

WATER METERS



MFSM-L WATER METER



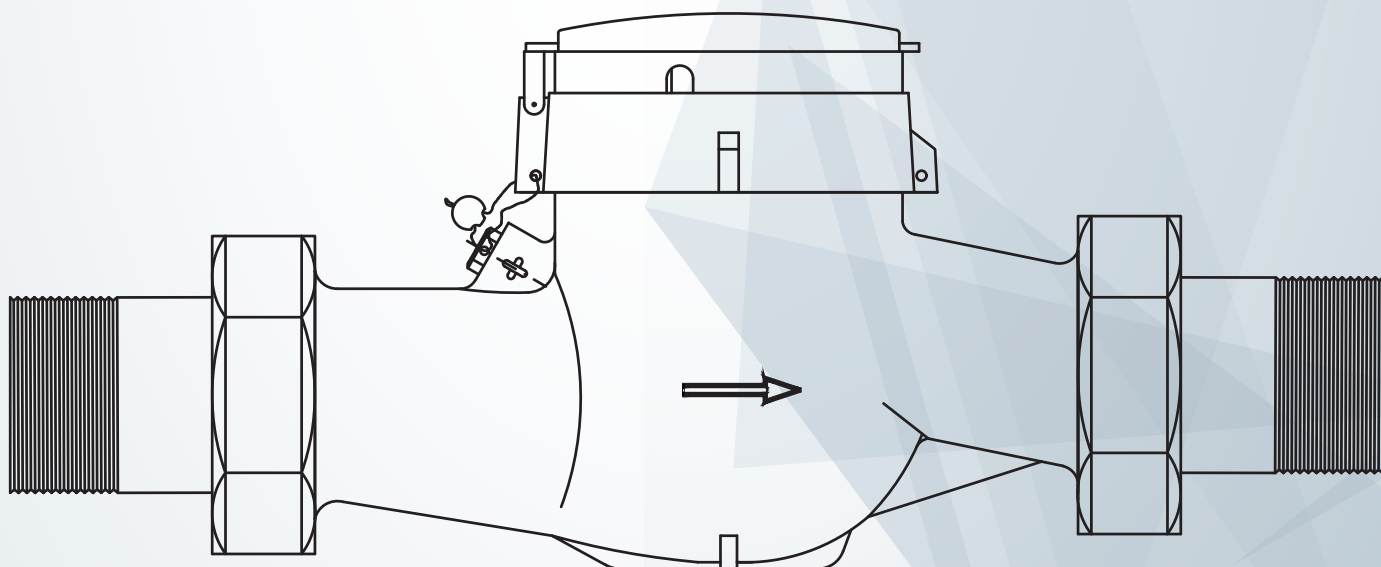
Hydrodynamic design

Multi-jet technology ensures uniform distribution of load on the turbine located thanks to the water inlet diffuser. The movement activates the magnetic transmission that will give the final reading of the volume.



High protection

Hidroconta MFSM-L watermeters are designed to avoid external manipulation by magnetic fields. They have a special shield that covers the dial and prevents any possible fraud.





Potable water MID Homologation

Thanks to the homologation acquired, the low maintenance needs and the reduced pressure losses this product is suitable for totalizing water for domestic use.



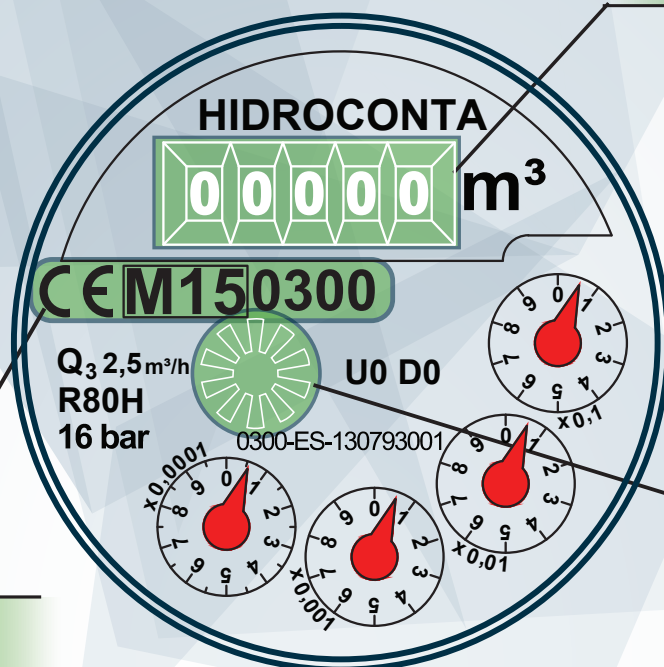
Pre-equipped

The MFSM-L dial has a pre-installation that allows to place a pulse emitter, without having to stop the counter, this will give information of the reading.



