



WOLTMAN COUNTER

MODEL HRV-W



HRV-W:

The HRV-W water meter is characterized by its great stability of measurement. The pressure loss due to measurement effects is minimal.

It is a counter that uses an axial turbine as a speed sensor, the axis of the turbine coincides with the axis of water passage, with magnetic transmission and dry sphere. The special design of the turbine allows it to work with high sensitivity at flow rates. low.

The measuring insert is encapsulated and rotatable. The visor does not fog up internally, guaranteeing easy reading.

TECHNICAL CHARACTERISTICS:



- ☐ Preinstalación para emisor de impulsos.
- ☐ Relojería seca, orientable 360°
- ☐ Transmisión magnética directa
- ☐ Metrología R80
- ☐ Presión nominal PN16
- ☐ Instalación U0/D0
- ☐ Protección IP68
- ☐ Clase de pérdida de presión $\Delta P25$

NOTABLE FEATURES:



- ☒ Cuerpo fundición **GGG**.
- ☒ Tornillos acero inoxidable **A2-70**.
- ☒ Pintura epoxi al horno apta para agua potable.
- ☒ Mecanismo inox + plástico técnico
- ☒ Mecanismo totalmente extraíble sin necesidad de desmontar de la tubería.
- ☒ Admite instalación Horizontal y Vertical.
- ☒ Instalación de cable del emisor sin necesidad de desprecintar.

CERTIFICATES



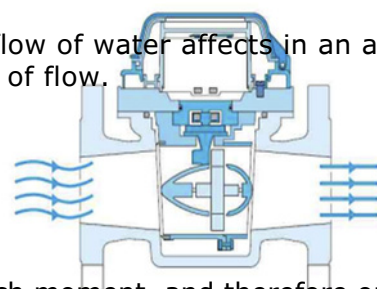
- ☐ Certificate **m[~]** for irrigation according to order **ICT/155/2020** .
- ☐ **MID** Certificate 2014/32/EU

Operating principle:

The operating principle is based on a propeller or turbine on which the flow of water affects in an axial direction. The axis of rotation of the turbine coincides with the direction of flow.

For each measurement, the number of turns of the turbine is related to the volume of water marked by the totalizer through gears with a constant reduction ratio.

Consumption is counted by totaling the number of turns of the turbine, whose rotation speed depends on the speed of the circulating water at each moment, and therefore on the flow. Thus, each revolution made by the turbine is transmitted to the totalizer, which will move showing the total flow that has passed through it.



Packaging:

Each counter is delivered in an individual box to protect it from impacts during transport.

Each meter includes the necessary gaskets for installation.

You can find the serial number and model of the meter; as well as other technical information such as measurement, nominal flow rate and flow sensitivity; both on the label which is on the outside of the box, like in their watchmaking.

Installation conditions:

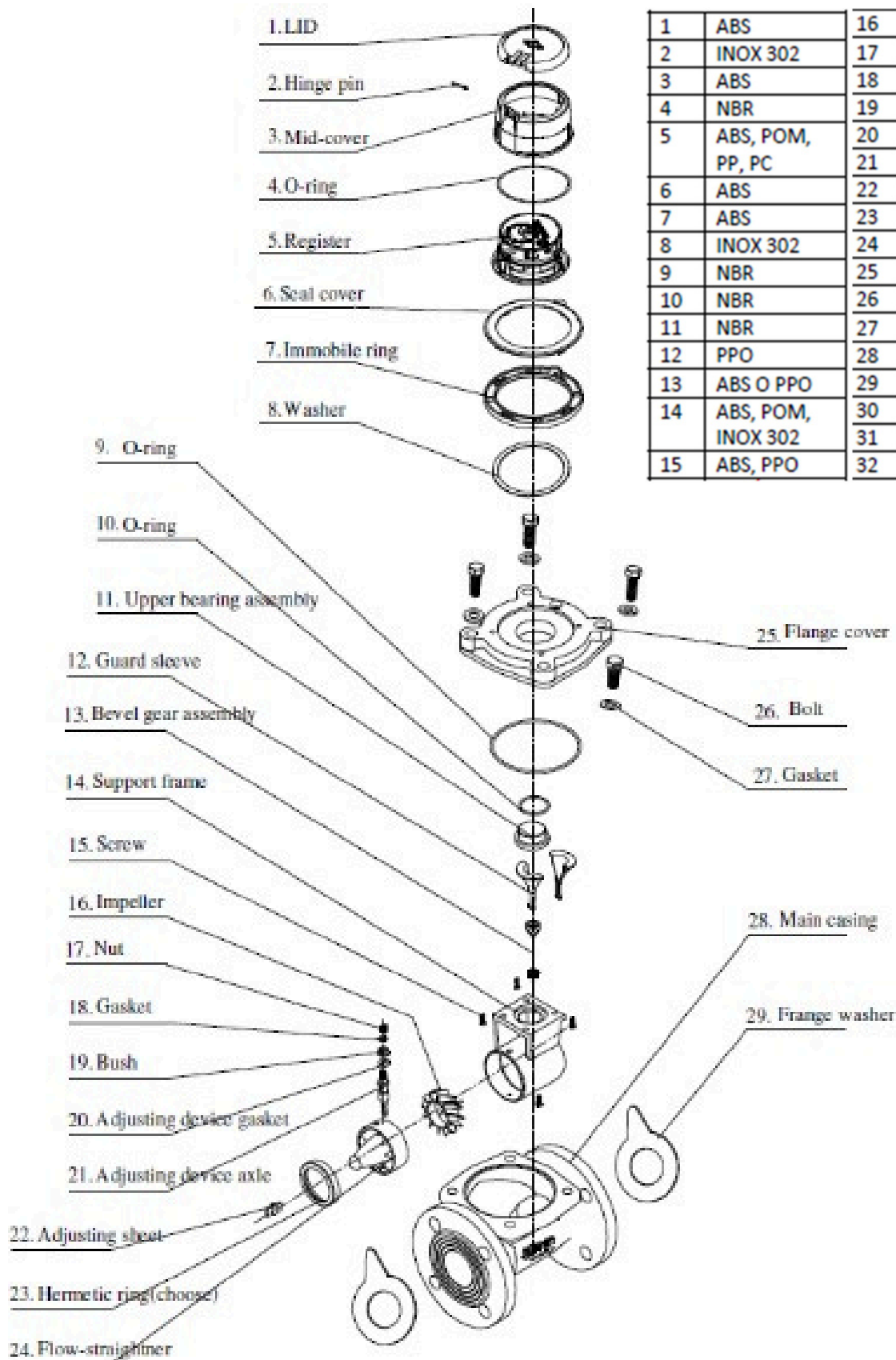
1. The meter must always be permanently filled with water. If a charged pipe cannot be guaranteed, a siphon or gooseneck must be installed downstream of the meter. If these conditions are not met, the counter may not total the volume passing through it correctly.
2. The flow direction arrow marked on the body of the meter must be respected, installing it so that the water flows through it in the same direction as the arrow.
3. The counter should preferably be placed in a position horizontal. However, it can be installed in any position according to the type examination certificate.
4. If the meter is to be installed in frozen areas, it must be protected with some thermal insulation (FOAM type). It is recommended to install it in a place protected from inclement weather such as manholes or sheds.
5. It is recommended to install a stone catcher filter upstream of the counter, to avoid possible impacts of impurities on the mechanism. measurement.
6. Before starting the meter, the pipe must be clean of particles, chips, impurities or sediments.
7. Before starting the meter, the air must be drained from the pipe and the meter.

Warnings:

DO NOT exceed the nominal working conditions of the meter. Ensure that the pressure, flow rate and pipe size are within the parameters defined in the certificate of conformity.

