

AI TAKAMUL COMPANY FOR ENGINEERING TESTING AND PROFESSIONAL SAFETY LIMITED

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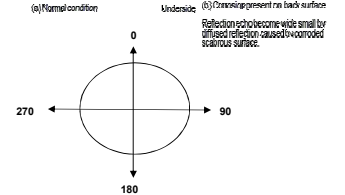
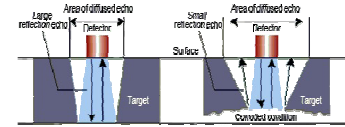
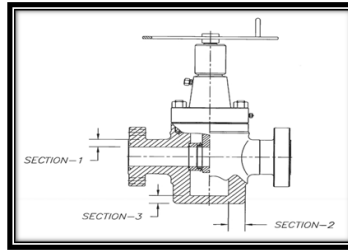


CERTIFICATE OF VISUAL AND MAGNETIC PARTICLE INSPECTION AND ULTRASONIC THICKNESS GAUGING

THIS REPORT COMPLIES WITH RECOGNIZED INTERNATIONAL STANDARDS & TECHNICAL REQUIREMENTS

CLIENT:	ZHONGMAN PETROLEUM AND NATURAL GAS GROUP. Co. Ltd. Iraq Branch	REPORT NO:	QC-06-24-0190-HP-034
RIG & LOCATION:	ZPEC - 25 / RU - 620	JOB NO:	QC-ZPEC-JUN-24-0190
INSPECTION DATE:	25-Jun-2024	DUE DATE:	ANNUAL INSPECTION
UNIT NAME:	PUMP MANIFOLD GATE VALVE	MFG SERIAL NO:	G22078041 / F22068108
DESCRIPTION:	4 1/16" / 5M	SPECIFICATION:	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°	19.330	19.630	48.690	48.610	9.980	36.830	31.750	Accepted
90°	19.350	19.610	48.610	48.650				Accepted
180°	19.300	19.580	48.630	48.620				Accepted
270°	19.310	19.600	48.620	48.600				Accepted

INSPECTION RESULT:

UT	Accepted	***UT-The Above Item Was Found Acceptable As Per ASTM E 797 Acceptance Criteria and Also As Per Client Specification...
MPI	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:

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

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



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

