WATER METERS

Multi-jet dry-rotor version meters

- For cold and warm water
- Nominal flow 1.5 – 15 m³/h
- Can be inserted horizontally or vertically
- Optionally, with Modularis totalizer or contact maker

MULTI-JET DRY-ROTOR VERSION METERS FROM WEHRLE ARE FAMOUS FOR THEIR OUTSTANDING SERVICEABILITY

Exploded view of a multi-jet dry-rotor version meter (measuring insert)

① Totalizer
② Register box
③ Ribbed baffle plate
④ Impeller wheel
⑤ Impeller chamber

Wehrle multi-jet dry-rotor version meters are characterized by extreme functionality, excellent workmanship and reliability.
Their housings are corrosion-resistant and are in accordance with the applicable standards. They are available untreated, painted or electrostatically powder-coated as required.
Multi-jet dry-rotor version meters dispose of a fine adjustment. Their measurement results are extremely reliable also in the case of more heavily soiled water.
The totalizer of the dry-rotor version meter is waterproof encapsulated and therefore cannot be contaminated.

Depending on the model, the meters are produced with 5- or 8-digit totalizers and are available for temperatures of:
- up to 30 °C (**MTK**, multi-jet dry-rotor version meter for cold water)
- up to 90 °C (**MTW**, multi-jet dry-rotor version meter for warm water).

The maximum pressure load is 1,6 MPa.

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

The meters can be supplied for horizontal, ascending and downflow piping. Multi-jet dry-rotor version meters for horizontal piping can also be equipped with flange connections for Qn 15 meters.

Multi-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 multi-jet dry-rotor version meters with Modularis totalizers and the meters with contact makers.

Naturally, our inserts are also available separately.

VARIATIONS

Multi-jet meters standard with 5-digit and 8-digit totalizer

MULTI-JET METER STANDARD

- Metrological class B (R80)
- Metrological class R160 possible with cold and warm water
- Totalizer protected by separate dry and wet areas
- Pivotable 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, powder-coated or painted

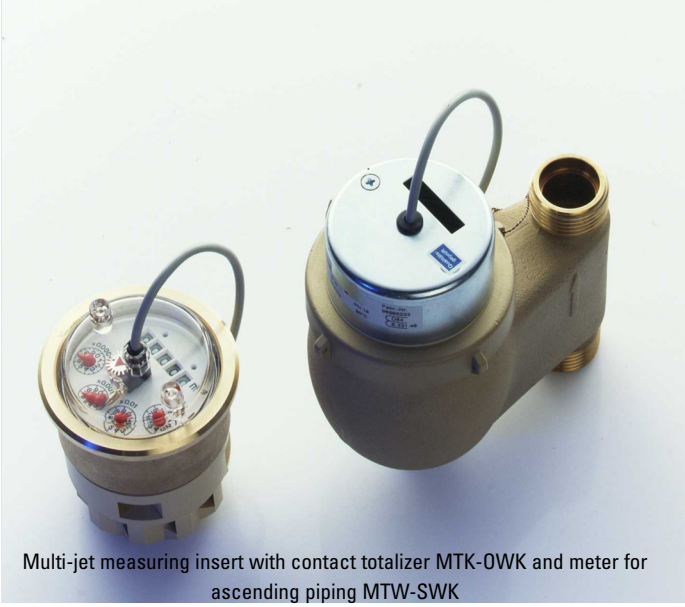
Multi-jet meters Modularis MTW-HWX and MTK-HWX with modules added

MULTI-JET METER MODULARIS

The innovative solution for modern water meter communication:

- Ready for integration into any remote reading system
- 8-digit totalizer with modulation indicator
- Resolution 1 litre
- Can be retrofitted (at any time, i.e. also additionally) 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



Multi-jet measuring insert with contact totalizer MTK-0WK and meter for ascending piping MTW-SWK

CONTACT METER WITH REED

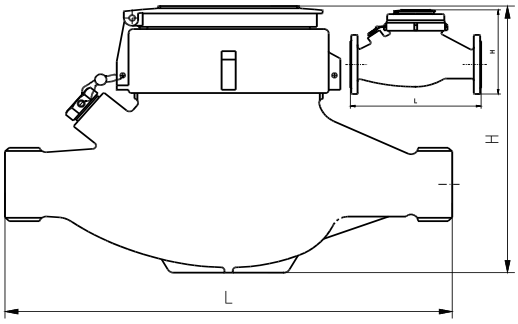
The contact meter is suitable in the best possible manner for electronic data collection. The contact exit can be connected to different measuring data systems.

