

CERTIFICAT OIML

OIML CERTIFICATE

N° R49/2013-A-FR2-23.03 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) : Emeric MOREL

Demandeur : DIEHL METERING GMBH - Industriestrasse 13
Applicant : GERMANY 91522 ANSBACH

Fabricant : DIEHL METERING GMBH Industriestrasse 13
Manufacturer : DEU 91522 ANSBACH

Identification du type certifié : Compteur d'eau type 174

Identification of the certified : Water meter type 174

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 7 page(s).

The principal characteristics are set out in the appendix hereto, which forms part of the OIML certificate of conformity and consists of 7 page(s).



Etabli le 28 mars 2023
Issued on March 28th, 2023
Autorité de délivrance / Pour Le Directeur Général
Issuing Authority / On behalf of the General Director



Emeric MOREL
Responsable du Département Certification
Instrumentation
Head of Instrumentation Certification Department

Référence LNE - 38973 rév. n°0

Laboratoire national de métrologie et d'essais • Etablissement public à caractère industriel et commercial

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Identification of the certified pattern : 174

OIML R 49 EVALUATION REPORT (LNE) : P229560-3

Metrology characteristics

Indicating device	Plastic			
Body	Iron cast coated / Stainless steel			
Nominal Diameter (mm)	50			
Connections	Flange DN50 / Rotable flange DN50			
Length	200 mm ; 270 mm ; 300 mm			
Permanent flowrate Q ₃ (m ³ /h)	25			
Overload flowrate Q ₄ (m ³ /h)	31,25			
Temperature range of the water (°C)	0,1 to 30	0,1 to 50	0,1 to 70	0,1 to 90
Q ₃ /Q ₁ Horizontal position	40-50-63-80-100-125-160-200-250-315-400-500-630-800-1000	40-50-63-80-100-125-160-200-250-315-400-500-630-800	40-50-63-80-100-125-160-200-250-315-400-500-630	40-50-63-80-100-125-160-200-250-315-400
Q ₃ /Q ₁ Vertical, rise pipe, down pipe, angle 45°	40-50-63-80-100-125-160-200-250-315-400-500-630-800	40-50-63-80-100-125-160-200-250	40-50-63-80-100-125-160-200	40-50-63-80-100-125-160
Q ₂ /Q ₁	1,6			
Maximum Admissible Pressure (bar)	10/16			
Pressure loss class	Δp16			
Indicating range (m ³)	99 999			
Verification scale interval (dm ³)	0,01			
Accuracy class	2			
Environmental class	B / O			
Climatic influence class	-25°C...55°C			
Electromagnetic influence class	E1 / E2			
Measurement of reverse flow	No (the meter can withstand accidental reverse flow without deterioration or change in its metrological properties for forward flow)			
Software identification	001.000.008 ; Checksum CRC : 0h1003			

Indicating device	Plastic			
Body	Iron cast coated / Stainless steel			
Nominal Diameter (mm)	65			
Connections	Flange DN65 / Rotable flange DN65			
Length	200 mm ; 300 mm			
Permanent flowrate Q_3 (m ³ /h)	40			
Overload flowrate Q_4 (m ³ /h)	50			
Temperature range of the water (°C)	0,1 to 30	0,1 to 50	0,1 to 70	0,1 to 90
Q_3/Q_1 Horizontal position	40- 50- 63- 80-100- 125-160-200- 250- 315-400-500-630- 800-1000	40- 50- 63- 80-100- 125-160-200- 250- 315-400-500-630- 800	40- 50- 63- 80- 100-125-160-200- 250-315-400-500- 630	40- 50- 63- 80-100- 125-160-200- 250- 315-400
Q_3/Q_1 Vertical, rise pipe, down pipe, angle 45°	40- 50- 63- 80-100- 125-160-200- 250- 315-400-500-630- 800	40- 50- 63- 80-100- 125-160-200- 250	40- 50- 63- 80- 100-125-160-200	40- 50- 63- 80-100- 125-160
Q_2/Q_1	1,6			
Maximum Admissible Pressure (bar)	10/16			
Pressure loss class	Δp_{16}			
Indicating range (m ³)	99 999			
Verification scale interval (dm ³)	0,01			
Accuracy class	2			
Environmental class	B / O			
Climatic influence class	-25°C...55°C			
Electromagnetic influence class	E1 / E2			
Measurement of reverse flow	No (the meter can withstand accidental reverse flow without deterioration or change in its metrological properties for forward flow)			
Software identification	001.000.008 ; Checksum CRC : 0h1003			

