



OIML Certificate of Conformity

OIML Member State
The Netherlands

Number R49-1/2006-NL1-12.01 revision 3
Project number 13200719
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| | |
|--------------------------------------|--|
| Issuing authority | NMi Certin B.V. Person responsible: C. Oosterman |
| Applicant and Manufacturer | KROHNE Altometer Kerkeplaat 12 3313 LC Dordrecht The Netherlands |
| Identification of the certified type | A water meter Type : WATERFLUX 3070 Water meter intended for the metering of cold potable water and hot water, model "WATERFLUX 3070", class 1 and 2. |
| Characteristics | See page 2 and further |

This Certificate attests the conformity of the above identified Type (represented by the sample(s) identified in the OIML Test Report) with the requirements of the following Recommendation of the International Organization of Legal Metrology (OIML):

- R49-1/2006 (E):** Metrological and technical requirements
- R49-2/2006 (E):** Test methods
- R49-3/2006 (E):** Test Report format

This Certificate relates only to the metrological and technical characteristics of the type of measuring instrument covered by the relevant OIML International Recommendation identified above. This Certificate does not bestow any form of legal international approval.

Important note: Apart from the mention of the Certificate's reference number and the name of the OIML Member State in which the Certificate was issued, partial quotation of the Certificate and of the associated OIML Test Report(s) is not permitted, although either may be reproduced in full.

Issuing Authority **NMi Certin B.V., OIML Issuing Authority NL1**
26 September 2014



C. Oosterman
Head Certification Board

NMi Certin B.V.
Hugo de Grootplein 1
3314 EG Dordrecht
the Netherlands
T +31 78 6332332
certin@nmi.nl
www.nmi.nl

This document is issued under the provision that no liability is accepted and that the applicant shall indemnify third-party liability.

The notification of NMi Certin B.V. as Issuing Authority can be verified at www.oiml.org

Parties concerned can lodge objection against this decision, within six weeks after the date of submission, to the general manager of NMI (see www.nmi.nl).





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The conformity was established by the results of tests and examinations provided in the associated OIML Test Report(s):

- Number R49-1/2006-NL1-09.01 that includes 41 pages and 14 annexes;
- Number R49-1/2006-NL1-10.01 that includes 40 pages and 3 annexes;
- Number R49-1/2006-NL1-11.01 that includes 40 pages and 4 annexes;
- Number R49-1/2006-NL1-12.01 that includes 40 pages and 3 annexes.

Identification of the certified pattern

Water meter intended for metering cold potable water and hot water, based on an electromagnetic principle, designed to measure forward and reverse flow, with (minimum) 0 D straight inlet and outlet, with no flow conditioner and equipped with an electronic calculating/indicating device.

Metrological characteristics:

| | | |
|-------------------------------------|---|---|
| Type | : | WATERFLUX 3070 |
| Min/max admissible temperature (°C) | : | 0,1/50 |
| Indicating range (m ³) | : | 99.999.999 |
| Orientation | : | All positions |
| Environmental class | : | C |
| Power supply | : | Battery 3,6 V |
| Type U_{battery} | : | |
| Software versions | : | 4.0.4_; 4.0.10_; 4.0.11_; 4.0.12_; 4.2.2_; 4.2.4_; 4.2.5_; 4.2.6_ |



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| Meter size | DN65 | DN80 | | DN100 | | DN125 | |
|---|--------|-------|------|-------|-------|-------|------|
| Minimum flow rate Q1 (m ³ /h) | 0,40 | 0,625 | 0,64 | 1,0 | 1,0 | 1,56 | 1,60 |
| Transitional flow rate Q2 (m ³ /h) | 0,64 | 1,00 | 1,02 | 1,6 | 1,6 | 2,50 | 2,56 |
| Permanent flow rate Q3 (m ³ /h) | 100 | 100 | 160 | 160 | 250 | 250 | 400 |
| Overload flow rate Q4 (m ³ /h) | 125 | 125 | 200 | 200 | 312,5 | 312,5 | 500 |
| Ratio Q3/Q1 | 250 | 160 | 250 | 160 | 250 | 160 | 250 |
| Nominal diameter (mm) | 65 | 80 | | 100 | | 125 | |
| Accuracy Class | 1 | | | | | | |
| Maximum admissible pressure (bar) | 16 | | | | | | |
| Verification scale interval (m ³) | 0,0001 | | | 0,001 | | | |

