Czech Metrology Institute

Member state
Czech Republic

OIML Certificate No.
R49/2006-CZ-10.01

OIML CERTIFICATE OF CONFORMITY

Issuing Authority

Name: Czech Metrology Institute
Address: Okružní 31,
638 00 Brno, CZ
Person responsible: Jan Kalandra

Applicant

Name: Ningbo Water meter Co., Ltd.
Address: No. 99, Lane 268, Beihai Road
315033 Ningbo
China

Manufacturer of the certified type
Name: Ningbo Water Meter Co., Ltd.
Address: No. 99, Lane 268, Beihai Road
315033 Ningbo
China

Identification of the certified type

Volumetric water meter
Type: PD-LFC

Further characteristics see page 3

This certificate attests the conformity of above identified type (represented by the sample or samples identified in the associated test report) with the requirements of the following Recommendation(s) of the International Organization of Legal Metrology (OIML):

R 49, edition 2006, for accuracy class 2

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This certificate relates only to the metrological and technical characteristics of the type of instrument covered by the relevant OIML Recommendation(s) 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 Test report: No. 6015-PT-A0043-10 that includes 66 pages.

Measuring system description:

The water meters type PD-LFC with brass or bronze body consist of a lower and upper covers with connecting threads, a inlet strainer (optional), a wet measuring unit, a clamp frame, a transmission shaft, a semi dry mechanical indicating device, a non-return valve, a brass head ring and rubber o-ring.

There are water meters PD-LPF with plastic body also. The water meters with plastic body consist of a lower and upper covers with connecting threads, a inlet strainer (optional), a wet measuring unit, a clamp frame, a transmission shaft, a semi dry mechanical indicating device, a non-return valve, and rubber o-ring.

The measuring unit consists of an internal strainer, a piston chamber with plastic shaft with stainless steel holder, a bush, a plate, a piston with stainless steel shaft, a piston chamber lid with, a transmission shaft.

Český metrologický institut
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The Issuing Authority
Jan Kalandra

29 December 2010

The CIML Member
Pavel Klenovský

29 December 2010

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.

Characteristics:

The water meters type PD-LFC are positive displacement meters with rotary piston.

Nominal diameter (DN) [mm]:	15	20	25	32	40
Overload flowrate (Q_4) [m^3/h]:	≤ 3.13	≤ 5.00	≤ 7.88	≤ 12.5	≤ 20.0
Permanent flowrate (Q_3) [m^3/h]:	≤ 2.50 [1]	≤ 4.00 [1]	≤ 6.30 [1]	≤ 10.0 [1]	≤ 16.0 [1]
Transitional flowrate (Q_2) [m^3/h]:	≥ 0.0100	≥ 0.0160	≥ 0.0252	≥ 0.0400	≥ 0.0640
Minimum flowrate (Q_1) [m^3/h]:	≥ 0.0063	≥ 0.0100	≥ 0.0158	≥ 0.0250	≥ 0.0400
Ratio Q_3 / Q_1:	≤ 400 [2]				
Ratio Q_2 / Q_1:	1.6				
Ratio Q_4 / Q_3:	1.25				
Accuracy class:	2				
Maximum permissible error for the lower flowrate zone (MPE_l):	± 5 %				
Maximum permissible error for the upper flowrate zone (MPE_u):	± 2 % for water having a temperature ≤ 30 °C ± 3 % for water having a temperature > 30 °C				
Temperature class:	T30 and T50				
Water pressure classes:	MAP 16				
Pressure-loss classes:	ΔP 63				
Indicating range [m^3]:	9 999			99999	
Resolution of the indicating device [m^3]:	0.00002				0.0002
Flow profile sensitivity classes:	U0 D0				
Orientation limitation:	Arbitrary orientation				
Length L [mm]:	110 to 170	130 to 190	170 to 260	260	300
Connection type– Screw thread size:	G¾B or G1B	G1B	G1¼B	G1½B	G2B
Reed switch power supply (U_{max} / I_{max}):	max. 24 V / 0.01 A				
Reed switch K-factor [impulse / L]:	2				0.2

[1] The value of Q_3 shall be chosen from the R5 line of ISO 3:1973.

[2] The ratio Q_3 / Q_1 shall be chosen from the R10 line from ISO 3:1973 and this value shall be higher than 10.