



PROJECT		REF		REV	ITEM CODE	
LOCATION		DATE			PAGE	

## SANITARY WARE SPECIFICATION SHEET

Item Descriptions	Kita (PRC) 1/2" x 1/2" Copper alloy angle valve complies with: BSEN200: 2008, BSEN1982:2008, BSEN12167:2016 & AS/NZS4020: 2005 ;test report J24164R2	Illustration/ Drawing
Model	CP-18A	
Finish	Chrome Plated	
Material	Copper	
Manufacturer	Kita	
Source	Ka Shing Enterprises (H.K) Limited Mr. Ivan Lau / Mr. GilmanYuen	
Contact Tel/Fax	(852) 2498-0626 / (852) 2490-2700	
E-mail	kashing.project@gmail.com	
Website	www.kashingehk.com	

**Note:**

*\* All information of the above is for the reference only. No prior notice is made if any changes.*



水務署  
Water Supplies Department

總部 Headquarters  
香港灣仔告士打道七號入境事務大樓 48 樓  
48/F, Immigration Tower, 7 Gloucester Road, Wan Chai, Hong Kong

本署檔號 : (4) in WSD 3321/2022 T/J(438/2022)  
Our ref.  
來函檔號 :  
Your ref.

電話 :  
Tel.  
傳真 : 2824 0578  
Fax.

10 June 2022

Ka Shing Enterprises (HK) Ltd  
Unit A, 3/F., 30-38 Tsuen King Circuit,  
Waylee Ind. Centre, Tsuen Wan,  
N.T., Hong Kong

(Attn.: Mr Ivan LAU)

Dear Sir,

**Approval of "KITA" Angle Valve  
(General Acceptance No. C20220496)**

Your letters dated 21 April 2022 and 14 May 2022 refer.

Having considered the test report ref. RKSH008-1r2 issued on 13 May 2022 by Ideal Test Consultants Ltd., this Authority accepts that the fitting described below complies with, and its use when correctly installed does not contravene, the Waterworks Ordinance and Regulations.

**Name of Manufacturer:** 玉環同泰銅業有限公司  
**Country of Origin:** the Mainland of China  
**Brand:** Kita  
**Details of Fitting:** 1/2" x 1/2" Copper alloy angle valve  
**Model:** CP-18A  
**Body Markings:** KITA  
**Expiry Date:** 20 March 2027



This Authority hereby permits the use of the above fitting in fresh water plumbing systems subject to full adherence to Waterworks installation requirements.

A condition of this acceptance is that the fitting to be installed shall be replicas of the sample as certified by the testing agent mentioned above and without modifications. This acceptance may be withdrawn at any time if the standard of the fitting installed fails to meet that of the approved sample or if the fitting is found to be unsuitable for use in fresh water plumbing systems.

For the use of the fitting in any project, the General Acceptance Number of this letter must be quoted as a means of identification of acceptance of the fitting by this Authority.

Should you have any enquiries, please contact our Engineer Ms Winnie LO at tel. no. 3583 4086.

Yours faithfully,



(YAU Hau Yin)  
for Director of Water Supplies

Encl.

c.c. WSD 3321/1/82 ] - without catalogue  
ME/MC ] - with soft copy only



## TEST REPORT

REPORT REFERENCE NO. : **RKSH008-1r2**  
(This report is issued to supersede the report with reference no.: RKSH008-1r1)

TITLE : Testing of angle valve

METHOD OF TEST : BSEN200: 2008, BSEN1982:2008, BSEN12167:2016  
& AS/NZS4020: 2005

PERIOD OF TESTS : 25<sup>th</sup> Nov., 2021 to 21<sup>st</sup> Mar., 2022

SAMPLE SUBMITTED BY : Ka Shing Enterprises (H.K.) Limited  
(Information below provided by client) Unit A, 3/F, 30-38 Tsuen King Circuit,  
Waylee Industrial Centre, Tsuen Wan, N.T.