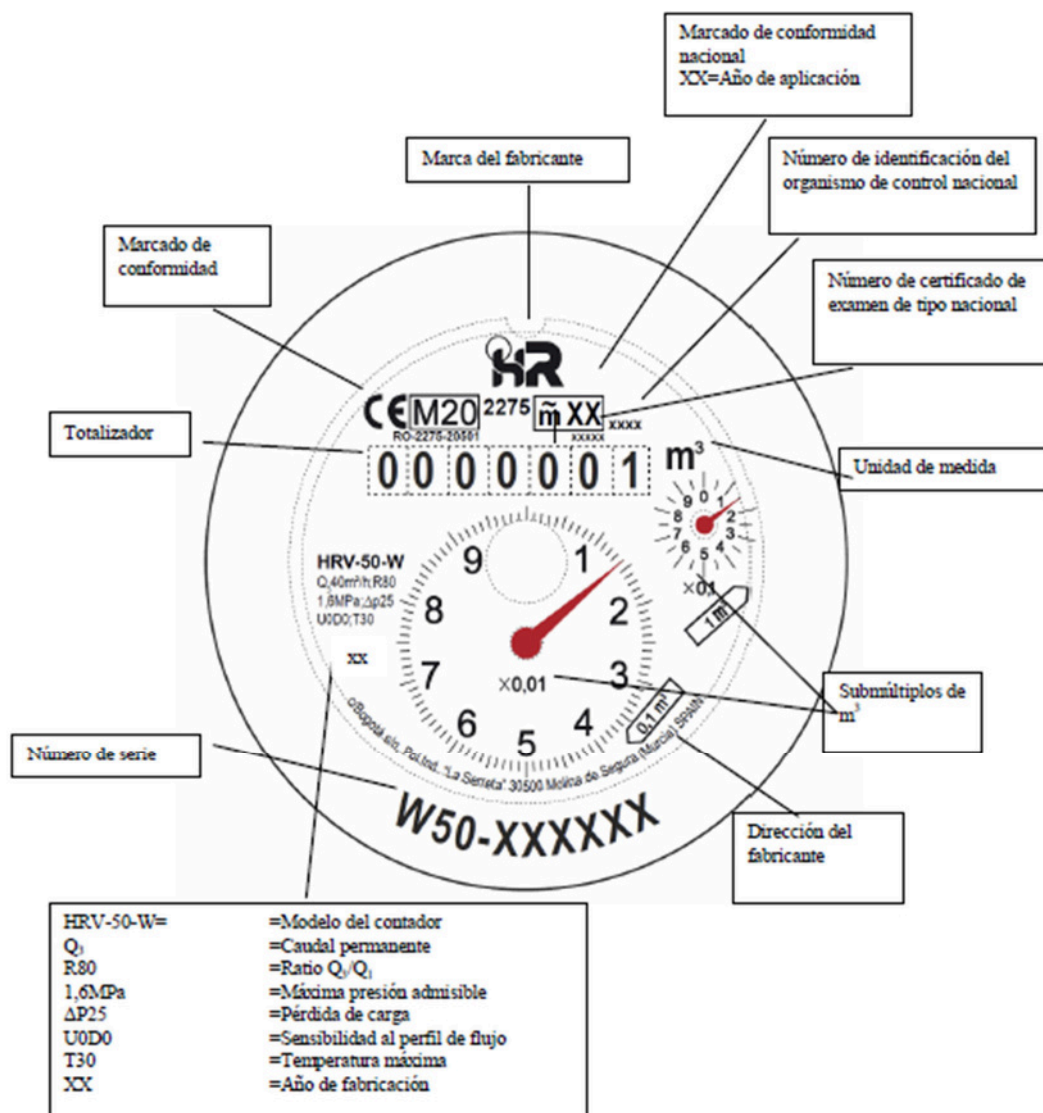
An installation that does not comply with the characteristics of the meter can reduce its useful life.

