

## 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: April 20, 2024

Page 1 of 1

WORK ORDER NUMBER	: By Email	CUSTOMER DETAILS	
JOB NUMBER	: QC/JN/24/00194	Name	: Halliburton Worldwide IRAQ (TSS)
CERTIFICATE NUMBER	: QC240420-01	Address	: Western Burjesia, Oil Street, District Zubair-South Iraq

### EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Relief Valve  
Manufacturer : Anderson Greenwood  
Model : NA  
Serial Number : 436614  
Location : SURGE TANK # 11922442  
Set/Pressure : 225 psi  
Tolerance :  $\pm 3\%$   
As Found : Good  
Calibration Date : April 20, 2024  
**Calibration Due** : 19 April 2025  
Last Calibration : NA



### ENVIRONMENTAL CONDITIONS DURING TEST

Ambient Temperature :  $22.0 \pm 2^{\circ}\text{C}$  Humidity :  $30.0 \pm 5\% \text{ RH}$  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 Pressure on Unit Under Calibration (M)	Ref. Standard Values (A)	Deviation (D=M-A)	Tolerance Limit
psi	psi	psi	$\pm$ psi
225	227	-2	6.8

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

DEVIATION FROM STANDARD METHOD : None

REMARK (S) :

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

CALIBRATED BY	REVIEWED & APPROVED BY	LAB INCHARGE	CLIENT
 Mahdi Halim	 LAB INCHARGE	Asjad Rafiq	

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WORK ORDER NUMBER	: By Email	CUSTOMER DETAILS	
JOB NUMBER	: QC/JN/24/00194	Name	: Halliburton Worldwide IRAQ (TSS)
CERTIFICATE NUMBER	: QC240420-02	Address	: Western Burjesia, Oil Street, District Zubair-South Iraq

### EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Relief Valve  
Manufacturer : Anderson Greenwood  
Model : NA  
Serial Number : 436620  
Location : SURGE TANK # 11922442  
Set/Pressure : 225 psi  
Tolerance :  $\pm 3\%$   
As Found : Good  
Calibration Date : April 20, 2024  
**Calibration Due** : 19 April 2025  
Last Calibration : NA



### ENVIRONMENTAL CONDITIONS DURING TEST

Ambient Temperature :  $22.0 \pm 2^{\circ}\text{C}$  Humidity :  $30.0 \pm 5\% \text{ RH}$  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 Pressure on Unit Under Calibration (M)	Ref. Standard Values (A)	Deviation (D=M-A)	Tolerance Limit
psi	psi	psi	$\pm$ psi
225	228	-3	6.8

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

DEVIATION FROM STANDARD METHOD : None

REMARK (S) :

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

CALIBRATED BY	REVIEWED & APPROVED BY	CLIENT
 Mahdi Halim	 LAB INCHARGE Asjad Rafiq	



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Page 1 of 1

REQUEST NUMBER	: By Contract	CUSTOMER DETAILS	
JOB NUMBER	: QC/JN/24/00194	Name	Halliburton Worldwide IRAQ (TSS)
CERTIFICATE NUMBER	: QC240420-03	Address	Western Burjesia, Oil Street, District Zubair-South Iraq

Description : Pressure Gauge  
Manufacturer : FISHER  
Model : NA  
Serial Number : 20190089-01  
Type : Analog  
Location : SURGE TANK # 11922442  
Range : 0 to 60 psi  
Calibrated Range : 0 to 60 psi  
Resolution : 1 psi  
Tolerance :  $\pm 1.0$  % of Full Scale  
As found : In Tolerance  
Calibration Date : April 20, 2024  
**Calibration Due : 19 April 2025**  
Last Calibration Date : NA



DEVIATION FROM STANDARD METHOD : None

REMARK (S) :

1. No adjustments were made prior to calibration.
2. No accessories were fitted.
3. Values were rounded in computation.

### 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

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)	Full Scale Error %
0	0	0	%
0	0.00	0.00	0.0
15	15.20	-0.20	-0.3
30	30.40	-0.40	-0.7
45	45.40	-0.40	-0.7
60	60.50	-0.50	-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.

CALIBRATED BY	REVIEWED & APPROVED BY	LAB INCHARGE	CLIENT
 Mahdi Halim	 TEST 2	Asjad Rafiq	

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REQUEST NUMBER	: By Contract	CUSTOMER DETAILS	
JOB NUMBER	: QC/JN/24/00194	Name	Halliburton Worldwide IRAQ (TSS)
CERTIFICATE NUMBER	: QC240420-04	Address	Western Burjesia, Oil Street, District Zubair-South Iraq

Description : **Pressure Gauge**  
Manufacturer : FISHER  
Model : NA  
Serial Number : **20190089-02**  
Type : Analog  
Location : SURGE TANK # 11922442  
Range : 0 to 60 psi  
Calibrated Range : 0 to 60 psi  
Resolution : 1 psi  
Tolerance :  $\pm 1.0$  % of Full Scale  
As found : In Tolerance  
Calibration Date : April 20, 2024  
**Calibration Due : 19 April 2025**  
Last Calibration Date : NA



DEVIATION FROM STANDARD METHOD : None

REMARK (S) :

1. No adjustments were made prior to calibration.
2. No accessories were fitted.
3. Values were rounded in computation.

**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**

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)	Full Scale Error %
0	0	0	%
0	0.00	0.00	0.0
15	15.20	-0.20	-0.3
30	30.20	-0.20	-0.3
45	45.20	-0.20	-0.3
60	60.30	-0.30	-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.

CALIBRATED BY	REVIEWED & APPROVED BY	LAB INCHARGE	CLIENT
 Mahdi Halim		Asjad Rafiq	