

**Residential Use**

# DS TRP WATER METER



**IS  
779:1994**

**LICENCE  
MADDALENA**

## **Sealed register permanently protected dial multi-jet meter**

DS TRP is the latest range of sealed register permanently protected dry dial multi-jets by ADM designed to meet the strict requirements of the Directive IS 779:1994. DS TRP combines high performance at low flow rates and maximum resistance to high flow rates and pressure.

DS TRP is designed for remote communication: it may be equipped with a pulser of the latest generation and a radio module maintaining the mechanical and metrological characteristics and without affecting readability.

DS TRP is guaranteed by ADM under the licence of MADDALENA (Italy): manufacturer of high quality measuring instruments for the past century.



**ADM METERS LLP**  
IMPECCABLE TECHNOLOGY

# DS TRP WATER METER

## DS TRP multi-jet water meters feature a sealed register and permanently protected dial design.

The plate showing the measurement and the IS 779:1994 inscriptions does not come into contact with the flowing water. As a result it remains perfectly clear ensuring reading with scaling and ferrous water and suspended particles contained in water. Readability is also ensured by the mineral tempered glass lens which has a flat and smooth surface and, unlike plastic lenses, is scratch resistant and does not turn opaque.

DS TRP meters are unaffected by external magnetic interference and are tamper proof. Performance is unaffected by the installation conditions and the water characteristics.

DS TRP water meters may be equipped with a new generation bidirectional static pulser. The pulser may also be retrofitted in **pre-equipped water meters** maintaining the meter characteristics, the design and **the mineral glass lens**.

## NEW VERSION

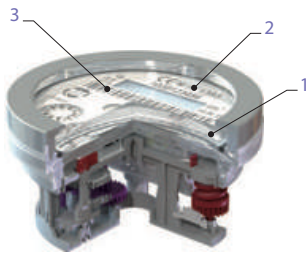
DS TRP meters are now available in a new version ready for retrofitting an inductive pulser. They are the only sealed register meters available in this design and that retain the glass lens. This has been made possible by the introduction of a new glass (**GORILLA GLASS**), widely used in electronic devices, that enables the use of a fully non-magnetic sensor (patent pending).

DS TRP water meters are certified in accordance with the Directive IS 779:1994.

DS TRP water meters are also certified for use with potable water in accordance with IS 779:1994.

## Technical Specifications

- **Tempered mineral glass** lens of adequate thickness **(1)**  
The inductive design features a high-performance glass lens
- **The numbered drums, the cubic meter fractions, the inscriptions and the serial number are in the sealed register and do not come into contact with water ensuring continued readability (2)**
- Pre-equipped meters maintain both the mineral glass lens and the standard inscriptions
- **The serial number is marked on the dial both in digits and in barcode form. It is also marked on the closing ring (3)**
- No upstream or downstream straight pipe requirements
- Installation in vertical pipes available on DN 13 and DN 20 meters (see relevant data sheet)
- R50 meters for vertical installation are also available
- PiiP certification mark available upon request on Q<sub>3</sub> 2.5 water meters
- Internal and external epoxy powder coating
- Stainless steel numbered drums' shaft
- Inlet strainer with wide straining area
- Non-return valve available upon request
- Internal components made of anhygroscopic, anti-scaling and wear resistant plastic materials
- Maximum water temperature: 50 °C; 90 °C version available on request (not approved)
- Nominal working pressure: 16 bar