DESCRIPTION OF SAMPLE : 1/2" x 1/2" Angle valve

BRAND : KITA

MODEL : CP-18A

BODY MARKING : KITA

MANUFACTURER : 玉環同泰銅業有限公司

COUNTRY OF ORIGIN : China

### SUMMARY OF RESULTS

(Definition of 'C' – Conformance, '/' – No requirement, 'NC' – Non –Conformance & 'R' -- Remainder)

Tested item/s	Remark
1. Dimensions	C
2. Leak tightness Characteristics	
2.1 Leak tightness of the obturator and of the tap upstream of the obturator(s)	C
2.2 Leak tightness of the tap downstream of the obturator(s)	C
3. Pressure Resistance Characteristics	
3.1 Mechanical behaviour upstream of the obturator-Obturator in the closed position	C
3.2 Mechanical behaviour downstream of the obturator-Obturator in the open position	C
4. Hydraulic Characteristics	
4.1 Flow rate of supply system of Type 1	/
4.2 Flow rate of supply system of Type 2	/
5. Chemical Composition	
5.1 Metal component - Body	C
5.2 Metal component – Part	C
5.3 Metal component – Cartridge	C
6. Metal extraction test for non-metallic materials – plastic parts	C
7. Extraction of metals from the sample - Surface of internal water passage	C

Date : 13 MAY 2022

Authorized signature : \_\_\_\_\_

Sunny K.S. Wong  
(Director)



**Report reference no. : RKSH008-1r2**

**RESULTS: -** (apply only to the sample tested)

**1. DIMENSIONS**

(BSEN200 : 2008 Cl.6)

ID	Variable	Unit	Measured	Required	Remark
1	Nominal size	in	1/2 x 1/2	1/2 x 1/2	C
	Body thickness	mm	2.0	/	/
<b>Overall result</b>					<b>C</b>

**2. LEAK TIGHTNESS CHARACTERISTICS**

2.1 Leak tightness of the obturator and of the tap upstream of the obturator(s)

(BSEN200 : 2008 Cl. 8.3)

ID	Variable	Unit	Measured	Required	Remark
1	Static pressure	bar	16	16±0.5	C
	Duration	s	60	60±5	C
	Leakage	---	No	No	C
<b>Overall result</b>					<b>C</b>

2.2 Leak tightness of the tap downstream of the obturator(s)

(BSEN200 : 2008 Cl. 8.4)

ID	Variable	Unit	Measured	Required	Remark
High pressure	Static pressure	bar	4	4±0.2	C
	Duration	s	60	60±5	C
	Leakage	---	No	No	C
Low pressure	Static pressure	bar	0.2	0.2±0.02	C
	Duration	s	60	60±5	C
	Leakage	---	No	No	C
<b>Overall result</b>					<b>C</b>



**Report reference no. : RKSH008-1r2**

**3. PRESSURE RESISTANCE CHARACTERISTICS**

**3.1 Mechanical behaviour upstream of the obturator-Obturator in the closed position**

(BSEN200 : 2008 Cl. 9.4)

ID	Variable	Unit	Measured	Required	Remark
1	Static pressure	bar	25	25±0.5	C
	Duration	s	60	60±5	C
	Permanent deformation	---	No	No	C
<b>Overall result</b>					<b>C</b>

**3.2 Mechanical behaviour downstream of the obturator-Obturator in the open position**

(BSEN200 : 2008 Cl. 9.5)

Variable	Unit	Measured	Required	Remark
Flow rate	l/s	0.4	0.4±0.04	C
Duration	s	60	60±5	C
Permanent deformation	---	No	No	C
<b>Overall result</b>				<b>C</b>

**4. HYDRAULIC CHARACTERISTICS**

**4.1 Flow rate of supply system of Type 1**

(BSEN200 : 2008 Cl. 10)

ID	Variable	Unit	Measured	Required	Remark
Cold	Dynamic pressure	bar	3	3±0.2	C
	Flow rate	l/s	0.244	/	/
<b>Overall result</b>					<b>/</b>

Note: WSD has waived the minimum flow rate requirement per WSD Circular Letter No. 1/2010

**4.2 Flow rate of supply system of Type 2**

(BSEN200 : 2008 Cl. 10)

ID	Variable	Unit	Measured	Required	Remark
Cold	Dynamic pressure	bar	0.1	0.1±0.02	C
	Flow rate	l/s	0.059	/	/
<b>Overall result</b>					<b>/</b>

Note: WSD has waived the minimum flow rate requirement per WSD Circular Letter No. 1/2010



**Report reference no. : RKSH008-1r2**

**5. CHEMICAL COMPOSITION**

**5.1 Metal component – Body**

(Designation: BSEN1982:2008–CC754S)

ID	Variable	Unit	Measured	Required	Remark
Body	Cu – Copper	%	58.0	58.0 - 63.0	C
	Zn – Zinc	%	38.9	R	C
	Pb – Lead	%	1.8	0.5 - 2.5	C
	Sn – Tin	%	0.2	≤ 1.0	C
	Ni – Nickel	%	0.4	≤ 1.0	C
	Fe – Iron	%	0.3	≤ 0.7	C
	Al – Aluminium	%	0.4	≤ 0.8	C
	Mn – Manganese	%	0.09	≤ 0.5	C
	P – Phosphorus	%	0.01	≤ 0.02	C
	Si – Silicon	%	0.01	≤ 0.05	C
<b>Overall result</b>					C

