

Certificate of Qualification

Halliburton TSS Yard. Western Burjesia, Oil Street, District 29, Zubair-South Iraq.

Date of Issue : April 5, 2024	APPROVED BY LAB INCHARGE HALL	Page 1
Certificate Number : HALL-TSS-4-5-24-01	Ahmed Fouad	
Work Order Number : 326418683		

CUSTOMER DETAILS

Name : TSS Halliburton Worldwide IRAQ
Address : Western Burjesia, Oil Street, District 29, Zubair-South Iraq

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : SSV Valve Pressure Gauge
Manufacturer : MC DANIEL
Model : 316 S.S TUBE
Equip Serial No : ESD Panel 12004800-1
Type :
Range : 0 to 15000 PSI
Calibrated Range : 0 to 15000 PSI
Readability : 100 PSI
Calibrated By : Muntadher Nazar
Calibration Date : April 5, 2024
Calibration Due : April 4, 2025
Calibration Site : Halliburton TSS Yard. Burjesia Area Iraq.

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 : 22.5 ± 1°C Humidity : 40.6 ± 5 % RH Atm. Pressure : 1013.6 ± 10 hPa

CALIBRATION METHOD

The above equipment has been calibrated in accordance with **DKD R6-1**
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.

TRACEABILITY

The measurements made by TSS Halliburton Labs are traceable to TPI Certificate # 0
The measurements made by TSS Halliburton Labs, realize the physical units of measurements (SI), through its state of the art calibration standards that are controlled and maintained by TSS Halliburton.

DESCRIPTION	SERIAL NO.	SOURCE OF TRACEABILITY
Digital Pressure Gauge	468080	QC Basra IRAQ

CALIBRATION TEST RESULTS

Measured Values on Unit Under Calibration (M)	Ref. Standard Values (A)	Deviation (D=M-A)	Expanded Uncertainty (U)
PSI	PSI	PSI	± PSI
0	0	0.00	100
1000	1000	-0.30	100
3000	3000	0.00	100
6000	6001	-0.80	100
9000	9001	-0.60	100
12000	12000	0.00	100
15000	15000	0.00	100

Certificate of Qualification

Halliburton TSS Yard. Western Burjesia, Oil Street, District 29, Zubair-South Iraq.

Date of Issue : April 5, 2024	APPROVED BY LAB INCHARGE HALL	Page 1
Certificate Number : HALL-TSS-4-5-24-02	Ahmed Fouad	
Work Order Number : 326418683		

CUSTOMER DETAILS

Name : TSS Halliburton Worldwide IRAQ
Address : Western Burjesia, Oil Street, District 29, Zubair-South Iraq

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : SSV Valve HYD Pressure Gauge
Manufacturer : MC DANIEL
Model : 316 S.S TUBE
Equip Serial No : ESD Panel 12004800-2
Type :
Range : 0 to 15000 PSI
Calibrated Range : 0 to 15000 PSI
Readability : 100 PSI
Calibrated By : Muntadher Nazar
Calibration Date : April 5, 2024
Calibration Due : April 4, 2025
Calibration Site : Halliburton TSS Yard. Burjesia Area Iraq.

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 : 22.5 ± 1°C Humidity : 40.6 ± 5 % RH Atm. Pressure 1013.6 ± 10 hPa

CALIBRATION METHOD

The above equipment has been calibrated in accordance with DKD R6-1
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.

TRACEABILITY

The measurements made by TSS Halliburton Labs are traceable to TPI Certificate # 0
The measurements made by TSS Halliburton Labs, realize the physical units of measurements (SI), through its state of the art calibration standards that are controlled and maintained by TSS Halliburton.

REFERENCE EQUIPMENT USED :

DESCRIPTION	SERIAL NO.	SOURCE OF TRACEABILITY
Digital Pressure Gauge	468080	QC Basra IRAQ

CALIBRATION TEST RESULTS

Measured Values on Unit Under Calibration (M)	Ref. Standard Values (A)	Deviation (D=M-A)	Expanded Uncertainty (U)
PSI	PSI	PSI	± PSI
0	0	0.00	100
1000	1000	0.00	100
3000	3000	0.00	100
6000	6001	-0.70	100
9000	9000	0.00	100
12000	12000	0.00	100
15000	15000	0.00	100

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Halliburton TSS Yard. Western Burjesia, Oil Street, District 29, Zubair-South Iraq.

