



Turbine Water Meter (Hot / Cold Liquid)

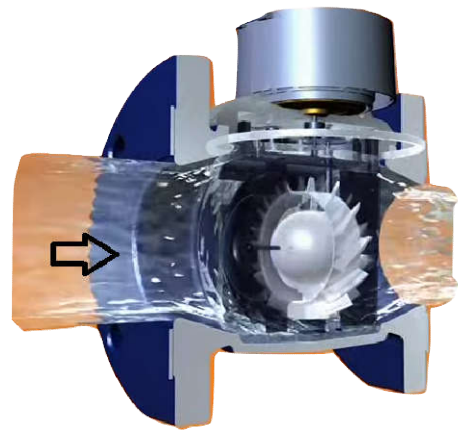
Turbine Water Meter

Measuring Principle

Turbine meters measure the velocity of the water flowing through with the help of a turbine. The volume is mechanically calculated, through the known section area and indicated with the roller counters in cubic meters. The unique form of the “paddle wheels” enables the Turbine meters to cover a very large measuring range with especially low head loss. They also reliably start measuring with small water quantities.

In the horizontal axis turbine meters, the turbine shaft is arranged parallel to the axis of the pipeline. The rotation of the turbine is transmitted through a worm gear to the dry dial counter.

A very robust construction, little head loss. Inlet and outlet bearings are specially designed to withstand natural hydraulic thrust. It prolongs the life of the moving parts and end result is long term accuracy of water meter. Transmission of propeller rotation is protected and direct magnetic drive ensures register is sealed from water.



Features:

- Dry-dial , magnetic drive
- Vacuum sealed register ensures the dial kept from condensation and keeps the reading clear.
- Resists water hammer and pollution
- Measuring the volume of cold or hot water passing through the pipeline

Benefits

- Large flow capacity , small pressure lose
- High quality material for steady & reliable characteristics
- Removable element structure ,easy installation & maintenance
- Meet or exceed ISO 4064 class B-H
- Pulse emitter can be install (optional)

Application

- Water purification and desalination
- Water distribution networks
- ETP Plant
- Industry
- Wastewater systems
- Sewage treatment plants

Specification

Nominal Diameter	DN50 ~ DN600 (2" ~ 24")
Medium Temperature	0°C ~ 50°C / 0°C ~ 90°C
Register	Dry Dial
Measuring Principle	Woltman Irrigation Meters
Units on Display	M3
Water Pressure	≤1.0Mpa (1.6Mpa on request)
Maximum Permissible Errors	in the lower zone : $Q1 \leq Q \leq Q2$ is $\pm 5\%$ in the upper zone : $Q2 \leq Q \leq Q4$ is $\pm 2\%$

Technical Date

Size		Class Of Measurement		Commonly Used Flow	Min Reading	Max Reading
MM/DN	Inch	Q3/Q1	Q2/Q1	(Q3)m3/h		m3
DN50	2"	R50,R63	1.6,2.5	25	0.001	9,999,999
DN65	2.1/2"			40	0.001	9,999,999
DN80	3"			63	0.001	9,999,999
DN100	4"			100	0.001	9,999,999
DN125	5"			160	0.01	99,999,999
DN150	6"	R80, R100	4,6.3	250	0.01	99,999,999
DN200	8"			400	0.01	99,999,999
DN250	10"			630	0.01	99,999,999
DN300	12"			1000	0.01	99,999,999
DN350	14"			1400	0.1	999,999,999
DN400	16"	R50	6.3	1600	0.1	999,999,999
DN500	20"			2500	0.1	999,999,999
DN600	24"			4000	0.1	999,999,999

Size		Length	Width	Height	Connecting Flange			Weight
MM	Inch	mm			Outside Diameter	Bolt Circle Diameter	Connecting Bolts	Gross
DN50	2"	200	185	250	165	125	4-M16	13.5
DN65	2.1/2"	200	185	250	185	145	4-M16	14.5
DN80	3"	225	200	255	200	160	8-M16	14.8
DN100	4"	250	215	265	220	180	8-M16	17.5
DN125	5"	250	250	290	250	210	8-M16	20.5
DN150	6"	300	285	310	280	240	8-M20	26.5
DN200	8"	350	340	350	340	295	8-M20	39
DN250	10"	400	400	430	395	350	12-M20	70
DN300	12"	450	450	460	445	400	12-M20	93
DN350	14"	500	590	750	505	460	16-M20	140
DN400	16"	600	631	750	565	515	16-M24	212
DN500	20"	800	740	840	670	620	20-M20	335
DN600	24"	500	780	900	840	770	20-M27	500

