

**AI TAKAMUL COMPANY FOR ENGINEERING TESTS  
AND PROFESSIONAL SAFETY LIMITED**

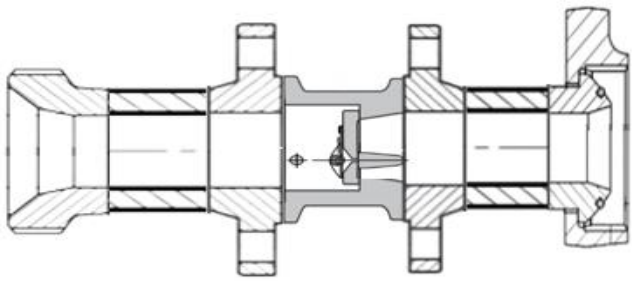
Basra, North Rumaila, Quality Control Yard - Iraq



**CERTIFICATE OF QUALIFICATION VISUAL AND WITNESS PRESSURE TEST**

THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIREMENTS

CLIENT:	<b>HALLIBURTON</b>	REPORT No.:	QC-25-02-TSS-NDT-062
LOCATION:	TSS WORKSHOP & INSPECTION TEST AREA	JOB NO :	11022025
WORK ORDER #	***	SPECIFICATION:	ASME B31.1 / CUSTOMER SPECIFICATION
DATE OF INSPECTION :	Wednesday, February 12, 2025	INSP. DUE DATE:	<b>Monday, August 11, 2025</b>
TYPE OF INSPECTION:	VISUAL INSPECTION AND WITNESS PRESSURE TEST		
DESCRIPTION:	CHECK VALVE 4" 150 CL (FLAPPER VALVE )	SERIAL NO:	03RT3
MAXIMUM WORKING PRESSURE TEST	270 psi	HOLDING TIME:	15 MINUTES
Pump NO.::	EQ.NO:13119220	CAL DUE DATE:	19.AUG.2025
Pressure Gauge NO.:	218230280019	CAL DUE DATE:	06.MAR.2025



ONLINE TRACEABILITY

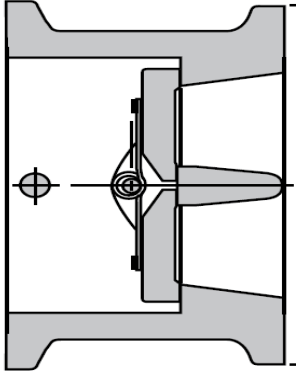

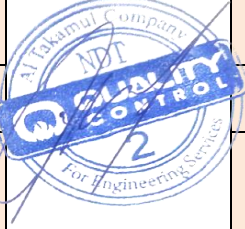
**INSPECTION RESULT**

PRESSURE TEST 1:	The Above Item was Body Tested to 270 PSI Maximum Working pressure Hold 15 min no Leak was Realized while testing & Pressure Was Stable Accordance To Chart Recorder Attached
PRESSURE TEST 2:	The Above Item was Flapper Pressure Tested to 270 PSI Maximum Working pressure Hold 15 min no Leak was Realized while testing & Pressure Was Stable Accordance To Chart Recorder Attached

PERSON DETAILS		REVIEW BY		
INSPECTOR NAME:	M. Shalazad Ahmed	SENIOR INSPECTOR:	NAVEED HUSSAIN	CLIENT:
QUALIFICATION:	ASNT CP-105	INSPECTION SUPERVISOR:	HANI ALI	HB&SIGN
SIGNATURE & STAMP:				DATE:

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CERTIFICATION OF VISUAL, THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION														
<b>Client:</b>		HALLIBURTON (TSS)			<b>Report No:</b>		QC-25-02-TSS-NDT-063							
<b>Location:</b>		TSS YARD			<b>JOB NO:</b>		11022025							
<b>Inspection Date:</b>		Tuesday, February 11, 2025			<b>Next Inspection Date:</b>		Sunday, August 10, 2025							
<b>Type Of Inspection:</b>		VISUAL , THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION			<b>Specification:</b>		ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019)							
					<b>UNIT DESCRIPTION:</b>		CHECK VALVE 4" 150 CL							
					<b>UNIT S/N:</b>		03RT3							
					<b>INSPECTION RESULT :</b>									
					<b>VISUAL , THOROUGH EXAMINATION</b>		VISUAL & MAGNETIC PARTICLE INSPECTION ( M.P.I. ) HAD BEEN DONE ON THE AVAILABLE AREAS FOR THE ABOVE DESCRIPTION							
					<b>MAGNETIC PARTICLE INSPECTION</b>		Available critical areas inspected and found free from cracks and other defects							
					<b>FINAL RESULTS</b>		THE ABOVE INSPECTED AREAS WAS ACCEPTED							
					<b>COMMENT:</b>									
Magnetic Particle Inspection With A/C Hand Yoke , Black & White Contrast														
EQUIPMENT DETAILS					PERSON DETAILS			REVIEW BY						
<b>Equipment:</b>	AC-Yoke Test Block	<b>Equipment:</b>	Digital Lux Meter	<b>Equipment:</b>	AC/DC Yoke	<b>INSPECTOR NAME:</b> M.SHAHZAD AHMED		<b>SENIOR INSPECTOR:</b>	NAVEED HUSSAIN					
<b>S.No:</b>	1657	<b>S.No:</b>	2722003	<b>S.No:</b>	201504052									
<b>Cal Due Date:</b>	11-Apr-25	<b>Cal Due Date:</b>	13-Apr-25	<b>Cal Due Date:</b>	11-Apr-25	<b>QUALIFICATION:</b> ASNT LEVEL II MT & PT & VT		<b>SUPERVISOR:</b>	HANI ALI					
<b>Black Magnetic Ink Manufacture:</b>	Magnaflux	<b>Batch No:</b>	230604	<b>Expiry Date:</b>	JUNE, 2026									
<b>Whie Contrast Paint Manufacture:</b>	Magnaflux	<b>Batch No:</b>	230408	<b>Expiry Date:</b>	APRIL, 2026	<b>STAMP &amp; SIGNATURE:</b> 		<b>CLIENT:</b>						
<b>Technical Details:</b>	<b>Magnetic Partical Concentration</b>		<b>Method</b>		<b>WMPT Light Intensity</b>									
	1.2 to 2.4 ml/100 ml		Wet Magnetic Particle Testing (WMPT)		3620 Lux									

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CERTIFICATION OF VISUAL, THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION											
<b>Client:</b>		HALLIBURTON (TSS)			<b>Report No:</b>		QC-25-02-TSS-NDT-064				
<b>Location:</b>		TSS YARD			<b>JOB NO:</b>		11022025				
<b>Inspection Date:</b>		Tuesday, February 11, 2025			<b>Next Inspection Date:</b>		Sunday, August 10, 2025				
<b>Type Of Inspection:</b>		VISUAL , THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION			<b>Specification:</b>		ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019) & API 6A				
				<b>UNIT DESCRIPTION:</b>		FLANGE: 4" 150 CL X 4" 206 WING					
				<b>UNIT S/N:</b>		TSS-8608					
				<b>INSPECTION RESULT :</b>							
				<b>VISUAL , THOROUGH EXAMINATION</b>		VISUAL & MAGNETIC PARTICLE INSPECTION ( M.P.I. ) HAD BEEN DONE ON THE AVAILABLE AREAS FOR THE ABOVE DESCRIPTION					
				<b>MAGNETIC PARTICLE INSPECTION</b>		Thread & Available critical areas inspected and found free from cracks and other defects					
				<b>FINAL RESULTS</b>		THE ABOVE INSPECTED AREAS WAS ACCEPTED					
<b>COMMENT:</b>											
(MPI Wet Fluorescent inspection Thread With UltraViolet Light) Magnetic Particle Inspection With A/C Hand Yoke , Black & White Contrast											
EQUIPMENT DETAILS					PERSON DETAILS			REVIEW BY			
<b>EQUIPMENT :</b>	AC/DC HAND Yoke	<b>EQUIPMENT :</b>	Shooting Coil DC	<b>EQUIPMENT :</b>	UV BLACK LIGHT: 3160 μw/cm <sup>2</sup>		<b>INSPECTOR NAME:</b> M.SHAHZAD AHMED	<b>SENIOR INSPECTOR:</b>	NAVEED HUSSAIN		
<b>S.NO:</b>	201504052	<b>S.NO:</b>	22650	<b>S.NO:</b>	1898977						
<b>Cal Due Date:</b>	11.APRIL.2025	<b>Cal Due Date:</b>	12.APRIL.2025	<b>Cal Due Date:</b>	11.APRIL.2025		<b>QUALIFICATION:</b> ASNT LEVEL II MT & PT & VT	<b>SUPERVISOR:</b>	HANI ALI		
<b>FLUORESCENT 14HF</b>		Magnaflux	<b>Batch No:</b>	230503	<b>EXPIRE DATE:</b>	MAY.2026					
<b>White Contrast Paint Manufacture:</b>		Magnaflux	<b>Batch No:</b>	230408	<b>EXPIRE DATE:</b>	APRIL,2026	<b>STAMP &amp; SIGNATURE:</b>	<b>CLIENT:</b>			
Digital Lux Meter WHITE LIGHT INTENSITY:		<b>TECHNICAL DETAILS</b>			Black Magnetic Ink Manufacture:7HF						
3620 Lux/S.NO:2722003		Wet FLUORESCENT Particle Concentration 14 HF		0.1 to 0.4 ml/100 ml		Batch No:230604					
<b>Cal Due Date:13.APRIL.2025</b>		Black Magnetic Ink Concentration 7 HF		1.2 to 2.4 ml/100 ml		<b>EXPIRE DATE:</b> JUNE, 2026					