Indicating device	Plastic			
Body	Iron cast coated / Stainless steel			
Nominal Diameter (mm)	80			
Connections	Flange DN80 / Rotable flange DN80			
Length	200 mm ; 225 mm ; 300 mm ; 350 mm			
Permanent flowrate Q_3 (m ³ /h)	63			
Overload flowrate Q_4 (m ³ /h)	78,75			
Temperature range of the water (°C)	0,1 to 30	0,1 to 50	0,1 to 70	0,1 to 90
Q_3/Q_1 Horizontal position	40-50-63-80-100-125-160-200- 250-315-400-500-630-800-1000	40-50-63-80-100-125-160-200- 250-315-400-500-630-800	40-50-63-80-100-125-160-200- 250-315-400-500-630	40-50-63-80-100-125-160-200-250-315-400
Q_3/Q_1 Vertical, rise pipe, down pipe, angle 45°	40-50-63-80-100-125-160-200- 250-315-400-500-630-800	40-50-63-80-100-125-160-200- 250	40-50-63-80-100-125-160-200	40-50-63-80-100-125-160
Q_2/Q_1	1,6			
Maximum Admissible Pressure (bar)	10/16			
Pressure loss class	$\Delta p16$			
Indicating range (m ³)	999 999			
Verification scale interval (dm ³)	0,1			
Accuracy class	2			
Environmental class	B / O			
Climatic influence class	-25°C...55°C			
Electromagnetic influence class	E1 / E2			
Measurement of reverse flow	No (the meter can withstand accidental reverse flow without deterioration or change in its metrological properties for forward flow)			
Software identification	001.000.008 ; Checksum CRC : 0h1003			

Indicating device	Plastic			
Body	Iron cast coated / Stainless steel			
Nominal Diameter (mm)	100			
Connections	Flange DN100 / Rotable flange DN100			
Length	250 mm ; 350 mm ; 360 mm			
Permanent flowrate Q_3 (m ³ /h)	100			
Overload flowrate Q_4 (m ³ /h)	125			
Temperature range of the water (°C)	0,1 to 30	0,1 to 50	0,1 to 70	0,1 to 90
Q_3/Q_1 Horizontal position	40-50-63-80-100-125-160-200-250-315-400-500-630-800-1000	40-50-63-80-100-125-160-200-250-315-400-500-630-800	40-50-63-80-100-125-160-200-250-315-400-500-630	40-50-63-80-100-125-160-200-250-315-400
Q_3/Q_1 Vertical, rise pipe, down pipe, angle 45°	40-50-63-80-100-125-160-200-250-315-400-500-630-800	40-50-63-80-100-125-160-200-250	40-50-63-80-100-125-160-200	40-50-63-80-100-125-160
Q_2/Q_1	1,6			
Maximum Admissible Pressure (bar)	10/16			
Pressure loss class	$\Delta p16$			
Indicating range (m ³)	999 999			
Verification scale interval (dm ³)	0,1			
Accuracy class	2			
Environmental class	B / O			
Climatic influence class	-25°C...55°C			
Electromagnetic influence class	E1 / E2			
Measurement of reverse flow	No (the meter can withstand accidental reverse flow without deterioration or change in its metrological properties for forward flow)			
Software identification	001.000.008 ; Checksum CRC : 0h1003			