EXPLODED:



1	ABS	16	LATÓN
2	INOX 302	17	LATÓN
3	ABS	18	ABS O PPO
4	NBR	19	LATÓN
5	ABS, POM, PP, PC	20	NBR
		21	LATÓN
6	ABS	22	NBR
7	ABS	23	LATÓN, ABS
8	INOX 302	24	ABS O PPO
9	NBR	25	NBR
10	NBR	26	ABS O PPO
11	NBR	27	INOX 302
12	PPO	28	FUNDICION
13	ABS O PPO	29	INOX 302
14	ABS, POM, INOX 302	30	INOX 302
		31	FUNDICION
15	ABS, PPO	32	NBR

WATCHMAKING:



	DN50-200	DN250-300
TO	1 Pulse / 100 liters	1 Pulse / 1000 liters
b	1 Pulse / 1000 liters	-

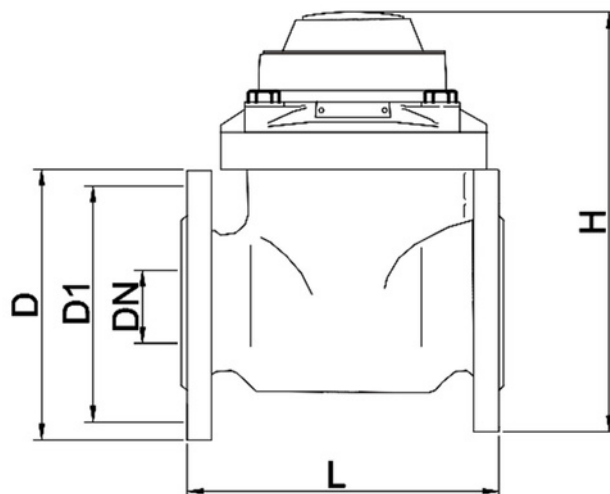
CARACTERIS TIC AS:

- ☒ R80
- ☒ PN 16
- ☒ Δp25
- ☒ T30
- ☒ T30
- ☒ IP68
- ☒ Protección magnética **antifraude**

PULSOS:

- ☒ Pre-equipado para emisión de impulsos.
- ☒ Opción de impulsos tipo Reed y opto-electrónico.
- ☒ 1 pulso cada 100 / 1000 litros (según instalación)

DIMENSIONAL DATA:



Model HRV-W	WEIGHT AND MEASUREMENTS									
	D.N. inches	fifty 2"	65 2 1/2"	80 3"	100 4"	125 5"	150 6"	200 8"	250 10"	300 12"
Length (L)	mm	200	200	225	250	250	300	350	450	450
Height (H)	mm	257	267	277	287	297	375	400	484	506
d	mm	165	185	200	220	245	285	340	395	445
D1	mm	125	145	160	180	210	240	295	355	410
Screws	kg	4xM16	4xM16	8xM16	8xM16	8xM16	8xM20	8/12xM20	12xM20	12xM24
Weight		12	13	fifteen	16.50	22	41	53.50	99	105

WORKING CONDITIONS:

Model HRV-W	WORKING CONDITIONS
Flow profile	U0/D0
Maximum pressure (Bar)	PN16
Maximum temperature (°C)	T30
Body	GGG Foundry
Model approval	RO-2275-20501 and 22130001

