

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



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 of 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 16 MPa.

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

Because the totalizers are pivoted they can be read easily whether 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.

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

VARIATIONS



Single-jet meters Standard ETK-EAV and ETW-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 print at customer's request
- Housing in natural brass or chromium-plated



Single-jet meters Modularis ETK-EAX and ETW-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 ETK-EAK and ETWEAK

CONTACT METER WITH REED

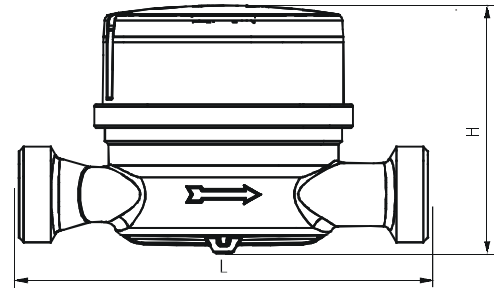
The contact meter is suitable in the best possible manner for electronic data collection. The contact exit can be connected to different measuring data systems.

- 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 = Wash-stand meter
- ...-CAV = Hose meter



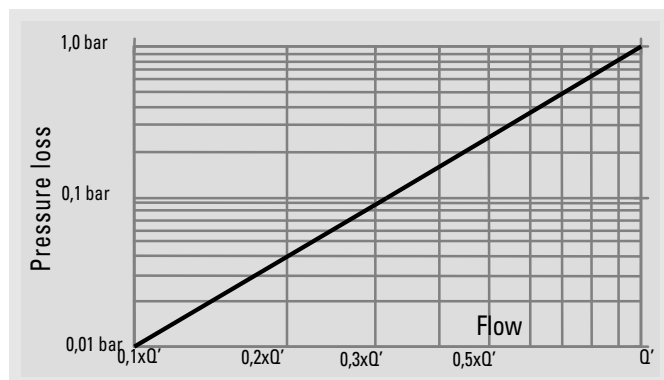
Dimensioned drawing single-jet meters Standard and Modularis

Overall length L [mm]	80	100	110	110	115	130	130	130	190	
Nominal flow Q3	2,5	2,5	2,5	2,5	2,5	2,5	2,5	4	4	
Nominal flow Qn	1,5	1,5	1,5	1,5	1,5	1,5	1,5	2,5	2,5	
Nominal width [mm]	15	15	15	20	13	15	15	20	15	
Start about [l/h]	< 8	< 8	< 8	< 8	< 8	< 8	< 8	< 15	< 15	
Flow Q' at 1 bar pressure loss [l/h]	3200	3200	3200	3200	3200	3200	3200	5050	5050	
Connecting thread	3/4"	22x14h	3/4"	1"	7/8"-3/4"	3/4"	1"	1"	1"	
Height H about [mm]	69	69	69	69	69	69	69	69	69	
Weight about [Kg]	0,4	0,4	0,43	0,43	0,44	0,6	0,5	0,64	0,93	
EAchievable metrological class ETK	B-H/A-V R80H/R50V		C-H/A-V R160-H/R63-V					B-H/A-V R160-H/R63-V		
Achievable metrological class ETW	B-H/A-V R80H/R50V		B-H/A-V R160-H/R63-V							
Order numbers										
ETK-EAV B/A	98-0418	98-0231	98-0421	98-0633	98-0586	98-0472	98-0674	98-0480	98-0542	
ETW-EAV B/A	98-0419	98-0232	98-0422	98-0634	98-0587	98-0473	98-0675	98-0481	98-0572	
ETK-EAX B/A	98-0702		98-0701	98-0701	98-0703	98-0704	98-0704	98-0705	98-0706	
ETW-EAX B/A	98-0709		98-0750	98-0751		98-0753	98-0754	98-0754		
ETK-EAK B/A	98-0254		98-0068	98-0412	98-0221		98-0280	98-0280		
ETW-EAK B/A	98-0255		98-0074	98-0423	98-0676	98-0261	98-0295	98-0173		
ETK-WAV B/A	98-0574		98-0574							
ETW-WAV B/A	98-0575		98-0575							
ETK-CAV B/A	98-0064		98-0061							

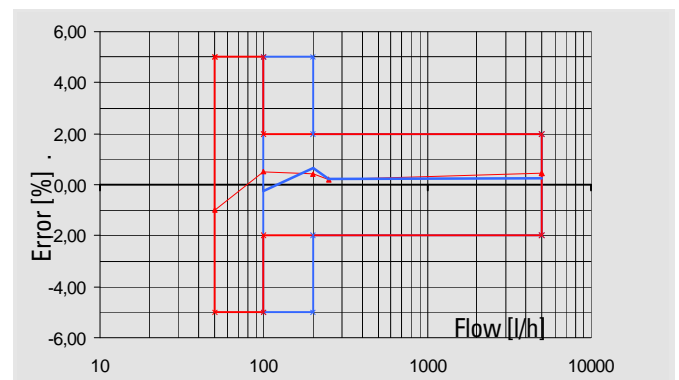
*Other overall lengths and metrological classes on request

Technical data and order numbers of Single-jet meters

Data sheet Single-jet dry-rotor version meter as at 2008-08-29/MDA



pressure loss graph



Typical error graph Classe C and Classe B