

# **WATER FLOW TECH**

**Presents the  
Low Flow Controller**

# The Problem

## Water meters fail to measure low flows

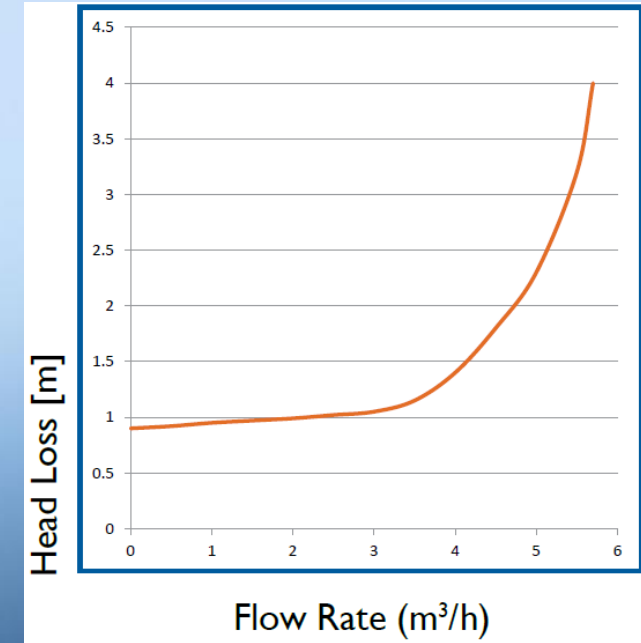
Each water meter starts measuring from different flow rate (stated by manufacture as “R” rate”), e.g.R400 measures from 6.25 l/h.

Measurement capability of meter is deteriorating as the meter ages.

Lost revenues – utilities suffer from high levels of NRW (non-revenue water)

Low flows caused by leaks in the customer’s piping downstream of the meter mainly pipework leakage, dripping of inadequately closed faucets and leakage of toilet water tanks

Water damages – low flow leaks are not detected until the damage can be visible in the household.



# The Solution

## LFC- Low Flow Controller

Simple and small device (60mm) installed before or after of any water meter to improve the meter's ability to measure low flow

The technology allows to measure at any moment the meter fails to measure.

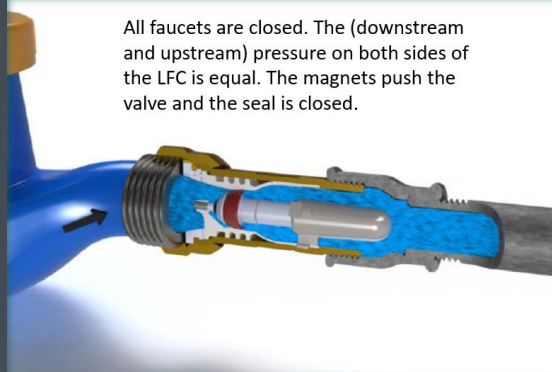
The innovative design with magnets and a valve , allows the water to flow through the device only when the pressure differential rises above a certain level

Approved by WRAS - UK standardization

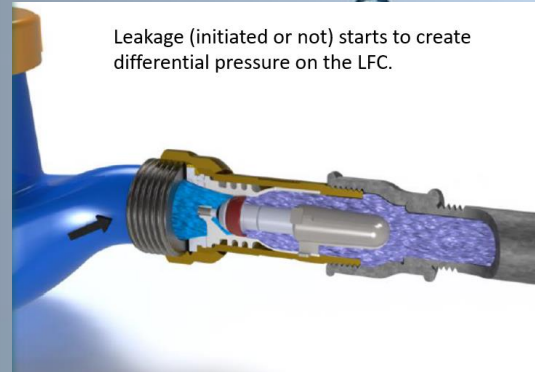


# How the LFC functions

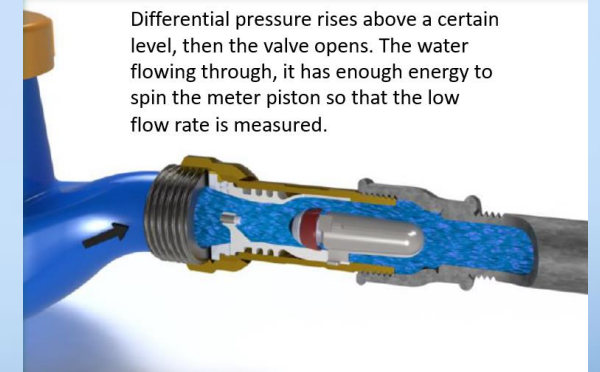
## 1. LFC closed (no flow)



