INSPECTION CERTIFICATE

MESSRS	UNIMECH	ENGINEERING	(M) SDN. E	BHD.			Certificate No. 1020332040-008-01-01
DELIVER To							Date : 2020/07/15
JOB NAME							
JOB No.							
P.O.No.	AP0-2004	-0009					KIT2
PRODUCT CODE							
SPECIFICATIO	ON				MAIN PARTS	3	
Manuf No.	102033204	40-008			No. Name	of parts	Material
Description	TYPE 600 SCREWED I	CAST STAINI ENDS	LESS STEEL	BALL VALVE	001 BODY		Gr. CF8M
Figure	UTKM3/8						
Size	3/8			inch(B)			
Quantity	80						
Valve No.							
Item No.	11						
Kiki No.		_					
TEST							
Pressure test	Judge.	Inspecti	on fluid a	nd pressure	Item	Judge.	Attached sheet
Shell	Good	Hydro	6.20	MPa	Material	Good	Material Test Result
		Air	-		Dimension	Good	
Seat		Hydro	-		Visual	Good	
	Good	Air	0.6	MPa	Operation	Good	
Back seat		Hydro	-				
		Air	-				
NONDESTRUCT	IVE EXAMIN	ATION				l	
Type of exami				Attached she	eet		
DEMARKS							
REMARKS	/E TEOT DV '	INDUNII 10 01	ELL TECT !	AS BEEN PERFOR	DMED		
REPRESENTATIV	E IESI BY F	IYDKAULIC SF	ELL 1EST H	AS BEEN PERFU	KWED		
						2//	Pares -
		Witnessed	by	_	F	COT CO	RPORATION

MATERIAL TEST RESULT

MESSRS			UNIMECH ENGINEERING (M) SDN. BHD.													Certificate No. 1020332040-008-01-01-Z1							
JOB N	AME																			: 202			
JOB N																							
$\overline{}$	P.O.No. APO-2004-0009 PRODUCT CODE																					2	
TRODO	OT CODE																						
Figur	e UTKI	M3/8												Valv	ve No.								
Material ASTM A 351 Gr. CF8M													Iten	No.	11								
	Charge No. 1 K89RM			Display No.			Name of Parts BODY																
	3RM							BODY															
	-						BODY BODY																
4 K96RM CHEMICAL COMPOSITION %							BODY					_ !						!					
Eleme				Si	S	_	Р	Ni	Cr		Мо												
Spe	ec. Max 0.0			Max 1.50	Max		Max 0.040	9.0	18. 21.		2.0												
1	0.0			1.23			0.040		18.		3.0 2.3		\dagger				+						
2	0.0)5	1.15	1.18	0.0	006	0.029	9.3	18.	2	2.2												
3 4	0.0			0.95 1.05			0.035 0.034		18. 18.		2.1 2.1												
Eleme													4				4				_		
Spe	ec.																						
1																							
2 3																							
4																							
	ION TES	N TEST IMPACT TE Tensile str. Yield str. Elongation									T TES	ST	1										
ltem Unit						MPa	ile str.	MPa	tr.	Elon %	igation_								+				
Spec.						Min		Min		Min													
1						485 555		205 357		30 38		+		\dashv					+				
2						585		370		44													
3 4						565 587		353 369		39 46													
Item					I																		
Unit Spec.			<u> </u>		+					<u> </u>		-					+				+		
1 2																							
3																							
<u>4</u> ⊔⊏∧⊤	<u>I</u> TREATM	/ENIT	• c							<u> </u>													
	ec.		1040°	C WQ									Π										
	:1080°C																						
3 ST	:1080°C :1080°C	* 11	Omin	WQ																			
4 ST	:1080°C	* 11	Omin	WQ											<u> </u>				10.1				
N:Normalizing A:Annealing WQ:Water Quenching OQ:0il Quenching					T:Tempering WC:Water Cooling							Quenchi :Furnac	ling	AC:Air Cooling g ST:Solution Treatment									
	WQ:Water Quenching OQ:Oil Quenching WC:Water Cooling FC:Furnace Cooling ST:Solution Treatment REMARKS																						
EN102	.04 Type	2.2																					
																`		1					
																-4	2		-				
				R	evie	-wed	by		-					_	KiT:						<u> </u>		
				11		ou	~ ,								• •			nager	,				

MATERIAL TEST RESULT

MESSRS	6		UNIMECH ENGINEERING (M) SDN. BHD.													Certificate No. 1020332040-008-01-01-Z2					
JOB NAME																	: 202				
JOB No											1 -										
P.O.No			AP0-20	APO-2004-0009														T			
PRODUC	CT CO	ODE										}		71							
Figure	Figure UTKM3/8 Valve No.																				
Material ASTM A 351 Gr. CF8M												Ite	m No.	11							
Cha	Charge No.			Displa	Name o	of Pa	rts														
2 K9	1 K97RM 2 K95RM						BODY BODY														
3 4																					
CHEMI	CAL	COMP	OSITIO	SITION %																	
Elemer	nt		Mn	Si	S	Р	Ni	Cr		Мо											
Spe	c.	Max		Max	Max	Max	9.0	18.0		2.0											
		0.08		1.50		0.040		21.0		3.0		+		-	-	-					
1 2		0.05 0.06		1.21 1.24		0.034		18.2 18.1		2.1 2.1											
3		0.00																			
4 Elemer	\ t														+						
Spec.																					
1	\rightarrow														+						
2																					
3 4																					
	TENSION TEST IMPACT TEST																				
Item	Tensile str. Yield str. Elongation										1 1201					П					
Unit	it MPa				MPa %																
Spec.	. Min 485			Min Min 205 30																	
1					57		352		49												
2					55	57	351	4	46												
3 4																					
Item	<u> </u>		T		<u> </u>	I					'		"			1		ı			
Unit																					
Spec.																					
1																					
2																					
4																					
HEAT		ATMEN	Γ [°] C	C 14/0																	
Spe 1 ST			<u>n 1040°</u> 10min																		
2 ST:	1080	0°C* 1	10min	WQ																	
3																					
4 N·N	Ormo	lizina		۸ - ۸	nneali	na		T:Tem	nner	ing		^	:Quench i	na		۸۲۰۸	ir Cool	ling			
N:Normalizing A:Annealing WQ:Water Quenching 0Q:0il Quenching								Cooli	ng			ng ce Cooli	ng	AC:Air Cooling g ST:Solution Treatment							
REMAR																					
		ype 2.	2																		
														-1	7		_				
								_						-		-		_			
				R	eviewe	d by							MII	Z COI	Manage	r T	ION				