

product certificate  
K22830/04

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Page 1 of 4

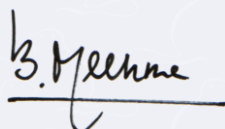
## Flow rate restrictors

### STATEMENT BY KIWA

With this product certificate, issued in accordance with the Kiwa Regulations for Product Certification, Kiwa declares that legitimate confidence exists that the products supplied by

## HaGePe International B.V.

complying with the technical specifications as laid down in this product certificate and marked with the Kiwa®-mark in the manner as indicated in this product certificate, on delivery, may be relied upon to comply with Kiwa evaluation guideline BRL-K635/03 "Flow rate restrictors".



Bouke Meekma  
Kiwa

Publication of the certificate is allowed.

Advice: consult [www.kiwa.nl](http://www.kiwa.nl) in order to ensure that this certificate is still valid.

**Kiwa Nederland B.V.**  
Sir W. Churchill-laan 273  
Postbus 70  
2280 AB RIJSWIJK  
The Netherlands

Tel. +31 70 414 44 00  
Fax +31 70 414 44 20  
E-mail [info@kiwa.nl](mailto:info@kiwa.nl)  
[www.kiwa.nl](http://www.kiwa.nl)



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### Manufacturer

HaGePe International B.V.  
Haarstedelaan 16  
1271 NM Huizen  
The Netherlands  
t: +31 (0)35 523 50 70  
e: [info@hgpeinternational.nl](mailto:info@hgpeinternational.nl)  
w: [www.hgpeinternational.nl](http://www.hgpeinternational.nl)

### Main distributor

Cenergist Limited, Newcastle office  
6 Ouseburn Gateway  
163 City Road, Newcastle Upon Tyne  
NE1 2BE United Kingdom  
t: +44 (0)191 261 04 06  
e: [enquiries@cenergist.com](mailto:enquiries@cenergist.com)  
w: [www.cenergist.com](http://www.cenergist.com)

### Registered office

Cenergist Limited  
Westgate House  
Faverdale  
Darlington, Co. Durham  
DL3 0PZ United Kingdom

**Certification process  
consists of initial and  
regular inspection of:**

- quality system
- product

## Flow rate restrictors

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### Product specification

The products mentioned below belong to this certificate

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Article number	description flow rate regulator	hydraulic class	acoustic group
HL 2024	combination with aerator, M 22 x 1	Z	I
HL 2024	combination with aerator, M 24 x 1	Z	I
HL 2024	to build in piping system	Z	irrelevant

The flow rate regulators combined with aerator have respond pressure of 300 kPa. The flow rate at this pressure is 7.6 l/min.  
From this respond pressure to a pressure of 500 kPa and to pressure of 1000 kPa the flow rate differs maximum 2 % (0.15 l/min).

The package may be provided with the "Low water consumption" mark.

### Flow rate restrictors

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#### Application and use

The flow rate restrictors are used to restrict the flow rate and keep it constant when the supply pressure arises.

Flow rate restrictors are intended for application in drinking water installations with a maximum working pressure of 1000 kPa and a maximum water temperature of 90°C.

Flow rate restrictors can be mounted:

- in the supply pipe to draw off point;
- at the draw off point in combination with or without flow rate regulator;
- in hand showers or shower heads;
- in hot water supply appliances (special case).

#### Toxicological requirements

Approval:



This product is approved on the basis of the requirements set in the "Regeling materialen en chemicaliën watervoorziening" (Regulation materials and chemicals drinking water and warm tap water supply"; published in the Government Gazette).

ATA criteria:

The ATA product certification is based on two main criteria. It shall permanently comply with:

- The product recipe approved during the assessment procedure. The recipe is laid down in the for confidentiality reasons undisclosed appendix ATA to certificate K22830 This recipe is not to be changed without prior approval by Kiwa according to the Kiwa-ATA-approval procedure;
- Specific ATA-product requirements, laid down in appendix ATA to certificate K22830. For confidentiality reasons this appendix ATA is not public.

#### Marking

The Kiwa®-mark products are marked with the word mark "KIWA" together  with or the abbreviated word mark  or "KIWA" or KK in a rectangle.

Place of the mark:  
on the body.

Compulsory specifications for combination with a flow rate regulator:

- name or mark of the manufacturer: on the body;
- indication of the flow rate class: on the body and the internal part that controls the flow rate;
- direction of flow (only the types to build in piping system).

Method of marking:

- indelible;
- visible after assembly

#### RECOMMENDATIONS FOR CUSTOMERS

Check at the time of delivery whether:

- the supplier has delivered in accordance with the agreement;
- the mark and the marking method are correct;
- the products show no visible defects as a result of transport etc.

If you should reject a product on the basis of the above, please contact:

- HaGePe International B.V.

## Flow rate restrictors

and, if necessary,

- Kiwa Nederland B.V.

Consult the supplier's processing guidelines for the proper storage and transport methods.