**5.2 Metal component – Part**

(Designation: BSEN12167:2016–CW617N)

ID	Variable	Unit	Measured	Required	Remark
Part	Cu – Copper	%	57.2	57.0-59.0	C
	Zn – Zinc	%	40.1	R	C
	Pb – Lead	%	1.8	1.6-2.5	C
	Sn – Tin	%	0.2	≤ 0.3	C
	Ni – Nickel	%	0.3	≤ 0.3	C
	Fe – Iron	%	0.3	≤ 0.3	C
	Al – Aluminium	%	0.01	≤ 0.05	C
	Others	%	0.09	≤ 0.2	C
<b>Overall result</b>					C

**5.3 Metal component – Cartridge**

(Designation: BSEN12167:2016–CW617N)

ID	Variable	Unit	Measured	Required	Remark
Cartridge	Cu – Copper	%	57.2	57.0-59.0	C
	Zn – Zinc	%	40.2	R	C
	Pb – Lead	%	1.7	1.6-2.5	C
	Sn – Tin	%	0.2	≤ 0.3	C
	Ni – Nickel	%	0.3	≤ 0.3	C
	Fe – Iron	%	0.3	≤ 0.3	C
	Al – Aluminium	%	0.02	≤ 0.05	C
	Others	%	0.08	≤ 0.2	C
<b>Overall result</b>					C



**Report reference no. : RKSH008-1r2**

**6. METAL EXTRACTION TEST FOR NON-METALLIC MATERIALS – plastic parts**

The non-metallic material was immersed in boiling de-ionized water for 5±1 minutes in accordance with Clause 7.3 in BS 6920-3:2000.

The concentration of arsenic, lead, cadmium, chromium, selenium, nickel and antimony of extract were determined by the method specified in BS 6920-2.6:2000+A2:2014 against the maximum allowable values in WHO's Guidelines for Drinking Water Quality – Fourth Edition 2011.

ID	Variable	Unit	Measured	Required	Remark
Plastic parts	As - Arsenic	µg/l	< 1	≤ 10	C
	Pb - Lead	µg/l	< 3	≤ 10	C
	Cd - Cadmium	µg/l	< 1	≤ 3	C
	Cr - Chromium	µg/l	< 10	≤ 50	C
	Se - Selenium	µg/l	< 5	≤ 40	C
	Ni - Nickel	µg/l	< 10	≤ 70	C
	Sb - Antimony	µg/l	< 1	≤ 20	C
<b>Overall result</b>					<b>C</b>

**Notes:** -Requirements are based on WHO Guidelines for Drinking Water Quality Fourth Edition: 2011.

**7. EXTRACTION OF METALS FROM THE SAMPLE - Surface of internal water passage**

Electroplating materials were observed on the internal water passage surfaces of the samples under a non-destructive and unaided visual inspection. *AS/NZS 4020: 2005 Appendix H and Extraction Temperature ( 20 ° C )*

Extraction		Concentration of metals in the extract (µg / l)	
		Cr-Chromium	Ni-Nickel
Sample A	7 <sup>th</sup>	30	19
Sample B	7 <sup>th</sup>	20	20
Requirement		≤ 50	≤ 20
<b>Overall result</b>		<b>C</b>	<b>C</b>



Figure 1-Sample

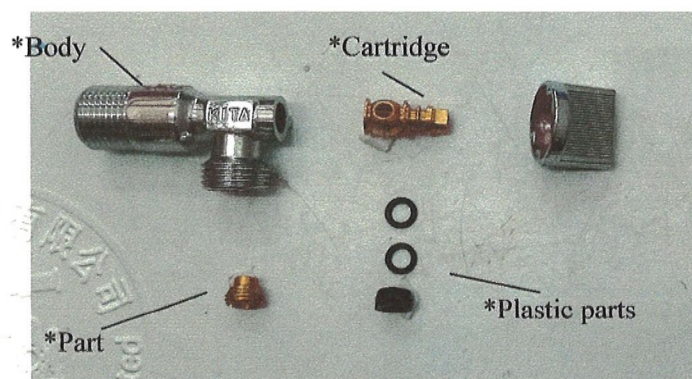


Figure 2- Sample disassembled  
(\* - Part /s which contact with water )



Figure 3 - Surface of internal water passage



Figure 4 – Body marking

- End of report -