



Member State
Switzerland

OIML Certificate
No R49/2006-CH1-08.02

OIML CERTIFICATE OF CONFORMITY

Issuing authority

Name Federal Office of Metrology METAS
Certification Body METAS-Cert

Address METAS, Lindenweg 50, CH-3003 Bern-Wabern

Person responsible Jürg Ramseyer, Head of METAS-Cert

Applicant

Name E.WEHRLE GmbH

Address Obertalstrasse 8, D – 78120 Furtwangen

Manufacturer The manufacturer of the certified pattern is the Applicant

Identification of the certified pattern

Type **Multi-jet dry-rotor meter intended for the metering of cold and hot water (T30 / T50 / T70 / T90)**
MTK-HWV, MTK-SWV, MTK-FWV, MTK-HWX, MTK-SWX,
MTK-FWX, MTK-HWK, MTK-SWK, MTK-FWK, MTW-HWV,
MTW-SWV, MTW-FWV, MTW-HWX, MTW-SWX, MTW-FWX,
MTW-HWK, MTW-SWK, MTW-FWK

For further characteristics see page 3 and ff.

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):

R 49-1, edition 2006
for accuracy class 2

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.



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The conformity was established by the results of tests and examinations provided in the associated Test Reports:

No 135-10842 that includes 5 pages

The Issuing Authority

Jürg Ramseyer, Head of METAS-Cert

The OIML Member

Dr. Philippe Richard, Vice Director

CH-3003 Bern-Wabern, 27th June 2008

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 the associated Test Report is not permitted, although either may be reproduced in full.



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1 Description of the type

The meter is a multi-jet dry-rotor meter with various threading. The measuring sensor and the register are tightly interconnected to prevent any unauthorized opening and manipulation of the meter.

2 Technical specifications

Rated Operation Conditions DN 15/20 (O-ring)

Q ₃	(m ³ /h)	2.5	4.0
Q ₄	(m ³ /h)	3.125	5.0
Q ₂ /Q ₁		1.6	1.6
Overall length	(mm)	≥ 105	≥ 105
Nominal Diameter	DN	15	20
Threaded connector According to EN 14154-1, chap. 4.2		≥ G ½ B	≥ G ¾ B
Measuring range (Q ₃ /Q ₁), mounting horizontal		160 / 125 / 100 / 80 / 63 / 50 / 40 / 31.5 / 25 / 20 / 16 / 12.5 / 10	160 / 125 / 100 / 80 / 63 / 50 / 40 / 31.5 / 25 / 20 / 16 / 12.5 / 10
Measuring range (Q ₃ /Q ₁), mounting vertical		50 / 40 / 31.5 / 25 / 20 / 16 / 12.5 / 10	50 / 40 / 31.5 / 25 / 20 / 16 / 12.5 / 10
Pressure loss class ΔP		40	63
Water pressure MAP	MPa	1.0 for PPO register chamber 1.6 for brass body	
		Cold water	Hot water
Temperature class		T30	T50 T70, T90
Accuracy class		± 2 % (Q ₂ ≤ Q ≤ Q ₄)	± 3 % (Q ₂ ≤ Q ≤ Q ₄) ± 3 % (Q ₂ ≤ Q ≤ Q ₄)
		± 5 % (Q ₁ ≤ Q ≤ Q ₂)	± 5 % (Q ₁ ≤ Q ≤ Q ₂) ± 5 % (Q ₁ ≤ Q ≤ Q ₂)
Environmental classification According to EN 14154-1, table C.1		Class B Temperature range (5 – 55) °C	
Electromagnetic environment		n/a	
Durability		12 years (standard installation conditions)	
Flow disturbance class		U0/D0	

Rated Operation Conditions DN 15/20 (flat gasket)

Q ₃	(m ³ /h)	2.5	4.0
Q ₄	(m ³ /h)	3.125	5.0
Q ₂ /Q ₁		1.6	1.6
Overall length	(mm)	≥ 105	≥ 105
Nominal Diameter	DN	15	20
Threaded connector According to EN 14154-1, chap. 4.2		≥ G ½ B	≥ G ¾ B



