



The flow meter TM 4010 displays, regulates directly or lock the flow of the heating/cooling system.


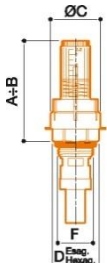
The flow is one direction only and works only on the inlet manifold.


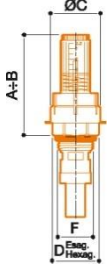
The flow measure works on the principle of the displacement of a flow breaker element placed in a measurement pipe. The position is moved within the indicator through a longitudinal rod which connect the flow breaker to the indicator body

TECHNICAL FEATURES:	Max working pressure:	6 bar
	Max working temperature:	da -10 °C a +70 °C (69000006) da -5 °C a +60 °C (69000009)
	Measuring range:	0 – 5,0 l/min
	Max differential pressure:	1 bar
	Flow liquid:	heating water, cold water, water mixed with common anti frost and anti corrosion liquids.

CONSTRUCTION FEATURES:	Body material:	CW 617 N UNI-EN 12165-98 (69000006) Thermo plastic resistant material (69000006)
	Spring material:	Stainless steel
	O-ring material:	EPDM
	Floater:	Thermo plastic resistant material
	Display glass:	Thermo plastic resistant material

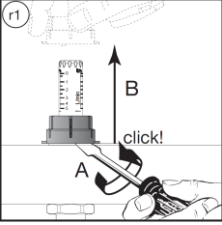
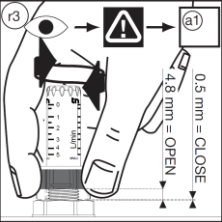
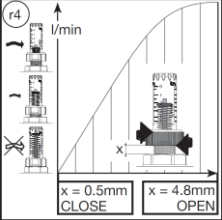
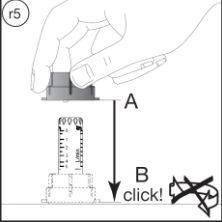
DIMENTIONAL DRAWINGS

	Article: TM 4010										
	Description: Top meter 0÷5 l/min with brass body										
	Code	Size	A	B	C	D	E	F	G	H	L
	69000006	G 1/2	55	57	30	24	-	G 1/2	-	-	-

	Article: TM 4010										
	Description: Top meter 0÷5 l/min with brass body										
	Code	Size	A	B	C	D	E	F	G	H	L
	69000009	G 1/2	55	57	30	24	-	G 1/2	-	-	-

[The Top meter can be applied on both manifolds 1" and 1"1/4 by simply changing the seat](#)

OPERATING INSTRUCTIONS

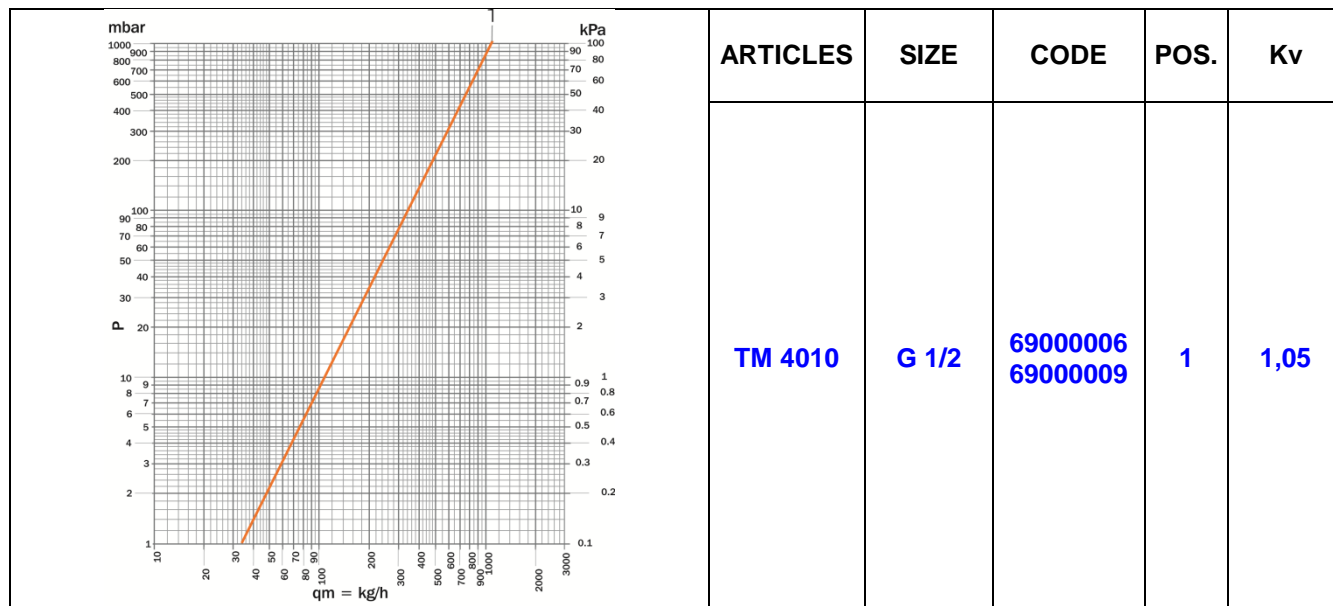
	<p>The theoretical flow of an hydraulic system, set by the installer, is the result of the regulation done through the flow meters connected on the inlet manifold.</p> <p>The regulation must be carried out with the valve place on the return totally opened. Since the regulation of each ring section affects the others, it is important to carry out these regulation for each single ring until the project values litres7minutes are satisfactorily reached.</p> <p>Flow regulation:</p> <ul style="list-style-type: none"> • Replace the red blocking collar.
	<ul style="list-style-type: none"> • Set the flow meter on close position. <p>(a1) = Act on the flow meter manually without using tools.</p>
	<ul style="list-style-type: none"> • Open the flow-meter until the required flow is displayed.
	<ul style="list-style-type: none"> • Replace the blocking collar <p>Protection of the hydraulic balancing against tampering:</p> <ul style="list-style-type: none"> • The regulation of the flow meters can be secured by a block cap. If necessary the caps can be sealed with iron wire and lead seal.
<p>CLEANING:</p>	<p>Glass and spring can be disassembled for cleaning:</p> <ul style="list-style-type: none"> • Close the top meter • Unscrew the glass acting on the collar and remove it. • There will be a negligible water leak during the operation. • The glass can now be easily cleaned. • The re-assemble proceed reversing the steps
<p>NOTE:</p>	<ul style="list-style-type: none"> • Before proceeding with the installation make sure that the O-ring is correctly placed. • During the assembly of the I Top- meter on the manifold the torque must not exceed the 20 NM for article code i 69000006 and 12 Nm for article code 69000009.



TECHNICAL DATA FILE

TM 4010

FLOW RATE CHART



TENDER SPECIFICATIONS

Article code:	69000006	TM 4010
Regulating flow meter for installation on inlet manifolds. Connection to manifold with male G1/2. Attacco al collettore con maschio G 1/2. Range 0÷5 l/min. Brass body CW 614 N UNI-EN 12164-98, EPDM peroxide gasket o-ring, spring in stainless steel, floater and glass in thermo-reistant plastic material.. Max working temperature 70°C; max working pressure 6 bar.		
Codice articolo:	69000009	
Regulating flow meter for installation on inlet manifolds. Connection to manifold with male G1/2. Attacco al collettore con maschio G 1/2. Range 0÷5 l/min. Body in thermo-resistant plastic body material, peroxide gasket o-ring, spring in stainless steel, floater and glass in thermo-reistant plastic material. Max working temperature 60°C; max working pressure 6 bar.		