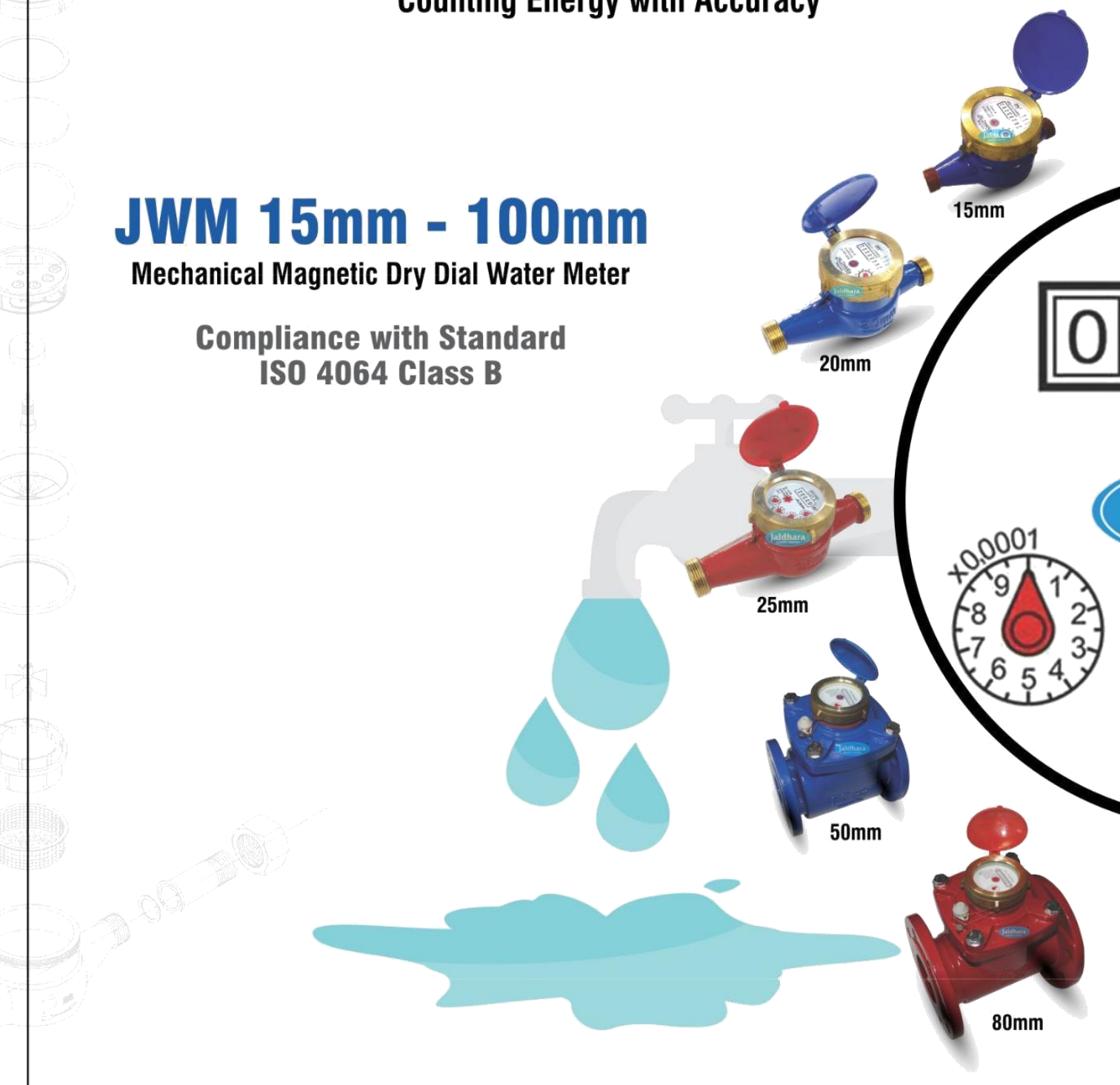
Jaldhara®
water meter

Counting Energy with Accuracy

# JWM 15mm - 100mm

## Mechanical Magnetic Dry Dial Water Meter

**Compliance with Standard**
**ISO 4064 Class B**




This range of water meter is used to measure the total quantity of cold & hot water which consumed in household or a resident unit and industrial unit, passing through the pipeline.

