## INSPECTION CERTIFICATE

MESSRS	UNIMECH	ENGINEERING	(M) SDN. E	SHU.				Certificate No. 1020332040-009-01-01
DELIVER To								Date : 2020/07/06
JOB NAME								
JOB No.								
P.O.No.	APO-2004	-0009						KITZ
PRODUCT CODE								
SPECIFICATIO	NN				MAIN	DADTO		
Manuf No.	10203320	40-00Q					of parts	Material
Description	TYPE 600	CAST STAINL	FSS STEFL	BALL VALVE		BODY	or parts	Gr. CF8M
700011711011	SCREWED			BALL VALVE	001	BODT		GT. GT GW
Figure	UTKM1/2							
Size	1/2			inch(B)				
Quantity	288				-			
Valve No.								
Item No.	12							
Kiki No.								
TEST								
Pressure test	Judge.	Inspecti	on fluid a	nd pressure	Item		Judge.	Attached sheet
Shell	Good	Hydro	6.20	MPa	Mater	ial	Good	
		Air	-		Dimens	sion	Good	
Seat		Hydro	-		Visua	<u> </u>	Good	
<b>3041</b>	Good	Air	0.6	MPa	Opera		Good	
	Good			WIFA	Орета	. 1011	0000	Attached sheet  Material Test Result
Back seat		Hydro	-					
		Air	-					
NONDESTRUCT	IVE EXAMIN	ATION					1	
Type of exami				Attached she	et			
REMARKS								
REPRESENTATIV	E TEST BY F	HYDRAULIC SH	ELL TEST H	AS BEEN PERFOR	RMED			
							2/1	and the same of th
		Witnessed	bv	_		K	ITZ COF	RPORATION

## MATERIAL TEST RESULT

MESSRS		UN	UNIMECH ENGINEERING (M) SDN. BHD.												Certificate No. 1020332040-009-01-01-Z1						
JOB N	JOB NAME																Dat				
	JOB No.																		<b>-</b>		
P.O.No. A PRODUCT CODE		AP	APO-2004-0009													K		<b>T</b> 2			
TRODO	OT OODL																				
Figur	e UTKM	1/2											V	alve No.							
Material ASTM A				A 351 Gr. CF8M								٦Ŀ	tem No.	12							
	<u>harge No.</u> 04R–6M			Display No. D04RM				Name of Parts BODY													
	2 V03RM							BODY	DY												
	3 D03-5M			DO3RM				BODY BODY													
	4 V05RM  CHEMICAL COMPOSITI			 TON %				ז עטם													
Eleme	nt C	Mn	1	Si	S		Р	Ni	Cr		Мо										
Spe	ec. Max 0.0			Max 1.50	Max		Max 0.040	9.0 12.0	18. 21.		2.0 3.0										
1	0.0	6 0.	.94	1.06	0.0	)12	0.029	9.3	19.	0 2	2.2										
2	0.0			0.66 1.11	0.0	)03   )10	0.029 0.032	9.9 9.3	18.3 19.3		2.4 2.1										
4	0.0			0.58			0.027		18.		2.3		_								
Eleme Spe													+								
													_								
1 2																					
3																					
TFNS	ION TES	 Т			<u> </u>									IMPAC	T TF	L ST					
Item	1011 120							Yield s			gation			11111 710							
Unit Spec.						MPa Min		MPa Min		% Min								-			
						485		205		30											
1 2						585 511		290 251		39 47											
3						571		349		43											
4	<u> </u>				$\frac{1}{1}$	802		387		47		<u> </u>								<u> </u>	
ltem Unit					+							+									
Spec.																					
1																					
2																					
4																					
	TREATM																				
	ec. :1100° C	Min 1																			
2 ST	:1080° C	' 1.5h	h WC	Q																	
	:1100° C																				
4 ST:1080°C* 1.5h WQ N:Normalizing A:Annealing WQ:Water Quenching 0Q:0il Quenchir						T:Tempering						Q:Quenchi			AC:Air Cooling g ST:Solution Treatment						
REMAI		enchir	ng	OQ:	UII	Quer	nching		WC:W	ater	Cooli	ng		FC:Furnac	ce Coo	ling	S	1:S0	iution	ıreatme	nt
	04 Type	2.2																			
	٠.																				
L															_						
															4	<u> </u>	) 		>		
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				K	evie	wed	IJУ							17.116		QC Ma	anager	<b>М</b> І І			

## MATERIAL TEST RESULT

MESSRS		UNIMECH ENGINEERING (M) SDN. BHD.													Certificate No. 1020332040-009-01-01-Z2							
JOB	NAME																	Date : 2020/07/06				
JOB				APO 2004 0000													•			_		
	P.O.No. PRODUCT CODE			APO-2004-0009													<b>≪</b>		72			
PRUL	JUC I	CODE													_			•				
	Figure UTKM1/2 Valve No.																					
Material ASTM A 351 Gr. CF8M Charge No. Display No.							I					Item No.   12										
1	<u>Charc</u> K04RM	ge No. Display No.				Name of Parts BODY									-							
	2																					
3	3																					
4			001710	NI 0/								<u>:                                    </u>				<u>i</u>						
FLer	MICA nent	C COMP	081110  Mn	OSITION % Mn Si S P			Ni Cr Mo								1							
	Spec.		Max	Max	Max	Max	9.0	18.0		2.0					1							
$\vdash$	_	0.08	1.50	1.50	0.040	0.040	12.0	21.0	) 3	3.0												
1 2		0.05	0.89	1.27	0.009	0.022	9.4	18.1	1 2	2.0												
3																						
4																						
k	lement Spec.													+								
\ <u>`</u>	pec.																					
1																						
2																						
4																						
TENSION TEST IMPACT TEST																						
Iten	Tensile str. Yiel																					
Unit Spec					MPa % Min Min																	
		485			205 30																	
1					57	1	357		38													
2																						
4																						
Iten	n																					
<u>Unit</u>																						
Spe	S.																					
1																						
2																						
3 4																						
HEA	T TR	EATMEN	T °C													-		<u> </u>				
9	Spec.	Мi	n 1040°																			
	ST:10	80° C*11	Omin \	VQ																		
2																						
4																						
N:Normalizing A:Annealing WQ:Water Quenching OQ:Oil Quenching						T:Tempering WC:Water Cooling						Quench i	ng ce Cooli	na	AC:Air Cooling g ST:Solution Treatment							
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		Type 2.	2																			
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														-4	<u> </u>			>				
				R	ev i ewe	d by		-				_	KiT	Z CO	RPC		TiO	N				
														- QC	Manag	er		-				