

WATER METERS/ VOLUMETRIC



JV400

VOLUMETRIC METER FOR DRINKING WATER

DN15 to DN40

Q3=2,5 m³/h to Q3=16 m³/h

Up to 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.

WATER METERS/ VOLUMETRIC



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*: ΔP 63 Q₃ 2,5 m³/h

Installation Position: Any position

Flow Profile Sensivity Classes: U0/D0

Indicating range (m³): 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

*D15 and D20 also available with ΔP 25 Q₃ 1,6 m³/h



WATER METERS/ VOLUMETRIC



TECHNOLOGY:

JV400 was developed to accomplish the highest performance standards. Its 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 in 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 (alias 360°). 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 or 20	20 or 25	25	32	40
Ratio Q3/Q1*	(R)	200 - 250 - 315 - 400 - 500 - 630 - 800		200 - 250- 315- 400- 500- 630 -800		200 - 250- 315 - 400 - 500
Permanent flowrate	Q3 (m³/h)	≤ 2,5	≤ 4,0	≤ 6,3	≤ 10	≤ 16
Overload flowrate	Q4 (m³/h)	Q3 × 1,25				
Transitional flowrate	Q2 (dm³/h)	Q1 × 1,6				
Minimum flowrate	Q1 (dm³/h)	Q3 / R				
Quadrant Indication	(m³)	9 999 or 99 999		99 999 or 999 999		99 9999 or 999 999
Verification Division	(dm³/h)	0,002 or 0,02		0,02		0,02

*More Ratios available

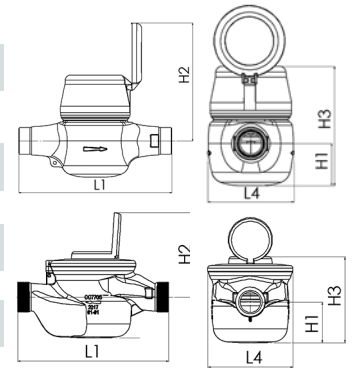


WATER METERS/ VOLUMETRIC



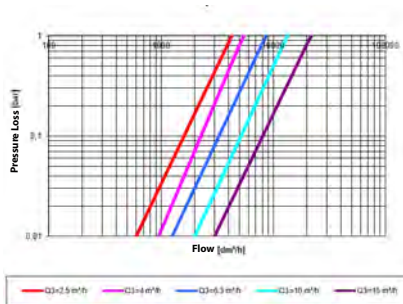
DIMENSIONS:

Nominal Diameter	DN		15 or 20	20 or 25	25	32	40
Treaded connections	R1-R2	(")	G 3/4B, G 7/8B, G1B	G1B - G1 1/4B	G1 1/4 B	G1 1/2 B	G2B
Length	L1	(mm)	110 to 190	110 to 190	198 to 260	260	300
Height	H1	(mm)	38,5	44,5	63	74,5	80,5
Height	H2	(mm)	142	145,5	150	168,5	167
Height	H3	(mm)	116	126	136	165,5	170
Width	L4	(mm)	82	91,5	129	151	173
Weight		Kg	0,850	1,250	3,150	4,500	6,800

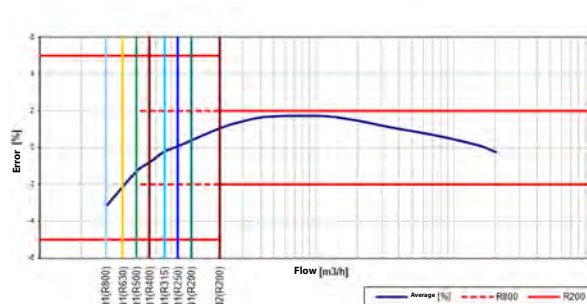


*Dimension plan please consult our website:
www.janz.pt

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:

Av. Infante D. Henrique 288, 1950-421 Lisboa, Portugal
T. (+351) 218 316 000 | geral@janz.pt
WWW.JANZ.PT

