

# INSPECTION CERTIFICATE

MESSRS	UNIMECH ENGINEERING (M) SDN. BHD.
DELIVER To	
JOB NAME	
JOB No.	
P.O.No.	APO-2201-0074
PRODUCT CODE	(TR)TK<ZOP02>1/2

Certificate No.  
1020831160-004-01-01

Issue Date : 2022/03/22

# KITZ

### SPECIFICATION

Manuf No.	1020831160-004
Description	TYPE 600 FORGED BRASS BALL VALVE SCREWED ENDS
Figure	TK<ZOP02>1/2
Size	1/2 inch(B)
Quantity	160
Valve No.	
Item No.	4
Kiki No.	

### MAIN PARTS

No.	Name of parts	Material
001	BODY	C 3771 BE

### TEST

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

Item	Judge.	Attached sheet
Material	Good	Material Test Result
Dimension	Good	
Visual	Good	
Operation	Good	

### NONDESTRUCTIVE EXAMINATION

Type of examination and judgement	Attached sheet

### REMARKS

REPRESENTATIVE TEST BY HYDRAULIC SHELL TEST HAS BEEN PERFORMED

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Witnessed by

*K. Kawate*  
KITZ CORPORATION  
QC Manager

# MATERIAL TEST RESULT

MESSRS	UNIMECH ENGINEERING (M) SDN. BHD.
JOB NAME	
JOB No.	
P.O.No.	APO-2201-0074
PRODUCT CODE	(TR)TK<ZOP02>1/2

Certificate No.  
1020831160-004-01-01-Z1

Issue Date : 2022/03/22



Figure	TK<ZOP02>1/2	Valve No.	
Material	JIS H 3250 C 3771 BE	Item No.	4
Charge No.	Display No.	Name of Parts	
1	030721	BODY	
2			
3			
4			

**CHEMICAL COMPOSITION %**

Element	Cu	Pb													
Spec.	57.0	1.0													
	61.0	2.5													
1	59.0	2.0													
2															
3															
4															

  

Element	Fe+Sn	Zn													
Spec.	Max	Remainder													
	1.0														
1	0.3	REM.													
2															
3															
4															

**TENSION TEST**

**IMPACT TEST**

Item			Tensile str.	Elongation					
Unit			N/mm2	%					
Spec.			Min	Min					
			315	15					
1			435	32					
2									
3									
4									

Item									
Unit									
Spec.									
1									
2									
3									
4									

**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**

JIS G 0415 2.2

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 Reviewed by

**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.