



PROJECT		REF		REV	ITEM CODE	
LOCATION		DATE			PAGE	

SANITARY WARE SPECIFICATION SHEET

Item Descriptions	EMCA (PRC) Chrome plated brass casted spout sensor faucet with 600mm long flexible pipes, 6V DC supply; complied with BSEN816:2017; test report J28281B; nominated flow rate 1.7 L/min in WELS Grade 1 ; Registration No. TN 19-0045	<p align="center">Illustration/ Drawing</p>
Dimensions	L105 x W52 x H124 mm	
Model	EMS103	
Finish	Chrome Plated Brass	
Manufacturer	EMCA (PRC)	
Source	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	

Parameters
 Static power consumption : 6V
 Inductive range: 5cm-25cm automatic distance measurement
 Suitable water pressure: 0.05 - 0.7Mpa
 Ambient temperature of operation: 1-55
 Water inlet/outlet pipe caliber: G(1/2) (DN15)

Functions and Features
 Infrared induction, water outlet automatic turn-on/turn-off, water saving, convenient, sanitary, and effectively avoiding cross infection of bacteria.
 The product is controlled by a micro-computer to adjust the best distance of induction according to the color and shape of the washing basin.
 The specially incorporated filter net can effectively clean the granular impurities in the water, such as sand and gravel. When used continuously for more than one minute, the induction will automatically stop the water supply to avoid the waste of water resource due to the long-time stay of foreign body within the induction area. The DC model uses four alkaline batteries.

Dynamic flow pressure (kPa)	50	150	250	350	500
Flow rate (l/min)	1.33	1.53	1.75	1.90	1.92

Note: Highly recommended to couple with **angle valve with filter** to avoid the sand and gravel for better performance

(Not included in the sensor faucet, should be purchased separately)

* 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 19-0045



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

Acme Sanitary Ware Co., Ltd.

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	:	EMCA
型號 / Model	:	EMS103
種類 / Type	:	Non-mixing
原產地 / Country or Region Origin	:	China

在用水效益標籤上展示的標誌

Symbolic Presentation on the Water Efficiency Label :



滴水點

Water droplet(s)

用水效益級別

Water Efficiency Grade :

1

with additional merit*

耗水量

Water Consumption :

1.7

公升/分鐘

litres/minute

*with additional merit of "Automatic closing mechanism"

簽發日期:

Date of Issue:

25 March 2019



水務署

Water Supplies Department



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



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
Our ref.
來函檔號
Your ref.



2023 T/J(66/2023)

電話 :
Tel. :
傳真 : 2824 0578
Fax. :

14 March 2023

Acme Sanitary Ware Co. Ltd.
1/F, Acme Building,
22-28 Nanking Street,
Kowloon, Hong Kong

(Attn.: Mr Perry CHOW)

Dear Sir,

**Approval of "EMCA" Sensor Tap
(General Acceptance No. C20230146)**

Your letters ref. L001/2023 and L003/2023 dated 18 January 2023 and 22 February 2023 respectively refer.

Having considered the test report ref. J28281r1 issued on 20 February 2023 by Nutek Systems (HK) Ltd. and WRAS certificate, 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: Kaiping City Doyei Sanitary Ware Corporation Ltd
Country of Origin: the Mainland of China
Brand: EMCA
Details of Fitting: 1/2" Deck mounted sensor tap with 1 no. of flexible hose approved by UK's WRAS under ref. 2104328
Model: EMS103
Body Markings: EMCA
Expiry Date: 30 April 2026



This Authority hereby permits the use of the above fitting in fresh water plumbing systems subject to full adherence to Waterworks installation requirements. In particular, you are required to draw your customers' attention to the following requirement-

"A stop cock or gate valve must be installed at the upstream of the fitting for manual isolation of water supply." AND

"The main voltage operated sensor valve should comply with the electricity safety regulation for applications in bathroom, toilet etc."

