

Physikalisch-Technische Bundesanstalt

Braunschweig und Berlin

Member State of OIML
Germany



OIML Certificate N°
R49/2006-DE1-10.01
1. Revision

OIML CERTIFICATE OF CONFORMITY

Issuing Authority

Name: Physikalisch-Technische Bundesanstalt
Address: Bundesallee 100, 38116 Braunschweig
Person responsible: Dr. Gudrun Wendt

Applicant

Name: Zenner International GmbH & Co. KG
Address: Römerstadt 6, 66121 Saarbrücken

Manufacturers:

ZENNER International
GmbH & Co KG
Talstraße 2
09619 Mulda
GERMANY

ZENNER Coma JVC Construction
Machinery Company
125 D Minh Khai Street
Hanoi
VIETNAM

ZENNER Meters LTD
15 Dongxing Road
Songjiang Industrial Zone
Shanghai, 201613
P. R. CHINA

ZENNER Aquamet India Pvt Ltd.
39-B, HSIDC Industrial Estate, Sec.
31
Faridabad – 121003
INDIA

ZENNER do Brasil Instrumentos
de Medição Ltda.
Rua Bartolomeu de Gusmão.
2.444
Canudos – Novo Hamburgo RS
CEP: 93546-000
BRAZIL

Identification of the certified type

Water meter intended for the metering of cold potable water
Type: RNK-RP, RNK-RP-N, RNK-RP-L

Further characteristics see pages 4 - 5

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Certificate history

Issue no.	Date	Description of the modification
R49/2006-DE1-10.01	03.03.2010	First issue
R49/2006-DE1-10.01, Revision 1	31.01.2014	Integration of: <ul style="list-style-type: none">- additional nominal values $Q_3 = 1,6$, $Q_3=6,3$ m^3/h, $Q_3=10m^3/h$, $Q_3=16m^3/h$- additional nominal values $Q_3=2,5$ m^3/h, $Q_3=4m^3/h$ in version -L, meter in polymer plastics- additional measuring intervals $Q_3/Q_1=100$ and $Q_3/Q_1=125$ in nominal values $Q_3=2,5$ und $Q_3=4$- additional measuring interval $Q_3/Q_1 = 250$ in nominal value $Q_3=2,5$

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

R49-1 (2006) Metrological and technical requirements
R49-2 (2006) Test methods
R49-3 (2006) Test report format

This Certificate relates only to the metrological and technical characteristics of the type of instrument covered by the relevant OIML Recommendation identified above.

This Certificate does not bestow any form of legal international approval.

The conformity was established by the results of tests and examinations provided in the associated Reports No.

PTB-1.5-4045275-a	(50 pages)	RNK-RP Q3-1,6 R160	(52 pages)
PTB-1.5-4045275-b	(174 pages).	RNK-RP Q3-16 DN40	(70 pages)
RNK-RP Q3-6,3 DN25	(58 pages)	RNK-RP-L Q3-2,5 115 KU	(45 pages)
RNK-RP Q3-2,5 R250	(133 pages)	RNK-RP-L Q3-4 165 KU	(45 pages)
RNK-RP Q3-10 DN32	(145 pages)		

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The Issuing Authority

Dr. Gudrun Wendt
Head of Department

31.01.2014

The OIML Member

Dr. Roman Schwartz
Head of Division

31.01.2014

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

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Identification of the certified pattern – page 1 continued

Metrology characteristics:

Q ₃	m ³ /h	1.6	2.5
Q ₄	m ³ /h	2	3.125
Q ₂ /Q ₁		1.6	
Length	mm	≥ 110	
Nominal diameter	DN	15	
Thread		≥G 3/4 B	
Q ₁ (orientation any)	m ³ /h	0.020 / 0.0156 0.013 / 0.010	0.0313 / 0.025 / 0.020 / 0.0156 / 0.013 / 0.010
Q ₂ (orientation any)	m ³ /h	0.032 / 0.025 0.020 / 0.016	0.050 / 0.040 / 0.032 / 0.025 / 0.020 / 0.016
Q ₃ /Q ₁ (orientation any)		80 / 100 / 125 / 160	80 / 100 / 125 / 160 / 200 / 250

Q ₃	m ³ /h	4	6.3
Q ₄	m ³ /h	5	7.875
Q ₂ /Q ₁		1.6	
Length	mm	≥ 165	≥ 260
Nominal diameter	DN	20	25
Thread		G 1 B	≥ G 1 1/4 B
Q ₁ (orientation any)	m ³ /h	0.050 / 0.025 / 0.020	0.079 / 0.063 / 0.050 / 0.039 / 0.032
Q ₂ (orientation any)	m ³ /h	0.080 / 0.040 / 0.032	0.126 / 0.101 / 0.081 / 0.063 / 0.050
Q ₃ /Q ₁ (orientation any)		80 / 160 / 200	80 / 100 / 125 / 160 / 200

Q ₃	m ³ /h	10	16
Q ₄	m ³ /h	12.5	20
Q ₂ /Q ₁		1.6	
Length	mm	≥ 260	≥ 300
Nominal diameter	DN	32	40
Thread		≥ G 1 1/2 B	≥ G 2 B
Q ₁ (orientation any)	m ³ /h	0.125 / 0.100 / 0.080 / 0.063 / 0.050	0.200 / 0.160 / 0.128 / 0.100 / 0.080
Q ₂ (orientation any)	m ³ /h	0.200 / 0.160 / 0.128 / 0.100 / 0.080	0.320 / 0.256 / 0.205 / 0.160 / 0.128
Q ₃ /Q ₁ (orientation any)		80 / 100 / 125 / 160 / 200	80 / 100 / 125 / 160 / 200

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Maximum pressure loss	bar	< 0,63
Verification scale interval	l	0,02
Maximum admissible pressure	bar	16
Maximum admissible temperature	°C	50
Minimum straight length of inlet / outlet pipe	mm	0
Flow conditioner	---	none
Temperature class	---	T30 / T50
Accuracy class	---	2