**JWM 100mm - 500mm dial available upon special request ***

## About Us :

Cerca International, Providing the Various sourcing solution (Domestic and Overseas) of the Industrial Products for the manufacturer and the end users. **Jaldhara** Water Meter is one of them, Quality Water Meter can be possible through only high quality machineries along with the quality mechanism. Water Meter and internal Parts of the water meter is not possible without properly selected, tested and source through our technical and skilled workforce across the globe. Kindly contact us for more details of our products or drop and email on jaldhara.watermeter@gmail.com

## Values :

Company's working environment is very free oriented which help to maintain relationship with technical workforce with integrity. Our better service to our valued customers resulted in expansion of our business. Our Business growth has no limit due to our better service and technology.

## The Vision :

The Quality is source through skilled personnel in the various country. Our selection of the quality on the basis of design, Manufacturing process and workmanship always in Greater performance to put smile on the face of the user. We provide service to satisfy the requirements and the expectation of our valued customers.

## RAW MATERIAL OR CASTING OUTWORD

The raw materials used in casting of bodies of water meters and their components are tested for their physical and chemical properties, before use by qualified personnel, in a well-equipped laboratory.

## MACHINING

The meter bodies and their parts are machined with contemporary lathes, capstan and automatic machines via suitable instruments viz. thread gauges, templets, micrometers and gauges for thread dimension.

## PLASTIC COMPONENTS

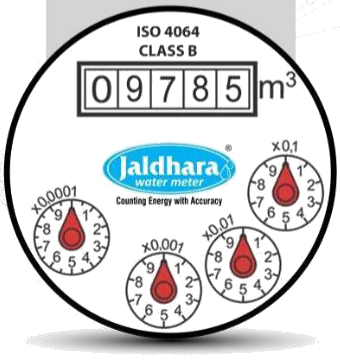
All plastic components used in our water meter are made of superior quality plastic granules and are produced on state-of-the-Art automatic plastic injection moulding machines, which enhance their life and quality.

## ASSEMBLY

Assembling of gears, roller drums, pinion and other plastic components for internal mechanism are carried out by well-trained personnel.

## TESTING

There are separate benches for metering accuracy of sizes 15, 20, 25, 40 and 50 mm water meters with Rotameter, quick action valves and pressure gauges. All meters are tested individually or in series as desired by the customer.



# CAST IRON THREAD END MULTI JET COLD WATER METER

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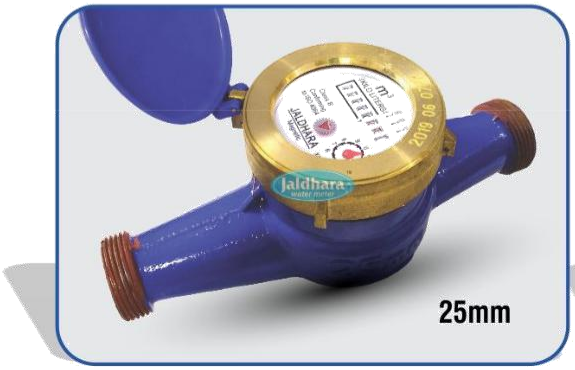
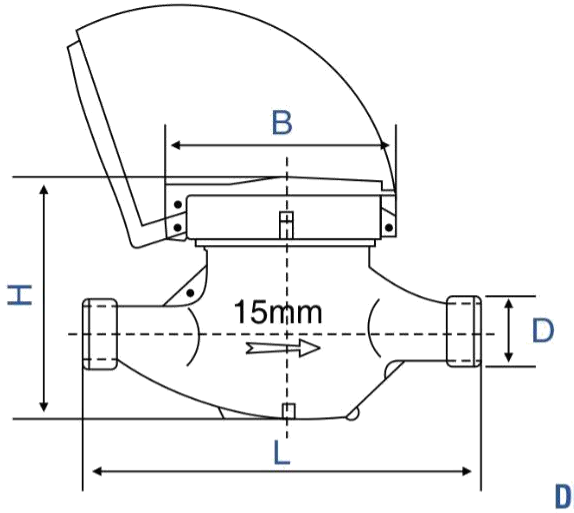







