

Certificate of Calibration

Al Takamul Yard, North Rumailah South Iraq

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Date of Issue: July 4, 2024

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REQUEST NUMBER	: By Contract	APPROVED BY:  CAP. IN CHARGE QC
JOB NUMBER	: QC/JN/24/00265	
CERTIFICATE NUMBER	: QC240704-34	

CUSTOMER DETAILS

Name : **Zhongman Petroleum Engineering**
Address : Basra, South Iraq
Rig : ZPEC023

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : **Pressure Relief Valve**
Manufacturer : NA
Model : Y40-20
Serial Number : **17-57**
Set/Pressure : 3300 psi
Tolerance : $\pm 3\%$
Location : Koomy Unit
Calibrated By : Hussein Alaa
Calibration Date : July 4, 2024
Calibration Due : **July 3, 2026**
Last Calibration : NA



ENVIRONMENTAL CONDITIONS DURING TEST

Ambient Temperature : 22.0 \pm 2°C Humidity : 44.0 \pm 5 % RH Atm. Pressure : 1011.0 \pm 10 hPa

CALIBRATION METHOD

Standard Method API 527 was used to test the unit under test. Test pressure was applied on inlet of unit under test and test was repeated 3 times. Identical repeatings 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
3300	3311	-11	99.00

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 ~


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REQUEST NUMBER	: By Contract	APPROVED BY:  CAP. IN CHARGE QC
JOB NUMBER	: QC/JN/24/00265	
CERTIFICATE NUMBER	: QC240704-37	

CUSTOMER DETAILS

Name : **Zhongman Petroleum Engineering**
Address : Basra, South Iraq
Rig : ZPEC023

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : **Pressure Relief Valve**
Manufacturer : NA
Model : Y-25-20
Serial Number : **18-35**
Set/Pressure : 3300 psi
Tolerance : $\pm 3\%$
Location : Koomy Unit
Calibrated By : Hussein Alaa
Calibration Date : July 4, 2024
Calibration Due : **July 3, 2026**
Last Calibration : NA



ENVIRONMENTAL CONDITIONS DURING TEST

Ambient Temperature : 22.0 \pm 2°C Humidity : 44.0 \pm 5 % RH Atm. Pressure : 1011.0 \pm 10 hPa

CALIBRATION METHOD

Standard Method API 527 was used to test the unit under test. Test pressure was applied on inlet of unit under test and test was repeated 3 times. Identical repeatings 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
3300	3305	-5	99.00

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.

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REQUEST NUMBER : By Contract	APPROVED BY:  / LARGE QC
JOB NUMBER : QC/JN/24/00265	
CERTIFICATE NUMBER : QC240704-71	

CUSTOMER DETAILS

Name : **Zhongman Petroleum Engineering**
Address : Basra, South Iraq
Rig : ZPEC023

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : **Pressure Relief Valve**
Manufacturer : NA
Model : NA
Serial Number : **102155**
Set/Pressure : 1.05 Mpa
Tolerance : $\pm 3\%$
Location : Generator Room
Calibrated By : Hussein Alaa
Calibration Date : July 4, 2024
Calibration Due : **July 3, 2026**
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 repeatings 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
1.05	1.1	-0.05	0.03

Results :

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

DEVIATION FROM STANDARD METHOD : None

REMARK (S) :

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

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REQUEST NUMBER	: By Contract	APPROVED BY:  / CHARGE QC
JOB NUMBER	: QC/JN/24/00265	
CERTIFICATE NUMBER	: QC240704-72	

CUSTOMER DETAILS

Name : **Zhongman Petroleum Engineering**
Address : Basra, South Iraq
Rig : ZPEC023

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : **Pressure Relief Valve**
Manufacturer : NA
Model : NA
Serial Number : **PSV100**
Set/Pressure : 95 bar
Tolerance : $\pm 3\%$
Location : Cascade Unit
Calibrated By : Hussein Alaa
Calibration Date : July 4, 2024
Calibration Due : **July 3, 2026**
Last Calibration : NA



ENVIRONMENTAL CONDITIONS DURING TEST

Ambient Temperature : 22.0 \pm 2°C Humidity : 44.0 \pm 5 % RH Atm. Pressure : 1011.0 \pm 10 hPa

CALIBRATION METHOD

Standard Method API 527 was used to test the unit under test. Test pressure was applied on inlet of unit under test and test was repeated 3 times. Identical repeatings 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 bar
95	98	-3	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.

