



Product certificate K104944/03

Issued 2023-04-01

Replaces K104944/02

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Water meters

STATEMENT BY KIWA

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

Diehl Metering GmbH

as specified in this product certificate and marked with the Kiwa®-mark in the manner as indicated in this product certificate may, on delivery, be relied upon to comply with Kiwa evaluation guideline

BRL-K618: "Water meters" dated 2018-01-15 and **BRL-K618 [A1]** dated 2020-07-07

which embodies

EN-ISO 4064-1: 2017: "Water meters for cold potable water and hot water - Part 1: Metrological and technical requirements".

Ron Scheepers
Kiwa

Publication of this certificate is allowed.

Advice: consult www.kiwa.nl in order to ensure that this certificate is still valid.

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Certification process
consists of initial and
regular assessment of:

- quality system
- product

Water meters

PRODUCT SPECIFICATION

The products mentioned below belong to this technical approval-with-product certificate

HYDRUS 2.0 Type 173

DN 15 $Q_3 = 1,6\text{m}^3/\text{h}$; $Q_3 = 2,5\text{m}^3/\text{h}$;

DN 20 $Q_3 = 2,5\text{m}^3/\text{h}$; $Q_3 = 4,0\text{m}^3/\text{h}$;

DN 25 $Q_3 = 6,3\text{m}^3/\text{h}$; $Q_3 = 10\text{m}^3/\text{h}$;

DN 32 $Q_3 = 6,3\text{m}^3/\text{h}$; $Q_3 = 10\text{m}^3/\text{h}$;

DN 40 $Q_3 = 10\text{m}^3/\text{h}$; $Q_3 = 16\text{m}^3/\text{h}$;

HYDRUS 2.0 Type 174

DN 50 $Q_3 = 25\text{m}^3/\text{h}$;

DN 65 $Q_3 = 40\text{m}^3/\text{h}$;

DN 80 $Q_3 = 63\text{m}^3/\text{h}$;

DN 100 $Q_3 = 100\text{m}^3/\text{h}$;

DN 125 $Q_3 = 160\text{m}^3/\text{h}$;

DN 150 $Q_3 = 250\text{m}^3/\text{h}$;

DN 200 $Q_3 = 400\text{m}^3/\text{h}$;

The meters can be supplied either with epoxy-coated cast iron housings (T30, T50) or stainless steel housings (T30, T50, T70, T90).

Fitness for contact with drinking water

This product is approved on the basis of the requirements for hygienic aspects set in the "Regeling materialen en chemicaliën drink- en warm tapwatervoorziening" ("Materials and chemicals in the supply of drinking water and warm tap water Regulation" dated 01-07-2017; published in the Government Gazette).

These hygienic aspects are based on two main criteria. The product shall permanently comply with:

- The product recipe approved during the assessment procedure. This recipe is not to be changed without prior approval by Kiwa according to the Kiwa approval procedure for the hygienic aspects;
- Specific product requirements for the hygienic aspects.

The recipe and specific product requirements are laid down in the for confidentiality reasons undisclosed 'appendix hygienic aspects' to this certificate.

Water meters

MARKING

The Kiwa®-mark products are marked with the word mark "KIWA" 

Place of the mark: on the meter or identification plate

Compulsory specifications:

- measuring unit (m^3);
- accuracy class, if different from accuracy class 2;
- numeric value of Q_3 ;
- ratio Q_3/Q_1 (preceded by "R", i.e. "R160");
- model approval sign according to European regulations;
- manufacturer's name or mark;
- production year (last 2 digits) and serial number (as close to the dial);
- serial number (as near as possible to the indicating device);
- flow direction with an arrow;
- MAP if different from 1 MPa;
- the letter "V" or "H", if the meter can only be operated in vertical or horizontal position;
- MAT, if different from T30;
- the pressure loss class, if different from Δp 63;
- sensitivity class, if different from U0/D0;
- the climate and mechanical environmental severity level;
- EMC Class;
- outputs for Support Devices (Type / Levels), if applicable;
- external power requirements: voltage - frequency.

Method of marking:

- non-erasable;
- visible after assembly.

APPLICATION AND USE

The products are intended to be used in closed and filled drinking water installations in order to measure the quantities of water flowing through per unit of time and totalised. The maximum water temperature of 70°C for the HYDRUS Type 173. The maximum water temperature of 50°C for the epoxy-coated cast iron housings or a maximum water temperature of 90°C for the stainless steel housings, for the HYDRUS Type 174.

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:

- Diehl Metering GmbH

and, if necessary,

- Kiwa Nederland B.V.

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