SIEMENS 5³²⁶



Mechanical water meter

WFK30.. WFW30..

- . Mechanical meter for measuring the consumption of cold and hot water
- Displays cumulated consumption
- · can be retrofitted with electronic modules

Use

To acquire the water consumption in:

- Domestic water systems in residential or non-residential buildings
- · Water supply systems of any type
- Multi-family houses, office and administrative buildings

Typical users are:

- Private building owners and property associations
- Building maintenance companies and housing estate agents

Functions

- Acquisition of water consumption
- Cumulation of consumption values
- · Display of consumption values

Type summary

Meters without a remote reading output

Max. water temperature [°C]	Mounting length [mm]	Q ₃ [m³/h]	corre- sponds to Q _n [m³/h]	Connection sizes (ISO 228)	Type reference
30	80	2,5	1.5	G ¾	WFK30.D080
30	110	2,5	1.5	G ¾	WFK30.D110
30	130	4,2	2.5	G 1	WFK30.E130
90	80	2,5	1.5	G ¾	WFW30.D080
90	110	2,5	1.5	G ¾	WFW30.D110
90	130	4,0	2.5	G 1	WFW30.E130

Accessories

Meter replacement

pieces

Mounting length / thread	Type reference	
80 mm / G ¾	WFZ.R80	
110 mm / G ¾	WFZ.R110	
130 mm / G 1"	WFZ.R130	

Other accessories

Description	Type reference
Two fittings for water meter 3/4"	WFZ.R2
Two fittings for water meter 1"	WFZ.R2-1
Extension 80 mm to 110 mm (G3/4 B to G1 B)	WZM-V110

Ordering

When ordering, please indicate type references according to the "Type summary". The water meter is supplied with two flat seals and a metal seal with a sealing wire. The fittings and the meter replacement piece are not included in the standard delivery. They must be ordered as separate items.

Technical design

Direct reading

The flow rate is measured by means of a hydraulic impeller. The flow rate value is transferred to a mechanical totalizer via a magnetic clutch. The meter has

- a totalizer (maximum value 99.999,999 m³), which gives the current consumption
- a totalizer (1 revolution = 1 liter), which shows the current consumption in liters
- a flow check

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 (refer to "Accessories").

The totalizer can be swivelled through 360°.

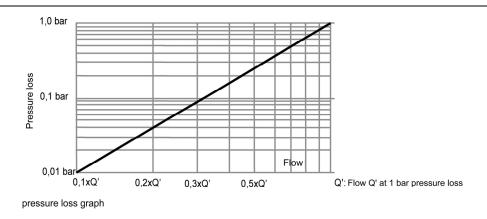
Accessories

Meter replacement piece Fittings

Meter replacement piece for previous mounting, which can be used for flushing the piping before mounting the water meter, etc.

The fittings are made of brass. They consist of insert, spigot nut and flat seals and are used for mounting the meter replacement piece or the water meter.

Pressure Drop Curve



Mounting notes

- The local regulations for the use of water meters (mounting, sealing, etc.) must be complied with
- The water meter should preferably be mounted between two shutoff valves.
 To facilitate reading and service work, it should be easily accessible
- If the water meter is only used at the time of commissioning, it is possible to fit the meter replacement piece first.
- Prior to mounting the water meter, the piping must be thoroughly flushed. For this purpose, fit the meter replacement piece
- The flow measuring section can be mounted horizontally or vertically. For higher metrological classes, it must be mounted horizontally.
- The direction of flow (indicated by an arrow on the body) must be observed
- Before the flow enters the measuring section, there should be a straight inlet path of at least 35 mm
- The totalizer should be placed in a position where it is easy to read (horizontal).

Operating notes

For operation, recalibration and replacement of the water meter, the local regulations must be observed.

Technical Data

C€- conformity to

EC-type examination certificate DE-08-MI001-PTB018 EC Drinking Water Directive (98/83/EG)

EO Britiking Water Birective (56/66/EO)						
Metrology class						
Horizontal	R80					
Vertical	R40					
Flow rates	1.5		2.5			
Permanent flowrate Q ₃ [m³/h]	2,5		4,0			
corresponds to nominal flow Q _n [m³/h]	1.5		2.5			
Nominal width [mm]	15		20			
Start-up approx. [l/h]	< 8		< 15			
Max. perm. operating pressure [bar]	16					
Range of use of volume meter [°C]						
Typ WFK30	30		30			
Typ WFW30	90		90			
Flow rate Q' at a pressure drop of 1 bar [l/h]	3200		5050			
Connection sizes and dimensions*						
Pipe connection G (inlet and outlet)	G ¾	G ¾	G 1			
Mounting length L [mm]	80	110	130			
Mounting height H [mm]	69	69	69			
Weight [kg]	0.40	0.43	0.63			
* see diagram helow						

^{*} see diagram below

Dimensions

