



## Series CTFI

### Contacting Head Watermeters



- \* **Cost Effective Measurement**
- \* **Sizes from 1/2" to 2" BSP**
- \* **Supplied with BS. Fittings**
- \* **Flow Rates 1.5 to 15 M<sup>3</sup>/Hr**
- \* **Low Pressure Drop**
- \* **Maximum Pressure 16 Bar**

The CTFI Series of contacting head watermeters are brass bodied watermeters intended for the measurement of clean water such as towns supply water flowing into a water softener, evaporative cooling tower or any other piece of process plant requiring the volume of water flowing in it to be accurately measured and totalised.

The method of measurement is by high sensitivity turbine impulse sender which drives the large accurate gear train to provide both a totalisation and digital output.

The totalisation is displayed on a mechanical non resettable counter and the digital output is by voltfree contacts proportional to the flow rate.

The reed switch provides an impulse rate factory selectable from 4 impulses per litre  $K = 0.25$  to 1 impulse per 100 litres  $K = 100$  to be specified when ordering.

The Watermeters are of simple design & construction designed to provide reliable, accurate and dependable measurement and control of many industrial process.

#### Technical Characteristics

Meter Size	Inch mm	1/2" 15	3/4" 20	1" 25	1 1/4" 30	1 1/2" 40	2" 50
Sensitivity	L/Hr.	10	15	20	20	25	50
Instantaneous max flow	M3/Hr.	3	5	7	10	20	30
Flow 1 bar pressure drop	M3/Hr.	3	5	7	10	20	30
Normal flow	M3/Hr.	1.5	2.5	3.5	5	10	15
Min.flow for 5% accuracy	L/Hr.	30	50	70	100	200	450
Min.flow for 2% accuracy	L/Hr.	120	200	280	400	800	3000
Max working pressure	Bar	16	16	16	16	16	16
Min reading	Litres	0.1	0.1	0.1	0.1	0.1	0.1
Max reading	M3	10 <sup>5</sup>	10 <sup>5</sup>	10 <sup>5</sup>	10 <sup>5</sup>	10 <sup>5</sup>	10 <sup>6</sup>
Turbine revs per litre	Revs/L	34.8	22.5	11.7	11.7	4.5	3.16

## Specifications

Body

Head

Turbine

Contacting Head Output

Temperature

### Other Versions

CTCI

CTFIT

CTCIT

CATFI

## Watermeters

Cast brass case and head  
except 2" model which has cast iron case & head

Cast in clear epoxy resin.

Non hydroscopic and antimagnetic.

Reed switch rated at 5 VA.

Up to 30°C

Which maybe supplied to order

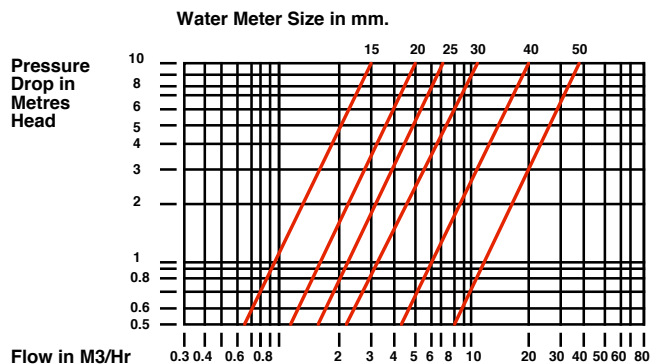
Hot water meter upto 90°C

Cold water meter with PTFE coating

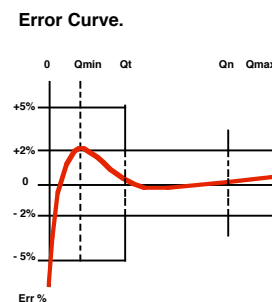
Hot water meter with PTFE coating

Cold water meter dry dial.

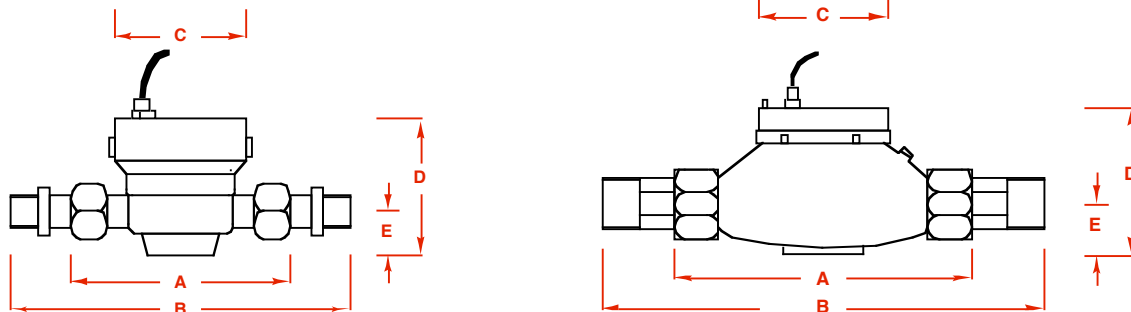
## Pressure Drop



## Error Curve



## Dimensions



## Dimensions

Meter Size	Inch	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
	mm.	15	20	25	30	40	50
Length less fitting	A mm.	110	130	160	160	200	300
Length with fitting	B mm.	190	228	260	280	340	-
Width	C mm.	80	80	100	100	110	108
Height	D mm.	110	110	132	132	137	130.5
Pipe height	E mm.	24	24	34	34	42	50.5
Weight with fittings	Kg.	0.85	1.10	1.75	2.00	3.46	5.00

# AWE

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