Page 1 of 1

REQUEST NUMBER	: By Contract	APPROVED BY	APPROVED IN CHARGE QC
JOB NUMBER	: QC/JN/24/00217		
CERTIFICATE NUMBER	: QC240520-117		



CUSTOMER DETAILS

Name : HONGHUA OIL & GAS ENGINEERING SERVICES LTD. IRAQ
Address : Majnoon Oil Field , Basra - Iraq
Department : HH008

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Relief Valve
Manufacturer : FUYU
Model : NA
Serial Number : 1516
Set/Pressure : 1.2 Mpa
Location : Generator
Tolerance : $\pm 3\%$
Calibrated By : Asjad Rafiq
Calibration Date : May 20, 2024
Calibration Due : May 19, 2025
Last Calibration : NA



ENVIRONMENTAL CONDITIONS DURING TEST

Ambient Temperature : $22.0 \pm 2^{\circ}\text{C}$ Humidity : $44.0 \pm 5\% \text{ RH}$ Atm. Pressure : $1011.0 \pm 10 \text{ hPa}$

CALIBRATION METHOD

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

REFERENCE EQUIPMENT USED

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

CALIBRATION TEST RESULTS

Set Value on Unit Under Calibration (M)	Ref. Standard Values (A)	Deviation (D=M-A)	Tolerance Limit
Mpa	Mpa	Mpa	$\pm$ Mpa
1.2	1.23	-0.03	0.04

Results :

The above Value Indicates That the Instrument complies with the Specified Maximum Permissible error tolerance.
At The Time of Calibration. and ready for use.

DEVIATION FROM STANDARD METHOD : None

REMARK (S) :

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

~ END OF DOCUMENT ~

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: May 20, 2024

Page 1 of 1

REQUEST NUMBER : By Contract
JOB NUMBER : QC/JN/24/00217
CERTIFICATE NUMBER : QC240520-118

APPROVED BY: [Signature] IN CHARGE QC



CUSTOMER DETAILS

Name : HONGHUA OIL & GAS ENGINEERING SERVICES LTD. IRAQ
Address : Majnoon Oil Field , Basra - Iraq
Department : HH008

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Relief Valve
Manufacturer : NA
Model : NA
Serial Number : CAL04321
Set/Pressure : 10 bar
Location : Generator
Tolerance : $\pm 3\%$
Calibrated By : Asjad Rafiq
Calibration Date : May 20, 2024
Calibration Due : May 19, 2025
Last Calibration : NA



ENVIRONMENTAL CONDITIONS DURING TEST

Ambient Temperature : $22.0 \pm 2^\circ\text{C}$ Humidity : $44.0 \pm 5\% \text{ RH}$ Atm. Pressure : $1011.0 \pm 10 \text{ hPa}$

CALIBRATION METHOD

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

REFERENCE EQUIPMENT USED

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

CALIBRATION TEST RESULTS

Set Value on Unit Under Calibration (M)	Ref. Standard Values (A)	Deviation (D=M-A)	Tolerance Limit
bar	bar	bar	$\pm \text{bar}$
10	10.6	-0.6	0.30

Results :

The above Value Indicates That the Instrument complies with the Specified Maximum Permissible error tolerance.
At The Time of Calibration. and ready for use.

DEVIATION FROM STANDARD METHOD : None

REMARK (S) :

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

~ END OF DOCUMENT ~



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: May 20, 2024

Page 1 of 1

REQUEST NUMBER : By Contract
JOB NUMBER : QC/JN/24/00217
CERTIFICATE NUMBER : QC240520-119

APPROVED BY: [Signature] IN CHARGE QC



CUSTOMER DETAILS

Name : HONGHUA OIL & GAS ENGINEERING SERVICES LTD. IRAQ
Address : Majnoon Oil Field , Basra - Iraq
Department : HH008

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Relief Valve
Manufacturer : NA
Model : NA
Serial Number : 57463530337
Set/Pressure : 10 bar
Location : Generator
Tolerance : $\pm 3\%$
Calibrated By : Asjad Rafiq
Calibration Date : May 20, 2024
Calibration Due : May 19, 2025
Last Calibration : NA



ENVIRONMENTAL CONDITIONS DURING TEST

Ambient Temperature : $22.0 \pm 2^{\circ}\text{C}$ Humidity : $44.0 \pm 5\% \text{ RH}$ Atm. Pressure : $1011.0 \pm 10 \text{ hPa}$

CALIBRATION METHOD

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

REFERENCE EQUIPMENT USED

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

CALIBRATION TEST RESULTS

Set Value on Unit Under Calibration (M)	Ref. Standard Values (A)	Deviation (D=M-A)	Tolerance Limit
bar	bar	bar	$\pm \text{bar}$
10	11.1	-1.1	0.30

Results :

The above Value Indicates That the Instrument complies with the Specified Maximum Permissible error tolerance.
At The Time of Calibration. and ready for use.

