INSPECTION CERTIFICATE

MESSRS	UNIMECH ENGINEERING (M) SDN. BHD.	Certificate No. 1020329222-006-01-01
DELIVER To		Date : 2020/07/21
JOB NAME		
JOB No.		
P.O.No.	AP0-2004-007	
PRODUCT CODE	(TR)SZA <z0p02>11/4</z0p02>	

SPECIFICATION

Manuf No.	1020329222-006
Description	TYPE 600 FORGED BRASS BALL VALVE SCREWED ENDS
Figure	SZA <z0p02>11/4</z0p02>
Size	11/4 inch(B)
Quantity	96
Valve No.	
Item No.	6
Kiki No.	

MAIN PARTS

No.	Name of parts	Material
	BODY	C 3771 BE
002	BODY CAP	C 3771 BE

TEST

Pressure test	Judge.	Inspection	fluid and p	ressure
Shell	Good	Hydro	6.18	MPa
	Good	Air	0.6	MPa
Seat		Hydro	-	
	Good	Air	0.6	MPa
Back seat		Hydro	-	
		Air	-	
	1			

Judge.	Attached sheet
Good	Material Test Result
Good	
Good	
Good	
	Good Good Good

NONDESTRUCTIVE EXAMINATION

Attached sheet

REMARKS

REPRESENTATIVE TEST BY HYDRAULIC SHELL TEST HAS BEEN PERFORMED

Witnessed by

lanate KITZ CORI ORATION Manager

We hereby certify that the articles listed above are satisfactory in accordance with the requirements of the standard and purchase order.