Date of Issue : April 5, 2024	APPROVED BY LAB INCHARGE HALL	Page 1
Certificate Number : HALL-TSS-4-5-24-03	Ahmed Fouad	
Work Order Number : 326418683		

CUSTOMER DETAILS

Name : TSS Halliburton Worldwide IRAQ
Address : Western Burjesia, Oil Street, District 29, Zubair-South Iraq

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : MASTER SYSTEM HYD VALVE
Manufacturer : MC DANIEL
Model : 316 S.S TUBE
Equip Serial No : ESD Panel 12004800-3
Type :
Range : 0 to 6000 PSI
Calibrated Range : 0 to 6000 PSI
Readability : 20 PSI
Calibrated By : Muntadher Nazar

Calibration Date : April 5, 2024
Calibration Due : April 4, 2025

Calibration Site : Halliburton TSS Yard. Burjesia Area Iraq.



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 : 22.5 ± 1°C Humidity : 40.6 ± 5 % RH Atm. Pressure : 1013.6 ± 10 hPa

CALIBRATION METHOD

The above equipment has been calibrated in accordance with **DKD R6-1**
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.

TRACEABILITY

The measurements made by TSS Halliburton Labs are traceable to TPI Certificate # 0
The measurements made by TSS Halliburton Labs, realize the physical units of measurements (SI), through its state of the art calibration standards that are controlled and maintained by TSS Halliburton.

REFERENCE EQUIPMENT USED :

DESCRIPTION	SERIAL NO.	SOURCE OF TRACEABILITY
Digital Pressure Gauge	468080	QC Basra IRAQ

CALIBRATION TEST RESULTS

Measured Values on Unit Under Calibration (M)	Ref. Standard Values (A)	Deviation (D=M-A)	Expanded Uncertainty (U)
PSI	PSI	PSI	± PSI
0	0	0.00	20
1000	1000	-0.30	20
2000	2001	-1.20	20
3000	3001	-1.20	20
4000	4001	-1.00	20
5000	5000	0.00	20
6000	6006	-6.00	20

Certificate of Qualification

Halliburton TSS Yard. Western Burjesia, Oil Street, District 29, Zubair-South Iraq.

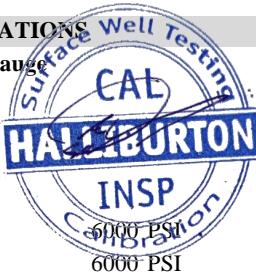
Date of Issue : April 5, 2024	APPROVED BY LAB INCHARGE HALL	Page 1
Certificate Number : HALL-TSS-4-5-24-04	Ahmed Fouad	
Work Order Number : 326418683		

CUSTOMER DETAILS

Name : TSS Halliburton Worldwide IRAQ
Address : Western Burjesia, Oil Street, District 29, Zubair-South Iraq

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Master Valve Perssure Gauge
Manufacturer : MC DANIEL
Model : 316 S.S TUBE
Equip Serial No : ESD Panel 12004800-4
Type :
Range : 0 to 6000 PSI
Calibrated Range : 0 to 6000 PSI
Readability : 20 PSI
Calibrated By : Muntadher Nazar
Calibration Date : April 5, 2024
Calibration Due : April 4, 2025
Calibration Site : Halliburton TSS Yard. Burjesia Area Iraq.



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 : 22.5 ± 1°C Humidity : 40.6 ± 5 % RH Atm. Pressure 1013.6 ± 10 hPa

CALIBRATION METHOD

The above equipment has been calibrated in accordance with **DKD R6-1**

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.

TRACEABILITY

The measurements made by TSS Halliburton Labs are traceable to TPI Certificate # 0
The measurements made by TSS Halliburton Labs, realize the physical units of measurements (SI), through its state of the art calibration standards that are controlled and maintained by TSS Halliburton.

REFERENCE EQUIPMENT USED :

DESCRIPTION	SERIAL NO.	SOURCE OF TRACEABILITY
Digital Pressure Gauge	468080	QC Basra IRAQ

CALIBRATION TEST RESULTS

Measured Values on Unit Under Calibration (M)	Ref. Standard Values (A)	Deviation (D=M-A)	Expanded Uncertainty (U)
PSI	PSI	PSI	± PSI
0	0	0.00	20
1000	1000	-0.10	20
2000	2000	-0.20	20
3000	3000	-0.30	20
4000	4000	-0.40	20
5000	5001	-0.50	20
6000	6001	-0.60	20

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Halliburton TSS Yard. Western Burjesia, Oil Street, District 29, Zubair-South Iraq.

