

WST water meter

Arad (No longer available)



The WST water meter (predecessor of the WST Bayonet and successor to the WT-II) operates according to the Woltman principle and thanks to its design is extremely reliable with limited susceptibility to wear caused by contaminated water. The paddle wheel is the only moving part that comes into contact with water.

APPLICATION

Water supply networks, agricultural and industrial applications

CHARACTERISTICS

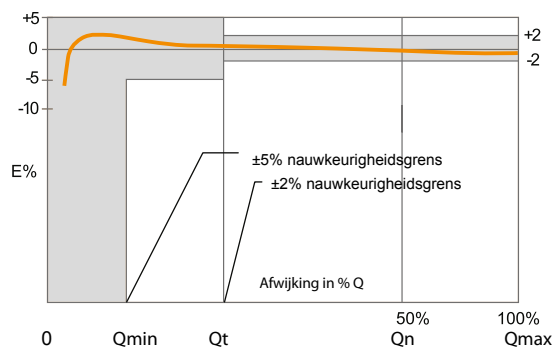
- ✓ Wide measuring range for various applications
- ✓ No susceptibility to vibrations
- ✓ Resistant to humidity
- ✓ Easy to open for the replacement of parts
- ✓ Unique measuring system with magnetic transmission
- ✓ Register output by means of (magnetic) Reed contact (EV) or photo-diode pointer (EF-P)

TECHNICAL DATA

Accuracy	: +/- 2% between Q_t and Q_{max}
	: +/- 5% between Q_{min} and Q_t
Connection	: 2" - 12" (50 mm - 300 mm) - flange connection
Maximum pressure	: 16 bar (MS40 16 bar)
Maximum capacity	: 120 - 2000 m ³ /h
Maximum temperature	: 60°C
Head loss	: see chart
Material	: durably coated cast iron / brass
Certification	: MID, ISO 4064 (2005), EEC

Performance and measuring accuracy

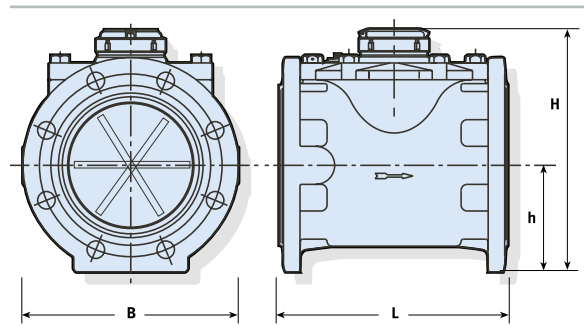
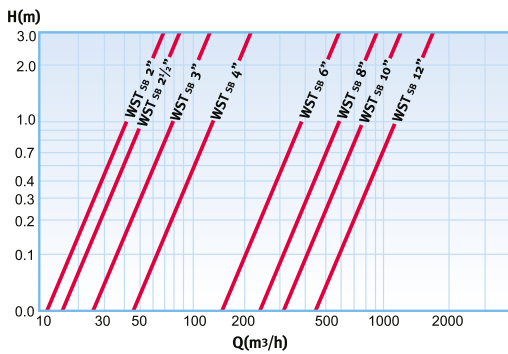
Nominal passage	mm inch	DN50 2"	DN65 2 1/2"	DN80 3"	DN100 4"	DN150 6"	DN200 8"	DN250 10"	DN300 12"
Minimum capacity Q_{min}	m ³ /h	0,63	0,63	1	1,6	2,5	12,6	20	20
Transitional capacity Q_t	m ³ /h	1,01	1,01	1,6	2,56	4	20,16	32	32
Nominal capacity Q_n	m ³ /h	63	63	100	160	250	630	1000	1000
Maximum capacity Q_{max}	m ³ /h	78,75	78,75	125	200	312,5	787,5	1250	1250



Technical drawing and dimensions

Nominal passage	mm inch	DN50 2"	DN65 2 1/2"	DN80 3"	DN100 4"	DN150 6"	DN200 8"	DN250 10"	DN300 12"
L - Length	mm	200	200	230	250	300	350	450	500
B - Width	mm	165	185	200	220	283	340	406	489
H - Height	mm	214	228	234	250	310	338	438	465
h - Height	mm	70	84	90	106	130	158	258	330
Weight	kg	12,5	15	15,5	19	35,5	41	80	95

Head loss (bar)



Register output

Diameter		Type of register output and units of measure					
		1 pulse / ... litre			1 pulse / ... m³		
		1	10	100	1	10	100
2	WST50	EF-P	EV	EV	EV		
2 1/2"	WST65	EF-P	EV	EV	EV		
3"	WST80	EF-P	EV	EV	EV		
4"	WST100		EF-P	EV	EV	EV	
6"	WST150		EF-P	EV	EV	EV	
8"	WST200			EF-P	EV	EV	EV
10"	WST250			EF-P	EV	EV	EV
12"	WST300			EF-P	EV	EV	EV

EV = reed switch EF-P= photodiode pointer

* Is also available in EV version, but with a maximum capacity of 100 m³/h to ensure a correct signal.

INSTALLATION & MAINTENANCE

Installation

- ✓ Read the enclosed operating instructions and installation instructions before installation.
- ✓ The water meter can be installed both horizontally and vertically (flow from bottom to top).
- ✓ For optimum measuring, a length of straight pipe should be installed upstream and downstream of the meter with 5x and 2x the pipe diameter respectively (2"-6").
- ✓ The water meter should be free from air bubbles and must be completely filled with water at all times.
- ✓ The installation dimensions of the WST (Bayonet) are the same as for the WT and WT-II water meter, but the height may differ.