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REQUEST NUMBER : By Contract	APPROVED BY:  / LARGE QC
JOB NUMBER : QC/JN/24/00265	
CERTIFICATE NUMBER : QC240704-73	

CUSTOMER DETAILS

Name : **Zhongman Petroleum Engineering**
Address : Basra, South Iraq
Rig : ZPEC023

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : **Pressure Relief Valve**
Manufacturer : NA
Model : NA
Serial Number : **E0-D**
Set/Pressure : 25 bar
Tolerance : $\pm 3\%$
Location : Cascade Unit
Calibrated By : Hussein Alaa
Calibration Date : July 4, 2024
Calibration Due : **July 3, 2026**
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 repeatings 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	23	2	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.

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REQUEST NUMBER : By Contract	APPROVED BY:  / LARGE QC
JOB NUMBER : QC/JN/24/00265	
CERTIFICATE NUMBER : QC240704-74	

CUSTOMER DETAILS

Name : **Zhongman Petroleum Engineering**
Address : Basra, South Iraq
Rig : ZPEC023

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : **Pressure Relief Valve**
Manufacturer : NA
Model : NA
Serial Number : **1505887**
Set/Pressure : 330 bar
Tolerance : $\pm 3\%$
Location : Cascade Unit
Calibrated By : Hussein Alaa
Calibration Date : July 4, 2024
Calibration Due : **July 3, 2026**
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 repeatings 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	$\pm \text{bar}$
330	332	-2	9.90

Results :

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

DEVIATION FROM STANDARD METHOD : None

REMARK (S) :

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

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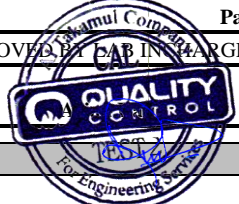
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REQUEST NUMBER	: By Contract	APPROVED BY:  CAB IN CHARGE QC
JOB NUMBER	: QC/JN/24/00265	
CERTIFICATE NUMBER	: QC240704-75	

CUSTOMER DETAILS

Name : **Zhongman Petroleum Engineering**
 Address : Basra, South Iraq
 Rig : ZPEC023

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : **Pressure Relief Valve**
 Manufacturer : National oilwell VARCO
 Model : Type C
 Serial Number : **XK-23-1011396**
 Set/Pressure : (1500-5000) psi
 Tolerance : ±3 %
 Location : Mud Pump #3
 Calibrated By : Hussein Alaa
 Calibration Date : July 4, 2024
Calibration Due : **July 3, 2026**
 Last Calibration : NA



ENVIRONMENTAL CONDITIONS DURING TEST

Ambient Temperature : 22.0 ± 2°C Humidity : 44.0 ± 5 % RH Atm. Pressure : 1011.0 ± 10 hPa

CALIBRATION METHOD

Standard Method API 527 was used to test the unit under test. Test pressure was applied on inlet of unit under test and test was repeated 3 times. Identical repeatings 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	± psi
1500	1507	-7	45.00
5000	5011	-11	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.

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REQUEST NUMBER	: By Contract	APPROVED BY:  CAB IN CHARGE QC
JOB NUMBER	: QC/JN/24/00265	
CERTIFICATE NUMBER	: QC240704-76	

CUSTOMER DETAILS

Name : **Zhongman Petroleum Engineering**
 Address : Basra, South Iraq
 Rig : ZPEC023

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : **Pressure Relief Valve**
 Manufacturer : National oilwell VARCO
 Model : Type C
 Serial Number : **XK-22-1035493**
 Set/Pressure : (1500-5000) psi
 Tolerance : ±3 %
 Location : Mud Pump #2
 Calibrated By : Hussein Alaa
 Calibration Date : July 4, 2024
Calibration Due : **July 3, 2026**
 Last Calibration : NA



ENVIRONMENTAL CONDITIONS DURING TEST

Ambient Temperature : 22.0 ± 2°C Humidity : 44.0 ± 5 % RH Atm. Pressure : 1011.0 ± 10 hPa

