SIEMENS

5344

Bath tub meter

WFK...
WFW...

The Bath tub meter can be used on mixer taps. Meters the consumption of hot and cold water. Displays cumulative consumption. Single-jet dry-rotor meter..

Applications

Metering water consumption of:

- service water supply systems in residential and non-residential buildings
- water supply systems of any kind
- multiple dwellings, office and administration buildings

Typical users are:

- private building owners and housing associations
- building service companies and property administrators

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Siemens Building Technologies
Landis & Staefa Division

Type overview

Meter

Bath tub meter	cold high polish chrome	hot high polish chrome	cold chrome	hot chrome
Q_N = 1,5 m^3/h Connecting part ¾“	WFK10.DBC	WFW10.DBC	WFK10.DBN	WFW10.DBN
Q_N = 1,5 m^3/h Connecting part ½“	WFK20.DBC	WFW20.DBC	WFK20.DBN	WFW20.DBN

Replacement meter	cold high polish chrome	hot high polish chrome	cold chrome	hot chrome
Replacement meter VZ	WFK20.DVCA	WFW20.DVCA	WFK20.DVNA	WFW20.DVNA

Ordering

When placing an order, state the type designation as listed in the type overview. Included with bath tub meter are the fittings and a seal.

Technical description

The flow rate is measured by means of a hydraulic, vane-type transducer. The flow rate reading is transferred to a mechanical counter by means of a magnetic coupling. The reading is displayed using an 8-digit drum-type register and an additional pointer (one pointer revolution is equivalent to one litre). The star in the centre of the meter rotates when water is flowing through the meter.

Design

Design and counter mechanism

The bath tub meter is designed as a single-pointer vane-type counter. It comprises a vane-type transducer, the counter which is of the dry-rotor type, and the fittings. The meter is fitted to the existing installation with the fittings.
The meter casing and fittings are in high-polish, chrome-plated or chrome-plated. The counter is covered by a transparent plastic hood.
The display comprises an 8-digit drum-type register and a pointer showing the present consumption. Both indicate consumption to within 0.1 l. A rotating star displays the flow rate.
The meter can be turned about its own axis for optimal read-off.

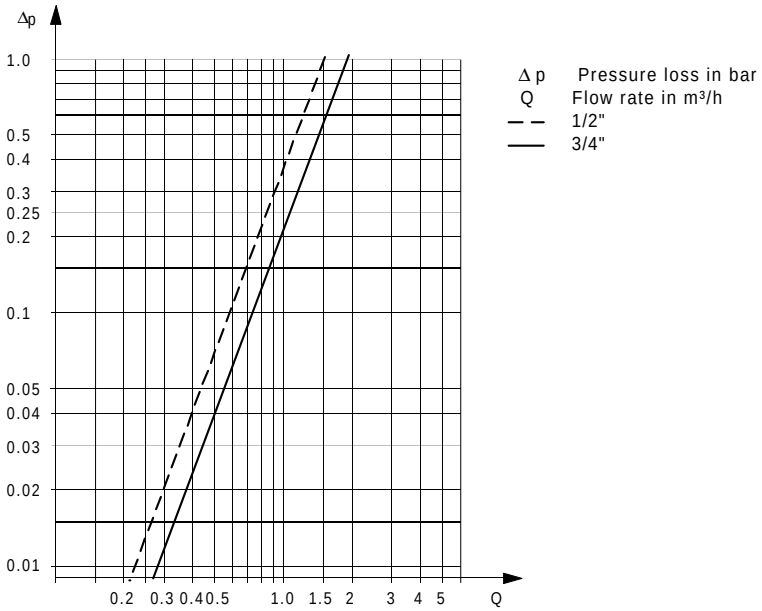
Accessories

Replacement meters

When the calibration period expires, a replacement meter can be fitted. The old fittings do not need to be replaced.