## Working condition

Water temperature : ⩽45°C
Working pressure : ⩽1Mpa
Maximum Pressure : 16 bar

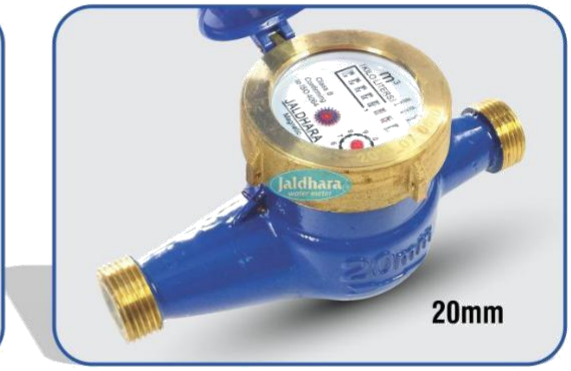
## DIMENSIONS AND WEIGHT

| Meter size Dia DN (mm) | L Length | B Width | H Height | Connecting Thread D | Weight Kg. |
|---|---|---|---|---|---|
| | mm | | | | |
| 15 | 165/190 | 99 | 104 | G ¾B | 1.5/1.6 |
| 20 | 190/195 | 99 | 106 | G 1B | 1.7 |
| 25 | 260/225 | 104 | 120 | G1 ¼B | 2.6/2.4 |
| 32 | 260/230 | 104 | 120 | G1 ½B | 2.8/2.7 |
| 40 | 300/245 | 125 | 155 | G 2B | 5.4/4.5 |
| 50 | 300 | 125 | 155 | G2 ½B | 7.2 |
| | 280 | 165 | 175 | Flange connecting Conform to GB4216.4 D=165 D1=125 | 14 |

Jaldhara water meter

Counting Energy with Accuracy

# BRASS THREAD END MULTI JET COLD WATER METER

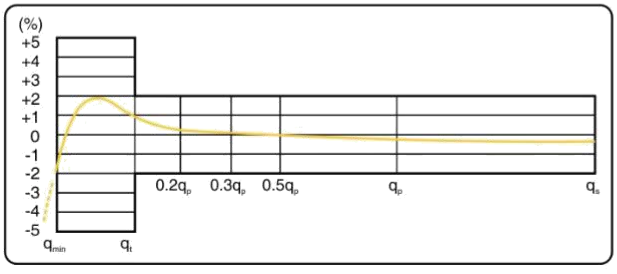



## Indicating Error

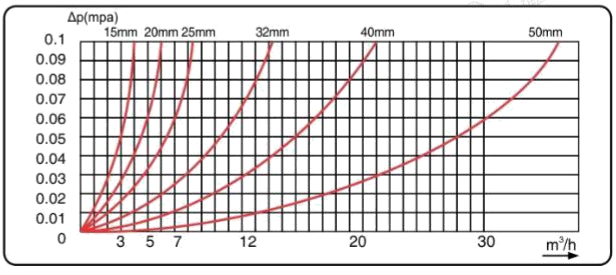
At low zone is ± 5% from minimum flow rate ($q_{mini}$) to transitional flow rate ($q_t$) exclusive boundary At high zone is ± 2% from transitional flow rate ($q_t$) to Overload flow rate ($q_s$) to

| Meter size Dia DN (mm) | Class | qs Overload Flow | qs Nominal Flow | qs Transitional Flow | Qmin Min Flow | Min Reading Lectura | Max. Reading Lectura |
|---|---|---|---|---|---|---|---|
| | | $m^3/h$ | | 1/h | | $m^3$ | |
| 15 | B | 3 | 1.5 | 120 | 30 | 0.0001 | 99999 |
| 20 | B | 5 | 2.5 | 200 | 50 | 0.0001 | 99999 |
| 25 | B | 7 | 3.5 | 280 | 70 | 0.0001 | 99999 |
| 32 | B | 12 | 6.0 | 480 | 120 | 0.0001 | 99999 |
| 40 | B | 20 | 10 | 800 | 200 | 0.001 | 99999 |
| 50 | B | 30 | 15 | 3000 | 450 | 0.001 | 99999 |