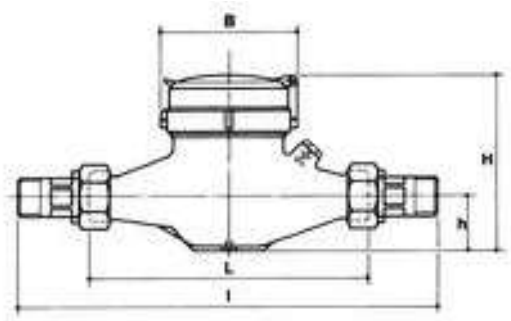


HYDRAULIC PERFORMANCE

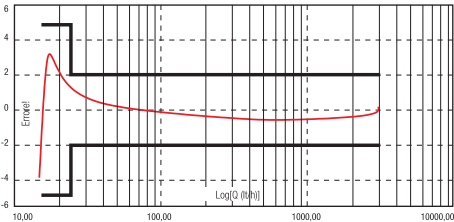
|                                                     |         |                                                |         |         |         |           |                                  |
|-----------------------------------------------------|---------|------------------------------------------------|---------|---------|---------|-----------|----------------------------------|
| Size                                                | mm      | 15                                             | 20      | 25      | 30      | 40        | 50                               |
|                                                     | in      | ½"                                             | ¾"      | 1"      | 1¼"     | 1. ½"     | 2"                               |
| Performance in accordance with IS 779:1994, class B |         |                                                |         |         |         |           |                                  |
| Q <sub>min</sub>                                    | l/h     | 30                                             | 50      | 70      | 100     | 200       | 450                              |
| Q <sub>t</sub>                                      | l/h     | 120                                            | 200     | 280     | 400     | 800       | 3000                             |
| Q <sub>n</sub>                                      | m³/h    | 1.5                                            | 2.5     | 3.5     | 5       | 10        | 15                               |
| Q <sub>max</sub>                                    | m³/h    | 3                                              | 5       | 7       | 10      | 20        | 30                               |
| Real performance                                    |         |                                                |         |         |         |           |                                  |
| Q <sub>min</sub>                                    | l/h     | 25                                             | 25      | 50      | 50      | 100       | 450                              |
| Q <sub>t</sub>                                      | l/h     | 37.5                                           | 37.5    | 75      | 75      | 150       | 3000                             |
| Q <sub>n</sub>                                      | m³/h    | 1.5                                            | 2.5     | 3.5     | 5       | 10        | 15                               |
| Q <sub>max</sub>                                    | m³/h    | 3                                              | 5       | 7       | 10      | 20        | 30                               |
| Starting flow rate                                  | l/h     | 8-10                                           | 8-10    | 20-22   | 23-25   | 25-30     | 30-35                            |
| Head of loss at Q <sub>max</sub>                    | bar     | 0.6                                            | 0.8     | 0.5     | 0.95    | 0.85      | 0.9                              |
| Head of loss at Q <sub>n</sub>                      | bar     | 0.15                                           | 0.2     | 0.13    | 0.25    | 0.22      | 0.23                             |
| Nominal pressure                                    | bar     | 16                                             | 16      | 16      | 16      | 16        | 16                               |
| Maximum reading                                     | m³      | 100,000                                        | 100,000 | 100,000 | 100,000 | 1,000,000 | 1,000,000                        |
| Minimum reading                                     | l       | 0.05                                           | 0.05    | 0.05    | 0.05    | 0.05      | 0.05                             |
| Turbine revolutions per litre                       |         | 19.41                                          | 19.41   | 10.04   | 10.04   | 4.40      | 3.16                             |
| Weight                                              | kg      | 1.450                                          | 1.610   | 2.300   | 2.370   | 4.500     | 9.500 threaded<br>14.000 flanged |
| Pulse options                                       | l/pulse | 1-10 (Quadraplus); 1-10-100-1000 (reed switch) |         |         |         |           |                                  |

DIMENSIONS

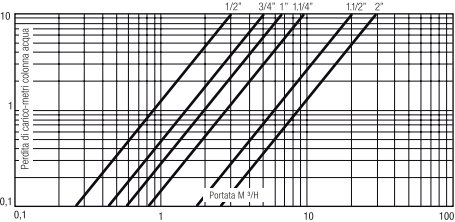
|                           |    |                                   |         |         |         |      |                      |
|---------------------------|----|-----------------------------------|---------|---------|---------|------|----------------------|
| Length (L)                | mm | 110-130<br>145-160-165<br>170-190 | 160-190 | 220-260 | 220-260 | 300  | 300                  |
| Length with couplings (l) | mm | 190-210-225<br>240-245-250        | 258-288 | 378     | 378     | 438  | 461<br>(flanged 300) |
| H                         | mm | 114                               | 114     | 123     | 123     | 163  | 175                  |
| h                         | mm | 36.5                              | 36.5    | 43      | 43      | 64.5 | 77                   |
| B                         | mm | 97.5                              | 97.5    | 97.5    | 97.5    | 130  | 154                  |



Typical error curve



Head loss diagram



# ACCESSORIES



**SINGLE REED SWITCH PULSER**  
Suitable for industrial batching.



**QUADRAPLUS PULSER**  
**Static** bidirectional pulser; equipped with false pulse detection device; battery-powered.



**ARROW RADIO MODULE**  
In combination with the Quadraplus static pulser or the single reed switch pulser it enables the remote reading of water meters.



**NON-RETURN VALVE**  
Mounted in the meter outlet to protect it from backflow.



**COUPLING KIT**  
It includes two nuts, two tail pieces and two gaskets.



**SEALS**  
Designed to secure the water meter to the pipe.

For more information on the accessories please refer to the relevant data sheet.



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For more information, please contact your sales representative.



