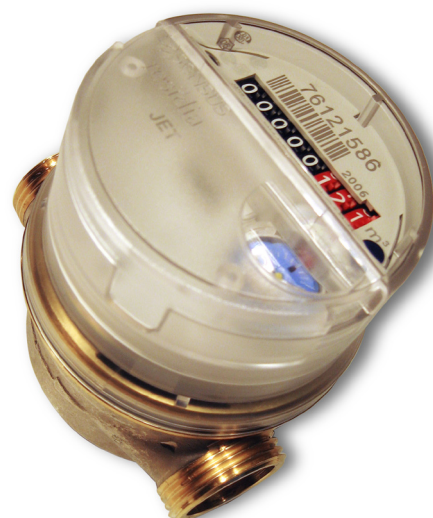


## ► Brunata Sensus single-jet water meter type ETJ for utility water

Single-jet impeller meter used for measuring hot and cold utility water and prepared for communication module.

### Characteristics

- Single-jet utility water meter
- Easy to read mechanical counter (can be rotated 360°)
- Nickel-plated measuring chamber
- Measures cold water up to 30 °C
- Measures hot water up to 90 °C
- Reading in cubic metres with three decimals
- Can be installed either horizontally or vertically (see details on the reverse)
- EU approval class B (horizontal installation)



### Further information

Brunata water meter ETJ is a single-jet impeller meter in a dry-running design with roller counter. To minimise damage caused by impurities or lime in the water, the meter is designed to provide maximum protection of shafts and bearings.

Brunata ETJ is prepared for incorporation of communication module with radio transmitter.

The meter can be installed either horizontally or vertically. The counter should not face downwards, but the meter can be rotated 360° for easier reading.

### Accessories

Fitting pipe: stainless, brass or galvanised

Water meter joining G $\frac{3}{4}$ B x  $\frac{1}{2}$ "

Joining with ball valve G $\frac{3}{4}$ B x  $\frac{1}{2}$ "

Joining with ball valve and dirt filter  $\frac{3}{4}$ " x  $\frac{1}{2}$ "

Non-return valve for filter ball valve

Installation kit for replacement of larger meter

Type	Article no.
<b>Cold-water meter G<math>\frac{3}{4}</math>B x 80 mm, max. 30 °C</b>	
ETJ-K	19-7920-H
<b>Hot-water meter G<math>\frac{3}{4}</math>B x 80 mm, max. 90 °C</b>	
ETJ-V	19-7921-H
<b>Cold-water meter, G<math>\frac{3}{4}</math>B x 110 mm, max. 30 °C</b>	
ETJ-K	19-7922-H
<b>Hot-water meter, G<math>\frac{3}{4}</math>B x 110 mm, max 90 °C</b>	
ETJ-V	19-7923-H

*Brunata is a 100 % Danish owned company. We have more than 85 years of experience within developing and producing heat cost allocators and heating accounts. Brunata als has implemented a quality system in accordance with EN ISO 9001. Please contact us for further information on our products.*

## Technical data

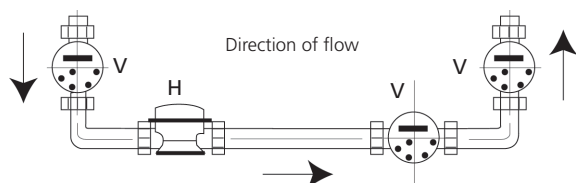
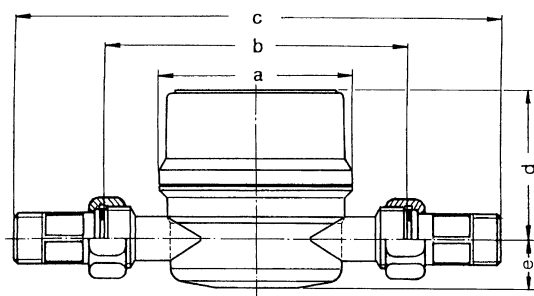
Type				ETJ horizontal installation	ETJ vertical installation
Nominal flow rate		$q_n$	m <sup>3</sup> /h	1.5	1.5
Maximum flow rate	briefly	$q_{max}$	m <sup>3</sup> /h	3.0	3.0
Transition flow rate		$q_t$	l/h	120	150
Minimum flow rate		$q_{min}$	l/h	30	60
Start flow rate for new meter		$q_{start}$	l/h	approx. 8.5	approx. 15
EU accuracy class	Horizontal installation			B	-
	Vertical installation			-	A
Measuring accuracy	Verification limits	$q_{min}-q_t$		± 5 %	
		$q_t-q_{max}$		± 2 %	
Max. temperature	Cold-water meter	Class B		30 °C	
	Hot-water meter	Class B		90 °C	
Pressure class				PN10	
Head loss at $q_{max}$		$\Delta p$	kPa	10	
Approval no.	Cold-water meter	40 °C		D 78 / 6.131.107	
Approval no.	Hot-water meter	90 °C		D 86 / 6.331.78	
Pulse output	Passive reed switch	Litres/pulse		10	

## Dimensions

Type			ETJ		
Nominal connection		mm	15	15	15
	a	mm		70	
Length	b	mm	80	110	130
	c	mm	159	189	209
Height	d	mm		60	
	e	mm		17,5	
Connecting thread	Meter	inches	G $\frac{3}{4}$ B	G $\frac{3}{4}$ B	G $\frac{3}{4}$ B
	Coupling	inches	R $\frac{1}{2}$	R $\frac{1}{2}$	R $\frac{1}{2}$
Installation position			horizontal or vertical		

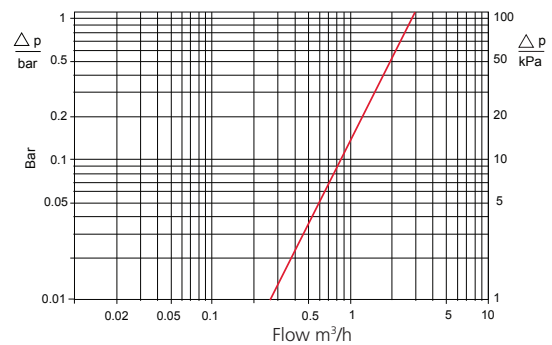
Please note: The meter is supplied without joining, which must be ordered separately.

## Dimensional outline



Correct installation options  
H = Horizontal installation  
V = Vertical Installation

## Head loss graph



Please note that Brunata makes reservations against operation faults due to lime build-up and blocking of the water meter. Brunata recommends installing a filter ball valve before the meter.