## FLOW-ERROR CURVE




## HEAD LOSS CURVE



# BRASS THREAD END MULTI JET HOT WATER METER

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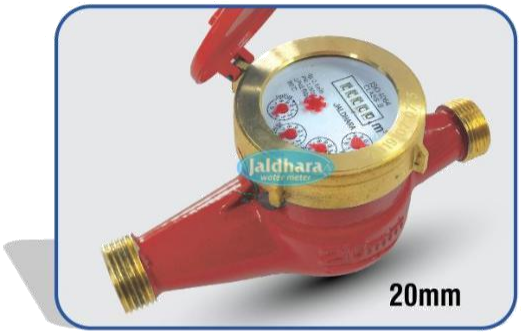



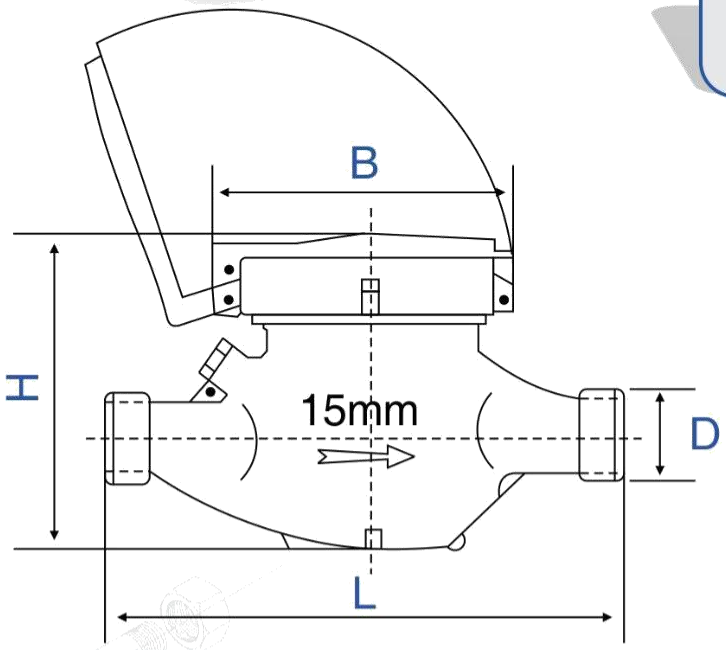


Nipple

Nut

Rubber Gasket

Where
L=Length,
B=Width,
H=Height &
D=Threaded Connection

## Product Features

(1) Dry Dial, Magnetic Drive, Resistance to exterior magnet interference.
(2) Multi Jet
(3) Mechanism Material:- ABS Material.
(4) Body Material:- CI, Brass
(5) Measuring Accuracy Conform to ISO 4064 Class B Standard.
(6) Universal Use. Easy for Interchange & Maintenance.

## Working condition

Water temperature : ⩽90 $^{0}$C
Working pressure : ⩽1Mpa

This range of water meter is used to measure the total quantity of cold & hot water which consumed in household or a resident unit and industrial unit, passing through the pipeline.

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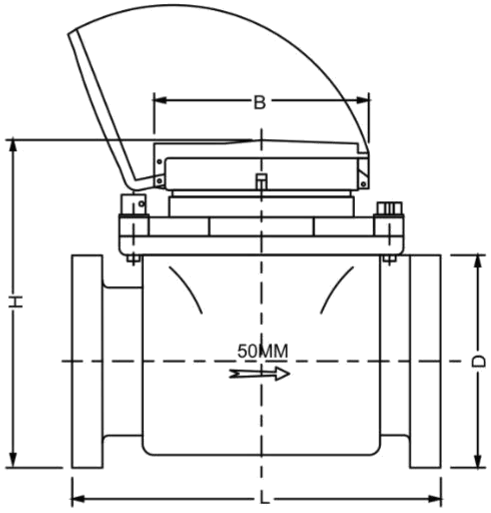
# CAST IRON WOLTMAN FLANGE END COLD WATER METER

