

Mechanical water meter Q water 4 (MAD)

Mechanical MID-conform meter for determining water consumption in water supply systems.

The water meter Q water 4 (MAD) is designed as a single-jet dry running meter in compact design, is available in the nominal flow rates Q_3 2.5 m³/h and Q_3 4.0 m³/h and also as a special length of 115 mm.

Application

The mechanical water meter used for measuring water quantities. The main areas of application are in water supply systems where the water is outputted individually to different consumers.

This is meaningful in:

- 】 Apartment buildings
- 】 Offices and administration buildings

Typical users are:

- 】 Private building owners
- 】 Housing associations
- 】 Building service companies
- 】 Property management compaies

Functions

- 】 Measurement of water consumption
- 】 Display of consumption values

Technology

Measuring principle

The meter operates based on the single-jet measuring principle where the water jet hits the impeller tangentially. The impeller's speed is sensed magnetically.

Mechanical design

Basic design and totalizer

The water meter is comprised of a flow measuring section, which houses the impeller and the totalizer. It is designed as a compact unit; the flow measuring section and the totalizer form one unit. The body of the flow measuring section is made of brass. It houses the measuring chamber with the single-jet impeller. The inlet has a sieve to retain larger dirt particles. The flow measuring section carries the totalizer, which is a dry running meter. It is protected by a transparent plastic cover. The water meter indicates the actual consumption with an 8-digit totalizer. It has an indicator for the current water consumption and a rotating wheel for the indication of flow.

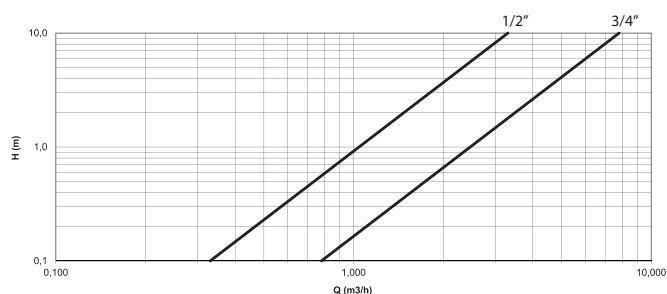
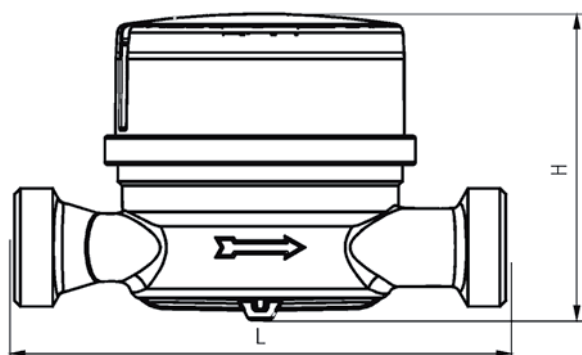
Direct connection

The water meter for direct connection has a flow measuring section with two externally threaded connections. Fittings are used to mount it directly into the piping. The totalizer can be swivelled through 360°.

The water meter is equipped with a QUNDIS-specific Data Matrix code. It is located on the meter's marking plate, on the packaging and on the outer packaging and contains the serial number, the complete article number, the year of the conformity assessment and the number of products.

Technical Data

Meter type	WMMH xxxx 0	WMMH xxxx 1	WMMH xxxx 2	WMMH xxxx 3	WMMH xxxx Y	WMMH xxxx Z
Meter size / permanent flowrate Q_3 m ³ /h	2,5		4	2,5		4
corresponds to previous nominal size Q_n m ³ /h	1,5		2,5	1,5		2,5
Connection thread	G 3/4" B		G 1" B	G 3/4" B	G 7/8" B - G 3/4" B	G 1" B
Performance data						
Overload flow rate Q_4 m ³ /h	3,125		5.000	3,125		5.000
Transition flow rate Q_2 (H/V) l/h	50/100		80/160	50/100		80/160
Min. Flow Rate Q_1 (H/V) l/h	31,25/62,5		50/100	31,25/62,5		50/100
Measuring range (MID) Q_3/Q_1 (H/V)	R80/R40		R80/R40	R80/R40		R80/R40
Permanent flowrate Q_3 l/h	2.500		4.000	2.500		4.000
Temperature class MAT °C	Cold water T30			Hot water T30/T90		
Perm. operating pressure MAP bar	16					
Mechanical class	M1					
Protection rating	IP 65					
Inflow/outflow zone	U0 / D0					
Length L mm	80	110	130	130	115	115
Height H mm	73,2					
Nominal width DN mm	15	15	20	15	15	20
Weight kg	0,45		0,50	0,45		0,50
Start-up l/h	10		12	10		12
Ambient conditions	Transport: -25 °C to +70 °C, <95 % RH (without condensation) acc. to EN 60721-3-2					
	Storage: -5 °C to +45 °C, <95 % RH (without condensation) acc. to EN 60721-3-1					
	Use: +5 °C to +55 °C, <95 % RH (without condensation) acc. to EN 60721-3-3					
Drinking water approvals	Germany: KTW, W270 France: ACS Italy: Law no. 31/1, Decree no. 174/2004 Great Britain: WRAS Polen: Poland sanitary certificate Romania: Rumanian sanitary certificate					



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