Date of Issue : April 5, 2024	APPROVED BY LAB INCHARGE HALL	Page 1
Certificate Number : HALL-TSS-4-5-24-05	Ahmed Fouad	
Work Order Number : 326418683		

CUSTOMER DETAILS

Name : TSS Halliburton Worldwide IRAQ
Address : Western Burjesia, Oil Street, District 29, Zubair-South Iraq

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Air Supply Preasure
Manufacturer : MC DANIEL
Model : 316 S.S TUBE
Equip Serial No : ESD Panel 12004800-5
Type :
Range : 0 to 200 PSI
Calibrated Range : 0 to 200 PSI
Readability : 5 PSI
Calibrated By : Muntadher Nazar
Calibration Date : April 5, 2024
Calibration Due : April 4, 2025
Calibration Site : Halliburton TSS Yard. Burjesia Area Iraq.



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 : 22.5 ± 1°C Humidity : 40.6 ± 5 % RH Atm. Pressure : 1013.6 ± 10 hPa

CALIBRATION METHOD

The above equipment has been calibrated in accordance with **DKD R6-1**
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.

TRACEABILITY

The measurements made by TSS Halliburton Labs are traceable to TPI Certificate # 0
The measurements made by TSS Halliburton Labs, realize the physical units of measurements (SI), through its state of the art calibration standards that are controlled and maintained by TSS Halliburton.

REFERENCE EQUIPMENT USED :

DESCRIPTION	SERIAL NO.	SOURCE OF TRACEABILITY
Digital Pressure Gauge	468080	QC Basra IRAQ

CALIBRATION TEST RESULTS

Measured Values on Unit Under Calibration (M)	Ref. Standard Values (A)	Deviation (D=M-A)	Expanded Uncertainty (U)
PSI	PSI	PSI	± PSI
30	30	0.00	5
60	60	0.00	5
90	90	0.00	5
120	120	0.00	5
150	150	0.00	5
175	175	0.00	5
200	200	0.00	5

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Halliburton TSS Yard. Western Burjesia, Oil Street, District 29, Zubair-South Iraq.

Date of Issue : April 5, 2024	APPROVED BY LAB INCHARGE HALL	Page 1
Certificate Number : HALL-TSS-4-5-24-06	Ahmed Fouad	
Work Order Number : 326418683		

CUSTOMER DETAILS

Name : TSS Halliburton Worldwide IRAQ
Address : Western Burjesia, Oil Street, District 29, Zubair-South Iraq

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description	: MASTER VALVE AIR GAUGE	DEVIATION FROM STANDARD METHOD :	None
Manufacturer	: MC DANIEL	REMARK (S) :	
Model	: 316 S.S TUBE	1. No adjustments were made prior to calibration.	
Equip Serial No	: ESD Panel 12004800-6	2. Overload test was not performed.	
Type	:	3. No accessories were fitted.	
Range	: 0 to 160 PSI	4. Values were rounded in computation.	
Calibrated Range	: 0 to 160 PSI		
Readability	: 5 PSI		
Calibrated By	Muntadher Nazar		
Calibration Date	: April 5, 2024		
Calibration Due	: April 4, 2025		
Calibration Site	Halliburton TSS Yard. Burjesia Area Iraq.		

ENVIRONMENTAL CONDITIONS DURING TEST

Ambient Temperature : 22.5 ± 1°C Humidity : 40.6 ± 5 % RH Atm. Pressure 1013.6 ± 10 hPa

CALIBRATION METHOD

The above equipment has been calibrated in accordance with **DKD R6-1**
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.

TRACEABILITY

The measurements made by TSS Halliburton Labs are traceable to TPI Certificate # 0
The measurements made by TSS Halliburton Labs, realize the physical units of measurements (SI), through its state of the art calibration standards that are controlled and maintained by TSS Halliburton.

REFERENCE EQUIPMENT USED :

DESCRIPTION	SERIAL NO.	SOURCE OF TRACEABILITY
Digital Pressure Gauge	468080	QC Basra IRAQ

CALIBRATION TEST RESULTS

Measured Values on Unit Under Calibration (M)	Ref. Standard Values (A)	Deviation (D=M-A)	Expanded Uncertainty (U)
PSI	PSI	PSI	± PSI
20	20	0.00	5
40	40	0.00	5
60	60	0.00	5
80	80	0.00	5
100	100	0.00	5
130	130	0.00	5
160	160	0.00	5

Certificate of Qualification

Halliburton TSS Yard. Western Burjesia, Oil Street, District 29, Zubair-South Iraq.