MATERIAL TEST RESULT

DB No. APO-2004-007 RODUCT CODE (TR)S2A-20P02-11/4 Waterial JIS H 3250 C 3771 BE Litem No. Material JIS H 3250 C 3771 BE Litem No. Charge No. Display No. Material JIS H 3250 C 3771 BE Litem No. Material JIS H 3250 C 3771 BE Litem No. Material JIS H 3250 C 3771 BE Litem No. Material JIS H 3250 C 3771 BE Litem No. Material JIS H 3250 C 3771 BE Litem No. Material JIS H 3250 C 3771 BE Litem No. Material JIS H 3250 C 3771 BE Litem No. Material JIS H 3250 C 3771 BE Litem No. Material JIS H 3250 C 3771 BE Litem No. Material JIS H 3250 C 3771 BE Litem No. Material JIS H 3250 C 3771 BE Litem No. Material JIS H 3250 C 3771 BE Litem No. Spec. S7.0 10.0 % Litem No. Element Cur Pb Litem No. Spec. Nax Zala Label L	Material Charge No. Charge No. H198093 2 3 4 CHEMICAL COM Element Cu Spec. 57.0 61.0	(TR)SZA 20P02>11/4 IIS H 3250 D IPOSITION Pb 1.0 2.5 2.2	<zopo2>11</zopo2>	BE		f Part	S		ltem 1	No.	6				P
DER No. PO-2004-007 PRODUCT CODE (TR)SZA-20P02>11/4 Image: SZA-20P02>11/4 Image: SZA-20P02>11/4 Image: SZA-20P02>11/4 Image: SZA-20P02>11/4 Image: SZA-20P02>11/4 Image: SZA-20P02>11/4 Image: SZA-20P02>11/4 Image: SZA-20P02>11/4 Image: SZA-20P02>11/4 Image: SZA-20P02>11/4 Image: SZA-20P02>11/4 Image: SZA-20P02>11/4 Image: SZA-20P02>11/4 Image: SZA-20P02>11/4 Image: SZA-20P02>11/4 Image: SZA-20P02>11/4 Image: SZA-20P02>11/4 Image: SZA-20P02>11/4 Image: SZA-20P02>11/4 Image: SZA-20P02>11/4 Image: SZA-20P02>11/4 Image: SZA-20P02>11/4	P.O.No. PRODUCT CODE Figure SZA<2 Material Charge No. 1 H198093 2 3 4 CHEMICAL COM Element Cu Spec. 57.0 61.0	(TR)SZA 20P02>11/4 IIS H 3250 D IPOSITION Pb 1.0 2.5 2.2	<zopo2>11</zopo2>	BE		f Part	S		ltem 1	No.	6				_
Internal	PRODUCT CODE Figure SZA<2 Material Charge No. Charge No. Charge No. H198093 2 3 4 CHEMICAL COM Element Cu Spec. 57.0 61.0	(TR)SZA 20P02>11/4 IIS H 3250 D IPOSITION Pb 1.0 2.5 2.2	<zopo2>11</zopo2>	BE		f Part	S		ltem 1	No.	6				
Item No. G Charge No. Display No. Name of Parts 1 H198093 BODY BODY 2 3 4 Item No. G CHEMICAL COMPOSITION % Element Control (Composition (Co	Material Charge No. Charge No. H198093 2 3 4 CHEMICAL COM Element Cu Spec. 57.0 61.0	IIS H 3250 D D IPOSITION Pb 0 1.0 2.5 2.2	<u>isplay N</u>			f Part	S		ltem 1	No.	6			 	
Item No. G Charge No. Display No. Name of Parts 1 H198093 BODY BODY 2 3 4 Item No. G CHEMICAL COMPOSITION % Element Control (Composition (Co	Material Charge No. Charge No. H198093 2 3 4 CHEMICAL COM Element Cu Spec. 57.0 61.0	IIS H 3250 D D IPOSITION Pb 0 1.0 2.5 2.2	<u>isplay N</u>			f Part	S		ltem 1	No.	6			 	
Image: Participation of Parts Display No. Display No. Display No. 1 H19003 BODY BODY 2 3 4 Image: Participation of Parts CHEMICAL COMPOSITION %. Element Cut Pho 58.9 2.2 2 3 4 Image: Participation of Parts Spec. 7.0 58.9 2.2 2 3 4 Image: Participation of Parts Spec. 57.0 1 0.3 Remainder 1 1 0.3 REM. 2 3 4 Image: Participation 1 1 1 1 1 1 1 1 1 2 3 3 1 1 1 1 1 1 1 2 3 1 2 3	Charge No. 1 H198093 2 3 4 CHEMICAL COM Element Cu Spec. 57.0 61.0	IPOSITION Pb 1.0 2.5 2.2	<u>isplay N</u>			f Part	S				6			 	
1 H199033 BODY BODY BODY 2 3 BODY BODY BODY Spec. 70 1.0 Image: Spec. Image: Spec. Image: Spec. 1 2.5 Image: Spec. Image: Spec. Image: Spec. Image: Spec. 5 2.2 Image: Spec. Image: Spec. Image: Spec. Image: Spec. 5 9 2.2 Image: Spec. Image: Spec. Image: Spec. 5 9 2.2 Image: Spec. Image: Spec. 5 9 2.2 Image: Spec. Image: Spec. 1 0.3 REM. Image: Spec. Image: Spec. 1 1 Image: Spec. Image: Spec. Image: Spec. 1 15 Image: Spec. Image: Spec. Image: Spec. 1 15 Image: Spec. Image: Spec. Image: Spec. 1 1	1 H198093 2 3 4 CHEMICAL COM Element Cu Spec. 57.0 61.0	IPOSITION Pb 1.0 2.5 2.2					5		BODY C	AP					