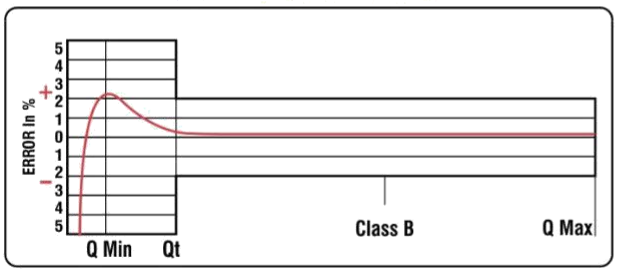




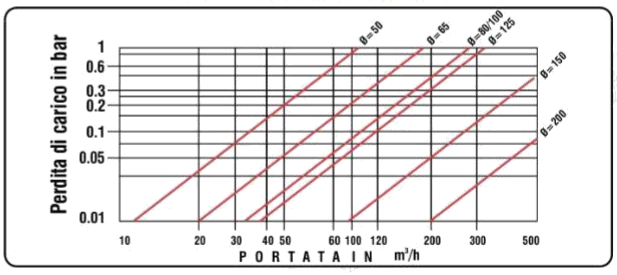
## Dimensions and Weight

| Meter size | Length L | Width 5 | Height H | Connecting Thread | | | Weight |
|---|---|---|---|---|---|---|---|
| (mm) | (mm) | | | D | Bolt Circle Dia D1 | Connecting Bolt Dia | KG |
| 50 | 200 | 175 | 250 | 165 | 125 | 4 x M16 | 12 |
| 65 | 200 | 185 | 255 | 185 | 145 | 4 x M16 | 13 |
| 80 | 225 | 200 | 265 | 200 | 160 | 8 x M16 | 15 |
| 100 | 250 | 220 | 275 | 220 | 180 | 8 x M16 | 19 |
| 125 | 250 | 245 | 285 | 245 | 210 | 8 x M16 | 22 |
| 150 | 300 | 285 | 375 | 285 | 240 | 8 x M20 | 47 |
| 200 | 350 | 345 | 400 | 340 | 295 | 8 x M20 | 48 |

### TYPICAL-ERROR CURVE




### LOSS OF HEAD DIAGRAM




## Indicating Error

At low zone is ±5% from minimum flow rate (qmin) to transitional flow rate (qt) exclusive boundary.
At high zone is ±2% from transitional flow rate (qt) to overload flow rate (qs) exclusive boundary.

# CAST IRON WOLTMAN FLANGE END HOT WATER METER

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80mm

50mm

100mm

## Main Technical Data

| Meter size (mm) | Measuring Class | Overload Flow | Nominal Flow | Transitional Flow | Min Flow | Starting Flow | Min Reading Lectura | Max. Reading Lectura |
|---|---|---|---|---|---|---|---|---|
| | | $m^3/h$ | | | | 1/h | $m^3$ | |
| 50 | B | 30 | 15 | 3 | 0.45 | 150 | 0.01 | 9999999 |
| 65 | B | 50 | 25 | 5 | 0.75 | 170 | 0.01 | 9999999 |
| 80 | B | 80 | 40 | 8 | 1.2 | 280 | 0.01 | 9999999 |
| 100 | B | 120 | 60 | 12 | 1.8 | 400 | 0.01 | 9999999 |
| 125 | B | 200 | 100 | 20 | 3 | 800 | 0.01 | 9999999 |
| 150 | B | 300 | 150 | 30 | 4.5 | 1200 | 0.01 | 9999999 |
| 200 | B | 500 | 250 | 50 | 7.5 | 2250 | 0.01 | 9999999 |

### Working condition

Water temperature of cold water meter: $\leq 45^0C$
Water temperature of hot water meter: $\leq 90^0C$
Working pressure: $\leq 10$ bar
Maximum Pressure = 16 bar

### Description

This range of water meter is used to measure the total quantity of cold & hot water which consumed in household or a resident unit and industrial unit, passing through the pipeline.