## Residential Use

# DS ASD WATER METER



### PRODUCT FEATURE:

- Multi-jet, Rotaryvane wheel type.
- Dry-dial, Magnetic drive, Resistance to exterior magnet interface.
- Selected high quality materials for steady, reliable characteristic & good looking.
- Vacuum sealed register ensures the dial kept free from fog and keep the reading clear in a long term service.
- Measuring accuracy conform to ISO 4064 Class B Standard.
- Universal use. Easy for interchange and maintenance.
- Brass body
- Hot water meter, remote reading transmission system and anti-theft device, the pulse constant:  
10 L/Pulse, 100 L/Pulse, 1000 L/Pulse for option.  
(optional at additional cost)



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# DS ASD WATER METER

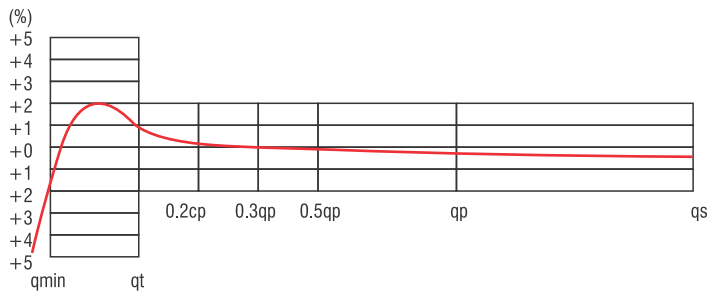
## HYDRAULIC PERFORMANCE

| Size                                                | mm      | 15                                 | 20      | 25      | 32      | 40      | 50                         |
|-----------------------------------------------------|---------|------------------------------------|---------|---------|---------|---------|----------------------------|
|                                                     | in      | 1/2"                               | 3/4"    | 1"      | 1 1/4"  | 1 1/2"  | 2"                         |
| Performance in accordance with IS 779:1994, class B |         |                                    |         |         |         |         |                            |
| Q <sub>min</sub>                                    | l/h     | 30                                 | 50      | 70      | 120     | 200     | 450                        |
| Q <sub>t</sub>                                      | l/h     | 120                                | 200     | 280     | 480     | 800     | 3000                       |
| Q <sub>n</sub>                                      | m³/h    | 1.5                                | 2.5     | 3.5     | 6       | 10      | 15                         |
| Q <sub>max</sub>                                    | m³/h    | 3                                  | 5       | 7       | 12      | 20      | 30                         |
| Starting flow rate                                  | l/h     | 14                                 | 16      | 19      | 25      | 56      | 70                         |
| Maximum reading                                     | m³      | 99999                              | 99999   | 99999   | 99999   | 99999   | 99999                      |
| Minimum reading                                     | m³      | 0.0001                             | 0.0001  | 0.0001  | 0.0001  | 0.0001  | 0.0001                     |
| Weight                                              | kg      | 1.5/1.6                            | 1.7/1.8 | 2.6/2.4 | 2.8/2.7 | 5.4/4.5 | 7.2 threaded<br>14 flanged |
| Pulse options                                       | l/pulse | 10L/Pulse, 100L/Pulse, 1000L/Pulse |         |         |         |         |                            |

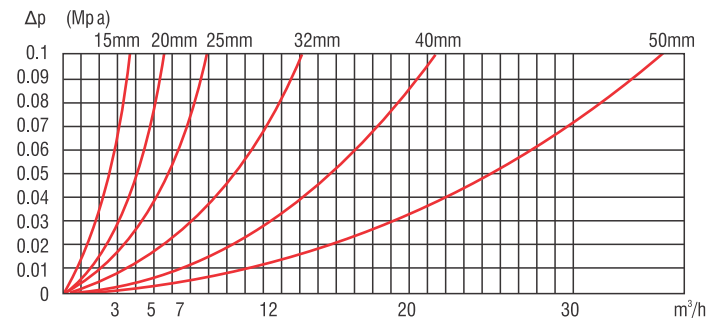
## DIMENSIONS

|                       |    |         |         |         |         |         |                                        |
|-----------------------|----|---------|---------|---------|---------|---------|----------------------------------------|
| Length (L)            | mm | 165/190 | 190/195 | 260/225 | 260/230 | 300/245 | 300<br>280                             |
| Connecting thread (D) |    | G3/4B   | G 1B    | G1-1/4B | G1-1/2B | G 2B    | G2-1/2B<br>G B/17241.2<br>D=165 D1=125 |
| H                     | mm | 104     | 106     | 120     | 120     | 155     | 155<br>175                             |
| B                     | mm | 99      | 99      | 104     | 104     | 104     | 125<br>165                             |

