

# Accuflow<sup>TM</sup>

Water Meter Flanged ends  
Size : 50mm to 300mm



## Woltmann water meter for water distribution applications.

"Accuflow" is a Woltmann type water meter with flanged ends designed for accurate measurement of bulk flows of cold potable water for revenue billing and management information system in Commercial or Industrial application and Distribution network.

Available in Sizes 50mm to 300mm for flow rates between 0.35 m<sup>3</sup>/h and 1200 m<sup>3</sup>/h., operates at temperatures upto 45° C (optional 90° C) and a maximum working pressure of 16 bar. The meter complies with ISO 4064 Class 'B' specification.

The metrological performances of *Accuflow* far exceed ISO Class B standards. Significant endurance capacities are ensuring accurate and reliable metering in a variety of applications, such as water distribution networks, bulk billing, process control, etc.

### Working Principle

- ◆ The flowing water velocity is rotating the horizontal axis propeller of meter. Special shape of its outlet bearing is counter acting the natural hydraulic thrust applied on the propeller then preventing any downstream pivot wear.
- ◆ The Propeller rotation is transmitted to the register by a protected gear transmission and direct magnetic coupling.
- ◆ The sealed mineral glass register is safeguarding the integrity of the indicator in the toughest environments (flooded pits, mechanical tampering attempts etc.)

**Variants and Options :** Wire sealed metallic cap equipped with a lockable lid is available as an option for harsh environments.  
Hot water upto 90°C version available on request.

**Warranty :** All the meters are warranted against any manufacturing defect for a period of twelve months, subject to adherence to installation conditions and meter seal should be intact and not tampered with.

### Metrological Performance and Dimensions.

SIZE of Meter - mm		50	65	80	100	150	200	250	300
Qs/Qmax	Max. Peak flow, ± 2% m <sup>3</sup> /hr	30	50	80	120	300	500	800	1200
Qp/Qn.	Nominal flow, ± 2% m <sup>3</sup> /hr	15	25	40	60	150	250	400	600
Qt.	Transitional flow, ± 2% m <sup>3</sup> /hr	3	5	8	12	30	50	80	120
Qmin	Minimum flow, ± 5% m <sup>3</sup> /hr	0.45	0.75	1.20	1.80	4.50	7.50	12.00	18.00
Overall Length mm		200	200	200	250	300	350	450	500
O.D. Of Flange mm		165	185	200	220	285	340	395	445
Flange Thickness mm		19	19	21	22	23	24.5	26	27.5
Dia of Bolt Circle (PCD) mm		125	145	160	180	240	295	350	400
Dia Of Holes mm		19	19	19	19	23	23	23	23
No. Of Bolts		4	4	4	8	8	8	12	12
Weight Kg (Approx.)		11.4	12.6	14.1	19.5	34	55	75	175

(Note: 1 m<sup>3</sup>/hr = 1000 ltr / h)

### manikant brothers

6, Sarang Street (Nagdevi), 1st Floor, Mumbai - 400 003.  
Phone : 2342 3408 / 2311 2337. Popular Intercom 12337  
Telefax : (91) - 22 2342 6902  
Email: mbrothers99@hotmail.com \* mbrothers@vsnl.com  
Website: manikantwatermeter.com

## Construction

"Accuflow" water meters are manufactured from the highest quality materials for maximum resistance to wear and corrosion. Meter body and cover are epoxy powder coated for protection in all environments, Including flooded installation chambers.

## Ease of Installation, and Maintenance

In addition of the standard lengths, "Accuflow" range is available in various lengths and connections to minimize installation costs. An interchangeable approved measuring mechanism allows easy maintenance without re-calibration.

## Installation Requirements

- ◆ "Accuflow" can be installed regardless of position (ISO approval Class B)
- ◆ Installation of a dirt box (strainer) upstream of the meter is recommended to protect the hydraulics against raw particles and protect the turbine and help reduce the effect of turbulence.

## Salient Features

- ◆ Sealed extra dry totaliser.
- ◆ High flow-rates enduring capacities.
- ◆ Maximum corrosion protection.
- ◆ No effect by external magnetic fields.
- ◆ Measuring mechanism can be removed without interrupting water supply.

  
Accuflow™

Web : [www.accuflow.co.in](http://www.accuflow.co.in)  
[www.accuflowindia.com](http://www.accuflowindia.com)