

# Physikalisch-Technische Bundesanstalt

Braunschweig und Berlin

Member State of OIML  
Germany



OIML Certificate No.  
**R49/2006-DE1-09.01**  
Revision 1

## OIML CERTIFICATE OF CONFORMITY

### Issuing Authority

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

### Applicant

Name: SEVLAND GmbH  
Address: Hauptstraße 27  
90547 Stein  
GERMANY

### Manufacturer

Name: Vzljot JSC  
Address: Masterskaya Str. 9  
190121 St. Petersburg  
RUSSIA

### Identification of the certified type

Electromagnetic water meter intended for the metering of cold potable water and hot water  
Type: AFLOWT MF, AFLOWT MF Pro, AFLOWT MF Lite M

Further characteristics see page 3

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  
R49-2 (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.

# Physikalisch-Technische Bundesanstalt

OIML Certificate No.  
**R49/2006-DE1-09.01**  
**Revision 1**

The conformity was established by the results of tests and examinations provided in the associated Report No. PTB-1.5-4043027 (148 pages).

## The Issuing Authority

Dr. G. Wendt  
Head of Department

07.11.2013

## The OIML Member

Dr. R. Schwartz  
Head of Division

07.11.2013

*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.

# Physikalisch-Technische Bundesanstalt

OIML Certificate No.  
**R49/2006-DE1-09.01**  
**Revision 1**

Identification of the certified pattern – page 1 continued

Metrology characteristics:

Nominal diameter mm	Q <sub>1</sub> m <sup>3</sup> /h	Q <sub>2</sub> m <sup>3</sup> /h	Q <sub>3</sub> m <sup>3</sup> /h	Q <sub>4</sub> m <sup>3</sup> /h	Q <sub>2</sub> /Q <sub>1</sub>	Q <sub>3</sub> /Q <sub>1</sub>
20	1,0 / 0,8 / 0,625 / 0,5 / 0,4 / 0,3175 / 0,25 / 0,2 / 0,1587 / 0,125 0,1 / 0,08 / 0,0625	1,6 / 1,28 / 1,0 / 0,8 / 0,64 / 0,508 / 0,4 / 0,32 / 0,254 / 0,2 / 0,16 / 0,128 / 0,1	10	12,5	1,6	10 / 12,5 / 16 20 / 25 / 31,5 40 / 50 / 63 80 / 100 125 / 160
25	1,6 / 1,28 / 1,0 / 0,8 / 0,64 / 0,508 / 0,4 / 0,32 / 0,254 / 0,2 / 0,16 / 0,128 / 0,1	2,56 / 2,05 / 1,6 / 1,28 / 1,02 / 0,81 / 0,64 / 0,51 / 0,41 / 0,32 / 0,26 / 0,205 / 0,16	16	20	1,6	10 / 12,5 / 16 20 / 25 / 31,5 40 / 50 / 63 80 / 100 125 / 160
32	2,5 / 2,0 / 1,56 / 1,0 / 0,79 / 0,625 / 0,5 / 0,4 / 0,313 / 0,25 / 0,2 / 0,156	4,0 / 3,2 / 2,5 / 2,0 / 1,6 / 1,27 / 1,0 / 0,8 / 0,63 / 0,5 / 0,4 / 0,32 / 0,25	25	31,25	1,6	10 / 12,5 / 16 20 / 25 / 31,5 40 / 50 / 63 80 / 100 125 / 160
40	4,0 / 3,2 / 2,5 / 2,0 / 1,3 / 1,0 / 0,8 / 0,63 / 0,5 / 0,4 / 0,32 / 0,25	6,4 / 5,12 / 4,0 / 3,2 / 2,56 / 2,03 / 1,6 / 1,28 / 1,0 / 0,8 / 0,64 / 0,5 / 0,4	40	50	1,6	10 / 12,5 / 16 20 / 25 / 31,5 40 / 50 / 63 80 / 100 125 / 160
50	6,3 / 5,0 / 4,0 / 3,15 / 2,52 / 2,0 / 1,56 / 1,26 / 1,0 0,8 / 0,63 / 0,4 / 0,4	10 / 8 / 6,3 / 5 / 4 / 3,2 / 2,5 / 2,0 / 1,6 / 1,26 / 1,0 / 0,8 / 0,63	63	78,75	1,6	10 / 12,5 / 16 20 / 25 / 31,5 40 / 50 / 63 80 / 100 125 / 160
100	25 / 20 / 15,6 / 12,5 / 10 / 8 / 6,25 / 5 / 4 / 3,125 / 2,5 / 2 / 1,56	40 / 31 / 25 / 20 / 16 / 12,7 / 10 / 8 / 6,35 / 5 / 4 / 3,2 / 2,5	250	312,5	1,6	10 / 12,5 / 16 20 / 25 / 31,5 40 / 50 / 63 80 / 100 125 / 160
150	63 / 50,4 / 39,38 / 31,5 / 25,2 / 20 / 15,75 / 12,6 / 10 / 7,88 / 6,3 / 5,04 / 3,94	100 / 80 / 63 / 50 / 40 / 32 / 25 / 20 / 16 / 12 / 10 / 8 / 6,3	630	787,5	1,6	10 / 12,5 / 16 20 / 25 / 31,5 40 / 50 / 63 80 / 100 125 / 160
200	100 / 80 / 63 / 50 / 40 / 32 / 25 / 20 / 16 / 12 / 10 / 8 / 6,3	160 / 128 / 100 / 80 / 64 / 50 / 40 / 32 / 25,4 / 20 / 16 / 12,8 / 10	1000	1250	1,6	10 / 12,5 / 16 20 / 25 / 31,5 40 / 50 / 63 80 / 100 125 / 160
300	250 / 200 / 156 / 125 / 100 / 80 / 63 / 50 / 40 / 31,25 / 25 / 20 / 15,6	400 / 320 / 250 / 200 / 160 / 127 / 100 / 80 / 63,5 / 50 / 40 / 32 / 25	2500	3125	1,6	10 / 12,5 / 16 20 / 25 / 31,5 40 / 50 / 63 80 / 100 125 / 160

# Physikalisch-Technische Bundesanstalt

OIML Certificate No.  
**R49/2006-DE1-09.01**  
Revision 1

Verification scale intervall (m <sup>3</sup> )	0,00001
Accuracy class	2
Temperature class	T90
Maximum admissible pressure (bar)	25
Maximum admissible temperature (°C)	90
Enviromental class	B, C
Electromagnetic environment	E2 (industrial use)

Installation details:

Connection type	Sandwich-type or flange-type connection
Minimum straight length of outlet pipe	2 x DN
Minimum straight length of inlet pipe	5 x DN
Flow conditioner	none
Orientation limitations	None overhead mounting