## FLOW ERROR CURVE



## HEAD LOSS CURVE

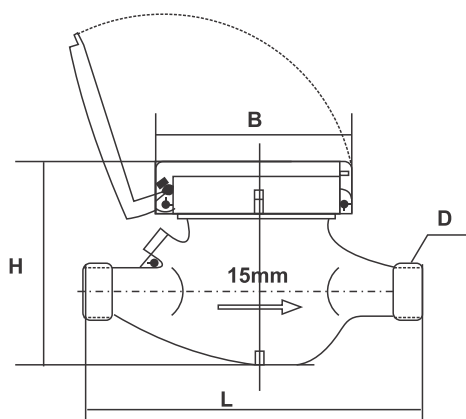


## WORKING CONDITION

Water temperature: 0°C ≤ t ≤ 40°C (For cold water meter)

## MAXIMUM PERMISSIBLE ERROR

- In the lower zone from Q<sub>min</sub> inclusive up to but excluding Q<sub>t</sub> is ± 5%.
- In the upper zone from Q<sub>t</sub> inclusive up to and including Q<sub>s</sub> is ± 2%.



For more information, please contact your sales representative.



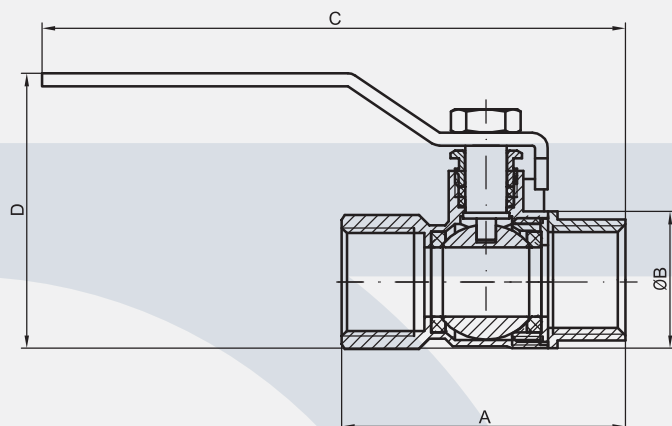


**ADM METERS LLP**

**TWO PIECE QUARTER TURN FORGED  
BRASS BALL VALVE WITH STEEL HANDLE**



## TWO PIECE QUARTER TURN FORGED BRASS BALL VALVE WITH STEEL HANDLE



| SIZE   | UNIT WEIGHT<br>(in grams) | HANDLE WEIGHT<br>(in grams) | Standard Packing<br>qty / ctn |
|--------|---------------------------|-----------------------------|-------------------------------|
| 1/2"   | 165                       | 42                          | 120                           |
| 3/4"   | 224                       | 42                          | 96                            |
| 1"     | 323                       | 52                          | 72                            |
| 1.1/2" | 661                       | 95                          | 36                            |
| 2"     | 1018                      | 125                         | 24                            |

|   |       |      |      |       |      |
|---|-------|------|------|-------|------|
| 5 | 2     | 98.5 | 70   | 192   | 123  |
| 4 | 1.1/2 | 82.5 | 57   | 156   | 103  |
| 3 | 1     | 66   | 40   | 137.5 | 80   |
| 2 | 3/4   | 61   | 34.5 | 126   | 66.5 |
| 1 | 1/2   | 56   | 28   | 123   | 60.5 |
|   | G     | A    | B    | C     | D    |

All dimensions are in MM.

### SALIENT FEATURES :

- Screwed Female Ends to IS 554 / BS 21 / ISO7.
- Two Piece Design, Quarter Turn with steel handle operated.
- For better packing and sealing quality PTFE ring used.
- Chrome finish.

### We Provide Following

- Body – brass • Valve - brass • Stem - brass
- Handle - Iron • Washer - Teflon

## PTFE THREAD SEAL TAPE

### Product Description

"ADM" PTFE thread sealant tape, due to the special nature of the thread seal will be lasting and resistant to high temperatures and corrosive chemicals. The seal will not harden or become brittle but will remain flexible enough when the seal is opened for maintenance. "ADM" PTFE thread sealant tape can be used for various media from corrosive chemicals to water and gas to oil, in hydraulics and pneumatics.

### Instruction

Wind the tape by hand, using a constant minimal tension sufficient for the tape to take up the form of the thread. The tape should be wound in a helical fashion with a 50% overlap in the direction of the thread so that when the connection is completed the finishing end of the tape remains in position. The tape width should not exceed the length of the thread form.



### Specification

Width : 12 mm  
Length : 10 meter  
Thickness : 0.075 mm  
Density : 0.2 g/cm<sup>3</sup>

### Packing size

10 - Pcs / shrink  
250 - Pcs / Small box  
1000 - Pcs / Ctn

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