## Product information

### Feature:

1. Dry-dial,Magnetic drive
2. Vacuum sealed register ensures the dial kept free from fog and keep the reading clear in a long term service
3. Selected high quality materials for steady & reliable characteristic
4. Measuring accuracy conform to ISO 4064 class B Standard
5. Low head loss
6. Register for universal use within this range detachable without removing the meter from the pipeline for a easy maintenance and replacement
7. Material: Cast iron body

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## How to read the Meter Readings :

1. X 0.0001 = Take a 0.1 Lit Reading.
2. X 0.001 = Take a 1 Lit Reading.
3. X 0.01 = Take a 10 Lit Reading.
4. X 0.1 = Take a 100 Lit Reading.

### Type = 1


In this meter current reading as a,

| 0 | 0 | 0 | 0 | 0 | 3 | 8 | 6 |
|---|---|---|---|---|---|---|---|

| Kilo Liter (m3) | X0.1 | X0.01 | X0.001 |
|---|---|---|---|

So, Total Liter = 386 Liter
1 Unit = 1000 Liter
1m3 = 1000 Liter

As per above Reading, you can write as, **0.386 Unit**

### Type = 2


In this meter current reading as a,

| 0 | 0 | 0 | 0 | 1 | 7 | 4 | 2 |
|---|---|---|---|---|---|---|---|

| Kilo Liter (m3) | 100 L | 10 L | 1 L |
|---|---|---|---|

So, Total Liter = 1742 Liter
1 Unit = 1000 Liter
1m3 = 1000 Liter

As per above Reading, you can write as, **1.742 Unit**

### Type = 3


In this meter current reading as a,

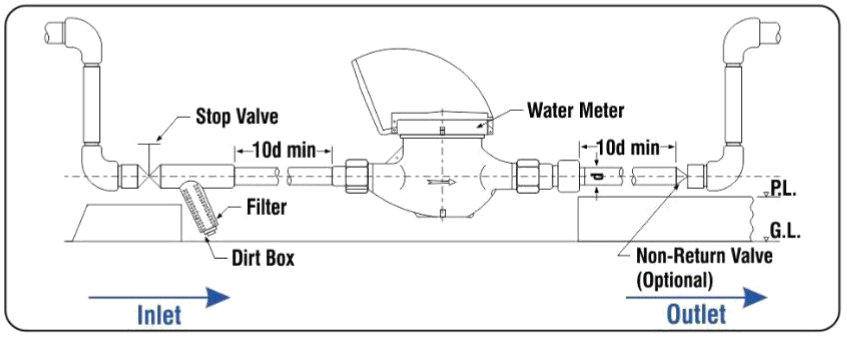
| 0 | 0 | 0 | 1 | 5 | 8 | 1 | 1 |
|---|---|---|---|---|---|---|---|

| Kilo Liter (m3) | X 100 L | X 10 L | X 1 L |
|---|---|---|---|

So, Total Liter = 15811 Liter
1 Unit = 1000 Liter
1m3 = 1000 Liter

As per above Reading, you can write as, **15.811 Unit**

## Installation Instructions




## Applications

- Domestic Use
- Residential Apartments
- Commercial Buildings
- Agriculture Field
- Chemical Industries
- Textile Industries
- Automobile Industries
- Pharmaceutical Company

so, on all type of industries.

- The meter should be handled with care so as to avoid jerk or fall which can damage its performance.
- The meter should be installed in horizontal pipeline in upright position with the help of spirit level keeping proper distance as mentioned in the length of the meter.
- To ensure continuous presence of water, the level of water should be below the communication pipeline of inlet and outlet side. This will help avoid the damage and over run of the meter in case of Intermittent water supply and sudden hammer of water (refer figure).
- The lid should be kept closed for protection and is to be opened only while taking reading.
- For a better life of water meter, it should be installed in a horizontal position.

**Jaldhara Water Meter**