CALIBRATION METHOD

Standard Method API 527 was used to test the unit under test. Test pressure was applied on inlet of unit under test and test was repeated 3 times. Identical repeatings 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	± psi
1500	1503	-3	45.00
5000	4994	6	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 ~

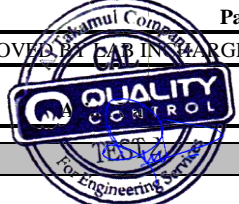
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REQUEST NUMBER	: By Contract	APPROVED BY:  CAB IN CHARGE QC
JOB NUMBER	: QC/JN/24/00265	
CERTIFICATE NUMBER	: QC240704-77	

CUSTOMER DETAILS

Name : **Zhongman Petroleum Engineering**
 Address : Basra, South Iraq
 Rig : ZPEC023

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : **Pressure Relief Valve**
 Manufacturer : National oilwell VARCO
 Model : Type C
 Serial Number : **2041992-01**
 Set/Pressure : (1500-5000) psi
 Tolerance : ±3 %
 Location : Mud Pump #1
 Calibrated By : Hussein Alaa
 Calibration Date : July 4, 2024
Calibration Due : **July 3, 2026**
 Last Calibration : NA



ENVIRONMENTAL CONDITIONS DURING TEST

Ambient Temperature : 22.0 ± 2°C Humidity : 44.0 ± 5 % RH Atm. Pressure : 1011.0 ± 10 hPa

CALIBRATION METHOD

Standard Method API 527 was used to test the unit under test. Test pressure was applied on inlet of unit under test and test was repeated 3 times. Identical repeatings 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	± psi
1500	1496	4	45.00
5000	5004	-4	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.

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REQUEST NUMBER	: By Contract	APPROVED BY:  CAP. IN CHARGE QC
JOB NUMBER	: QC/JN/24/00265	
CERTIFICATE NUMBER	: QC240704-78	

CUSTOMER DETAILS

Name : **Zhongman Petroleum Engineering**
Address : Basra, South Iraq
Rig : ZPEC023

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : **Pressure Relief Valve**
Manufacturer : NA
Model : NA
Serial Number : **0135372**
Set/Pressure : 6000 psi
Tolerance : $\pm 3\%$
Location : Fire Tank
Calibrated By : Hussein Alaa
Calibration Date : July 4, 2024
Calibration Due : **July 3, 2026**
Last Calibration : NA



ENVIRONMENTAL CONDITIONS DURING TEST

Ambient Temperature : 22.0 \pm 2°C Humidity : 44.0 \pm 5 % RH Atm. Pressure : 1011.0 \pm 10 hPa

CALIBRATION METHOD

Standard Method API 527 was used to test the unit under test. Test pressure was applied on inlet of unit under test and test was repeated 3 times. Identical repeatings 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
6000	6009	-9	180.00

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.

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REQUEST NUMBER	: By Contract	APPROVED BY:  / CAP. IN CHARGE QC
JOB NUMBER	: QC/JN/24/00265	
CERTIFICATE NUMBER	: QC240704-85	

CUSTOMER DETAILS

Name : **Zhongman Petroleum Engineering**
Address : Basra, South Iraq
Rig : ZPEC023

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : **Pressure Relief Valve**
Manufacturer : NA
Model : NA
Serial Number : **TS2F31305-2024**
Set/Pressure : 1.6 MPa
Tolerance : $\pm 3\%$
Location : Poor Boy
Calibrated By : Hussein Alaa
Calibration Date : July 4, 2024
Calibration Due : **July 3, 2026**
Last Calibration : NA



ENVIRONMENTAL CONDITIONS DURING TEST

Ambient Temperature : 22.0 \pm 2°C Humidity : 44.0 \pm 5 % RH Atm. Pressure : 1011.0 \pm 10 hPa

CALIBRATION METHOD

Standard Method API 527 was used to test the unit under test. Test pressure was applied on inlet of unit under test and test was repeated 3 times. Identical repeatings 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
1.6	1.8	-0.2	0.05

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.

