



OIML Member State  
SLOVAKIA

OIML Certificate No.  
R49/2013-A-SK1-2020.01

**OIML CERTIFICATE ISSUED UNDER SCHEME A**

**OIML Issuing Authority**

Name: **Slovak Legal Metrology (SLM)**  
Address: Hviezdoslavova 1124/31, 974 01 Banská Bystrica, Slovakia  
Person responsible: Jaromír Markovič, Director General

**Applicant**

Name: **Ningbo Zlink Technology Co., Ltd.**  
Address: No. 1, Songcui Road, Dongqianhu Tourist Holiday Resort  
Ningbo, Zhejiang, China

**Manufacturer**

Name: **Ningbo Zlink Technology Co., Ltd.**  
Address: No. 1, Songcui Road, Dongqianhu Tourist Holiday Resort  
Ningbo, Zhejiang, China

**Identification of the certified type** *(the detailed characteristics are defined in the additional pages)*

Water meter type **LXSG-15**

**Designation of the module** *(if applicable)*

Multi jet water meter intended for the metering of cold potable water

This OIML Certificate attests the conformity of the above identified type (represented by the sample(s) identified in the OIML type evaluation report) with the requirements of the following Recommendation of the International Organization of Legal Metrology (OIML):

OIML R 49, Edition (year): 2013

For accuracy class (if applicable): 2



**OIML Certificate No.  
R49/2013-A-SK1-2020.01**

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

This OIML 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 OIML type evaluation report:

No. 2020/ER007/SK1 dated 26<sup>th</sup> February 2020 that includes 14 pages.

The technical documentation relating to the identified type is contained in documentation file:

No. Ningbo Zlink\_LXSG-15\_00 dated 25<sup>th</sup> February 2020 that includes 56 pages.

**OIML Certificate History**

Revision No.	Date	Description of the modification
0	21st April 2020	Certificate first issued
-	-	-

Identification, signature and stamp

The OIML Issuing Authority

Jaromír Markovič

Date: 21<sup>st</sup> April 2020

*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 OIML type evaluation report(s) is not permitted, although either may be reproduced in full.



## 1. Designation

The mechanical multi-jet water meters type LXSG-15 is designed to measure, memorise and display the volume of water passing through the measurement transducer at metering conditions. The water meter is intended for the measurement of volumes of clean water in residential use.

The mechanical water meter type LXSG-15 is multi-jet rotary vane wheel water meters with dry mechanical indication device and consist of a brass body.

The water meter type LXSG-15 shall be installed to operate in the horizontal position only with the indication device positioned at the top and is not designed to measure the reverse flow.

## 2. Description

Essential parts of the water meter type LXSG-15:

- measuring mechanism – consisting of the measuring chamber and the rotary vane wheel (impeller) with an axle perpendicular to the flow direction;
- dry type mechanical register and indication device with 5 numbered black colour drums for cubic meters and 4 continuously moving rotating red colour pointers for sub-multiples of a cubic meters;
- housing of water meter with inlet and outlet connections;
- magnetic coupling for the connection of mechanical register with the measuring mechanism;
- adjustment device – an adjustment screw regulates the internal by-pass flow of the meter;
- filter fitted at the inlet of a meter.

## 3. Metrological functions

Metrological functions of water meter type LXSG-15:

- measuring, memorizing and displaying the volume of water passing through the water meter

## 4. Integrated equipment and functions

Integrated equipment and functions of water meter type LXSG-15:

- not applicable.



## 5. Technical and metrological data

Table 1: Technical and metrological data of the water meter type LXSG-15

Parameter	Unit	Value
Nominal diameter DN	mm	15
Permanent flowrate $Q_3$	m <sup>3</sup> /h	2,5
Minimum flowrate $Q_1$	m <sup>3</sup> /h	0,015625
Transitional flowrate $Q_2$	m <sup>3</sup> /h	0,025
Overload flowrate $Q_4$	m <sup>3</sup> /h	3,125
Ratio $Q_3/Q_1$	R	160
Ratio $Q_2/Q_1$	-	1,6
Connection thread	-	G 3/4
Construction length $L$	mm	165
Installation orientation	-	H Horizontal with the indication device at the top
Water temperature range $\theta$ (temperature class)	°C	0,1 to 30 (T30)
Maximum admissible pressure $MAP$	bar	10
Pressure loss class $\Delta p$	bar	0,63
Maximum permissible error in upper flowrates range $Q_2 \leq Q \leq Q_4$	%	$\pm 2$ (at $\theta \leq 30^\circ\text{C}$ )
Maximum permissible error in lower flowrates range $Q_1 \leq Q < Q_2$	%	$\pm 5$
Scale interval (resolution of the indicating device)	m <sup>3</sup>	0,00005
Capacity of calculator	m <sup>3</sup>	99999
Flow profile sensitivity class	-	U0 D0



## 6. Marking and inscriptions

The following data shall be marked on the water meter:

- a) name or trademark of the manufacturer;
- b) type name of the water meter;
- c) unit of measurement  $m^3$ ;
- d) year of manufacture, the last two digits of the year of manufacture, or the month and year of manufacture;
- e) serial number (as near as possible to the indicating device);
- f) direction of flow, by means of an arrow (shown on both sides of the body or on one side only provided the direction of flow arrow is easily visible under all circumstances);
- g) flowrate  $Q_3$  and ratio  $Q_3/Q_1$  indicated as (R) followed by the ratio value;
- h) maximum admissible pressure (MAP);
- i) temperature class;
- j) pressure loss class;
- k) operating position (letter H);
- l) installation sensitivity class;
- m) type approval sign according to national regulations.

## 7. Security measures

The water meter type LXSG-15 shall be protected against unauthorised manipulation by the seal with the wire securing the connection of the water meter head with the screw cap of adjustment screw.