| Meter size | DN150 | | DN200 | DN250 | DN300 |
|---|-------|-------|-------|-------|-------|
| Minimum flow rate Q1 (m ³ /h) | 2,50 | 2,52 | 3,94 | 6,25 | 10 |
| Transitional flow rate Q2 (m ³ /h) | 4,00 | 4,03 | 6,30 | 10 | 16 |
| Permanent flow rate Q3 (m ³ /h) | 400 | 630 | 630 | 1000 | 1600 |
| Overload flow rate Q4 (m ³ /h) | 500 | 787,5 | 787,5 | 1250 | 2000 |
| Ratio Q3/Q1 | 160 | 250 | 160 | 160 | 160 |
| Nominal diameter (mm) | 150 | | 200 | 250 | 300 |
| Accuracy Class | 1 | | | | |
| Maximum admissible pressure (bar) | 16 | | | 10 | |
| Verification scale interval (m ³) | 0,001 | | | | 0,01 |



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| Meter size | DN25 | | DN40 | | DN50 | | DN65 | |
|---|---------|-------|--------|-------|-------|--------|--------|-------|
| Minimum flow rate Q1 (m ³ /h) | 0,025 | 0,040 | 0,0625 | 0,100 | 0,100 | 0,1575 | 0,1575 | 0,250 |
| Transitional flow rate Q2 (m ³ /h) | 0,040 | 0,064 | 0,100 | 0,160 | 0,160 | 0,252 | 0,250 | 0,400 |
| Permanent flow rate Q3 (m ³ /h) | 10 | 16 | 25 | 40 | 40 | 63 | 63 | 100 |
| Overload flow rate Q4 (m ³ /h) | 12,5 | 20 | 31,3 | 50 | 50 | 78,75 | 78,75 | 125 |
| Ratio Q3/Q1 | 400 | | 400 | | 400 | | 400 | |
| Nominal diameter (mm) | 25 | | 40 | | 50 | | 65 | |
| Accuracy Class | 2 | | | | | | | |
| Maximum admissible pressure (bar) | 16 | | | | | | | |
| Verification scale interval (m ³) | 0,00001 | | 0,0001 | | | | | |

| Meter size | DN80 | | DN100 | | DN125 | | DN150 | |
|---|--------|------|-------|-------|-------|------|-------|-------|
| Minimum flow rate Q1 (m ³ /h) | 0,25 | 0,40 | 0,40 | 0,625 | 0,625 | 1,00 | 1,00 | 1,575 |
| Transitional flow rate Q2 (m ³ /h) | 0,40 | 0,64 | 0,64 | 1,00 | 1,00 | 1,60 | 1,60 | 2,52 |
| Permanent flow rate Q3 (m ³ /h) | 100 | 160 | 160 | 250 | 250 | 400 | 400 | 630 |
| Overload flow rate Q4 (m ³ /h) | 125 | 200 | 200 | 312,5 | 312,5 | 500 | 500 | 787,5 |
| Ratio Q3/Q1 | 400 | | 400 | | 400 | | 400 | |
| Nominal diameter (mm) | 80 | | 100 | | 125 | | 150 | |
| Accuracy Class | 2 | | | | | | | |
| Maximum admissible pressure (bar) | 16 | | | | | | | |
| Verification scale interval (m ³) | 0,0001 | | 0,001 | | | | | |



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| Meter size | DN200 | DN250 | DN300 |
|--|-------|-------|-------|
| Minimum flow rate Q1 (m ³ /h) | 1,575 | 2,50 | 4,00 |
| Transitional flow rate Q2 (m ³ /h) | 2,52 | 4,00 | 6,40 |
| Permanent flow rate Q3 (m ³ /h) | 630 | 1000 | 1600 |
| Overload flow rate Q4 (m ³ /h) | 787,5 | 1250 | 2000 |
| Ratio Q3/Q1 | 400 | 400 | 400 |
| Nominal diameter (mm) | 200 | 250 | 300 |
| Accuracy Class | 2 | | |
| Maximum admissible pressure (bar) | 16 | 10 | |
| Verification scale interval (m ³) | 0,001 | | 0,01 |

Revision History

This revision replaces the previous versions.

| Revision | Date | Changes |
|----------|-------------------|----------------------------|
| Initial | 28 March 2012 | - |
| 1 | 22 October 2012 | New software version added |
| 2 | 16 April 2013 | New software version added |
| 3 | 26 September 2014 | New software version added |