

CERTIFICAT OIML

OIML CERTIFICATE

N° R49/2013-A-FR2-22.02 rev.0

Emis sous régime A Issued under scheme A

Autorité de délivrance : **Laboratoire National de Métrologie et d'Essais**
Issuing authority : Personne responsable (Person responsible) : Thomas LOMMATZSCH

Demandeur : DIEHL METERING SAS - 67 rue du Rhône BP 10160
Applicant : FRANCE 68304 ST LOUIS CEDEX

Fabricant : DIEHL METERING SAS - 67 rue du Rhône
Manufacturer : FRA BP 10160 68304 ST LOUIS CEDEX

Identification du type certifié : Compteur d'eau DIEHL METERING type C1 / AQUILA

Identification of the certified : Water meter DIEHL METERING type C1 / AQUILA

Caractéristiques : voir annexe
Characteristics : see annex

Ce certificat atteste la conformité du modèle mentionné ci-dessus (représenté par les échantillons identifiés dans les rapports d'essais associés) aux exigences de la Recommandation suivante de l'Organisation Internationale de Métrologie Légale – OIML) :

This certificate attests the conformity of the above-mentioned pattern (represented by the samples identified in the associated test reports with the requirements of the following Recommendation of the International Organization of Legal Metrology – OIML) :

R49/2013 : Water meters for cold potable water and hot water

Ce certificat s'applique uniquement aux caractéristiques métrologiques et techniques du modèle d'instrument concerné, telles que couvertes par la Recommandation Internationale applicable. Ce certificat ne constitue en rien une approbation internationale à caractère légal. Note importante : à part la mention du numéro de référence du certificat avec le nom de l'Etat Membre de l'OIML dans lequel le certificat a été délivré, une reproduction partielle du certificat ou des rapports d'essais associés n'est pas autorisée, mais ils peuvent être reproduits dans leur totalité.

This certificate relates only to the metrological and technical characteristics of the pattern for the concerned instrument, as covered by the relevant OIML International Recommendation. 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 or the associated test report is not permitted, though they may be reproduced in full.

Les principales caractéristiques figurent dans l'annexe ci-jointe qui fait partie intégrante du certificat OIML de conformité et comprend 6 page(s).

The principal characteristics are set out in the appendix hereto, which forms part of the OIML certificate of conformity and consists of 6 page(s).



Etabli le 28 novembre 2022
Issued on November 28th, 2022
Autorité de délivrance / Pour Le Directeur Général
Issuing Authority / On behalf of the General Director



Thomas LOMMATZSCH
Responsable du Pôle Certification Instrumentation et
Technologies de l'Information
Head of the Instrumentation and IT Certification

Référence LNE - 38694 rév. n°0

Identification of the certified pattern : C1 / AQUILA

OIML R 49 EVALUATION REPORT (LNE) : P220056-2

Metrological characteristics

Type	C1	
Version	Linear	
Indicating device	Plastic G1, Glass G1,	
Nominal Diameter	50	65
Body	Brass	
Length (mm)	270...300	300...350
Connections	Threads : 2", 2 1/4 ", 2 1/2 Flanges : 50mm, 60mm, 65mm, 80mm, 100mm	Threads : 2 3/4 ", 3", 3 1/4 ", 3 1/2 Flanges : 50mm, 60mm, 65mm, 80mm, 100mm
Position	horizontal	
Permanent flowrate Q₃ (m³/h)	25	40
Overload flowrate Q₄ (m³/h)	31,25	50
Q₃/Q₁ *	400	500
Q₂/Q₁	1,6	
Indicating range	999 999	
Verification scale interval (dm³)**	0,020 or 0,050	
Cyclical volume (cm³)	574	743
Temperature class	T30 ; T50	
Maximum admissible pressure (bar)	16	
Accuracy class	2	
Pressure loss class	Δp63	
Flow profile sensitivity class	U0D0	
Environmental class	B/O	
Climatic environment	+5 ... +55°C	
Measurement of reverse flow***	no	

* Lower values from the OIML R49-1 : 2013 §4.1.4 list are permitted

** In accordance with OIML R49-1 : 2013 §6.7.3.2.3

*** The meter can withstand accidental reverse flow without deterioration or change in its metrological properties for forward flow.

Type	C1	
Version	Linear	
Indicating device	Plastic G1, Glass G1,	
Nominal Diameter	80	100
Body	Brass/Bronze	
Length (mm)	300...350	350...360
Connections	Threads : 3 1/4", 3 1/2", 3 3/4", 4" Flanges : 80mm, 100mm, 150mm	Threads : 4", 4 1/2", 5", 5 1/2" Flanges : 80mm, 100mm, 150mm
Position	horizontal	
Permanent flowrate Q₃ (m³/h)	63	100
Overload flowrate Q₄ (m³/h)	78,75	125
Q₃/Q₁ *	630	
Q₂/Q₁	1,6	
Indicating range	999 999	
Verification scale interval (dm³)**	0,020 or 0,050	
Cyclical volume (cm³)	1786	2583
Temperature class	T30 ; T50	
Maximum admissible pressure (bar)	16	
Accuracy class	2	
Pressure loss class	Δp63	
Flow profile sensitivity class	U0D0	
Environmental class	B/O	
Climatic environment	+5 ... +55°C	
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Type	C1	
Version	Linear	
Indicating device	Glass G1, Glass G1 repulsion	
Nominal Diameter	50	65
Body	Cast iron	
Length (mm)	270...300	300
Connections	Flanges : 50mm, 60mm, 65mm	Flanges : 50mm, 60mm, 65mm, 80mm
Position	horizontal	
Permanent flowrate Q_3 (m³/h)	25	40
Overload flowrate Q_4 (m³/h)	31,25	50
Q_3/Q_1 *	400	500
Q_2/Q_1	1,6	
Indicating range	999 999	
Verification scale interval (dm³)**	0,020 or 0,050	
Cyclical volume (cm³)	574	820
Temperature class	T30 ; T50	
Maximum admissible pressure (bar)	16	
Accuracy class	2	
Pressure loss class	Δp_{63}	
Flow profile sensitivity class	U0D0	
Environmental class	B/O	
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Type	C1	
Version	Linear	
Indicating device	Glass G1, Glass G1 repulsion	
Nominal Diameter	80	100
Body	Cast iron	
Length (mm)	350	
Connections	Flanges : 80mm, 100mm, 150mm	Flanges : 80mm, 100mm, 150mm
Position	horizontal	
Permanent flowrate Q_3 (m³/h)	63	100
Overload flowrate Q_4 (m³/h)	78,75	125
Q_3/Q_1 *	630	800
Q_2/Q_1	1,6	
Indicating range	999 999	
Verification scale interval (dm³)**	0,020 or 0,050	
Cyclical volume (cm³)	1786	2583
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Pictures

Actual meter name and presentation may differ. Legal markings may differ according to local regulation.



Water meters Diehl metering type C1 / Aquila