Date of Issue : April 5, 2024	APPROVED BY LAB INCHARGE HALL	Page 1
Certificate Number : HALL-TSS-4-5-24-07	Ahmed Fouad	
Work Order Number : 326418683		

CUSTOMER DETAILS

Name : TSS Halliburton Worldwide IRAQ
Address : Western Burjesia, Oil Street, District 29, Zubair-South Iraq

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : SSV VALVE AIR GAUGE
Manufacturer : MC DANIEL
Model : 316 S.S TUBE
Equip Serial No : ESD Panel 12004800-7
Type :
Range : 0 to 160 PSI
Calibrated Range : 0 to 160 PSI
Readability : 5 PSI
Calibrated By : Muntadher Nazar
Calibration Date : April 5, 2024
Calibration Due : April 4, 2025
Calibration Site : Halliburton TSS Yard. Burjesia Area Iraq.



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 : 22.5 ± 1°C Humidity : 40.6 ± 5 % RH Atm. Pressure : 1013.6 ± 10 hPa

CALIBRATION METHOD

The above equipment has been calibrated in accordance with **DKD R6-1**
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.

TRACEABILITY

The measurements made by TSS Halliburton Labs are traceable to TPI Certificate # 0
The measurements made by TSS Halliburton Labs, realize the physical units of measurements (SI), through its state of the art calibration standards that are controlled and maintained by TSS Halliburton.

REFERENCE EQUIPMENT USED :

DESCRIPTION	SERIAL NO.	SOURCE OF TRACEABILITY
Digital Pressure Gauge	468080	QC Basra IRAQ

CALIBRATION TEST RESULTS

Measured Values on Unit Under Calibration (M)	Ref. Standard Values (A)	Deviation (D=M-A)	Expanded Uncertainty (U)
PSI	PSI	PSI	± PSI
20	20	0.00	5
40	40	0.00	5
60	60	0.00	5
80	80	0.10	5
100	100	0.00	5
130	130	0.00	5
160	160	-0.10	5

Certificate of Qualification

Halliburton TSS Yard. Western Burjesia, Oil Street, District 29, Zubair-South Iraq.

Date of Issue : April 5, 2024	APPROVED BY LAB INCHARGE HALL	Page 1
Certificate Number : HALL-TSS-4-5-24-08	Ahmed Fouad	
Work Order Number : 326418683		

CUSTOMER DETAILS

Name : TSS Halliburton Worldwide IRAQ
Address : Western Burjesia, Oil Street, District 29, Zubair-South Iraq

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Gauge
Manufacturer : MC DANIEL
Model : 316 S.S TUBE
Equip Serial No : ESD Panel 12004800-8
Type :
Range : 0 to 160 PSI
Calibrated Range : 0 to 160 PSI
Readability : 1 PSI
Calibrated By : Muntadher Nazar
Calibration Date : April 5, 2024
Calibration Due : April 4, 2025
Calibration Site : Halliburton TSS Yard. Burjesia Area Iraq.



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 : 22.5 ± 1°C Humidity : 40.6 ± 5 % RH Atm. Pressure : 1013.6 ± 10 hPa

CALIBRATION METHOD

The above equipment has been calibrated in accordance with **DKD R6-1**

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.

TRACEABILITY

The measurements made by TSS Halliburton Labs are traceable to TPI Certificate # 0
The measurements made by TSS Halliburton Labs, realize the physical units of measurements (SI), through its state of the art calibration standards that are controlled and maintained by TSS Halliburton.

REFERENCE EQUIPMENT USED :

DESCRIPTION	SERIAL NO.	SOURCE OF TRACEABILITY
Digital Pressure Gauge	468080	QC Basra IRAQ

CALIBRATION TEST RESULTS

Measured Values on Unit Under Calibration (M)	Ref. Standard Values (A)	Deviation (D=M-A)	Expanded Uncertainty (U)
PSI	PSI	PSI	± PSI
0	0	0.00	1
30	30	0.00	1
60	60	0.00	1
90	90	0.00	1
120	120	0.00	1
140	140	0.00	1
160	160	0.00	1

Certificate of Calibration

Al Takamul Yard, North Rumailah South Iraq

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Date of Issue: April 5, 2024

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WORK ORDER NUMBER	: 326418683	CUSTOMER DETAILS	
JOB NUMBER	: QC/JN/24/00194	Name	: Halliburton Worldwide IRAQ (TSS)
CERTIFICATE NUMBER	: QC240405-01	Address	: Western Burjesia, Oil Street, District Zubair-South Iraq