DEVIATION FROM STANDARD METHOD : None

REMARK (S) :

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

~ END OF DOCUMENT ~

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: May 20, 2024

Page 1 of 1

REQUEST NUMBER	: By Contract	APPROVED BY: [Signature]	APPROVED BY: [Signature]
JOB NUMBER	: QC/JN/24/00217		
CERTIFICATE NUMBER	: QC240520-120		

CUSTOMER DETAILS

Name : HONGHUA OIL & GAS ENGINEERING SERVICES LTD. IRAQ
Address : Majnoon Oil Field , Basra - Iraq
Department : HH008

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Relief Valve
Manufacturer : TS
Model : NA
Serial Number : 201106225
Set/Pressure : 1.2 Mpa
Location : Generator
Tolerance : $\pm 3\%$
Calibrated By : Asjad Rafiq
Calibration Date : May 20, 2024
Calibration Due : May 19, 2025
Last Calibration : NA



ENVIRONMENTAL CONDITIONS DURING TEST

Ambient Temperature : $22.0 \pm 2^{\circ}\text{C}$ Humidity : $44.0 \pm 5\% \text{ RH}$ Atm. Pressure : $1011.0 \pm 10 \text{ hPa}$

CALIBRATION METHOD

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

REFERENCE EQUIPMENT USED

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

CALIBRATION TEST RESULTS

Set Value on Unit Under Calibration (M)	Ref. Standard Values (A)	Deviation (D=M-A)	Tolerance Limit
Mpa	Mpa	Mpa	$\pm \text{Mpa}$
1.2	1.22	-0.02	0.04

Results :

The above Value Indicates That the Instrument complies with the Specified Maximum Permissible error tolerance.
At The Time of Calibration. and ready for use.

DEVIATION FROM STANDARD METHOD : None

REMARK (S) :

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

~ END OF DOCUMENT ~

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: May 20, 2024

Page 1 of 1

REQUEST NUMBER	: By Contract	APPROVED BY	APPROVED IN CHARGE QC
JOB NUMBER	: QC/JN/24/00217		
CERTIFICATE NUMBER	: QC240520-121		



CUSTOMER DETAILS

Name : HONGHUA OIL & GAS ENGINEERING SERVICES LTD. IRAQ
Address : Majnoon Oil Field , Basra - Iraq
Department : HH008

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Relief Valve
Manufacturer : TS
Model : NA
Serial Number : 201106201
Set/Pressure : 1.2 Mpa
Location : Generator
Tolerance : $\pm 3\%$
Calibrated By : Asjad Rafiq
Calibration Date : May 20, 2024
Calibration Due : May 19, 2025
Last Calibration : NA



ENVIRONMENTAL CONDITIONS DURING TEST

Ambient Temperature : $22.0 \pm 2^{\circ}\text{C}$ Humidity : $44.0 \pm 5\% \text{ RH}$ Atm. Pressure : $1011.0 \pm 10 \text{ hPa}$

CALIBRATION METHOD

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

REFERENCE EQUIPMENT USED

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

CALIBRATION TEST RESULTS

Set Value on Unit Under Calibration (M)	Ref. Standard Values (A)	Deviation (D=M-A)	Tolerance Limit
Mpa	Mpa	Mpa	$\pm$ Mpa
1.2	1.28	-0.08	0.04

Results :

The above Value Indicates That the Instrument complies with the Specified Maximum Permissible error tolerance.
At The Time of Calibration. and ready for use.

DEVIATION FROM STANDARD METHOD : None

REMARK (S) :

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

~ END OF DOCUMENT ~



Address : North Rumaila, Al Takamul Yard
Contact : +9647810009138

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: May 20, 2024

Page 1 of 1

REQUEST NUMBER : By Contract
JOB NUMBER : QC/JN/24/00217
CERTIFICATE NUMBER : QC240520-122

APPROVED BY: [Signature] IN CHARGE QC



CUSTOMER DETAILS

Name : HONGHUA OIL & GAS ENGINEERING SERVICES LTD. IRAQ
Address : Majnoon Oil Field , Basra - Iraq
Department : HH008

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Relief Valve
Manufacturer : GUANGZHO U DONGSU PETROLEUM
Model : Y30-25
Serial Number : 13380
Set/Pressure : 3335 psi
Location : Koomey Unit
Tolerance : $\pm 3\%$
Calibrated By : Asjad Rafiq
Calibration Date : May 20, 2024
Calibration Due : May 19, 2025
Last Calibration : NA



ENVIRONMENTAL CONDITIONS DURING TEST

Ambient Temperature : $22.0 \pm 2^{\circ}\text{C}$ Humidity : $44.0 \pm 5\% \text{ RH}$ Atm. Pressure : $1011.0 \pm 10 \text{ hPa}$

CALIBRATION METHOD

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

REFERENCE EQUIPMENT USED

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

CALIBRATION TEST RESULTS

Set Value on Unit Under Calibration (M)	Ref. Standard Values (A)	Deviation (D=M-A)	Tolerance Limit
psi	psi	psi	$\pm$ psi
3335	3350	-15	100.05

Results :

The above Value Indicates That the Instrument complies with the Specified Maximum Permissible error tolerance.
At The Time of Calibration. and ready for use.

