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EU-TYPE EXAMINATION CERTIFICATE

Number: TCM 142/25 - 6022

Addition 1

This addition replaces all previous versions of this certificate in full wording.

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- In accordance:** with Directive 2014/32/EU of the European Parliament and of the Council on the harmonisation of the laws of the Member States relating to the making available on the market of measuring instruments (implemented in Czech Republic by Government Order No. 120/2016 Coll.).
- Manufacturer:** Bermad CS Ltd
Kibbutz Evron
2280800 Kibbutz Evron
Israel
- For:** water meter – woltman type
Type: 900E
- Accuracy class: 2
Temperature class: T30
- Valid until:** 12 June 2035
- Document No:** 0511-CS-A012-25
- Description:** Essential characteristics, approved conditions and special conditions, if any, are described in this certificate.
- Date of issue:** 8 October 2025



Certificate approved by:


RNDr. Pavel Klenovský

1 Characteristics of instrument

The Woltmann water meters type 900E are designed to measure, memorise and display the volume at metering conditions of water passing through the measurement transducer in the sense of the Directive 2014/32/EU of the European Parliament and of the Council of the harmonisation of the laws of the Member States relating to the making available on the market of measuring instruments (implemented in Czech Republic by Government Order No. 120/2016 Coll.), as amended.

The water meters type 900E are horizontal Woltmann meters. The water meters type 900E consist of a cast iron/ductile iron body with connecting flanges and threaders, grooved, wet measurement unit with adjusting device and a dry digital indicating device. There is water meter flange cover connected by screws. The water meters type 900 Series have a vertical turbine impeller with mechanical drive (type W) or magnetic drive (type M) connected to a dry control head. The water meter type 900E have electronic register with LCD display with 12 digits.

The water meters type 900E can be equipped by reed impulse transmitter which can be used for remote reading. It is not certificated.

The water meters type 900E shall be installed to operate in horizontal position only with the indicating device positioned at the top.

2 Main characteristics

Manufacturer:	Bermad CS Ltd, Kibbutz Evron, 2280800 Kibbutz Evron (Israel)				
Model number:	900 E				
Nominal diameter:	40	50	65	80	100
Type details:					
	0.500	0.500	0.500	1.260	2.000
	0.880	0.880	0.880	2.200	3.520
	25.000	25.000	25.00	63.000	100
	31.250	31.250	31.250	78.750	125
Q ₃ /Q ₁ :	50				
Q ₂ /Q ₁ :	1.6				
Q ₄ /Q ₃ :	1.25				
Measuring principle:	Woltman				
Accuracy class:	2				
Temperature class:	T30				
Water pressure class:	MAP 16				
Pressure loss class:	ΔP 63				
Maximum admissible temperature [°C]:	30				
Maximum admissible pressure [MPa]:	1.6				
Orientation limitation:	horizontal position with the indicating device positioned at the top				
Resolution of the indicating device [dm ³]:	0.001	0.001	0.001	0.001	0.01
Indicating range [m ³]:	99 999	99 999	99 999	99 999	999 999
Resolution of the device for rapid testing pulses/liter] ² :	1				
EUT testing requirements (OIML R 49-2:2013, 8.1.8):					
Category:	Turbine water meters				
Case:	E				

Installation details:					
Connection type (screw thread):	Flanged, Threaded, Grooved	Flanged, Threaded, Grooved	Flanged, Threaded, Grooved	Flanged, Grooved	Flanged, Grooved
Minimum straight length of inlet pipe [mm]:	0				
Minimum straight length of outlet pipe [mm]:	0				
Flow profile sensitivity class:	U0 D0				
Flow conditioner (details if required):	No				
Mounting:	in-line				
Orientation:	horizontal position with the indicating device positioned at the top				
Length [mm]:	250	250	250	250 to 310	250 to 350
Reverse flow:	Not designed to measure				
Mechanical environment class (OIML R 49-1:2013/ Directive 2014/32/EU): ¹	B, O / M1				
Electromagnetic environment:	E2				
Temperature range ambient:	-25 °C / 55 °C				
Power supply:					
Type (battery, mains AC, mains DC) ¹ :	battery				
U _{max} (V):	3.6				
U _{min} (V):	2.7				
Frequency:	-				
Minimum battery lifetime [years] ¹ :	8				
Software version					
Software version (of legally relevant SW):	-				
CRC checksum (of legally relevant SW):	0045012D				
Ancillary devices (not certified):					
K-factor [pulse/Litres]:	1; 5; 10; 50; 100; 1000				
Reed sensor power supply (U _{max} / I _{max}):	The reed sensor is an internal component operating within a voltage range of 1.8V to 5.5V, with a maximum current consumption of 2 µA. The overall product consumes up to 180 µW at its peak, corresponding to 50 µA at 3.6V.				
Power supply (U _{max} / I _{max}) ² :					
Information specified by the manufacturer (information in the table below are not certified)					
-	-				