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Relief Valve
Manufacturer : BIS Valves Ltd.
Model : NA
Serial Number : 12004800-9
Location : ESD#12004800
Set/Pressure : 4000 psi
Tolerance : $\pm 3\%$
As Found : Good
Calibration Date : April 5, 2024
Calibration Due : **04 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
4000	3986	14	120.0

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	 Asjad Rafiq	LAB INCHARGE	

Certificate of Calibration

Al Takamul Yard, North Rumailah South Iraq

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WORK ORDER NUMBER	: 326418683	CUSTOMER DETAILS	
JOB NUMBER	: QC/JN/24/00194	Name	: Halliburton Worldwide IRAQ (TSS)
CERTIFICATE NUMBER	: QC240405-02	Address	: Western Burjesia, Oil Street, District Zubair-South Iraq

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Relief Valve
Manufacturer : BIS Valves Ltd.
Model : NA
Serial Number : 12004800-10
Location : ESD#12004800
Set/Pressure : 4000 psi
Tolerance : $\pm 3\%$
As Found : Good
Calibration Date : April 5, 2024
Calibration Due : **04 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 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 Pressure on Unit Under Calibration (M)	Ref. Standard Values (A)	Deviation (D=M-A)	Tolerance Limit
psi	psi	psi	\pm psi
4000	4008	-8	120.0

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	 Asjad Rafiq	LAB INCHARGE	



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

Certificate of Calibration

Al Takamul Yard, North Rumailah South Iraq

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Date of Issue: April 5, 2024

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WORK ORDER NUMBER	: 326418683	CUSTOMER DETAILS	
JOB NUMBER	: QC/JN/24/00194	Name	: Halliburton Worldwide IRAQ (TSS)
CERTIFICATE NUMBER	: QC240405-03	Address	: Western Burjesia, Oil Street, District Zubair-South Iraq

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : **Pressure Relief Valve**
 Manufacturer : BIS Valves Ltd.
 Model : NA
 Serial Number : 12004800-11
 Location : ESD#12004800
 Set/Pressure : 10000 psi
 Tolerance : $\pm 3\%$
 As Found : Good
 Calibration Date : April 5, 2024
Calibration Due : **04 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
10000	10017	-17	300.0

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	 AS/2 For Engineering Services	LAB INCHARGE Asjad Rafiq	



Certificate of Calibration

Al Takamul Yard, North Rumailah South Iraq

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WORK ORDER NUMBER	: 326418683	CUSTOMER DETAILS	
JOB NUMBER	: QC/JN/24/00194	Name	: Halliburton Worldwide IRAQ (TSS)
CERTIFICATE NUMBER	: QC240405-04	Address	: Western Burjesia, Oil Street, District Zubair-South Iraq

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Relief Valve
Manufacturer : BIS Valves Ltd.
Model : NA
Serial Number : 12004800-12
Location : ESD#12004800
Set/Pressure : 10000 psi
Tolerance : $\pm 3\%$
As Found : Good
Calibration Date : April 5, 2024
Calibration Due : 04 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 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 Pressure on Unit Under Calibration (M)	Ref. Standard Values (A)	Deviation (D=M-A)	Tolerance Limit
psi	psi	psi	\pm psi
10000	10059	-59	300.0

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	



Certificate of Calibration

Al Takamul Yard, North Rumailah South Iraq

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Date of Issue: April 5, 2024

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WORK ORDER NUMBER	: 326418683	CUSTOMER DETAILS	
JOB NUMBER	: QC/JN/24/00194	Name	: Halliburton Worldwide IRAQ (TSS)
CERTIFICATE NUMBER	: QC240405-05	Address	: Western Burjesia, Oil Street, District Zubair-South Iraq

EQUIPMENT IDENTIFICATION AND SPECIFICATIONS

Description : Pressure Relief Valve
Manufacturer : BIS Valves Ltd.
Model : NA
Serial Number : 12004800-13
Location : ESD#12004800
Set/Pressure : 175 psi
Tolerance : $\pm 3\%$
As Found : Good
Calibration Date : April 5, 2024
Calibration Due : 04 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 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 Pressure on Unit Under Calibration (M)	Ref. Standard Values (A)	Deviation (D=M-A)	Tolerance Limit
psi	psi	psi	\pm psi
175	177.8	-2.8	5.3

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	 Asjad Rafiq	LAB INCHARGE	