

# WATER METERS/ VOLUMETRIC



# JV400

## VOLUMETRIC METER FOR DRINKING WATER

DN15

Q3=2,5 m<sup>3</sup>/h

R800

T50

MAP 16

IoT Ready

Pattern approval according to the most demanding accuracy levels of the OIML-R49;

Starting flow rate 1,0 L/h;

In maximum admissible error (+/- 5%) under 3,0 L/h (R800);

Effective protection against external influences;

Excellent performance in sudden starts.

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## JV400 OFFERS:

- ✓ An extended curve error accuracy. Exactness from flowrates under the minimum standardized up to the maximum flowrate.
- ✓ Materials consciously selected to be resistant to corrosion and hydrolysis.
- ✓ Shock resistant thermoplastic components that can be safely submitted to temperatures up to 50°C.
- ✓ IoT Ready. **JV400** has inductive pulse output that can be equipped with any pulse sensor (ex: Janz JI for direct coupling) or LPWA sensors such as MYWATER.

## OPERATIONAL FEATURES:

**Maximum Admissible Pressure (BAR):** MAP 10 | MAP 16

**Temperature Class (°C):** T30 | T50

**Ratio Q3/Q1:** Up to R800

**Pressure Loss-Class:**  $\Delta P$  63

**Installation Position:** Arbitrary positions

**Flow Profile Sensivity Classes:** U0D0

**Indicating range (m<sup>3</sup>):** 4 to 7 digits depending on the model (see Technical Data Table)

**Resolution of the indicating device (L):** 0,02 or 0,002 depending on the model (see technical Data Table)

**Body:** Brass

**Certification:** UE Examination Certificate TCM 142/10 - 4738 in accordance with directive 2014/32 UE, in conformity with OIML Recommendation R49: 2006 and EN14154: 2005 + A2: 2011.

It complies with the requirements of OIML Recommendation R49: 2013 and ISO 4064-1: 2014.

ACS approval, conformity of materials in contact with water.

**Retention valve incorporated** placed downstream of the metering device



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## TECHNOLOGY:

JV400 was developed to accomplish the highest performance standards. His great design and engineering along with highly detailed raw materials selection criteria guarantees the ideal compromise between sensibility and durability.

» The **Magnetic Coupling** conception reduces the number of mechanic components working into water largely upgrading the reliability of the product. It also ensures an effective protection against external influences.

» The **Hydraulic Chamber** produced with the most advanced materials and the most accurate procedures contains a filter underneath that prevents the entrance of particles in suspension avoiding blockage.

» The **Indicator Device** with no gears inside water it has big rollers with great contrast. To obtain a comfortable reading position a 45° indicator device is available as well a 359° rotation. To prevent water condensation JV400's indicator device is sealed by ultrasounds welding (IP68). For extreme applications an Extra Dry cooper glass can version is also available.

» **Pulse Output:** JV400 is equipped with an inductive pulse output – (1L/pulse). JV400 is an IoT ready water meter.

## TECHNICAL DATA:

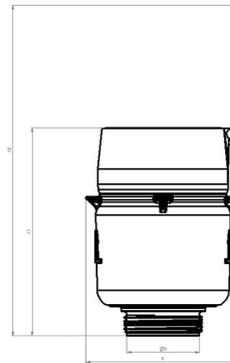
DN		15
Ratio Q3/Q1	(R)	200 - 250 - 315 - 400 - 500 - 630 - 800
Permanent flowrate	Q3 (m <sup>3</sup> /h)	≤ 2,5
Overload flowrate	Q4 (m <sup>3</sup> /h)	Q3 × 1,25
Transitional flowrate	Q2 (dm <sup>3</sup> /h)	Q1 × 1,6
Minimum flowrate	Q1 (dm <sup>3</sup> /h)	Q3 / R
Quadrant Indication	(m <sup>3</sup> )	9999 or 99999
Verification Division	(dm <sup>3</sup> /h)	0,02 or 0,002



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## DIMENSIONS:

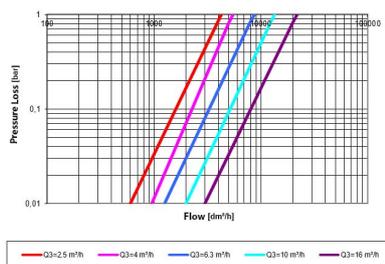
Nominal Diameter	DN		15
Treaded connections	L	(")	1" 1/2 - B
Lenght	K	(mm)	94,5
Height	J1	(mm)	128,5
Height	J2	(mm)	204
Weight		Kg	0,960



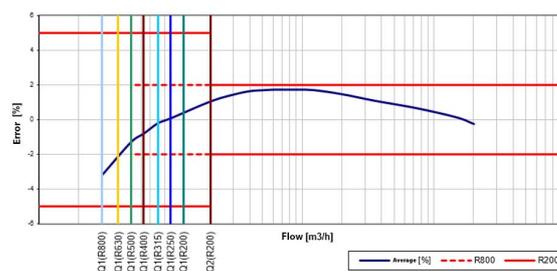
\*Dimension plan please consult our website:  
[www.janz.pt](http://www.janz.pt)



## HEAD LOSS DIAGRAM



## TYPICAL CURVE ERROR



## OPTIONS

### JV400 CAN BE EQUIPPED WITH ADVANCED TECHNOLOGIES:

- » JANZ JI Inductive pulse sensor (or any other similar product).
- » LPWA Telemetry System MyWater (or any other similar product).

### READING RESOLUTION

The indicator device presents a resolution of 0,2 (DN40); 0,02 (DN15 to DN32) or 0,002 optionally (DN15/20).

### EXTRA DRY

For extreme applications including extended submersion a Super Dry cooper-glass can version is available.

### 45° INDICATOR DEVICE

JV400 can be equipped with a 45° indicator device in order to facilitate equipment's reading.\*\*

\*\* In this option, for the DN15 and DN20 the dimensions H2 and H3 are 132mm and 117 mm respectively



### For more information, please contact:

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