³ The ratio Q_3 / Q_1 shall be chosen according to paragraph 4.1.4 of OIML R 49-1:2013

3 Tests

Technical tests of the water meters type 900E were performed in compliance with the International Recommendation OIML R 49 Edition 2013 (E) with conformity to EN ISO 4064:2017, Type Evaluation report No. 0511-ER-V037-23 (with related test reports No. 6015-PT-P0016-25, No. 6015-PT-P0015-25, No. 6011-PT-SW010-25, No. 8551-PT-E0216-23) and Type Evaluation report No. 0511-ER-V089-25 (with related test reports No. 6015-PT-P0037-25).

4 Conformity marks and inscription

The water meters type 900E shall be clearly and indelibly marked with the following information:

- Water meter type
- Unit of measurement (m³)
- Numerical value Q_3 in m³/h ($Q_3 \times \times$) and the ratio Q_3 / Q_1 ,
- EU-type examination certificate number
- Manufacturer's name, registered trade name or registered trade mark



- Post address of manufacturer (on dial or on destructive label)
- Year of manufacture, two last digits of the year of manufacture, or the month and year of manufacture
- Serial number (as near as possible to the indicating device)
- 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)
- Maximum admissible pressure (MAP ××)
- The temperature class (T××)
- The pressure loss class (ΔP ××)
- Orientation limitation marks: H
- The installation sensitivity class (U×D×)
- CE marking and metrology marking in line with the Directive 2014/32/EU

There are additional data required for water meter with the electronic indicating device:

- For a non-replaceable battery: the latest date by which the meter shall be replaced
- Environmental classification (B or O)
- Electromagnetic environmental class (E2)
- Software version / checksum (on digital display)

There are additional data required if the water meter is equipped with an ancillary device:

- Output signals for ancillary devices (type / levels)
- External power supply requirements (voltage – frequency)
- Sensor reading (impulse / L)

These markings shall be visible without dismantling the water meter after the instrument has been placed on the market or put into use. Examples are in Figure 3.

5 Additional specifications

The water meters type 900E shall be put onto the market in line with the procedure of conformity assessment according to the Annex D or F of the Directive 2014/32/EU as well as in compliance with the technical description of this report and shall be tested in accordance with the requirements determined in EN ISO 4064-1:2017, respectively OIML R 49-1:2013.

A metrological test may only be performed by a producer, or a notified body respectively in line with the conformity assessment procedure by the D or F Annexes of the Directive 2014/32/EU, respectively.

6 Ensuring the integrity of the instruments

The connections between water meter type 900E body and the register housing and the cover of the water meter has to be sealed. Apart from this sealing (point A) following control, monitoring and measuring points marked B and C, (the location of the seals is shown in the Figure 2) have to be sealed.

7 Drawing of the instruments

Water meters type 900E are manufactured according to the technical documentation of manufacturer. Technical documentation contains following drawings:

Document reference	Date	Brief description
Standard CE label (dwg 038143)	5.6.2025	CE LABEL
S26\040-MAG	20.2.2023	900 (3''+4'') drawing+BOM (2 pages)
S8\020-MAG	26.05.2025	900 (1.5''+2'') drawing+BOM (2 pages)
S8\025-MAG	19.04.2007	900/MO CMB SERIES (2.5'') drawing+BOM (2 pages)

History of additions

Addition No.	Description
-	Issuing certificate
Addition 1	Change to PN16 and addition of the size DN 65