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CERTIFICATION OF VISUAL, THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION											
<b>Client:</b>		HALLIBURTON (TSS)			<b>Report No:</b>		QC-25-02-TSS-NDT-065				
<b>Location:</b>		TSS YARD			<b>JOB NO:</b>		11022025				
<b>Inspection Date:</b>		Tuesday, February 11, 2025			<b>Next Inspection Date:</b>		Sunday, August 10, 2025				
<b>Type Of Inspection:</b>		VISUAL , THOROUGH EXAMINATION & MAGNETIC PARTICLE INSPECTION			<b>Specification:</b>		ASTM E709 & ASTM E 1444 (2016) ASME V Article 7 (2019) & API 6A				
					<b>UNIT DESCRIPTION:</b>		FLANGE: 4" 150 CL X 4" 206 THREAD				
					<b>UNIT S/N:</b>		TSS-8607				
					<b>INSPECTION RESULT :</b>						
					<b>VISUAL , THOROUGH EXAMINATION</b>		VISUAL & MAGNETIC PARTICLE INSPECTION ( M.P.I. ) HAD BEEN DONE ON THE AVAILABLE AREAS FOR THE ABOVE DESCRIPTION				
					<b>MAGNETIC PARTICLE INSPECTION</b>		Thread & Available critical areas inspected and found free from cracks and other defects				
					<b>FINAL RESULTS</b>		THE ABOVE INSPECTED AREAS WAS ACCEPTED				
<b>COMMENT:</b>											
(MPI Wet Fluorescent inspection Thread With UltraViolet Light) Magnetic Particle Inspection With A/C Hand Yoke , Black & White Contrast											
EQUIPMENT DETAILS					PERSON DETAILS			REVIEW BY			
<b>EQUIPMENT :</b>	AC/DC HAND Yoke	<b>EQUIPMENT :</b>	Shooting Coil DC	<b>EQUIPMENT :</b>	UV BLACK LIGHT: 3160 μw/cm <sup>2</sup>	<b>INSPECTOR NAME:</b> M.SHAHZAD AHMED		<b>SENIOR INSPECTOR:</b>	NAVEED HUSSAIN		
<b>S.NO:</b>	201504052	<b>S.NO:</b>	22650	<b>S.NO:</b>	1898977			<b>SUPERVISOR:</b>	HANI ALI		
<b>Cal Due Date:</b>	11.APRIL.2025	<b>Cal Due Date:</b>	12.APRIL.2025	<b>Cal Due Date:</b>	11.APRIL.2025			<b>QUALIFICATION:</b> ASNT LEVEL II MT & PT & VT	<b>CLIENT:</b>		
<b>FLUORESCENT 14HF</b>		Magnaflux	<b>Batch No:</b>	230503	<b>EXPIRE DATE:</b>	MAY.2026					
<b>White Contrast Paint Manufacture:</b>		Magnaflux	<b>Batch No:</b>	230408	<b>EXPIRE DATE:</b>	APRIL,2026					
<b>TECHNICAL DETAILS</b>					<b>Black Magnetic Ink Manufacture:7HF</b>		<b>STAMP &amp; SIGNATURE:</b>				
Digital Lux Meter WHITE LIGHT INTENSITY:	3620 Lux/S.NO:2722003		Wet FLUORESCENT Particle Concentration 14 HF		0.1 to 0.4 ml/100 ml		Batch No:230604				
<b>Cal Due Date:13.APRIL.2025</b>	Black Magnetic Ink Concentration 7 HF		1.2 to 2.4 ml/100 ml		<b>EXPIRE DATE:</b>		JUNE, 2026				