34	3 4 CHEMICAL COM Element Cu Spec. 57.0 61.0	Pb 1.0 2.5 2.2	%												
CHEMICAL COMPOSITION % Element Cu Pb Spec. 50 - 0 1 58.9 2.2 1 58.9 2.2 3	CHEMICAL CON Element Cu Spec. 57.0 61.0	Pb 1.0 2.5 2.2	%												
Spec. 57.0 1.0 Image: constraint of the stress of the	Spec. 57.0 61.0	1.0 2.5 2.2													
61.0 2.5	61.0	2.5			1 1										
2 3 1															
3 4 1 <td></td> <td>n</td> <td></td> <td>1</td>		n													1
Element Fe+Sn Zn Image: Constraint of the stress of th	3	n l	1												1
Spec. Max Remainder Image: Constraint of the second se			Zn												
1 0.3 REM. 2 3 IMPACT TEST TENSION TEST IMPACT TEST Jnit N/mm2 Spec. Min 315 15 1 471 24 Image: Spec. 1 471 24 Image: Spec. 1 Image: Spec. 1 <t< td=""><td></td><td></td><td>Rem</td><td>ainder</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>			Rem	ainder											
3 4 Image: constraint of the strict of the	1 0.3														
4															
Item Tensile str. Elongation Jnit N/mm2 % Spec. Min 315 15 1 471 24 2 471 24 3 471 24 1 1 1 2 471 24 3 4 1 1 1 1 2 1 1 3 4 1 1 1 1 1 1 1 1 1 1 2 1 1 3 1 1 4 1 1 12 1 1 3 1 1 4 1 1 12 1 1 3 1 1 4 1 1 12 1 1 3 1 1 4 1 1 1 1 1	4														
Jnit N/mm2 % Image: Constraint of the second se		- 		Tonsilo str	1	FLO	ngation		<u> </u>	MPACT	TEST		-		<u> </u>
315 15 1 471 2 471 24 1 3 1 1 1 5pec. 1 1 1 2 1 3 1 4 1 1 1 2 1 3 1 4 1 1 1 2 1 3 1 4 1 1 1 2 1 3 1 4 1 1 1 2 1 3 1 1 1 2 1 3 1 1 1 2 1 3 1 1 1 2 1 3 1 1 1 2 1 3 1 1 1 2 1 3 1 1 1 2 1 3 1 1 1	Unit			N/mm2		%									
1 24 1 24 3 471 24 1 1 1 1 1 2 1 1 1 1 1 1 1 2 1 1 1 1 1 1 1 2 1 1 1 1 1 1 1 2 1 1 1 4 1 1 1 HEAT TREATMENT °C 1 1 Spec. 1 1 1 1 1 2 1 1 3 1 1 1 1 1 2 1 1 3 1 1 1 1 1 2 1 1 3 1 1 1 1 1 2 1 1 3 1 1 1 1 1 2 1 1 3 1 1 1 1 1 2 1 1 3 1 1	Spec.														
3 4 Item Jnit Spec. 1 2 3 4 HEAT TREATMENT *C Spec. 1 2 3 4 N:Normalizing A:Annealing T:Tempering Q:Quenching AC:Air Cooling	1														
item Jnit Spec. 1 2 3 4 HEAT TREATMENT °C Spec. 1 2 3 4 N:Normalizing A:Annealing T:Tempering Q:Quenching AC:Air Cooling	3														
Jnit Spec. 1 2 3 4 HEAT TREATMENT °C Spec. 1 2 3 4 N:Normalizing A:Annealing T:Tempering Q:Quenching AC:Air Cooling															
Spec. 1 2 3 4 HEAT TREATMENT °C Spec. 1 2 3 4 N:Normalizing A:Annealing T:Tempering Q:Quenching AC:Air Cooling	ltem Unit							_							
2 3 3 4 HEAT TREATMENT °C Spec. 1 2 3 4 N:Normalizing A:Annealing T:Tempering Q:Quenching AC:Air Cooling	Spec.														
2 3 3 4 HEAT TREATMENT °C Spec. 1 2 3 4 N:Normalizing A:Annealing T:Tempering Q:Quenching AC:Air Cooling	1							+		-+					
4	2														
Spec. 1 2 3 4 N:Normalizing A:Annealing T:Tempering Q:Quenching AC:Air Cooling															
1 1 2 3 3 4 N:Normalizing A:Annealing T:Tempering Q:Quenching AC:Air Cooling	HEAT TREATME	NT °C													
4															
4	2														
N:Normalizing A:Annealing T:Tempering Q:Quenching AC:Air Cooling	4														
WQ:Water Quenching OQ:Oil Quenching WC:Water Cooling FC:Furnace Cooling ST:Solution Treatment			A:Annea	ling Quenching				a							
	REMARKS							<u>.</u>				, 0		 	
JIS G 0415 2.2		2													

Reviewed by

anate KITZ CORPORATION QC Manager

We hereby certify that the articles listed above are satisfactory in accordance with the requirements of the standard and purchase order.