

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

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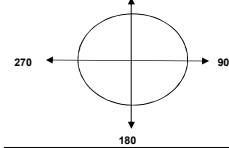
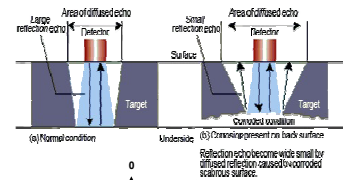
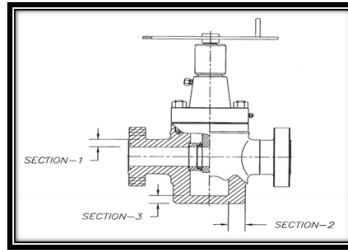
**CERTIFICATE OF VISUAL AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING**

THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIREMENTS

<b>CLIENT:</b>	<b>ZHONGMAN PETROLEUM AND NATURAL GAS GROUP. Co. Ltd. Iraq Branch</b>	<b>REPORT NO:</b>	QC-06-24-0190-HP-030
<b>RIG &amp; LOCATION:</b>	ZPEC - 25 / RU - 620	<b>JOB NO:</b>	QC-ZPEC-JUN-24-0190
<b>INSPECTION DATE:</b>	25-Jun-2024	<b>DUE DATE:</b>	ANNUAL INSPECTION
<b>UNIT NAME:</b>	PUMP MANIFOLD GATE VALVE	<b>MFG SERIAL NO:</b>	G22078041 / F22068109
<b>DESCRIPTION:</b>	4 1/16" / 5M	<b>SPECIFICATION:</b>	ASTM E 709 / ASTM E 797

**TYPE OF INSPECTION:** VISUAL, MPI, AND ULTRASONIC WALL THICKNESS MEASUREMENT:

**INSPECTION DETAILS:**



Online Traceability



A: 0° 12'O CLOCK / FORWARD  
 B: 90° 3'O 90° CLOCK / CENTER  
 C: 180° 6'O CLOCK / AFT  
 D: 270° 9'O CLOCK / PORT  
 \*\*\*ALL READINGS IN MM:  
 \*\*\*MINIMUM THICKNESS PROVIDED BY CLIENT:

ANGLE:	THICKNESS AT POSITION:				SECTION 1 MIN: THICKNESS	SECTION 2 MIN: THICKNESS	SECTION 3 MIN: THICKNESS	Remarks:
	Section 1-A	Section 1-B	Section 2	Section 3				
0°	19.310	19.640	48.730	48.690	9.980	36.830	31.750	Accepted
90°	19.350	19.610	48.650	48.650				Accepted
180°	19.320	19.510	48.610	48.670				Accepted
270°	19.390	19.630	48.630	48.640				Accepted

**INSPECTION RESULT:**

<b>UT</b>	Accepted	***UT-The Above Item Was Found Acceptable As Per ASTM E 797 Acceptance Criteria and Also As Per Client Specification...
<b>MPI</b>	Accepted	*** MPI-The Above Item Weldment Area Had No Significant Discontinuous At The Time Of The Inspection And Was Found Acceptable In Accordance To ASTM E 709...

**Inspection Evaluation**

As Per OEM, The Readings Were Found Under The Acceptance Criteria At The Time of Inspection:

**INSPECTION EQUIPMENT DETAILS:**

<b>UT THICKNESS GAUGE:</b>	5500391	<b>CAL DUE DATE:</b>	14-Aug-2024
<b>UT Test Block:</b>	NoBo5087	<b>CAL DUE DATE:</b>	15-Aug-2024
<b>Permanent Hand Magnet:</b>	PY - 09	<b>CAL DUE DATE:</b>	15-Aug-2024
<b>White Contrast WPC-2 / Magnaflux:</b>	Batch No:220602	<b>EXPIRE DATE:</b>	Jun - 2025
<b>Black Ink 7HF / Magnaflux:</b>	Batch No:220605	<b>EXPIRE DATE:</b>	July - 2025

PERSON DETAILS:		REVIEW BY:		CLIENT:	
<b>INSPECTOR NAME:</b>	Syed Aamir Ali	<b>SENIOR INSPECTOR:</b>	Naveed Hussain	<b>CLIENT:</b>	ZPEC
<b>QUALIFICATION:</b>	ASNT LEVEL II VT,MT,PT,UT & LEEA III	<b>INSPECTION SUPERVISOR:</b>	Rao Suhail	<b>H B &amp; SIGNATURE:</b>	

Original - Client Files Copy - Area Office QC/FN/UT/077 Rev.00 Dated: 07 Nov - 2021