Indicating device	Plastic			
Body	Iron cast coated / Stainless steel			
Nominal Diameter (mm)	125			
Connections	Flange DN125			
Length	250 mm			
Permanent flowrate Q_3 (m ³ /h)	160			
Overload flowrate Q_4 (m ³ /h)	200			
Temperature range of the water (°C)	0,1 to 30	0,1 to 50	0,1 to 70	0,1 to 90
Q_3/Q_1 Horizontal position	40-50-63-80-100-125-160-200-250-315-400-500-630-800-1000	40-50-63-80-100-125-160-200-250-315-400-500-630-800	40-50-63-80-100-125-160-200-250-315-400-500-630	40-50-63-80-100-125-160-200-250-315-400
Q_3/Q_1 Vertical, rise pipe, down pipe, angle 45°	40-50-63-80-100-125-160-200-250-315-400-500-630-800	40-50-63-80-100-125-160-200-250	40-50-63-80-100-125-160-200	40-50-63-80-100-125-160
Q_2/Q_1	1,6			
Maximum Admissible Pressure (bar)	10/16			
Pressure loss class	$\Delta p16$			
Indicating range (m ³)	999 999			
Verification scale interval (dm ³)	0,1			
Accuracy class	2			
Environmental class	B / O			
Climatic influence class	-25°C...55°C			
Electromagnetic influence class	E1 / E2			
Measurement of reverse flow	No (the meter can withstand accidental reverse flow without deterioration or change in its metrological properties for forward flow)			
Software identification	001.000.008 ; Checksum CRC : 0h1003			

Indicating device	Plastic	
Body	Iron cast coated / Stainless steel	
Nominal Diameter (mm)	150	
Connections	Flange DN150	
Length	300 mm ; 500 mm	
Permanent flowrate Q_3 (m ³ /h)	250	
Overload flowrate Q_4 (m ³ /h)	312,5	
Temperature range of the water (°C)	0,1 to 30	0,1 to 50
Q_3/Q_1 Horizontal position	40-50-63-80-100-125-160-200- 250-315- 400-500-630-800-1000	40-50-63-80-100-125-160-200- 250-315- 400-500-630-800
Q_3/Q_1 Vertical, rise pipe, down pipe, angle 45°	40-50-63-80-100-125-160-200- 250-315- 400-500-630-800	40-50-63-80-100-125-160-200- 250
Q_2/Q_1	1,6	
Maximum Admissible Pressure (bar)	10/16	
Pressure loss class	$\Delta p16$	
Indicating range (m ³)	999 999	
Verification scale interval (dm ³)	0,1	
Accuracy class	2	
Environmental class	B / O	
Climatic influence class	-25°C...55°C	
Electromagnetic influence class	E1 / E2	
Measurement of reverse flow	No (the meter can withstand accidental reverse flow without deterioration or change in its metrological properties for forward flow)	
Software identification	001.000.008 ; Checksum CRC : 0h1003	

Indicating device	Plastic	
Body	Iron cast coated / Stainless steel	
Nominal Diameter (mm)	200	
Connections	Flange DN200	
Length	350 mm	
Permanent flowrate Q_3 (m ³ /h)	400	
Overload flowrate Q_4 (m ³ /h)	500	
Temperature range of the water (°C)	0,1 to 30	0,1 to 50
Q_3/Q_1 Horizontal position	40-50-63-80-100-125-160-200- 250-315- 400-500-630-800-1000	40-50-63-80-100-125-160-200- 250-315- 400-500-630-800
Q_3/Q_1 Vertical, rise pipe, down pipe, angle 45°	40-50-63-80-100-125-160-200- 250-315- 400-500-630-800	40-50-63-80-100-125-160-200- 250
Q_2/Q_1	1,6	
Maximum Admissible Pressure (bar)	10/16	
Pressure loss class	Δp_{16}	
Indicating range (m ³)	999 999	
Verification scale interval (dm ³)	0,1	
Accuracy class	2	
Environmental class	B / O	
Climatic influence class	-25°C...55°C	
Electromagnetic influence class	E1 / E2	
Measurement of reverse flow	No (the meter can withstand accidental reverse flow without deterioration or change in its metrological properties for forward flow)	
Software identification	001.000.008 ; Checksum CRC : 0h1003	