Dial

5 lining figures dial.



MID Approval for use domestic water.

Rotary starwheel for leak detection.



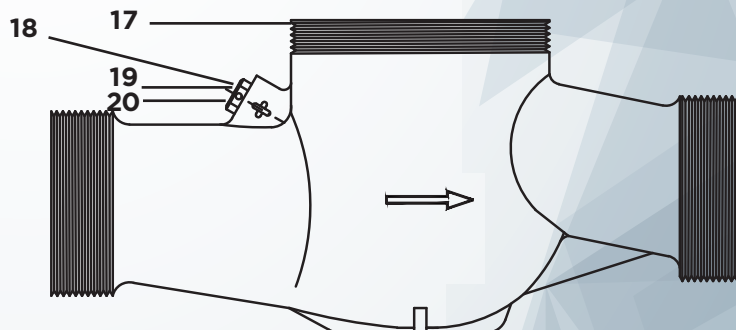
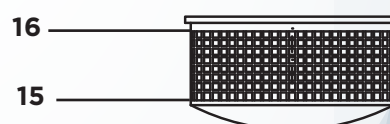
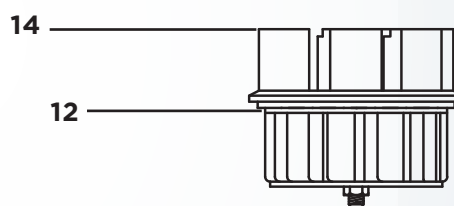
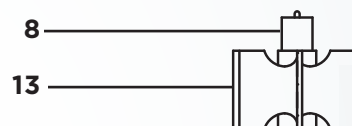
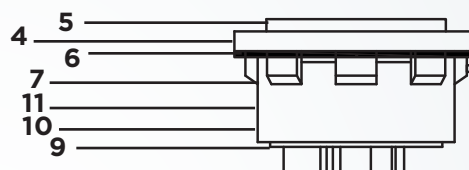
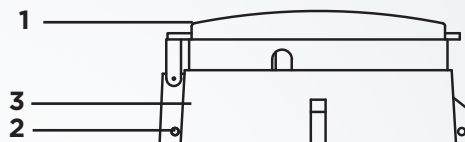
Technical specifications

- ✓ - Copper alloy body coated with Epoxy paint.
- ✓ - Turbine and dial in thermoplastic material.
- ✓ - Vacuum dial to prevent condensation of water.
- ✓ - Magnetic transmission protected against external magnetic fields.
- ✓ - Pre-installation of pulser for remote reading. Quick connection without stopping or dismantling the meter.
- ✓ - High mechanical and wear resistance .
- ✓ - MID approval for potable water. MID 2014/32 / EU Directive.
- ✓ - Straight sections are not necessary at the Hidrojet input or output U0-D0.



Disassembly

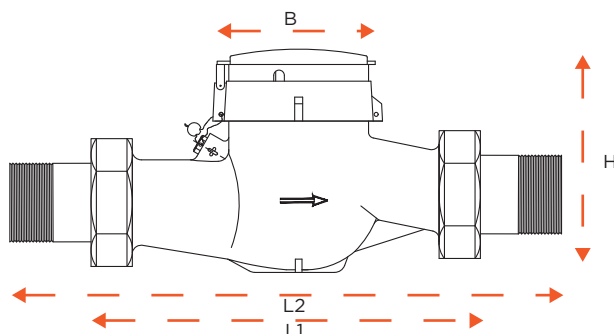
Nº	Description	Material
1	Cover	Plastic
2	Pin	Brass
3	Flange cover dial	Metalic
4	Flat seal	Plastic
5	Crystalline	Metraquilate
6	O-ring	Silicone
7	Dial	Assembly
8	Magnetic Gear	Compound
9	Magnetic ring	Iron
10	Magnetic ring	Iron
11	Dipper	Plastic
12	Flat seal	Rubber
13	Turbine	Compound
14	Distributor	Plastic
15	Filter distributor	Plastic
16	Filter joint	Silicone
17	Body	Copper alloy
18	Screw adjustment	Nylon
19	Washer	Nylon
20	Plug	Copper alloy





Dimensions

Calibre		L1	L2	B	H	Weight with fittings	Weight without fittings	Threaded fittings
mm	Pulg.	mm			Kg			
32	1-1/4"	260	381	100	135	3,03	2,30	G 1-1/2" BSP
40	1-1/2"	300	428	125	176	4,68	3,67	G 2" BSP
50	2"	300	439	123	174	6,41	4,32	G 2-1/2" BSP