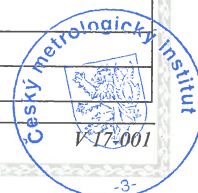


Figure 1: The water meter type 900E:



Figure 2: The water meter type 900E – view and sealing:

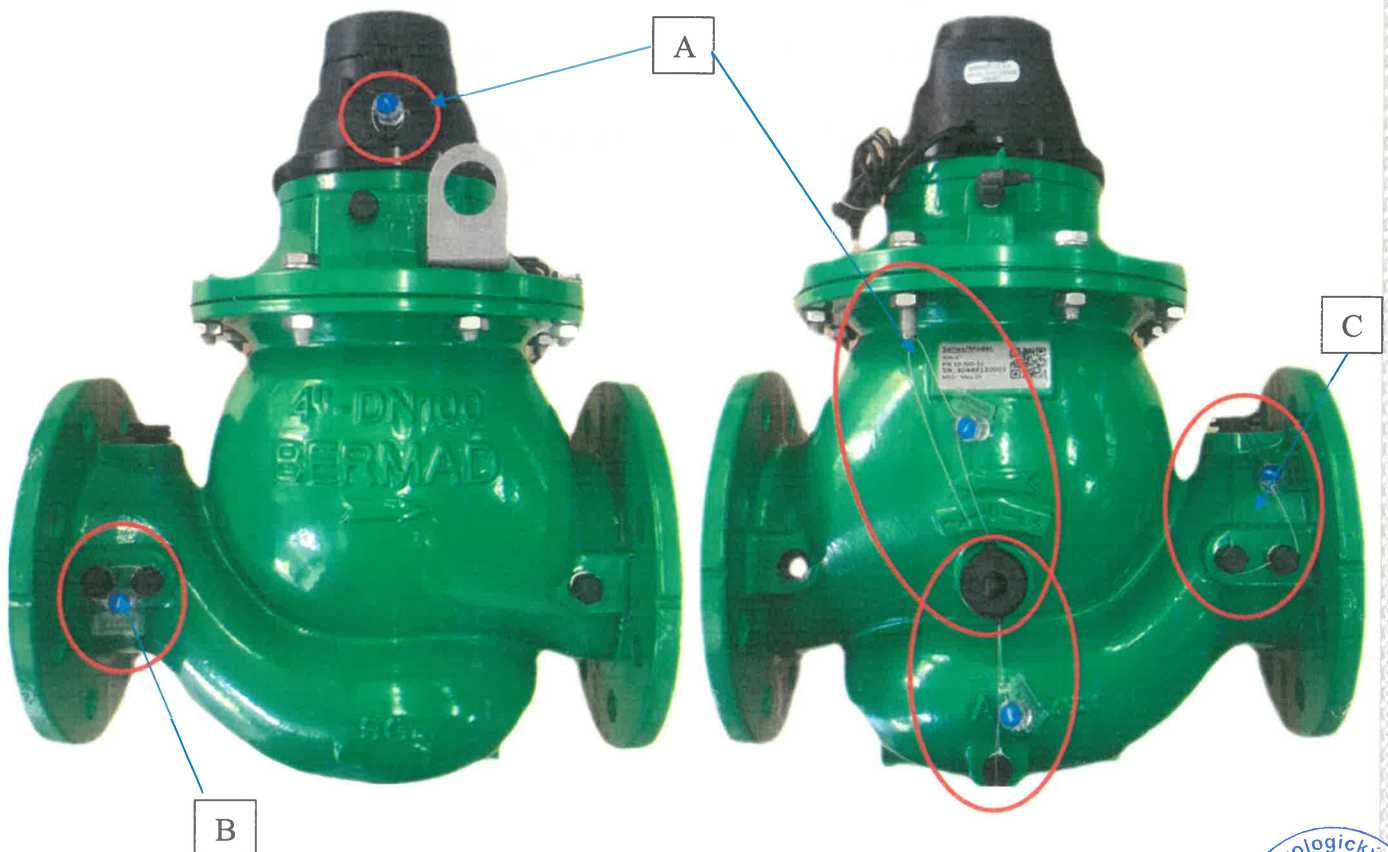


Figure 3: The water meter type 900E – marking (example) :

