



PROJECT		REF		REV	ITEM CODE	
LOCATION		DATE			PAGE	

SANITARY WARE SPECIFICATION SHEET

Item Descriptions	GROHE (Germany) "BauLoop" Chrome plated single-lever sink tap 1/2"; complied with BSEN 200:2008, BSEN1982:2008 & BSEN12164:2011; test report J19234r1; nominated flow rate 2 L/min in WELS Grade 1 ; Registration No. TN 21-0032	Illustration/ Drawing
Dimensions	L140 x W34 x H285 mm	
Model	31222000	
Material	Chrome Plated	
Manufacturer	GROHE Limited	
Supplier	Acme Sanitary Ware Co. Ltd Mr. Eric Wong/ Mr. Don Yuen	
Contact Tel/Fax	(852) 2388-7171 / (852) 2710-8012	
E-mail	acme@acmesanitary.com.hk	
Website	www.acmesanitary.com.hk	
<p>Product Descriptions</p> <ul style="list-style-type: none"> • single hole installation • metal lever • ceramic headpart • swivel tubular spout • mousseur • GROHE StarLight chrome finish • fixation nut 		

Note:

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

註冊號碼 (Registration No.): TN 21-0032



自願參與用水效益標籤計劃 - 水龍頭
Voluntary Water Efficiency Labelling Scheme - Water Taps




茲證明
This is to certify that

將下列水龍頭在本計劃內註冊：
has registered the following water tap under this scheme :

牌子 / Brand	:	Grohe
型號 / Model	:	31222XXX + 403986040
種類 / Type	:	Non-mixing
原產地 / Country or Region Origin	:	China (Tap) Germany (Flow Controller)

XXX – denotes the code of colour

在用水效益標籤上展示的標誌 <i>Symbolic Presentation on the Water Efficiency Label</i>	:		滴水點 <i>Water droplet(s)</i>
用水效益級別 <i>Water Efficiency Grade</i>	:	1	
耗水量 <i>Water Consumption</i>	:	2.0	公升/分鐘 <i>litres/minute</i>

簽發日期：
Date of Issue: 12 April 2021



水務署署長(張業駒代行)
for Director of Water Supplies



Department

48/F, Gloucester Road, Wan Chai, Hong Kong

本署檔號 : (2) in WSD 3321/2020 T/J(471/2020)
Our ref.
來函檔號 :
Your ref.

電話 :
Tel.
傳真 : 2824 0578
Fax.

2 June 2020



Approval of "GROHE" Sink Tap
(General Acceptance No. C20200388)

Your letter ref. WRC/2208 dated 4 May 2020 refers.

Having considered the test report ref. J24909A issued on 8 January 2020 by Nutek Systems (HK) 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: Grohe AG
Country of Origin: the Mainland of China
Brand: Grohe
Details of Fitting: 1/2" Single lever sink tap
Model: 31222XXX
Body Markings: GROHE
Expiry Date: 17 November 2024



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.

This acceptance is only applicable to the main body of the fitting, unless otherwise specified.

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 Mr. Terry KUNG at tel. no. 3583 4086.

Yours faithfully,



(CHAN Chung-kun)

for Director of Water Supplies

Encl.

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




NUTEK SYSTEMS, LTD.

Unit B, 13/F, Block A, Universal Ind. Ctr., 23-25 Shan Mei Street, Fo Tan, Shatin, N.T., Hong Kong.
Tel: (852) 2605 5736 Fax: (852) 2692 0798 E-mail: nutek@nuteksystems.com

(This test report is issued to supersede the one of ref. J 19234)

TITLE : Testing of Single Taps/Mixer
REFERENCE NO. : J 19234r1
SAMPLE DESCRIPTION : ½" Single lever sink tap
SAMPLE SUBMITTED BY :

BRAND : Grohe
BODY MARKING : 
MANUFACTURER : Grohe AG
COUNTRY OF ORIGIN : People's Republic of China
MODEL : 31222000
METHOD OF TESTS : BSEN 200: 2008; BSEN1982:2008 & BSEN12164: 2011
PERIOD OF TESTS : 2nd Oct., 2015 to 6th May, 2016

RESULTS: (apply only to the samples tested)

1. DIMENSIONS

	Sample
Nominal size (in)	½
Body thickness (mm)	2.6
Bore of seat (mm)	11.5

2. LEAKTIGHTNESS CHARACTERISTICS (Cl. 8)

2.1. Seat Tightness Test (Cl. 8.3)

	Test Pressure (bar)	Duration (s)	Leakage	Remark
Sample	16	60	No	Pass
Requirement	16.0 ±0.5	60 ±5	No	/



