## INSPECTION CERTIFICATE

MESSRS	UNIMECH	ENGINEERING	(M) SDN.	BHD.			Certificate No. 1020330662-020-01-01
DELIVER To							Date : 2020/07/03
JOB NAME							
JOB No.							
P.O.No.	AP0-2004	-0010					KIT2
RODUCT CODE							
SPECIFICATIO	)N				MAIN F	PARTS	
Manuf No.	10203306	62-020				Name of parts	Material
Description	20K DUCT	TLE TRON GLO	BE VALVE	SCREWED ENDS		BODY	Gr. 60-40-18
·						BONNET	Gr. 60-40-18
Figure	20SY2						
Size	2			inch(B)			
Quantity	5						
/alve No.							
Item No.	28						
Kiki No.							
TEST							
ressure test	Judge.	Inspecti	on fluid a	and pressure	Item	Judge.	Attached sheet
Shell	Good	Hydro	4.2	MPa	Materi		Material Test Result
	Good	Air	2.8	MPa	Dimens	ion Good	
Seat		Hydro	-		Visual	Good	
	Good	Air	0.6	MPa	Operat	ion Good	
Back seat		Hydro	-				
		Air	-				
NONDESTRUCT	IVE EXAMIN	ATION				l	
Type of exami	ination and	judgement		Attached she	et		
DEMARKO				1			
REMARKS	/F TEAT 51/ :	DADALII 10 C.:	FII TEAT :	140 DEEL 5=5=	HED		
REPRESENTATIV	E IEST BY F	HYDRAULIC SH	ELL TEST I	HAS BEEN PERFOR	MED		
						$\mathcal{R}$ . $n$	Niyazawa DRPORATION
							- /
		Witnessed	bv			KITZC	CRATION

## MATERIAL TEST RESULT

Description	MESSRS		UNIMECH ENGINEERING (M) SDN. BHD.								Certificate No.										
Color   APC-2004-0010   Colo	JOB NAME														<b>"</b>						
Natural   ASTM   A 395   Gr. 80-40-18	JOB No.														╛ '						_
Natural   ASTM   A 395   Gr. 60-40-18	P.O.No.	ODE	AP0-2	004-00	10										4		K		$\Gamma_{\mathbf{A}}$		
Material   ASTM   A 395   Gr.   60-40-18	T KODOCT O	JODE													1						
Material   ASTM   A 395   Gr.   60-40-18	Figure 2	20SY2										Valve No	).								
Charge No.			TM A 3	395 Gr	. 60-	-40-18					$\exists$			28							
2   15	Charge No.																				
Chemical Composition   Statement   C   Si   P   Mn	2 13F																				
Sec.   Min   Max   Max	3     4										-										
Spec.   Min   Max   Ma							1		_					1							_
3.00   2.50   0.080   0.21   0.26   0.01   0.29   0.29   0.29   0.20   0.26   0.01   0.29					Mn				+		+				-	-			+		$\dashv$
3		3.00	2.50	0.080							_										
Spec.   Spec	1 2																				
Tension   Test	3																				
TENSION TEST  Tensile str   Yield str.   Elongation	Element		l	<u> </u>			I				$\pm$										╛
TENSION TEST	Spec.																				
TENSION TEST	1										$\top$										
TENSION TEST																					
Temsile str.   Yield str.   Elongation	4																				
		TEST			IT.	noile etr	Violdo	+ -	Florgotia	<u> I</u>		IMP.	ACT	TEST			_				_
415   275   18	Unit				М	Pa	MPa		%	on											
1	Spec.																				
Item   Hardness   Microstructure	1				4	30	281		21												
Titem   Hardness   Microstructure					4	30	282		21												
Unit HBW % Spec. 143 Min 90 1 143 90 2 143 90 3 4 HEAT TREATMENT *C Spec.	4																				
Spec. 143 Min 187 90 1 1 143 90 2 1 143 90 3 4 143 90 3 4 143 90 3 4 143 90 3 4 143 90 3 4 143 90 3 4 143 90 3 4 143 90 3 4 143 90 3 4 143 90 3 4 143 90 3 4 143 90 3 4 143 90 3 4 143 90 3 4 143 90 3 4 143 90 3 4 143 90 3 143 90			Micros	structure	9								4								
1 143 90 90 90 90 90 90 90 90 90 90 90 90 90			Min									1			+					7	
2 143 90 3 4 143 90  HEAT TREATMENT *C    Spec.	-				+								+			_					_
HEAT TREATMENT °C  Spec.  1 2 3 4  N:Normalizing A:Annealing T:Tempering Q:Quenching AC:Air Cooling WQ:Water Quenching OQ:Oil Quenching WC:Water Cooling FC:Furnace Cooling ST:Solution Treatment  REMARKS  * Every 0.01% P reduction enables 0.08% Si increase each within the maximum 2.75%.  EN10204 Type 2.2	2 143																				
Spec.    Spec.	3 4																				
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	* Every (	0.01% F	reduc	tion e	nable	s 0.08%	Si inc	reas	e each	within	th	ne maximu	um :	2.75%.							
	EN10204	rype 2.																			
R. Miyazawa													K	. m	ùja	za	wa				
Reviewed by  Reviewed by  Reviewed by				R	eview	ed by		-				Ki	TZ	2 CO		) OR4	ATio	<u> </u>			