





水務署  
Water Supplies Department

總部 Headquarters  
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48/F, Immigration Tower, 7 Gloucester Road, Wan Chai, Hong Kong

本署檔號 : (4) in WSD 3321/2022 T/J(437/2022)  
Our ref.  
來函檔號 :  
Your ref.

電話 :  
Tel.  
傳真 : 2824 0578  
Fax.

2 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. C20220465)**

Your letters dated 22 April 2022 and 13 May 2022 refer.

Having considered the test report ref. J27782 issued on 21 April 2022 by Nutek Systems (HK) Limited, 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 3/8" Copper alloy angle valve  
**Model:** CP-18B  
**Body Markings:** KITA  
**Expiry Date:** 13 April 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 This acceptance may be withdrawn at any time if the standard of the fitting installed fails to meet that of the approved sample or if the fitting is found to be unsuitable for use in fresh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

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Encl.

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## Test Report

**Test**

Title : Testing of Single or Combination Sanitary Tapware

Method : BS EN 200: 2008; BS EN 1982: 2008 &amp; AS/NZS 4020: 2005

Report No. : J 27782

Completion : 07 Apr., 2022 to 14 Apr., 2022

**Applicant** (Information below provided by client)

Name : Ka Shing Enterprises (H.K.) Limited

Address : Unit A, 3/F, 30-38 Tsuen King Circuit,  
Waylee Industrial Centre, Tsuen Wan, N.T.  
Chai Wan Kok, N.T. Hong Kong**Sample** (Information below provided by client)

Brand : Kita

Model : CP-18B

Body marking : **KITA**

Manufacturer : 玉環同泰銅業有限公司

Origin : China

Description : 1/2" x 3/8" Angle Valve

**Approved Signatory**Signature : 

Name (title) : Lam Kwai Wah, Terry (Operations Manager)

Date : 21 Apr., 2022

Nutek Systems is a testing agency,  
accepted by the Water Supplies  
Department, for testing water supply  
fittings.

## Summary

Test	Remark
1 Dimensions	C
2.1 Leaktightness of the obturator and of the tap upstream of the obturator(s)	C
2.2 Leaktightness of the tap downstream of the obturator(s)	C
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
4.1 Flow rate (Type 1)	N
4.2 Flow rate (Type 2)	N
5.1 Chemical composition of metal component - Body	C
5.2 Chemical composition of metal component - Cartridge	C
5.3 Chemical composition of metal component - Ring	C
6.1 Metal extraction from Rubber Rings	C
7. Extractions of metals from the tapware	C

Note :

All rubber rings shown in Figure 2 are tested together, the metal extraction results are presented at item 6.1

## Results (apply only to samples tested)

### 1 Dimensions

BS EN 200:2008 Cl. 6

ID	Variable	Unit	Measured	Required	Remark
1	Nominal size	in	½	½	C
	Vertical distance from the outlet orifice to the mounting surface	mm	Not applicable	≥ 25	Not Applicable
Overall result					C

### 2.1 Leaktightness of the obturator and of the tap upstream of the obturator(s)

BS EN 200:2008 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
Overall result					C



**2.2 Leaktightness of the tap downstream of the obturator(s)**

BS EN 200:2008 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
Overall result					C

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

BS EN 200:2008 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
Overall result					C

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

BS EN 200:2008 Cl. 9.5

ID	Variable	Unit	Measured	Required	Remark
1	Flow rate	l/s	0.4	0.4 ± 0.04	C
	Duration	s	60.0	60 ± 5	C
	Permanent deformation	---	No	No	C
2	Dynamic pressure	bar	4.0	4 ± 0.2	C
	Duration	s	60.0	60 ± 5	C
	Permanent deformation	---	No	No	C
Overall result					C

**4.1 Flow rate (Type 1)**

BS EN 200:2008 Cl. 10.2

ID	Variable	Unit	Measured	Required	Remark
1	Dynamic pressure	bar	3	3 ± 0.2	C
	Flow rate	l/s	0.260	N	N
Overall result					N

Note:

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

**4.2 Flow rate (Type 2)**

BS EN 200:2008 Cl. 10.2

ID	Variable	Unit	Measured	Required	Remark
1	Dynamic pressure	bar	0.1	0.1 ± 0.02	C
	Flow rate	l/s	0.052	N	N
Overall result					N

Note:

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

**5.1 Chemical composition of metal component - Body**

Designation: BS EN 1982:2008: CC754S

ID	Variable	Unit	Measured	Required	Remark
Body	Copper	%	58.0	58.0 - 63.0	C
	Zinc	%	39.4	R	C
	Lead	%	2.2	0.5 - 2.5	C
	Tin	%	<0.025	max. 1.0	C
	Nickel	%	0.2	max. 1.0	C
	Iron	%	0.2	max. 0.7	C
	Aluminium	%	<0.005	max. 0.8	C
	Manganese	%	<0.015	max. 0.5	C
	Phosphorus	%	<0.007	max. 0.02	C
Silicon	%	<0.005	max. 0.05	C	
Overall result					C

**5.2 Chemical composition of metal component - Cartridge**

Designation: BS EN 1982:2008: CC754S

ID	Variable	Unit	Measured	Required	Remark
Cartridge	Copper	%	58.1	58.0 - 63.0	C
	Zinc	%	39.1	R	C
	Lead	%	2.0	0.5 - 2.5	C
	Tin	%	0.3	max. 1.0	C
	Nickel	%	0.3	max. 1.0	C
	Iron	%	0.2	max. 0.7	C
	Aluminium	%	<0.005	max. 0.8	C
	Manganese	%	<0.015	max. 0.5	C
	Phosphorus	%	<0.007	max. 0.02	C
Silicon	%	<0.005	max. 0.05	C	
Overall result					C

**5.3 Chemical composition of metal component - Ring**

Designation: BS EN 1982:2008: CC754S

ID	Variable	Unit	Measured	Required	Remark
Ring	Copper	%	58.0	58.0 - 63.0	C
	Zinc	%	39.0	R	C
	Lead	%	1.8	0.5 - 2.5	C
	Tin	%	0.5	max. 1.0	C
	Nickel	%	0.3	max. 1.0	C
	Iron	%	0.4	max. 0.7	C
	Aluminium	%	<0.005	max. 0.8	C
	Manganese	%	<0.015	max. 0.5	C
	Phosphorus	%	<0.007	max. 0.02	C
Silicon	%	<0.005	max. 0.05	C	
Overall result					C

**6.0 Metal extraction test for non-metallic materials**

The non-metallic material was immersed in boiling de-ionized water for  $5 \pm 1$  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.

**6.1 Metal extraction from Rubber Rings**

BS 6920-2.6: 2000 + A2: 2014

ID	Variable	Unit	Measured	Required	Remark
Rubber Rings	Arsenic	µg/l	< 1.5	≤ 10	C
	Lead	µg/l	< 2	≤ 10	C
	Cadmium	µg/l	< 1	≤ 3	C
	Chromium	µg/l	< 2	≤ 50	C
	Selenium	µg/l	< 2	≤ 40	C
	Nickel	µg/l	< 2	≤ 70	C
	Antimony	µg/l	< 2	≤ 20	C
Overall result					C

**7. Extractions of metals from the tapware**

AS/NZS 4020:2005 Appendix H

Electroplating materials were observed on the internal water passage surfaces of the sample under a non-destructive and unaided visual inspection.

Extraction Temperature (°C) : 20

Extraction : 1st

Scaling factor : 0.01

Extraction	Concentration of metals in the extract (µg / l)	
	Chromium	Nickel
Test blank	< 2	< 2
Sample A	< 2	< 2
Sample B	< 2	< 2
Requirement	≤ 50	≤ 20
Overall result		C



Figure 1 - Sample



Figure 2 - Seat bore

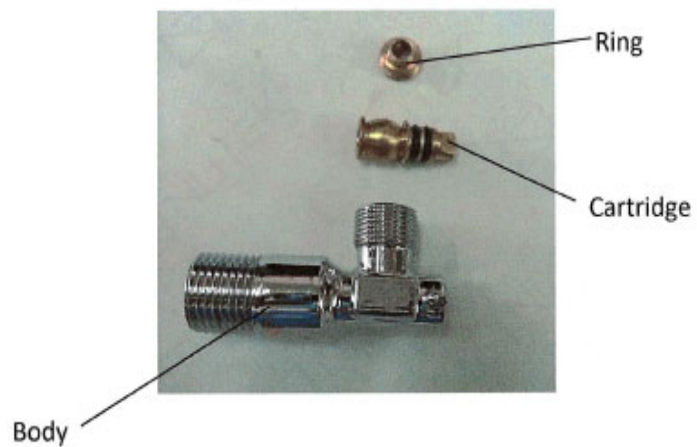


Figure 3 - Sample disassembled



Figure 4 - Body marking



## General Note(s)

**Definitions:**

C - conformance  
N - no requirement  
NC - non-conformance  
R - remainder

**Organizations:**

WSD - Water Supplies Department (of Hong Kong)  
WHO - World Health Organization

- End of report -