

WSTsb WOLTMAN

Woltman Silver Turbo Model WSTsb (Bayonet) - Water Meter



The Woltman Silver Turbo - WSTsb implements advanced methods and technologies in order to present a top of the line product. New with Bayonet configuration.

- Applications**
Water supply networks, agricultural applications and industrial use
- Available Sizes**
2" - 12" (50mm - 300mm)
- Standards**
MID 2004/22/EC (based on OIML R49 EN 14154 and ISO 4064:2005), WRAS, AWQC

Features:

The Woltman Silver Turbo (WSTsb) offers the following:

- The WSTsb has wide measuring rate that enables to serve in broader applications and in extreme situations (low flows an high flows)
- No sensitivity to working conditions like vibrations
- No sensitivity to humidity conditions (even if dry chamber is full of water)
- The worm assy is in a separate kit, which enable easy replacement if necessary
- Resistance - Bearings and materials used in the WSTsb have been proved to ensure long life expectancy
- Magnetic Coupling - The WSTsb, like its predecessor, the Woltman Turbo meter - has a unique measuring unit, in which only one moving element in contact with water, and has repelling magnets installed in the impeller and the transmitting gear, instead of the attracting magnets installed in the WT
- Compatibility - The WSTsb is also available with EV, EF, Dialog 3G, Electrical Register (ER), Optical Encoder etc.



Technical Specifications

Maximum Working Pressure	Standard - 16 bar Upon request - 25 bar
Maximum Liquid Temperature	60°C
Body	Cast iron, polyester coated, Optional - bronze (AWWA std.)
Connection	Flanges according to ISO, BS 10, ANSI 150 or others
Register	IP68



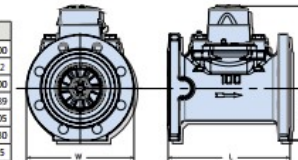
WSTsb type dial

Woltman Silver Turbo Model WSTsb (Bayonet) - Water Meter



Dimensions

Model	WSTsb									
	Nominal size		50	65	80	100	150	200	250	300
	(mm)		2	2 1/2	3	4	6	8	10	12
	(inch)		2	2 1/2	3	4	6	8	10	12
L - Length (mm)			200	200	230	250	300	350	450	500
W - Width (mm)			165	185	200	220	283	340	406	489
H - Height (mm)			239	254	259	275	344	377	463	505
h - Height (mm)			70	84	90	106	130	158	258	330
Weight (kg)			12,5	15	15,5	19	35,5	41	80	95

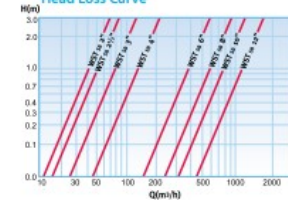


Metrological Characteristics according to MID 2004/22/EC (based on OIML R49 EN 14154 and ISO 4064:2005)

Model WSTsb	Q4 Maximum Flowrate (m³/h)	Q3 Nominal Flowrate (m³/h)	Q2 Transitional Flowrate (m³/h)	Q1 Minimum Flowrate (m³/h)	Starting Flow (m³/h)	Maximum register capacity (m³)	R Value	Smallest readable unit (liter)	*Accuracy between Q4 & Q2*	*Accuracy between Q2 & Q1*
Nominal size (mm) (inch)										
50	2	78,75	63	1,01	0,63	0,15	10*	100	0,5	
65	2 1/2	78,75	63	1,01	0,63	0,15	10*	100	0,5	
80	3	125	100	1,6	1	0,25	10*	100	0,5	
100	4	200	160	2,56	1,6	0,3	10 ³ /10 ⁶	100	5	±2%
150	6	312,5	250	4	2,5	0,8	10 ³ /10 ⁶	100	5	±5%
200	8	787,5	630	20,16	12,6	2	10 ⁶	50	50	
250	10	1250	1000	32	20	3	10 ⁶	50	50	
300	12	1250	1000	32	20	4	10 ⁶	50	50	

* R=160 available upon request. Please contact our sales department.

Head Loss Curve



Installation Requirements

- The water meter may be installed in any position. For non-horizontal positions the flow shall be upwards.
- The meter shall be full of water while operating.
- Prior to installation of a meter, the pipeline shall be thoroughly flushed.
- Requirements for straight pipe section: US/ D3.

WSTsb (Bayonet) May17 MAXIMARK

IRT Tangential meter

Agriculture

Model IRT

Water Meter



Special design with free water passage allows measurement of water with high contents of impurities.

- **Applications**
Irrigation and sewerage metering
- **Available Sizes**
3" - 10" (80mm - 250mm)

Features:

- Negligible head loss
- Simple maintenance
- Field replaceable measuring unit
- Hermetically sealed register with glass lens
- Bearings are constantly flushed during operation to eliminate deposit of solids
- Optional electrical output: EV (Volume) or EF (Rate of Flow)
- Compatible with Dialog automatic reading system



Technical Specifications

Maximum Working Pressure	16 bar
Maximum Liquid Temperature	60°C
Body	Cast iron, polyester coated
Connection	Flanges according to ISO, BS 10, ANSI 150 or others



IRT type dial

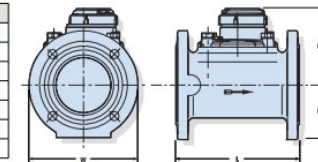
Model IRT

Water Meter



Dimensions

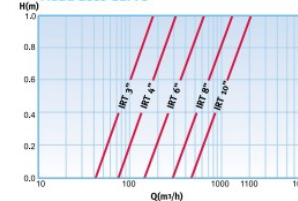
Model		80	100	150	200	250
Nominal size	(mm)	80	100	150	200	250
	(inch)	3	4	6	8	10
L - Length without couplings (mm)		230	250	300	350	400
W - Width (mm)		240	260	310	315	438
H - Height (mm)		90	110	129	160	258
h - Height (mm)		16.5	19	32	45	55.5
Weight (kg)		15.5	19	35	47	75



Performance data:

Model IRT	Qmax Maximum flowrate (m ³ /h)	Qn Nominal Flowrate (m ³ /h)	Qt Transitional Flowrate (m ³ /h)	Qmin Minimum Flowrate (m ³ /h)	Maximum register capacity (m ³)	Smallest readable unit (liter)	Accuracy between Qmax & Qt	Accuracy between Qt & Qmin
80 3	150	90	10	5	10 ⁷	10	±2%	±5%
100 4	250	125	11	7	10 ⁷	10		
150 6	500	250	15	10	10 ⁷	10		
200 8	900	450	30	18	10 ⁷	10		
250 10	1400	750	70	20	10 ⁸	100		

Head Loss Curve



Installation Requirements

- The meter can be installed in any position (horizontal, vertical or inclined)
- The meter must be always full of water while operating
- Prior to the installation of a new meter, the pipeline must be flushed out
- Straight pipe section of the same diameter D as the meter, having length of 10D and 5D shall be installed upstream and downstream of the meter respectively

Agriculture

IRF-Jul.16 MAX-MARK