



Woltman Silver Turbo - Water Meter

Model WST SB

The new Woltman Silver Turbo – WST is the latest state of the art meter developed by ARAD's R&D department.

Advanced methods and technologies were implemented in order to present a product much superior to those found in the market today.

• Features:

In addition to the features offered by Arad's traditional Woltman Turbine meter, the Woltman Silver Turbo (WST) offers the following:

- Accuracy The WST's accuracy curve is the widest known in the market: The minimum flow rate is 35%-58% below the ISO standard for such meters and the maximum flow rate is 150%-233% above it. The combination of these unique features allows the use of the WST in broader applications and in extreme situations. High accuracy at very low flow rate assures minimize losses of unmeasured water (R-160)
- Wide measuring rate possible to measure very high flow rate
- 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
- · Easy assembly process
- Resistance Bearings and materials used in the WST have been proved to ensure durability far beyond the ISO Standard requirement. This feature ensures that the meter can function in extreme conditions where other meters fail to maintain a sufficient level of accuracy.

Longer life expectancy than similar meters in the market

- Magnetic Coupling The WST, like its predecessor, the
 Woltman Turbo meter has a unique measuring unit, in which
 only one moving element, the impeller, is in contact with
 the water. The other moving components, including the worm
 & transmission gear, are kept sealed inside a dry compartment
 and have no contact with any of the abrasive elements
 present in the water.
- WST has repelling magnets installed in the impeller and the transmitting gear, instead of the attracting magnets installed in the WT
- Compatibility The WST is also available with EV, EF, Dialog 2G, Dialog 3G, MPE, DPE etc. The WST's measuring unit can be installed in any of the existing Arad WT models.

Applications

Water supply networks, agricultural applications and industrial use.

National Street Available Sizes

2" - 8" (50mm - 200mm)

Standards

ISO 4064, AWWA, EEC

New Methods 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, AWWA or others.



WST type dial



► Woltman meters

- WST SB

Irrigation & Agriculture Compound meters

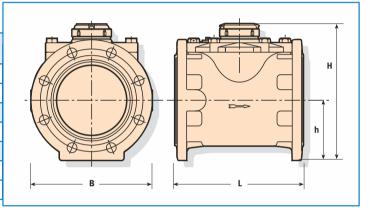
Tectrical Output

New Performance data:

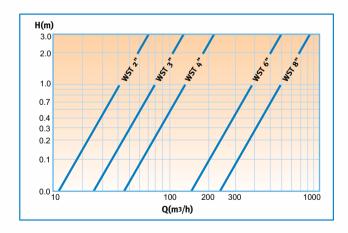
Model WST SB Nominal Size		Qmax Maximum flowrate	Qn ISO 4064 (m³/h)	Qn Nominal Flowrate	Qt Transitional Flowrate	Qmin Minimum Flowrate	Starting Flow (m³/h)	Maximum register capacity	Smallest readable unit	Accuracy between Qmax & Qt	Accuracy between Qt & Qmin
mm	inch	(m³/h)		(m ³ /h)	(m ³ /h)	(m ³ /h)		(m³)	(liter)		
50	2	100	15	50	0.7	0.3	0.15	10 ⁶	1		
80	3	170	40	120	0.8	0.5	0.25	10 ⁶	1		
100	4	300	60	230	1.8	0.8	0.3	10 ⁷ /10 ⁶	1/10	2%	5%
150	6	410	150	260	3.5	2.5	0.8	10 ⁷ /10 ⁶	1/10		
200	8	730	250	450	15	5	2	10 ⁸	100		

Dimensions

Model	WST SB						
Nominal size (mm)		50	80	100	150	200	
	(inch)	2	3	4	6	8	
L - Length (m	200	230	250	300	350		
B – Width (mr	165	200	200	283	340		
H - Height (m	214	234	250	310	338		
h - Height (m	70	90	106	130	158		
Weight (kg)	12	15.5	19	35	47		



Mead Loss Curve



Note: 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.
- Straight pipe section of the same diameter D as the meter, having length of 5D and 2D shall be installed upstream and downstream of the meter respectively.