Packing

Calibre	UNITS PER BOX	BOX DIMENSIONS (CM)			GROSS WEIGHT
		Length	Width	High	KG
DN 32	10	56,5	27	16,4	15,61
DN 40	2	31,5	27,2	18,5	10,15
DN 50	1	31	17,9	18,5	6,69



Working conditions

Room temperature	Maximum pressure
0.1 °C ~ 40 °C	≤ 16 bar



Maximum permissible error

Range	Error (%)
$Q_1 \leq Q < Q_2$	± 5%
$Q_2 \leq Q \leq Q_4$	± 2%

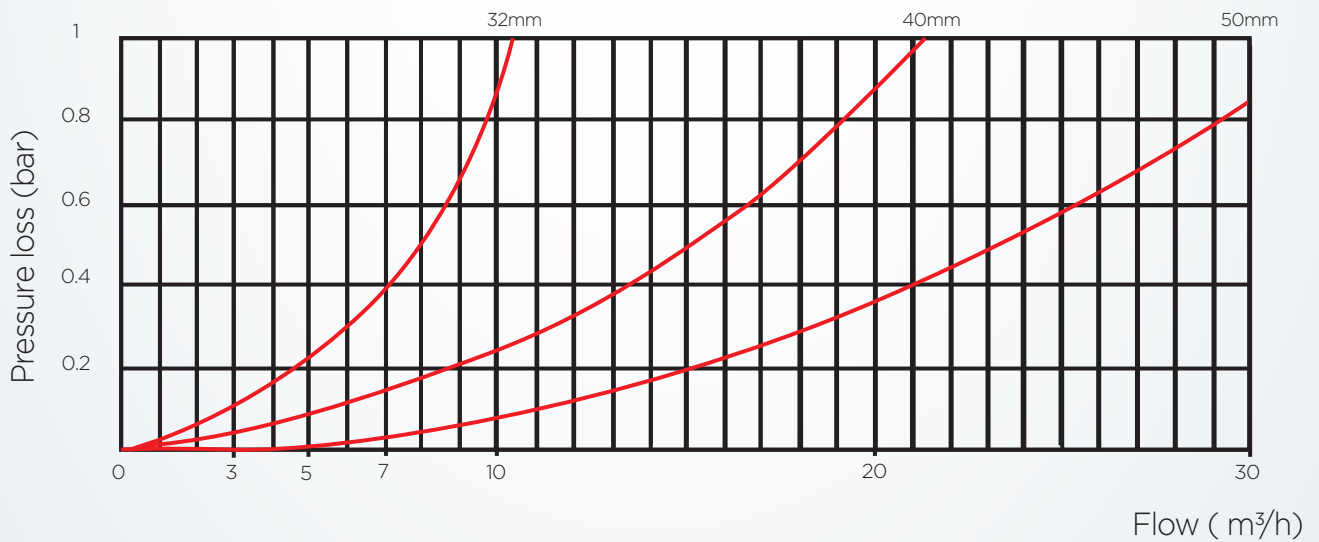


Technical specifications

Calibre		Q ₄ Overload flow	Q ₃ Permanent flow	Q ₂ Transition flow	Q ₁ Minimum flow	Minimum Reading	Maximum Reading	Ratio
mm	Inch	m ³ /h			l	m ³		
32	1-1/4"	12,5	10	0.2	0.125	0,05	99.999	R80
40	1-1/2"	20	16	0.32	0.2	0,05	99.999	R80
50	2"	31,25	25	0.5	0.312	0,05	99.999	R80