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Measuring range (Q_3/Q_1), mounting horizontal		80 / 63 / 50 / 40 / 31.5 / 25 / 20 / 16 / 12.5 / 10	80 / 63 / 50 / 40 / 31.5 / 25 / 20 / 16 / 12.5 / 10
Measuring range (Q_3/Q_1), mounting vertical		50 / 40 / 31.5 / 25 / 20 / 16 / 12.5 / 10	50 / 40 / 31.5 / 25 / 20 / 16 / 12.5 / 10
Pressure loss class ΔP		40	63
Water pressure MAP	MPa	1.0 for PPO register chamber 1.6 for brass body	
Temperature class		T30	T50
Accuracy class		$\pm 2\%$ ($Q_2 \leq Q \leq Q_4$)	$\pm 3\%$ ($Q_2 \leq Q \leq Q_4$)
		$\pm 5\%$ ($Q_1 \leq Q \leq Q_2$)	$\pm 5\%$ ($Q_1 \leq Q \leq Q_2$)
Environmental classification According to EN 14154-1, table C.1		Class B Temperature range (5 – 55) °C	
Electromagnetic environment		n/a	
Durability		12 years (standard installation conditions)	
Flow disturbance class		U0/D0	

Rated Operation Conditions DN 25/32

Q_3	(m ³ /h)	6.3	10.0
Q_4	(m ³ /h)	7.88	12.5
Q_2/Q_1		1.6	1.6
Overall length	(mm)	≥ 150	≥ 150
Nominal Diameter	DN	25	32
Threaded connector According to EN 14154-1, chap. 4.2		$\geq G 1 \frac{1}{4} B$	$\geq G 1 \frac{1}{4} B$
Measuring range (Q_3/Q_1), mounting horizontal		160 / 125 / 100 / 80 / 63 / 50 / 40 / 31.5 / 25 / 20 / 16 / 12.5 / 10	160 / 125 / 100 / 80 / 63 / 50 / 40 / 31.5 / 25 / 20 / 16 / 12.5 / 10
Measuring range (Q_3/Q_1), mounting vertical		50 / 40 / 31.5 / 25 / 20 / 16 / 12.5 / 10	50 / 40 / 31.5 / 25 / 20 / 16 / 12.5 / 10
Pressure loss class ΔP		40	63
Water pressure MAP	MPa	1.6	
		Cold water	
Temperature class		T30	T50
Accuracy class		$\pm 2\%$ ($Q_2 \leq Q \leq Q_4$)	$\pm 3\%$ ($Q_2 \leq Q \leq Q_4$)
		$\pm 5\%$ ($Q_1 \leq Q \leq Q_2$)	$\pm 5\%$ ($Q_1 \leq Q \leq Q_2$)
Environmental classification According to EN 14154-1, table C.1		Class B Temperature range (5 – 55) °C	
Electromagnetic		n/a	



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environment		
Durability		12 years (standard installation conditions)
Flow disturbance class		U0/D0

Rated Operation Conditions DN 40/50

Q ₃	(m ³ /h)	16.0	25.0
Q ₄	(m ³ /h)	20.0	31.25
Q ₂ /Q ₁		1.6	1.6
Overall length	(mm)	≥ 150	≥ 150
Nominal diameter	DN	40	50
Threaded connector According to EN 14154-1, chap. 4.2		≥ G 2 B	≥ G 2 ½ B or flange
Measuring range (Q ₃ /Q ₁), mounting horizontal		160 / 125 / 100 / 80 / 63 / 50 / 40 / 31.5 / 25 / 20 / 16 / 12.5 / 10	250 / 200 / 160 / 125 / 100 / 80 / 63 / 50 / 40 / 31.5 / 25 / 20 / 16 / 12.5 / 10
Measuring range (Q ₃ /Q ₁), mounting vertical		50 / 40 / 31.5 / 25 / 20 / 16 / 12.5 / 10	50 / 40 / 31.5 / 25 / 20 / 16 / 12.5 / 10
Pressure loss class ΔP		63	63
Water pressure MAP	MPa	1.6	
		Cold water	Hot water
Temperature class		T30	T50
Accuracy class		± 2 % (Q ₂ ≤ Q ≤ Q ₄)	± 3 % (Q ₂ ≤ Q ≤ Q ₄)
		± 5 % (Q ₁ ≤ Q ≤ Q ₂)	± 3 % (Q ₂ ≤ Q ≤ Q ₄)
		± 5 % (Q ₁ ≤ Q ≤ Q ₂)	± 5 % (Q ₁ ≤ Q ≤ Q ₂)
Environmental classification According to EN 14154-1, table C.1		Class B Temperature range (5 – 55) °C	
Electromagnetic environment		n/a	
Durability		12 years (standard installation conditions)	
Flow disturbance class		U0/D0	