DEVIATION FROM STANDARD METHOD : None

REMARK (S) :

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

~ END OF DOCUMENT ~

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: May 20, 2024

Page 1 of 1

REQUEST NUMBER : By Contract
JOB NUMBER : QC/JN/24/00217
CERTIFICATE NUMBER : QC240520-123

APPROVED BY: [Signature] IN CHARGE QC



CUSTOMER DETAILS

Name : HONGHUA OIL & GAS ENGINEERING SERVICES LTD. IRAQ
Address : Majnoon Oil Field , Basra - Iraq
Department : HH008

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Relief Valve
Manufacturer : GUANGZHO U DONGSU PETROLEUM
Model : NA
Serial Number : 12014
Set/Pressure : 5000 psi
Location : Koomey Unit
Tolerance : $\pm 3\%$
Calibrated By : Asjad Rafiq
Calibration Date : May 20, 2024
Calibration Due : May 19, 2025
Last Calibration : NA



ENVIRONMENTAL CONDITIONS DURING TEST

Ambient Temperature : $22.0 \pm 2^{\circ}\text{C}$ Humidity : $44.0 \pm 5\% \text{ RH}$ Atm. Pressure : $1011.0 \pm 10 \text{ hPa}$

CALIBRATION METHOD

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

REFERENCE EQUIPMENT USED

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

CALIBRATION TEST RESULTS

Set Value on Unit Under Calibration (M)	Ref. Standard Values (A)	Deviation (D=M-A)	Tolerance Limit
psi	psi	psi	$\pm$ psi
5000	5010.3	-10.3	150.00

Results :

The above Value Indicates That the Instrument complies with the Specified Maximum Permissible error tolerance.
At The Time of Calibration. and ready for use.

DEVIATION FROM STANDARD METHOD : None

REMARK (S) :

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

~ END OF DOCUMENT ~



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: May 20, 2024

Page 1 of 1

REQUEST NUMBER : By Contract
JOB NUMBER : QC/JN/24/00217
CERTIFICATE NUMBER : QC240520-125

APPROVED BY: [Signature] IN CHARGE QC



CUSTOMER DETAILS

Name : HONGHUA OIL & GAS ENGINEERING SERVICES LTD. IRAQ
Address : Majnoon Oil Field , Basra - Iraq
Department : HH008

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Relief Valve
Manufacturer : NA
Model : NA
Serial Number : CAL-PRV-10
Set/Pressure : 1.2 Mpa
Location : Poor Boy
Tolerance : $\pm 3\%$
Calibrated By : Asjad Rafiq
Calibration Date : May 20, 2024
Calibration Due : May 19, 2025
Last Calibration : NA



ENVIRONMENTAL CONDITIONS DURING TEST

Ambient Temperature : $22.0 \pm 2^{\circ}\text{C}$ Humidity : $44.0 \pm 5\% \text{ RH}$ Atm. Pressure : $1011.0 \pm 10 \text{ hPa}$

CALIBRATION METHOD

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

REFERENCE EQUIPMENT USED

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

CALIBRATION TEST RESULTS

Set Value on Unit Under Calibration (M)	Ref. Standard Values (A)	Deviation (D=M-A)	Tolerance Limit
Mpa	Mpa	Mpa	$\pm \text{Mpa}$
1.2	1.204	-0.004	0.04

Results :

The above Value Indicates That the Instrument complies with the Specified Maximum Permissible error tolerance.
At The Time of Calibration. and ready for use.