- 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 500 mA, switching time 0.5 ms
- Transition resistance 150 mOhm
- Capacity 0.2 pF

TECHNICAL DATA

PRODUCT DESCRIPTION

MTK - ... = Multi-jet dry-rotor version meter for cold water
MTW-... = Multi-jet dry-rotor version meter for warm water
...-HWV = Multi-jet meter Standard
...-HWX = Multi-jet meter Modularis
...-HWK = Multi-jet contact meter
...-SW. = Meter for ascending piping
...-FW. = Meter for downflow piping
...-0W. = Measuring insert

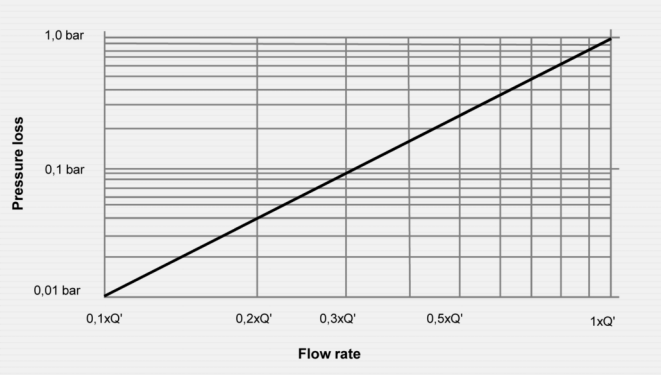


Dimensioned drawing multi-jet meters Standard and Modularis

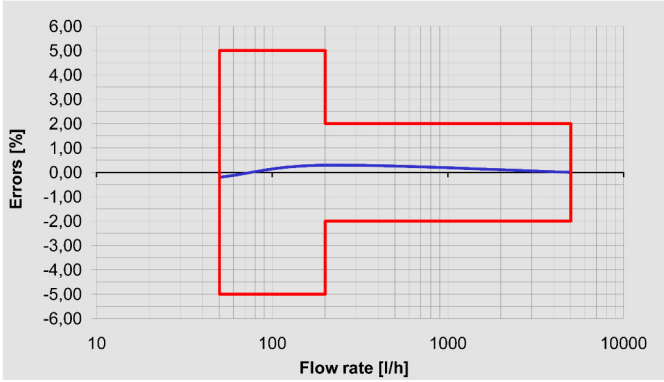
Overall length L [mm]	165	190	260	260	260	300	300	105 ascending piping	105 ascending piping	150 ascending piping	105 downflow piping	150 ascending piping	150 ascending piping
Nominal flow Q3 [MID]	2,5	4	6,3	10	10	16	25	2,5	4	6,3	4	10	16
Nominal flow Qn [EWG]	1,5	2,5	3,5	6	6	10	15	1,5	2,5	3,5	2,5	6	10
Nominal width [mm]	15	20	25	25	32	40	50 / F50	20	20	25	20	25	40
Start about [l/h] ** [EWG]	10	13	18	17	17	38	38	10	13	18	13	17	38
Start about [l/h]** [MID]	8	9	14	17	17	19	20	8	9	14	9	17	19
Flow Q' at 1 bar pressure loss [l/h]	4500	5600	11000	12500	12500	24000	31000	5500	5500	12500	5500	12500	26000
Connecting thread	3/4"	1"	1 1/4"	1 1/4"	1 1/2"	2"	2 1/2" / F50	1"	1"	1 1/4"	1"	1 1/4"	2"
Height H about [mm]	104	108	120	120	120	143	155 / 162	150	150	170	150	170	215
Weight about [Kg]	1,4	1,6	2,4	2,4	2,4	4,8	6,9 / 9,6	1,8	1,8	2,9	2,1	2,9	5,4
Achievable metrological class:													
MTK [EWG]	B-H	B-H/A-V	B-H	C-H	C-H	B-H	B-H	B-H	B-H	B-H	B-H	C-H	B-H
MTW [EWG]	A-H	B-H	A-H	A-H	A-H	-----	-----	A-H	B-H	A-H	B-H	A-H	-----
MTK/MTW [MID]	R125H	R160H	R160H	R160H	R160H	R160H	R160H	R125H	R160H	R160H	R160H	R160H	R160H

*Additional overall lengths and metrological classes on request

** Typical values for horizontal mounting position



Pressure loss graph



Typical accuracy curve Qn 2,5 class B