Residential Use



DS TRP MID WATER METER







Sealed register permanently protected dial multi-jet meter

DS TRP MID is the latest range of sealed register permanently protected dry dial multi-jets by **RBM** designed to meet the strict requirements of the Directive 2004/22/EC on measuring instruments and of European Standard EN 14154. DS TRP MID combines high performance at low flow rates and maximum resistance to high flow rates and pressure. DS TRP MID is designed for remote communication: it may be equipped with a pulse emitter of the latest generation and a radio module maintaining the mechanical and metrological characteristics and without affecting readability.





DS TRP MID WATER METER

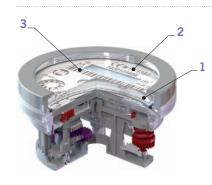
DS TRP MID multi-jet water meters feature a sealed register and permanently protected dial design. The plate showing the measurement and the MID inscriptions does not come into contact with the flowing water. As a result it remains perfectly clear ensuring reading with scaling and ferrous water and suspended 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 MID meters are unaffected by external magnetic interference and are tamper proof. Performance is unaffected by the installation conditions and the water characteristics.

DS TRP MID water meters may be equipped with a new generation bidirectional static pulse emitter.

The pulse emitter may also be retrofitted in **pre-equipped water meters** maintaining the meter characteristics, the design and **the mineral glass lens**.

DS TRP MID water meters are certified in accordance with the Directive 2004/22/EC (Annex MI-001) and have undergone conformity assessment procedure B + D. **The maximum measuring range Q3/Q1 (R) certified is 200** which allows to obtain water meters with lower R values (160, 125, 100, etc.)

DS TRP MID water meters are also certified for use with potable water in accordance with the Italian decree D.M. 6 April 2004 no. 174 and international regulations.



Technical specifications

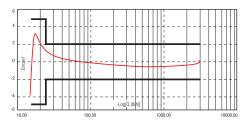
- Tempered mineral glass lens of adequate thickness (1)
- The numbered drums, the cubic meter fractions, the MID inscriptions and the serial number are in the sealed register and do not come into contact with water ensuring continued readability (2)
- The pulse emitter pre-equipped meter maintains both **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)
- PiiP certification mark available upon request on Q3 2.5 water meters (certificate no. 01/325/2003)
- Hydraulic tests are carried out at three flow rates (Q1, Q2, Q3) on 100% of the production. Our testing benches comply with the standards ISO 4064/3 and ISO 4185 (EN 14154/3) and are approved by a European notified body.
- Cast brass body
- Hot forged brass closing ring
- 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
- Nominal working pressure: 16 bar





mm	15	20	25	30	40	50
inches	1/2	3/4	1"	1.1/4	1. ½	2"
			TCM 142/	′08-4604		
0119-SJ-A010-08						
R (Q3 / Q1) ≤ 200						
irective 200	4/22/EC					
m³/h	2.5	4.0	6.3	10.0	16.0	25.0
m³/h	3.13	5.0	7.9	12.5	20.0	31.0
I/h	15.6	25	39.4	62.5	100	156.2
l/h	25	40	63	100	160	250
I/h	25	40	63	100	160	250
l/h	40	64	100.8	160	256	400
			+/-	5%		
			17	070		
			+/- 2% with water to	emperature < 30 °C	<u> </u>	
· —						
U0 - D0						
I/h	4-5	7-9	16-18	22-24	28-30	28-30
bar	ΔΡ 63					
bar	16	16	16	16	16	16
m³	100,000	100.000	100.000	100.000	100.000.000	1,000,000
I	0.05	0,05	0,05	0,05	0,05	0.05
	25.31	19,41	11,22	8,14	4,4	3.16
kg	1.450 (L=145mm)	1,610 (L=190mm)	2,300	2,400	4,500	9.500 Threaded design 14.000 Flanged design
V/pulse 1-10 (Quadraplus); 1-10-100-1000 (Reed)						
mm	105(V)-110-130	160-190	220-260	220-260	300	300
	145-160-165					
	170-190					
mm	205(V)-210-225	258-288	338-378	338-378	438	461
	240-245-250					(Flanged design 300)
mm	114	114	123	123	163	175
mm	36.5	36.5	43	43	64.5	77
	irective 200 m³/h m³/h l/h l/h l/h l/h l/h sar bar m³ l kg l/pulse mm	inches	inches	Inches 1/2 3/4 1" TCM 142/2 O119-SJ-R (Q3 / Q Q Q Q Q Q Q Q Q Q	inches	inches ½ ¾ 1" 1.½ 1.½ TCM 142/08-4604 0119-SJ-A010-08 R (03 / Q1) ≤ 200 irective 2004/22/EC m³/ħ 2.5 4.0 6.3 10.0 16.0 M³/ħ 3.13 5.0 7.9 12.5 20.0 I/ħ 15.6 25 39.4 62.5 100 I/ħ 25 40 63 100 160 I/ħ 40 64 100.8 160 256 I/ħ 40 64 100.8 160 20 20 22 28-30

Typical error curve



Head loss diagram