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JOB REFERENCE: J 19234r1

2.2. Body Test (Cl. 8.4)

	Test Pressure (bar)	Duration (s)	Leakage	Remark
Sample	4	60	No	Pass
Requirement	4.0 ±0.2	60 ±5	No	/
Sample	0.2	60	No	Pass
Requirement	0.2 ±0.02	60 ±5	No	/

3. PRESSURE RESISTANCE CHARACTERISTICS (Cl. 9)

3.1. Upstream with Obturator Closed

	Body Test			Remark
	Test Pressure (bar)	Duration (s)	Permanent deformation (Yes/No)	
Sample	25	60	No	Pass
Requirement	25.0 ±0.5	60 ±5	No	/

3.2. Downstream with Obturator Opened

	Dynamic Test Pressure (bar)	Duration (s)	Permanent deformation (Yes/No)	Remark
Sample	4	60	No	Pass
Requirement	4.0 ±0.2	60 ±5	No	/

Note: Flow rate regulator fitted for the above test

4. FLOW TEST

4.1. Type 1 System

	Running pressure (bar)	Flow rate (l/s)
Sample	3.0	0.225

Remark: The minimum flow requirement under BSEN200:2008 for the mixer is not required according to WSD Circular Letter No. 1/2010.

4.2. Type 2 System

	Running pressure (bar)	Flow rate (l/s)
Sample	0.1	0.108

Remark: The minimum flow requirement under BSEN200:2008 for the mixer is not required according to WSD Circular Letter No. 1/2010.
Gravity water supply from water storage cistern with a pressure range of 0.1 to 10 bar.



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JOB REFERENCE: J 19234r1

4.3 Nominal Flow Rate

Test	Inlet Running pressure (bar)	Flow rate (l/min)
1 st	0.5	5.30
2 nd	1.0	7.65
3 rd	1.5	9.30
4 th	2.0	10.8
5 th	2.5	12.5
6 th	3.0	13.5
7 th	3.5	14.3
8 th	4.0	15.2
9 th	4.5	16.2
10 th	5.0	17.1
11 th	5.5	18.0
12 th	6.0	18.7

Remark: The minimum flow requirement under BSEN200: 2008 for the mixer is not required according to WSD Circular Letter No. 1/2010.
Water at around 20°C was used for the above test

5. CHEMICAL COMPOSITION

Component	Elements Compositions (%)								Designation
	Cu	Zn	Pb	Sn	Ni	Fe	Mn	Al	
Valve body	61.2	37.2	1.4	< 0.025	0.2	< 0.022	< 0.015	< 0.125	CC754S (BSEN1982: 2008)
Spout	62.1	37.3	< 0.015	< 0.025	0.04	< 0.022	< 0.015	< 0.006	CW511L (BSEN12164: 2011)
Requirement	58.0 – 63.0	R	0.5 – 2.5	1.0 max.	1.0 max.	0.7 max.	0.5 max.	0.8 max.	CC754S (BSEN1982: 2008)
	61.5 – 63.5	R	0.2 max.	0.1 max.	0.3 max.	0.1 max.		0.05 max.	CW511L (BSEN12164: 2011)

Note : 'R' – Remainder

6. EXTRACTION OF METALS FROM THE VALVE CARTRIDGE

The valve cartridge was immersed in boiling deionized water for 5 minutes. The concentration of arsenic, lead, cadmium, chromium, selenium and nickel of the extract was then determined as follows:

Component	Concentration of metals in the extract (µg/l)					
	Arsenic	Lead	Cadmium	Chromium	Selenium	Nickel
Valve Cartridge	< 0.15	< 0.02	< 1.4	13	< 0.01	17
Requirement	≤ 10	≤ 10	≤ 3	≤ 50	≤ 40	≤ 70

Remark: The amount of heavy metals present is less than the values given by the World Health Organization's "Guidelines for Drinking-water Quality 4th Edition (2011)".



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JOB REFERENCE: J 19234r1

7. SUMMARY OF RESULTS

Dimensions	-	Satisfactory
Leaktightness characteristics	-	Satisfactory
Pressure resistance characteristics	-	Satisfactory
Flow test	-	As shown in section 4
Chemical composition	-	Satisfactory
Extraction of metals from the valve cartridge	-	Satisfactory (no adverse physical effect on or toxic hazard to human beings)

Date: 12 May 2016 Authorized signature:

WONG K.S., Sunny
(Director)

Nutek Systems is a testing agency, approved by the Water Authority and Government Supplies Department, for testing water supply fittings.



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JOB REFERENCE: J19234d



Figure 1 - 1/2" Single lever sink tap



Bore of seat
A = 11.5mm



Figure 2 - The dismantled sample to expose its internal structure