



Member State
Switzerland

OIML Certificate
No R49/2006-CH1-09.04

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

Cylindrical piston meter intended for the metering of cold water (T30)

Type

**RTK-OPV or –OPX, RTK-HPV or –HPX
RTK-SPV or –SPX, RTK-APV or –APX**

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 135-10982 that includes 3 pages

The Issuing Authority

Jürg Ramseyer, Head of METAS-Cert

The OIML Member

Dr. Philippe Richard, Vice Director

CH-3003 Bern-Wabern, October 14, 2009

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 cylindrical piston meter based on the measuring cartridge system with various threading. The body, the measuring cartridge system and the register are tightly interconnected to prevent any unauthorized opening and manipulation of the meter.

2 Technical specifications

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	≥ 145	≥ 165
Nominal Diameter	DN	15	20
Threaded connector of the body		≥ G 3/4 B	≥ G 1 B
Threaded connector of the cartridge system		G1½B / G3B	G3B
Q ₁ mounting horizontal / vertical	ℓ/h	15,6 / 20 / 25 / 31,3 / 39,7 / 50 / 62,5 / 79,4 / 100 / 125 / 156,3 / 200 / 250	16 / 20,8 / 25 / 32 / 40 / 50 / 63,5 / 80 / 100 / 127 / 160 / 200 / 250 / 320 / 400
Q ₂ mounting horizontal / vertical	ℓ/h	25 / 32 / 40 / 50 / 63,5 / 80 / 100 / 127 / 160 / 200 / 250 / 320 / 400	25,6 / 32 / 40 / 51,2 / 64 / 80 / 100,8 / 128 / 160 / 203,2 / 256 / 320 / 400 / 512 / 640
Measuring range (Q ₃ /Q ₁), mounting horizontal / vertical		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
Pressure loss class ΔP		40	63
Calibration value	ℓ	0,05	
Water pressure MAP	bar	16	
Temperature class		T30: 0,1°C ≤ T ≤ 30°C	
Accuracy class		± 2 % (Q ₂ ≤ Q ≤ Q ₄)	
		± 5 % (Q ₁ ≤ Q ≤ Q ₂)	



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Environmental classification		Class B 5 °C up to 55 °C
Body of water meter		K 38.0942, 190 mm G 1 K 38.0982, 145 mm G $\frac{3}{4}$ K 38.1020, 165 mm G $\frac{3}{4}$ K 38.1038 K 38.0983, ascending pipe G 1

* Overall length of meter for downflow and ascending piping is 105mm