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 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

Test
 Title : Testing of Single Tap
 Method : BS EN 816: 2017
 Report No. : J 28281B
 Completion : 29 Nov., 2022

Applicant (Information below provided by client)
 Name : Acme Sanitary Ware Co., Ltd.
 Address : 1/F, Acme Building, 22-28 Nanking Street, Yau Ma Tei, Kowloon, Hong Kong



Sample (Information below provided by client)
 Brand : EMCA
 Model : EMS103
 Body marking : **EMCA**
 Manufacturer : Kaiping City Doyei Sanitary Ware Corporation Limited
 Origin : PRC
 Description : 1/2" Chrome plated brass casted spout sensor faucet

Approved Signatory

Signature :
 Name (title) : Lam Kwai Wah, Terry (Operations Manager)
 Date : 15 Dec., 2022

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

REPORT NO.: J 28281B

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 QM	C
4.2 Flow duration	C
4.3 Testing at minimum pressure	C

Notes:
 1. The test was conducted with room temperature water which was no more than 80 degree Celcius.
 2. At test item 4.1, the sample produced 1.75L/min at 3 bar which was within the operating pressure between 0.3 bar to 10 bar.
 3. At test item 4.2, the sample's flow duration was 1s, the turn-off control pre-set was within 0s to 3s.
 4. At test item 4.3, the sample produced 0.75L/min at 0.5 bar which was within the operating pressure between 0.3bar to 10 bar.
 5. The test was conducted with an aerator installed at the sample as shown in Figure 1.
 6. The sample comply with Architectural Services Department, General Specification for Building 2017 Edition Section 19.07(a)

Results (apply only to samples tested)

1 Dimensions

BS EN 816:2017 Cl. 8

ID	Variable	Unit	Measured	Required	Remark
1	Nominal size	in	1/2	0.5	C
	Vertical distance from the lowest point of the outlet orifice to the mounting surface of the tap	mm	80	≥ 25	C
Overall result					C

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

BS EN 816:2017 Cl. 9.2.3

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
2	Static pressure	bar	1	1 ± 0.1	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 816:2017 Cl. 9.2.4

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 ± 0.05	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 816:2017 Cl. 10.2.3

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 816:2017 Cl. 10.2.4

ID	Variable	Unit	Measured	Required	Remark
1	Dynamic pressure	bar	4	4 ± 0.2	C
	Duration	s	60	60 ± 5	C
	Permanent Deformation	---	No	No	C
Overall result					C



4.1 Flow rate QM

BS EN 816:2017 Cl. 11.4.1

ID	Variable	Unit	Measured	Required	Remark
Tap	Dynamic pressure	bar	3	3 ± 0.2	C
	Flow rate	l/min	1.8	≤ 6	C
Overall result					C

Note(*) :

The requirement is as per "Architectural Services Department - General Specification for Building 2017 Edition"

4.2 Flow duration

BS EN 816:2017 Cl. 11.4.3

ID	Variable	Unit	Measured	Required	Remark
Tap	Dynamic pressure	bar	3	3 ± 0.2	C
	Flow duration	s	1	0 - 3	C
Overall result					C

Note(*) :

The requirement is as per "Architectural Services Department - General Specification for Building 2017 Edition"

4.3 Testing at minimum pressure

BS EN 816:2017 Cl. 11.4.5

ID	Variable	Unit	Measured	Required	Remark
1	Dynamic pressure	bar	0.3	0.3	C
	Flow rate	l/m n	0.75	≤ 6	C
Overall result					C

Note(*) :

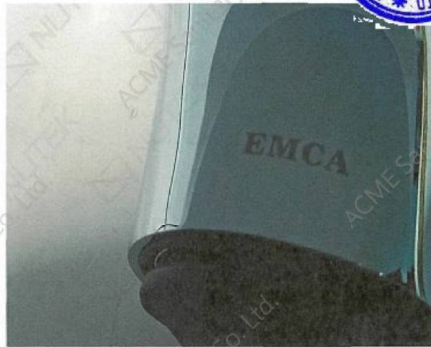
The requirement is as per "Architectural Services Department - General Specification for Building 2017 Edition"



Figure 1 - Sample



Figure 2 - 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 -