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REQUEST NUMBER	: By Contract	APPROVED BY:  CAP. IN CHARGE QC
JOB NUMBER	: QC/JN/24/00265	
CERTIFICATE NUMBER	: QC240704-87	

CUSTOMER DETAILS

Name : **Zhongman Petroleum Engineering**
Address : Basra, South Iraq
Rig : ZPEC023

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : **Pressure Relief Valve**
Manufacturer : NA
Model : NA
Serial Number : **201111-032**
Set/Pressure : 1.2 MPa
Tolerance : $\pm 3\%$
Location : NA
Calibrated By : Hussein Alaa
Calibration Date : July 4, 2024
Calibration Due : **July 3, 2026**
Last Calibration : NA



ENVIRONMENTAL CONDITIONS DURING TEST

Ambient Temperature : 22.0 \pm 2°C Humidity : 44.0 \pm 5 % RH Atm. Pressure : 1011.0 \pm 10 hPa

CALIBRATION METHOD

Standard Method API 527 was used to test the unit under test. Test pressure was applied on inlet of unit under test and test was repeated 3 times. Identical repeatings 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	0.9	0.3	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.

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REQUEST NUMBER	: By Contract	APPROVED BY:  / LARGE QC
JOB NUMBER	: QC/JN/24/00265	
CERTIFICATE NUMBER	: QC240704-88	

CUSTOMER DETAILS

Name : **Zhongman Petroleum Engineering**
Address : Basra, South Iraq
Rig : ZPEC023

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : **Pressure Relief Valve**
Manufacturer : NA
Model : NA
Serial Number : **NS080**
Set/Pressure : 5 bar
Tolerance : $\pm 3\%$
Location : Cascade Unit
Calibrated By : Hussein Alaa
Calibration Date : July 4, 2024
Calibration Due : **July 3, 2026**
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 repeatings 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	4.7	0.3	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

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REQUEST NUMBER	: By Contract	APPROVED BY:  / LARGE QC
JOB NUMBER	: QC/JN/24/00265	
CERTIFICATE NUMBER	: QC240704-89	

CUSTOMER DETAILS

Name : **Zhongman Petroleum Engineering**
Address : Basra, South Iraq
Rig : ZPEC023

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : **Pressure Relief Valve**
Manufacturer : NA
Model : A42Y-160
Serial Number : **065**
Set/Pressure : 0.77 MPa
Tolerance : $\pm 3\%$
Location : Poor boy
Calibrated By : Hussein Alaa
Calibration Date : July 4, 2024
Calibration Due : **July 3, 2026**
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 repeatings 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	$\pm \text{MPa}$
0.77	0.82	-0.05	0.02

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

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Date of Issue: July 4, 2024

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REQUEST NUMBER	: By Contract	APPROVED BY:  / LARGE QC
JOB NUMBER	: QC/JN/24/00265	
CERTIFICATE NUMBER	: QC240704-108	

CUSTOMER DETAILS

Name : **Zhongman Petroleum Engineering**
Address : Basra, South Iraq
Rig : ZPEC023

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : **Pressure Relief Valve**
Manufacturer : NA
Model : NA
Serial Number : **201104-137**
Set/Pressure : 1.2 MPa
Tolerance : $\pm 3\%$
Location : Generator Room
Calibrated By : Hussein Alaa
Calibration Date : July 4, 2024
Calibration Due : **July 3, 2026**
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 repeatings 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	1.16	0.04	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

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Date of Issue: July 4, 2024

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REQUEST NUMBER	: By Contract	APPROVED BY:  / CHARGE QC
JOB NUMBER	: QC/JN/24/00265	
CERTIFICATE NUMBER	: QC240704-109	

CUSTOMER DETAILS

Name : **Zhongman Petroleum Engineering**
Address : Basra, South Iraq
Rig : ZPEC023

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : **Pressure Relief Valve**
Manufacturer : NA
Model : NA
Serial Number : **201111-032**
Set/Pressure : 1.2 MPa
Tolerance : $\pm 3\%$
Location : Generator Room
Calibrated By : Hussein Alaa
Calibration Date : July 4, 2024
Calibration Due : **July 3, 2026**
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 repeatings 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	1.28	-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 ~