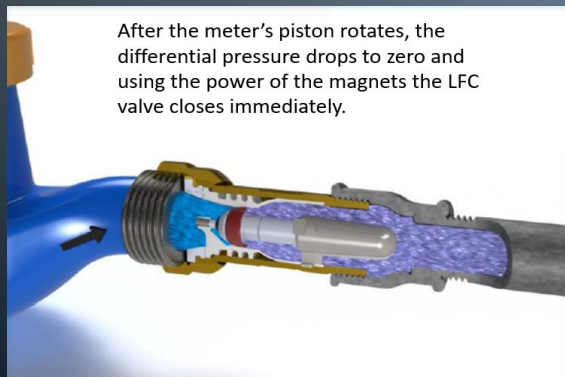
## 2. Leakage differential pressure is built



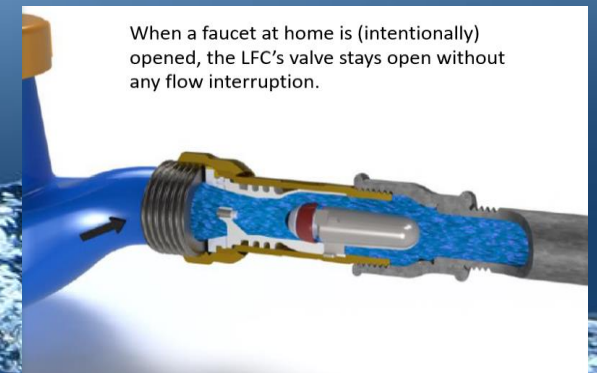
## 3. LFC opens (due to leakage)



## 4. LFC closes again



## 5. LFC is normally open at high flows



# Installation Process



Turn off the water flow stream



Unscrewing the record



Placing the seal on top of the LFC



Screwing the LFC into the water meter



Turn on the water flow stream

# Benefits of the LFC

Very attractive R.O.I (return of investment)

Optimization of water measurement – Utilities charge for all water consumed by the customer, this effect will increase as meter ages

Built in Non-Return valve that prevents water flow back to the main pipeline or to other apartments

Meter's life Extension – replacement due to inaccuracy of aging meters could be postponed

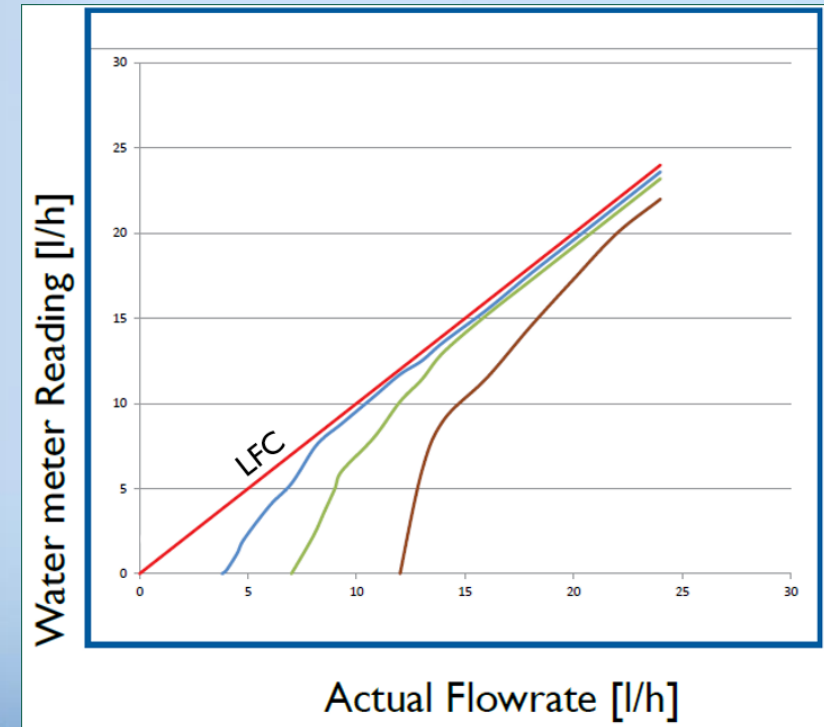
Easy to install – takes 2-3 minutes and doesn't require any pipe cutting.

Durability – lasts up to 15 years. Warranty by manufacturer Rimoni Industries

Low-cost solution for water meters – complementary to a purchase to a non-expensive meter

Minimum influence on pressure drop – Less than 0.4 bar for flow rate of 5.7 m<sup>3</sup>/h

Worldwide Patented



# How to contact us :

**Yair Karny– CEO**

**Mobile: +972-54-992290**

**E-mail: [yair@wft.co.il](mailto:yair@wft.co.il)**

**Shachar Ruberg – Business Development Manager**

**Mobile: +972-54-7649959**

**E-mail: [shachar@wft.co.il](mailto:shachar@wft.co.il)**

**Patrick Dolan – Head of Sales UK & Middle East**

**Mobile: +44 7917 838762**

**E-mail: [patrick@wft.co.il](mailto:patrick@wft.co.il)**

**Yossi Dana – CTO**

**Mobile: +972544542418**

**E-mail: [Yossi@wft.co.il](mailto:Yossi@wft.co.il)**



**[www.wft.co.il](http://www.wft.co.il)**



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