



VJS - PLUS

Single jet water meter with dry mechanism

in accordance with 2014/32/EU Directive

This class of water meters is used to measure the volume of clean water with temperature up to 50°C and pressure up to 16 bar

Description and use

VJS - PLUS Single jet water meters are manufactured in accordance with 2014/32/EU Directive, metrological accuracy class 2. These water meters are characterized by dry dial mechanism hermetically separated from the water flow chamber.

Water meters of this type are designed for measuring the volume of clean water with temperature up to 50°C and pressure up to 16 bar.

For VJS - PLUS water meters, generally called single jet vane-wheel water meter with dry mechanism, the vane-wheel rotation is transmitted via magnetic coupling to a dial mechanism which is completely protected against water and moisture effects.

There is also a 6-spoke star wheel on the dial which can be used for quick testing. The dial pointer of 0,1 l can contain a metal plate used for generating pulses in the electronic device for remote reading. VJS – PLUS type of water meters can have pulse encoder for remote reading as well as components for the installation of AMR device and inductive pointer for AMR reading.

Water meter housings, covers and connections are made of copper alloys while the mechanisms are made of high quality plastic materials.

VJS – PLUS water meters can be installed to operate in both horizontal and vertical position.

MECHANISM CHARACTERISTICS

VJS – PLUS water meters consist of a brass housing with threaded or flanged connections, inner strainer and adjusting screw, rubber gasket, vane-wheel plastic casing with multiple inlets and outlets. The axle is made of stainless steel with a plastic tip, rotating vane-wheel with agate bearing and magnetic ring.

INSTALLATION AND USE

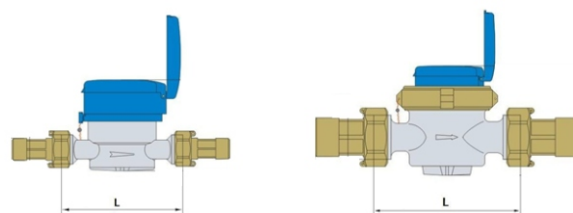
- Before installing the water meter, it is necessary to rinse the water supply network.
- The direction of the arrow on the meter must match the direction of water flow.
- The meter should be positioned with the dial horizontally upwards.
- It is advisable to install the strainer upstream the water meter.
- Make sure that the water meter is protected from freezing and heating of the water meter with an open flame is not allowed.

TECHNICAL CHARACTERISTICS

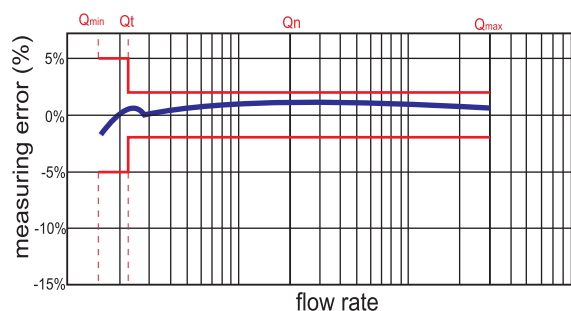
Nominal diameter (DN)	15	20	25
R	≤ 200 for horizontal position ≤ 50 for vertical position		
Q_4	$\leq 3,13$	$\leq 5,00$	$\leq 7,88$
Q_3	$\leq 2,50$	$\leq 4,00$	$\leq 6,30$
Q_2	$\geq 0,0500$	$\geq 0,0800$	$\geq 0,126$
Q_1	$\geq 0,0313$	$\geq 0,0500$	$\geq 0,0788$
Dial range	m^3 99 999		
Temperature classes	T30		
Water pressure classes	MAP16		
Pressure loss class	$\Delta P < 63$		

DIMENSIONS

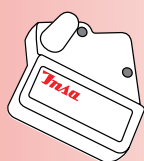
Nominal diameter (DN)	15	20	25
Maximum length L(mm)	80-115	130	160
Type of connection – thread size	G3/4B ili G1B	G1B	G1/4B ili G1 1/2B



TYPICAL MEASURING ERROR CURVE



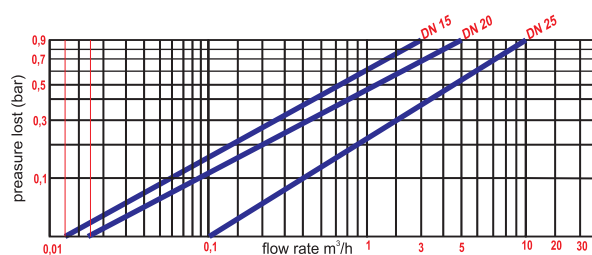
REMOTE READING SYSTEM



ADO OPTIONS

VJS-PLUS water meters can be upgraded for remote reading. The upgrade consists of replacing the deciliter pointer with a pulse indicating device and replacing the existing glass cover with the glass cover prepared for the remote reading on which there are two specified spots for mounting of ADO device.

TYPICAL PRESSURE LOSS CURVE



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