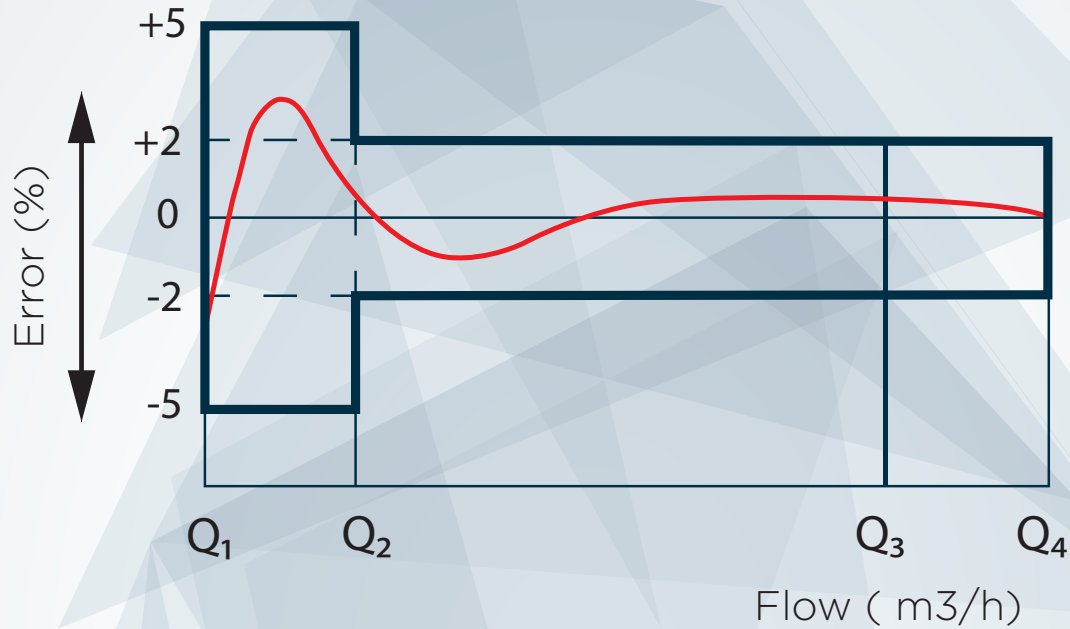


Pressure loss curve





Flow error curve

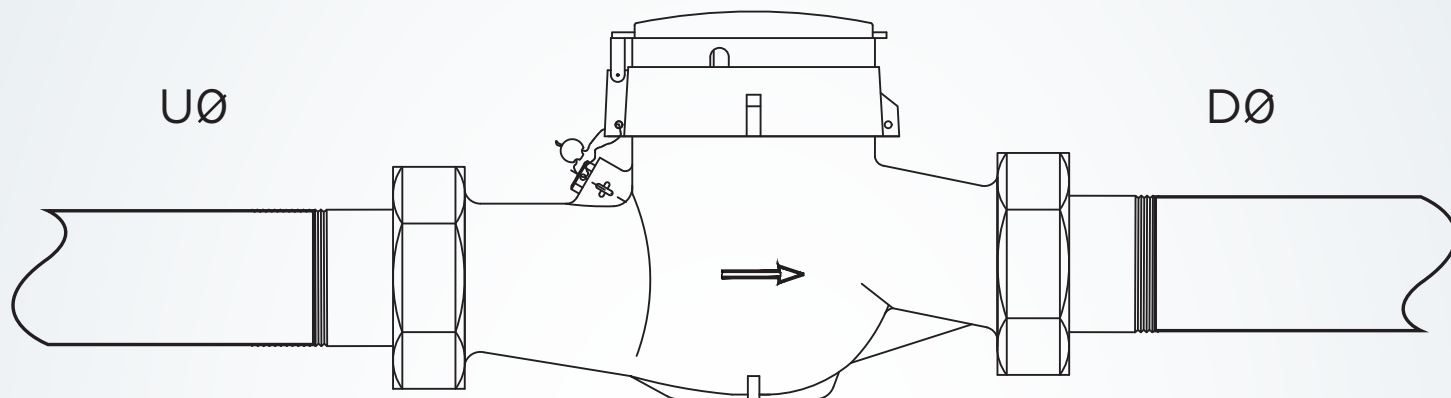


Pulse emisor

Type	Reed sensor
Pulse value	Standar 1 pulse = 100 l
Min. amperage to close contact	0 mA
Max. amperage to close contact	100 mA
Closed contact impedance	< 1 Ω
Open contact resistance	~∞
Max. supportable voltage	24V
Max. stabilization time	100us
Close contact lapsed time	40% of cycle



Diagrams for installing



Straight sections are not necessary at the MFSM-L input or output UØ-DØ.

Installation instructions

- Place the meter so that the arrow matches the direction of the water flow.
- The meters must always be full of water when operating, minimum pressure 0,3 bar, and installed below the slope of the rest of the pipeline. This stops air pockets from forming inside.
- If there is air in the pipeline, suckers must be fitted to avoid incorrect readings. If the water in the pipeline contains large suspended particles, an initial screening filter should be installed.
- Fit a valve upstream from the meter to facilitate maintenance or repair.
- A new pipeline should be drained before fitting a meter to eliminate particles.
- Do not force the meter during assembly; avoid tension or torsional stress, especially to the threaded connections..
- The meter connection can be installed on horizontal, oblique or vertical pipe.



MFSM-L WATER METER

WHEN WATER COUNTS

CUANDO EL AGUA ES LO QUE CUENTA

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