# SIEMENS



**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

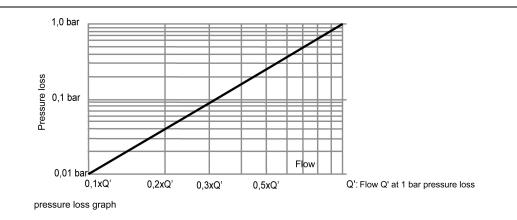
## Type summary

	Max. water temperature [°C]	Mounting length [mm]	Q₃[m³/h]	corre- sponds to Q <sub>n</sub> [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	4,0	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 len	ath / thread	Type referer				
pieces		-	WFZ.R80				
	<u>110 mm / G 3</u> 130 mm / G 1		WFZ.R110 WFZ.R130				
Other accessories					I -		
Other accessories	Description					Type reference	
	Two fittings for water meter <sup>3</sup> /4"					WFZ.R2	
	Two fittings for water meter 1"					WFZ.R2-1	
	Extension 80	mm to 110 n	nm (G3/4 B to	o G1 B)	WZM-	WZM-V110	
Ordering							
		•	• •		-	•••	
	The water me	eter is supplie nd the meter	ed with two fla replacement	it seals and a piece are not	metal seal w	Type summary". ith a sealing wire ne standard de-	
Technical design	The water me The fittings a	eter is supplie nd the meter	ed with two fla replacement	it seals and a piece are not	metal seal w	ith a sealing wire	
Technical design Direct reading	The water me The fittings at livery. They n The flow rate transferred to • a totalizer tion	eter is supplie nd the meter nust be order is measured a mechanical (maximum va (1 revolution	ed with two fla replacement ed as separa by means of totalizer via a alue 99.999,9	at seals and a piece are not te items. a hydraulic ir magnetic cluto 99 m3), which	metal seal w included in th npeller. The fl h. The meter h n gives the cu	ith a sealing wire ne standard de- ow rate value is	
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Direct connection	The water meter for direct connection has a flow measuring section with two exter- nally threaded connections. Fittings are used to mount it directly into the piping (refer to "Accessories"). The totalizer can be swiveled through 360°.
Accessories	
Meter replacement	Meter replacement piece for previous mounting, which can be used for flushing the piping before mounting the water meter, etc.
Piece Fittings	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). After mounting, the respective test pressure must be applied to the plant.

#### **Operating notes**

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

#### **Disposal notes**

- Dispose of the devices through channels provided for this purpose.
- Comply with all local and currently applicable laws and regulations.

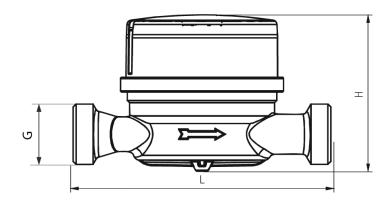
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### **Technical Data**

Metrology class	Horizontal	R80			
Metrology class	Vertical	R40			
	Ventiour	WFxx.D080	WFxx.D110	WFxx.D130	
Operational data	Flow rates				
•	Permanent flow rate Q <sub>3</sub> [m <sup>3</sup> /h]	2,5	2,5	4,0	
	corresponds to nominal flow Q <sub>n</sub> [m <sup>3</sup> /h]	1.5	1,5	2.5	
	Nominal width [mm]	15	15	20	
	Start-up approx. [l/h]	< 8	< 8	< 15	
	Max. permitted operating pressure [bar]	16	16	16	
	Range of use of volume meter [°C]				
	Type WFK30	30	30	30	
	Type WFW30	90	90	90	
	Flow rate Q' at a pressure drop of 1 bar [l/h]	3200	3200	5050	
	Flow rate Q' at a pressure drop of 1 bar [l/h]				
	Connection sizes and dimensions				
	(see diagram below)				
	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	
Standards, directives and	Product standard	EN 14154 Water meters			
approvals	EU conformity (CE)	CE1T5326xx *)			
	EC-type examination certificate	DE-08-MI001-PTB018			
	EC Drinking Water Directive	98/83/EC			
Environmental	Product environmental declaration (contains	CE1E5326 *)			
compatibility	data on RoHS compliance, materials compo-				
-	sition, packaging, environmental benefit,				
	disposal)				

\*) The documents can be downloaded from http://siemens.com/bt/download.

#### Dimensions



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