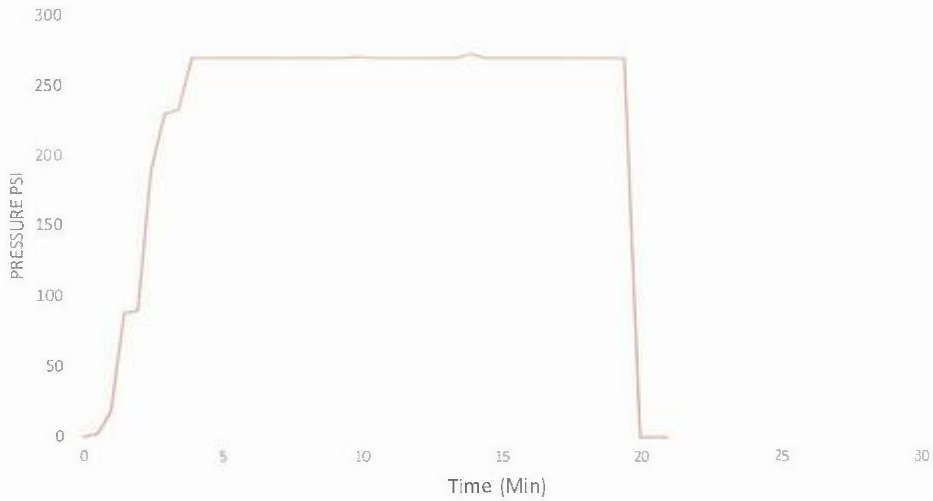
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# Data Collection Report

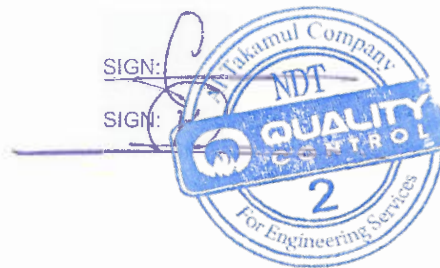
Gauge Information	
Serial Number	218230280019
Model	ADT680W-25-GP30K-PSI-AM
Calibration Date	07-Mar-24
Range	30000 PSI

Run Info	
Start Time	8:44 AM
Stop Time	9:04 AM
Test Date	12-Feb-25
EQ NUMBER	03RT3

## READING



TESTED BY: Feras Abbas  
APPROVED BY: Khaldoon Asad  
COMMENTS: Body Test

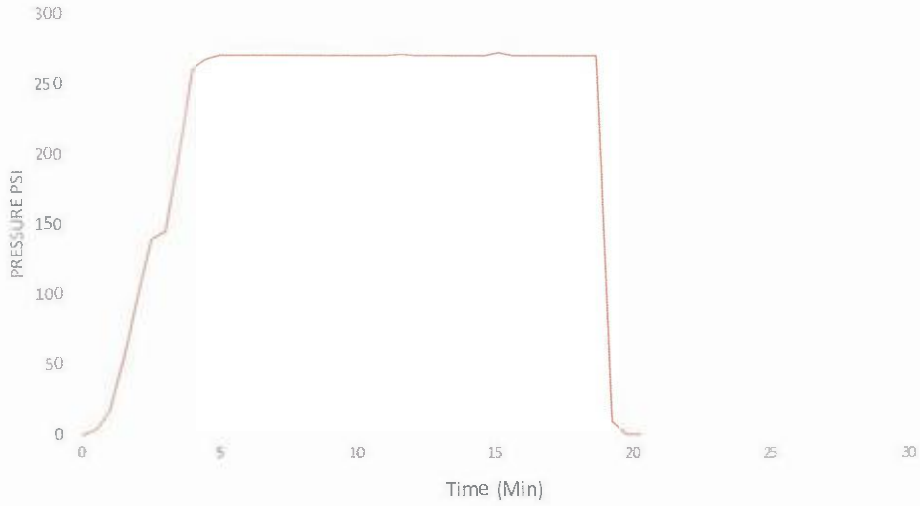


# Data Collection Report

Gauge Information	
Serial Number	218230280019
Model	ADT680W-25-GP30K-PSI-AM
Calibration Date	07-Mar-24
Range	30000 PSI

Run Info	
Start Time	9:18 AM
Stop Time	11:37 AM
Test Date	12-Feb-25
EQ NUMBER	03RT3

## READING



TESTED BY: Feras Abbas  
APPROVED BY: Khaldoun Asad  
COMMENTS: Flapper Test

SIGN: \_\_\_\_\_  
SIGN: \_\_\_\_\_