Woltman Silver Turbo - Water Meter

Model WST SB

The new Woltman Silver Turbo – WST SB 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 SB) offers the following:

- The WST SB has wide measuring rate that enables to serve in broaden applications and in extreme situations (low flows and 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 enables easy replacement if necessary
- Resistance – Bearings and materials used in the WST SB have been proved to ensure long life expectancy
- Magnetic Coupling – The WST SB, like its predecessor, the Woltman Turbo meter - has a unique measuring unit, with only one moving element. Repelling magnets are installed in the impeller and the transmitting gear.
- The implementation of oil can and sliding bearing (SB) enables the WST SB to have a better durability
- Compatibility – The WST SB is also available with EV, EF, Dialog 2G, Dialog 3G, MPE, DPE etc.

Applications

Water supply networks, agricultural applications and industrial use

Available Sizes

2" - 12" (50mm - 300mm)

Standards

ISO 4064, ANSI 150, EEC

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, BS10, ANSI 150 or others.

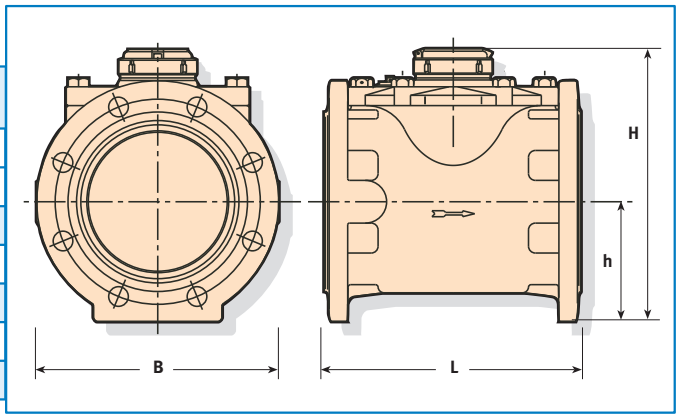
WST SB type dial

Performance data:

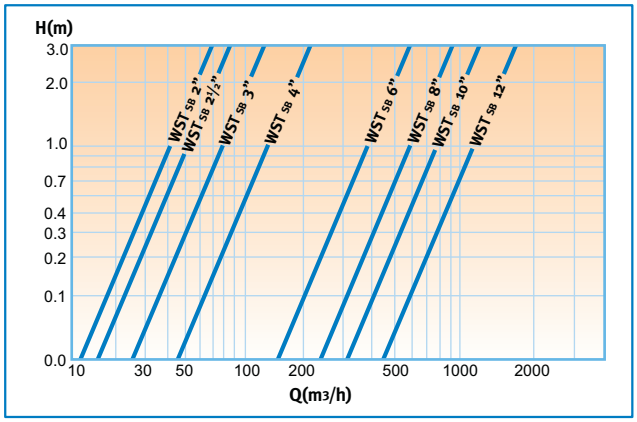
Model WST SB		Qmax Maximum flowrate (m³/h)	Qn ISO 4064 (m³/h)	Qn Nominal Flowrate (m³/h)	Qt Transitional Flowrate (m³/h)	Qmin Minimum Flowrate (m³/h)	Starting Flow (m³/h)	Maximum register capacity (m³)	Smallest readable unit (liter)	Accuracy between Qmax & Qt	Accuracy between Qt & Qmin
Nominal Size											
mm	inch										
50	2	100	15	50	0.7	0.3	0.15	10^6	1	±2%	±5%
65	2 1/2	120	25	80	0.8	0.35	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		
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		
250	10	1400	400	750	15	6	3	10^8	100		
300	12	2000	600	1000	40	10	4	10^8	100		

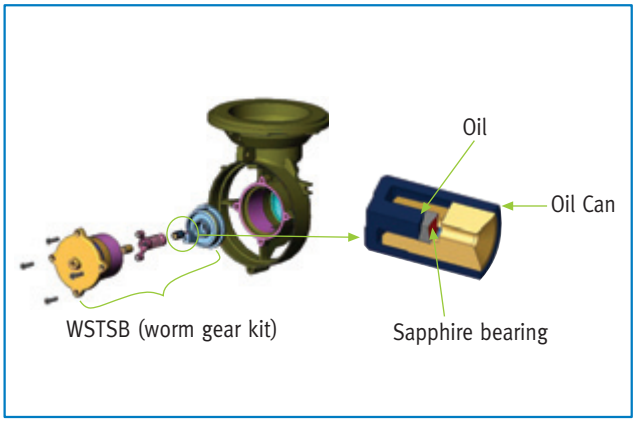
Dimensions

Model		WST SB							
Nominal size	(mm)	50	65	80	100	150	200	250	300
	(inch)	2	2 1/2	3	4	6	8	10	12
L – Length (mm)		200	200	230	250	300	350	450	500
B – Width (mm)		165	185	200	200	283	340	406	460
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	13	15.5	19	35	47	75	95



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.
- Straight pipe section of the same diameter D as the meter, having length of 5D and 2D for 2"-6" and 10D and 5D for 8"-12" shall be installed upstream and downstream of the meter respectively.