Dimensions

Pressure loss characteristics



Installation instructions

- Observe the local regulations for use (installation, sealing, etc.) of water meters.
- Rinse out the pipe thoroughly before fitting the meter
- The meter should be positioned so that the display can be read horizontally.
- After installation, the system should be tested under pressure.
- Refer to installation instructions, which are supplied with every meter, for more details

Technical data

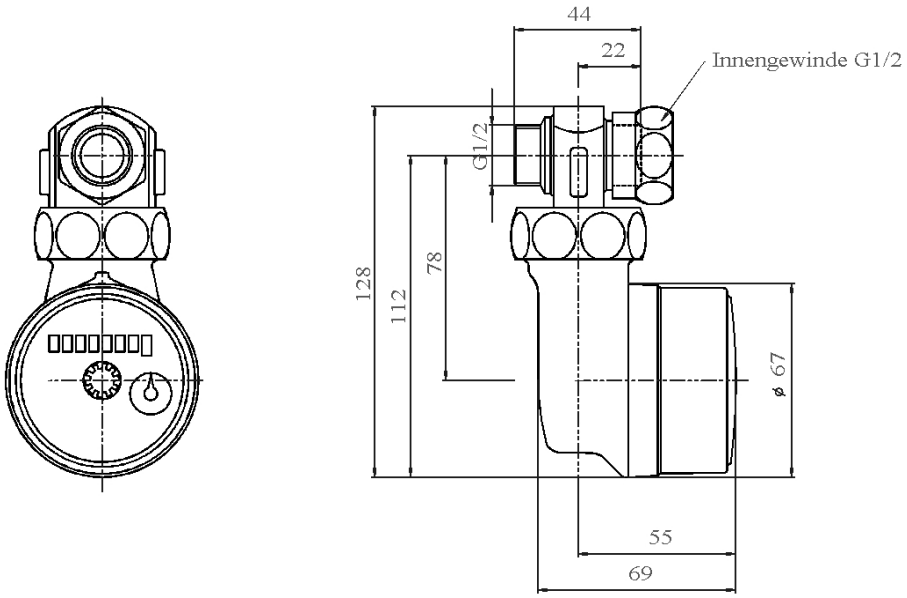
Flow metering

Metrological class	
Meter horizontal installation	A
Meter vertical installation	A
Flow rates	
Lower limit of flow Q_t	150 l/h
Min. flow rate Q_{min}	60 l/h
Nom. width	½“
Nom. flow rate Q_n	1.5 m³/h
Max. flow rate Q_{max}	3.0 m³/h
Nom. pressure PN	10 bar
Pressure drop (¾“) bei Q_n	< 670 mbar
Pressure drop (¾“) bei Q_{max}	< 2.7 bar
Calibration error limits	
$Q_{min} \le Q < Q_t$	± 5 %
$Q_t \le Q \le Q_{max}$ (hot water)	± 3 %
$Q_t \le Q \le Q_{max}$ (cold water)	± 2 %

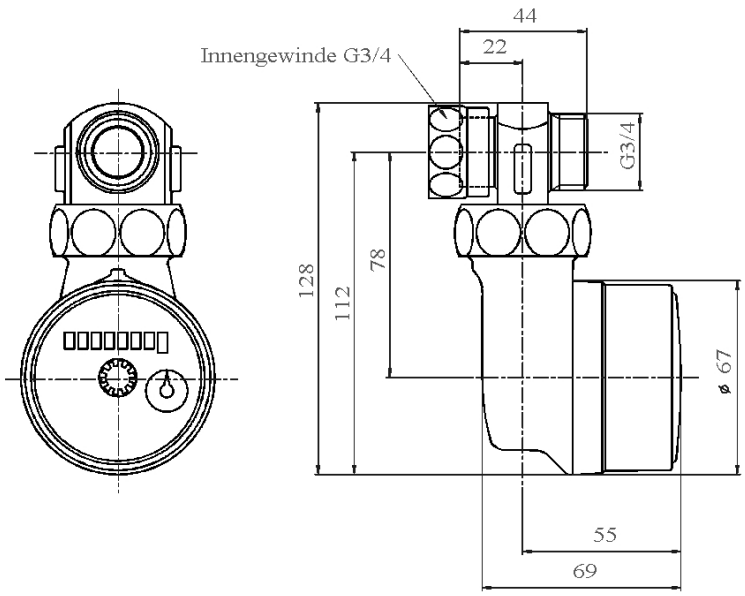
Miscellaneous data

Max.water temperature	
Types WFK...	30°C
Types WFW...	90°C
Weights (mass)	
Bath tub meter with fittings	0.88 kg
Replacement meter	0.52 kg

Schematic diagram



Bath tub meter with connecting part ½“



Bath tub meter with connecting part ¾”

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