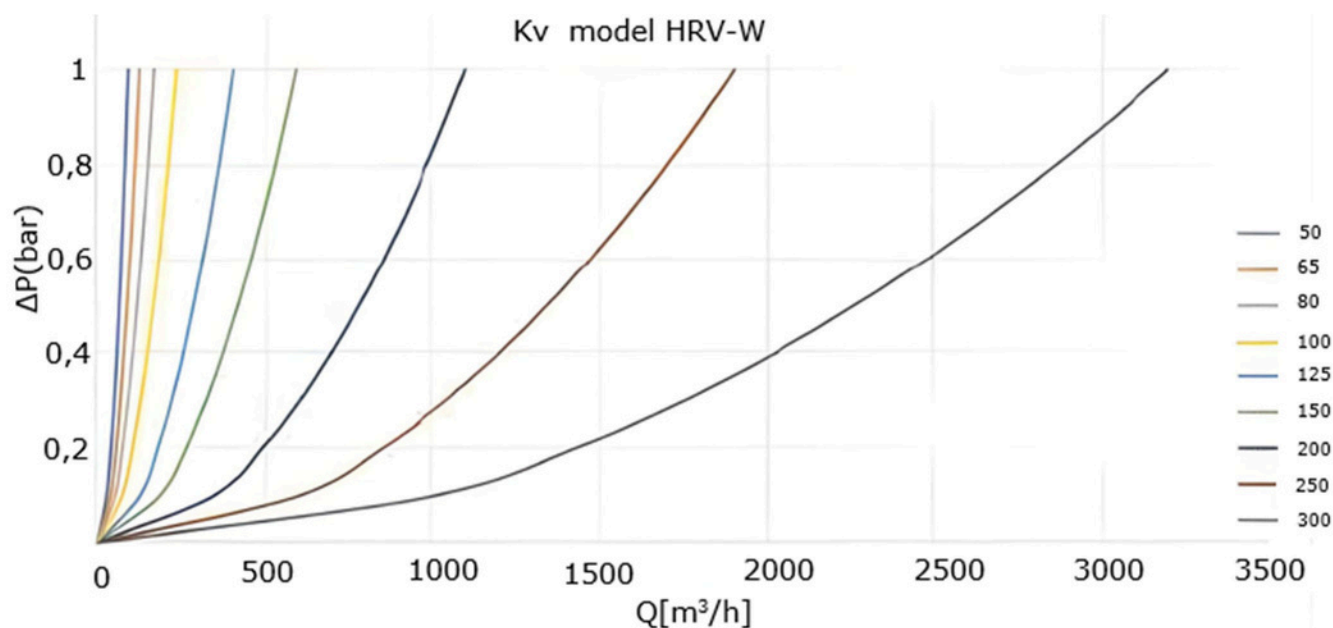
MAXIMUM ALLOWED ERROR:

Maximum allowed error	
	Mistake (%)
Q1 < Q < Q2	±5%
Q2 < Q < Q4	±2%

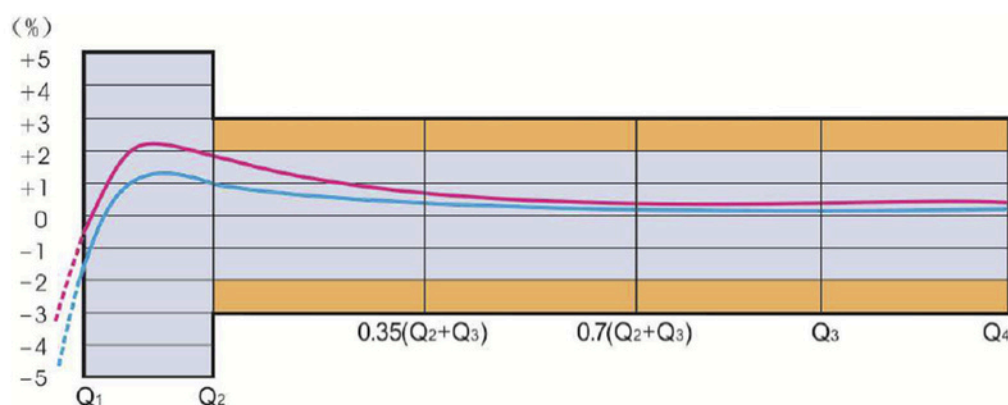
METROLOGICAL DATA:

Model HRV-W		TECHNICAL DATA									
	Q ₄	D.N. INCH	fifty 2"	65 2 ½"	80 3"	100 4"	125 5"	150 6"	200 8"	250 10"	300 12"
Overload flow	Q ₃	m ³ /h	fifty	fifty	78.75	125	200	312.50	500	787.50	1250
Permanent flow	Q ₂	m ³ /h	40	40	63	100	160	250	400	630	1000
Transition flow	Q ₁	m ³ /h	1.28	1.28	1.26	2	3.20	5	8	12.60	20.00
Minimum flow	Q ₃ /Q ₁	m ³ /h	0.50	0.50	0.79	1.25	2	3,125	5	7,875	12.50
Dynamic range			0.5	0.5	0.5	0.5	R80	5	5	fifty	fifty
Minimum reading							0.5				
Maximum reading		m ³					9,999,999.99				
Temperature range		°C					T30				
Pulse transmitter (REED TYPE IP67)		m ³	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1	1
			1	1	1	1	1	1	1	-	-

LOAD LOSS:



ERROR CURVE:



Installation instructions for the "REED" type pulse emitter:

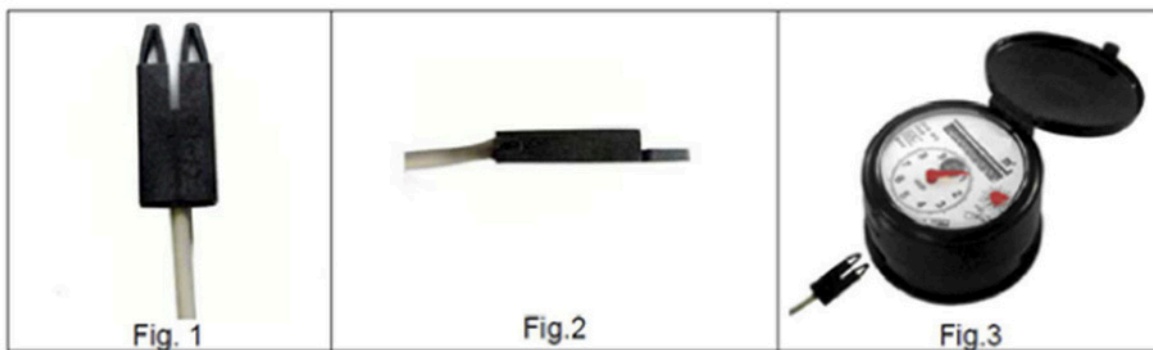


- o Dirección de flujo disponible
- o Cable negro se conecta al común.
- o El cable rojo y/o verde se conecta al sistema de control
- o En el caso de querer pulsos sin dirección de flujo conectar el cable negro junto a uno de los otros (rojo o verde) de manera indistinta.

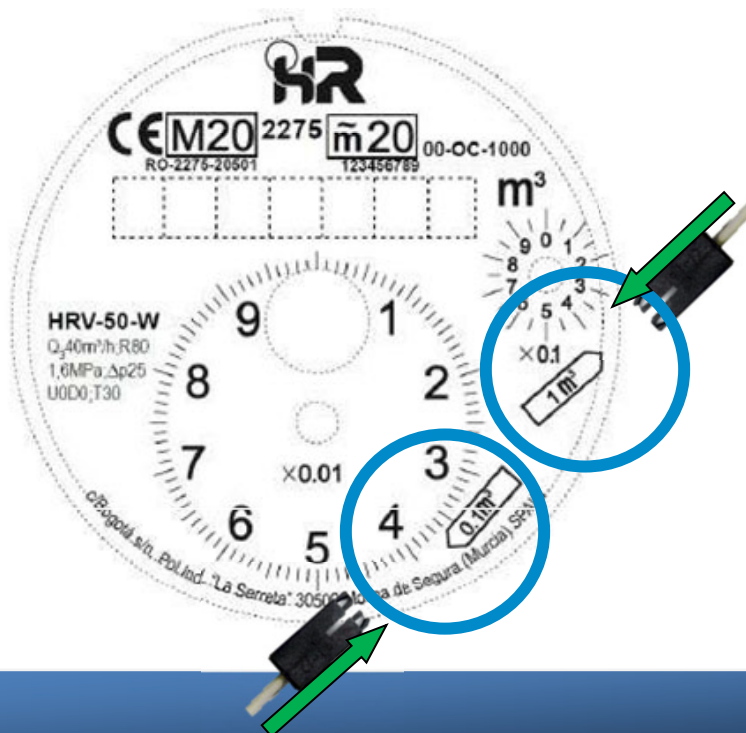
- ☒ Decide PULSE VALUE
- ☒ Once selected, the emitter must be introduced (Fig. 1)
- ☒ Make sure the clips are placed in the correct position, facing down. (Fig.2).
- ☒ Insert into the special casing of the totalizer (Fig.3) and push it until you hear a " Click ".

Note1: Once placed, it cannot be removed without damaging the fixing tabs.

Note2: Only one emitter can be placed per meter



Installation: In watchmaking, both the value and the positions for the placement of the emitter are indicated.





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