

WATER METERS

Single-jet dry-rotor version meters

- For cold and warm water
- Nominal flow 1.5 - 2.5 m³/h
- Horizontal and vertical fitting
- Optionally, with Modularis totalizer or contact maker



HERE ARE MANY GOOD REASONS FOR USING THE UNIVERSAL SINGLE-JET METERS FROM WEHRLE



Exploded view of a single-jet dry-rotor version meter

- ① Cover
- ② Totalizer
- ③ Ring nut
- ④ Pressure plate
- ⑤ Impeller wheel
- ⑥ Housing

Thanks to their clever construction principle, single-jet dry-rotor version meters from Wehrle guarantee precise measuring results and exceptional reliability.

The resolute separation of wet and dry areas protects the number wheel totalizer from deposits and corrosion. Without exception, the materials used are of top quality. Depending on the model, the meters are produced with 5- or 8-digit totalizers and are available for temperatures up to 30°C (ETK, single-jet dry-rotor version meter for cold water) or up to 90 °C (ETW, single-jet dry-rotor version meter for warm water). The maximum pressure load is 1,6 MPa .

The dial faces, stick-on labels and protective covers can be labelled individually as the customer desires.

The totalizers are pivoted which makes them easy to read regardless of whether they are inserted horizontally or vertically.

Single-jet dry-rotor version meters meet all demands of the PTB (Federal Physicotechnical Institution) as well as EU regulations. Numerous international approvals have been granted.

Best equipped for modern meter communication are the single-jet dry-rotor version meters with Modularis totalizers and the meters with contact makers. Using these intelligent solutions, integration into any remote reading system is not only simple but they can also be retrofitted at any time.

Naturally, our meters are also available as washstand meters and hose meters.

VARIATIONS



Single-jet meters Standard ETW-EAV and ETK-EAV with 8-digit totalizer

SINGLE-JET METER STANDARD

- Metrological class B (R80)
- Metrological class C (R160) possible with cold water
- Totalizer protected by separate dry and wet areas
- Pivotal 5- and/or 8-digit totalizers
- Long working life thanks to the use of top-quality materials
- Individual labelling at customer's request
- Housing in natural brass or chromium-plated



Single-jet meters Modularis ETW-EAX and ETK-EAX with modules added

SINGLE-JET METER MODULARIS

The innovative solution for modern water meter communication:

- Ready for connection with remote reading systems
- 8-digit roller totalizer with modulation indicator
- Resolution 1 litre
- Can be retrofitted with the following electronic modules:
 - Modularis pulse generator, S0 DIN 43864 or reed-compatible
 - Modularis M-Bus according to EN 1434-3
 - Modularis radio-controlled, frequency 868 MHz or 433 MHz



Single-jet meters with reed contact ETW-EAK and ETK-EAK

CONTACT METER WITH REED

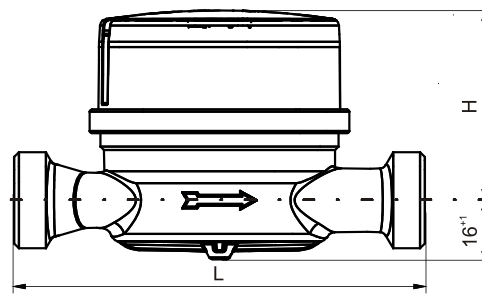
The contact meter is suitable in the best possible manner for electronic data collection. The contact exit can be connected to different measuring data systems.

- Standard pulse valency 10 litres/pulse
- Standard cable length 2 m
- Other pulse valencies and cable lengths on request
- Direct switching voltage up to 200 V
- Switching current 500mA, switching time 0.5 ms
- Transition resistance 150 mOhm
- Capacity 0.2 pF

TECHNICAL DATA

PRODUCT DESCRIPTION

- ETK -... = Single-jet dry-rotor version meter for cold water
- ETW-... = Single-jet dry-rotor version meter for warm water
- ...-EAV = Single-jet meter Standard
- ...-EAX = Single-jet meter Modularis
- ...-EAK = Single-jet contact meter
- ...-WAV = Washstand meter
- ...-CAV = Hose meter

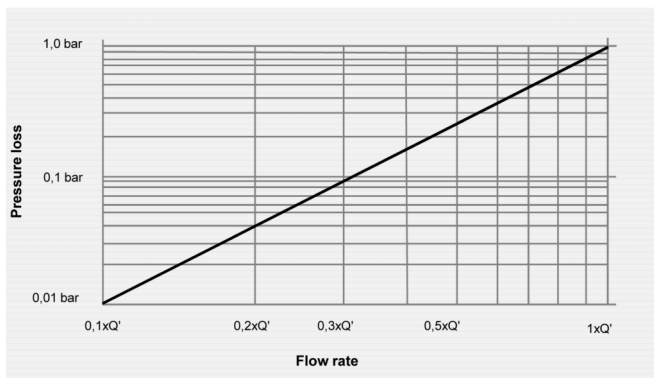


Dimensioned drawing single-jet meters Standard and Modularis

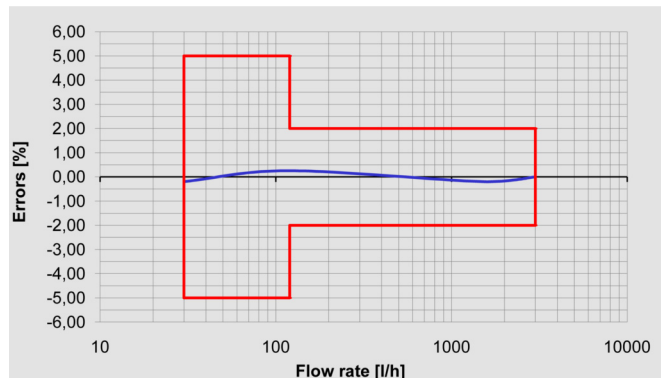
Overall length L [mm]	80	100	110	115	130	130	130
Nominal flow Q ₃ [MID]	2,5	2,5	2,5	2,5	2,5	2,5	4
Nominal flow Q _n [EWG]	1,5	1,5	1,5	1,5	1,5	1,5	2,5
Nominal width [mm]	15	15	15	13	15	20	20
Start about [l/h] **	8	8	8	8	8	8	15
Flow Q' at 1 bar pressure loss [l/h]	3200	3200	3200	3200	3200	3200	5050
Connecting thread	3/4"	22x14h	3/4"	7/8"-3/4"	3/4"	1"	1"
Height H about [mm]	69	69	69	69	69	69	69
Weight about [Kg]	0,4	0,4	0,43	0,44	0,6	0,5	0,64
Achievable metrological class:							
ETK [EWG]	B-H/A-V	B-H/A-V	C-H/A-V	C-H/A-V	C-H/A-V	C-H/A-V	B-H/A-V
ETW [EWG]	B-H/A-V	B-H/A-V	B-H/A-V	B-H/A-V	B-H/A-V	B-H/A-V	B-H/A-V
ETK/ETW [MID]	R80H/R50V	R80H/R50V	R160H/R63V	R160H/R63V	R160H/R63V	R160H/R63V	R160H/R63V

*Additional overall lengths and metrological classes on request

** Typical values for horizontal mounting position



Pressure loss graph



Typical accuracy curve Q_n1,5 class B