DEVIATION FROM STANDARD METHOD : None

REMARK (S) :

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

~ END OF DOCUMENT ~

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: May 20, 2024

Page 1 of 1

REQUEST NUMBER	: By Contract	APPROVED BY: [Signature]	APPROVED FOR: [Signature]
JOB NUMBER	: QC/JN/24/00217		
CERTIFICATE NUMBER	: QC240520-126		



CUSTOMER DETAILS

Name : HONGHUA OIL & GAS ENGINEERING SERVICES LTD. IRAQ
Address : Majnoon Oil Field , Basra - Iraq
Department : HH008

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Relief Valve
Manufacturer : National Oilwell
Model : NA
Serial Number : XK-21-1012468
Set/Pressure : (2000-8000) psi
Location : Mud Pump #1
Tolerance : $\pm 3\%$
Calibrated By : Asjad Rafiq
Calibration Date : May 20, 2024
Calibration Due : May 19, 2025
Last Calibration : NA



ENVIRONMENTAL CONDITIONS DURING TEST

Ambient Temperature : $22.0 \pm 2^{\circ}\text{C}$ Humidity : $44.0 \pm 5\% \text{ RH}$ Atm. Pressure : $1011.0 \pm 10 \text{ hPa}$

CALIBRATION METHOD

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

REFERENCE EQUIPMENT USED

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

CALIBRATION TEST RESULTS

Set Value on Unit Under Calibration (M)	Ref. Standard Values (A)	Deviation (D=M-A)	Tolerance Limit
psi	psi	psi	$\pm$ psi
8000	8009.4	-9.4	240.00

Results :

The above Value Indicates That the Instrument complies with the Specified Maximum Permissible error tolerance.
At The Time of Calibration. and ready for use.

DEVIATION FROM STANDARD METHOD : None

REMARK (S) :

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

~ END OF DOCUMENT ~



Address : North Rumaila, Al Takamul Yard
Contact : +9647810009138

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: May 20, 2024

Page 1 of 1

REQUEST NUMBER	: By Contract	APPROVED BY: [Signature] IN CHARGE QC
JOB NUMBER	: QC/JN/24/00217	
CERTIFICATE NUMBER	: QC240520-127	



CUSTOMER DETAILS

Name : HONGHUA OIL & GAS ENGINEERING SERVICES LTD. IRAQ
Address : Majnoon Oil Field , Basra - Iraq
Department : HH008

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Relief Valve
Manufacturer : National Oilwell
Model : NA
Serial Number : XK-22-1035328
Set/Pressure : (2000-8000) psi
Location : Mud Pump #2
Tolerance : $\pm 3\%$
Calibrated By : Asjad Rafiq
Calibration Date : May 20, 2024
Calibration Due : May 19, 2025
Last Calibration : NA



ENVIRONMENTAL CONDITIONS DURING TEST

Ambient Temperature : $22.0 \pm 2^{\circ}\text{C}$ Humidity : $44.0 \pm 5\% \text{ RH}$ Atm. Pressure : $1011.0 \pm 10 \text{ hPa}$

CALIBRATION METHOD

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

REFERENCE EQUIPMENT USED

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

CALIBRATION TEST RESULTS

Set Value on Unit Under Calibration (M)	Ref. Standard Values (A)	Deviation (D=M-A)	Tolerance Limit
psi	psi	psi	$\pm$ psi
8000	8009.4	-9.4	240.00

Results :

The above Value Indicates That the Instrument complies with the Specified Maximum Permissible error tolerance.
At The Time of Calibration. and ready for use.

DEVIATION FROM STANDARD METHOD : None

REMARK (S) :

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

~ END OF DOCUMENT ~



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: May 20, 2024

Page 1 of 1

REQUEST NUMBER : By Contract
JOB NUMBER : QC/JN/24/00217
CERTIFICATE NUMBER : QC240520-128

APPROVED BY: [Signature] IN CHARGE QC



CUSTOMER DETAILS

Name : HONGHUA OIL & GAS ENGINEERING SERVICES LTD. IRAQ
Address : Majnoon Oil Field , Basra - Iraq
Department : HH008

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Relief Valve
Manufacturer : National Oilwell
Model : NA
Serial Number : XK-22-1035331
Set/Pressure : (2000-8000) psi
Location : Mud Pump #1
Tolerance : $\pm 3\%$
Calibrated By : Asjad Rafiq
Calibration Date : May 20, 2024
Calibration Due : May 19, 2025
Last Calibration : NA



ENVIRONMENTAL CONDITIONS DURING TEST

Ambient Temperature : $22.0 \pm 2^{\circ}\text{C}$ Humidity : $44.0 \pm 5\% \text{ RH}$ Atm. Pressure : $1011.0 \pm 10 \text{ hPa}$

CALIBRATION METHOD

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

REFERENCE EQUIPMENT USED

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

CALIBRATION TEST RESULTS

Set Value on Unit Under Calibration (M)	Ref. Standard Values (A)	Deviation (D=M-A)	Tolerance Limit
psi	psi	psi	$\pm$ psi
8000	8011.3	-11.3	240.00

Results :

The above Value Indicates That the Instrument complies with the Specified Maximum Permissible error tolerance.
At The Time of Calibration. and ready for use.

DEVIATION FROM STANDARD METHOD : None

REMARK (S) :

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

~ END OF DOCUMENT ~

