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INNOVATIVE TECHNOLOGY for WATER CONTROL

September 2022

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INTRODUCTION

- Water is a natural asset, and over the years tends to decline. It plays a fundamental role in the nature, intervenes as main agent on our landscape's balance and keeps our ecosystems.

- We have to bare in mind that water access is not only vital for people, but also for the nature and for this reason we ought to try to maintain our river's flows green, that's to say, water levels should enable us to cover the species needs around us.

- Therefore, it's important to implement all the saving and efficiency measures we have in our hands to maximize water usage, without harming rivers, aquifers and the rest of ecosystems, and so being able to continue enjoying them in the future.

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INTRODUCTION

- Making good use of water, means use it responsibly and severally, according to the country's hydraulic reality.

Example

- In terms of figures, each home pays currently an average of **1,90€ for each 1.000 l.** of water consumed.

- In 2023, in order to cope with the rest of the Measures Program, each family will have to pay **3,72€ for each 1.000 l** of water consumed.

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DESCRIPTION

- In the following we'll present a **worldwide innovative system,** that'll help society as a whole to improve the above points.

- This innovative system **is a valve**, thought, created and developed for **residential use**. It meets all EU standards and has obtained corresponding certificates for its production.

- **Worldwide patented, there's no model or system like this** one we're going to present hereafter.

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UNIQUE SYSTEM

- **4P**, it's the water counter's outlet valve in any housing, local,...

- The valve has **4 POSITIONS**. Each of these positions (or steps) has its functions and features.

VALVE TO RESTRICT OR REGULATE WATER FLOW

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4P VALVE: 4 POSITIONS

4 POSITIONS DESCRIPTION

- **100 – TOTAL STEP:** This position corresponds to the normally opened position in any stopcock in a domestic counter, offering the maximum flow available according to the water pressure. **100% Flow.**

4 POSITIONS DESCRIPTION

- **0 STEP**: the valve it's closed, supply is null. **0% Flow.**

4 POSITIONS DESCRIPTION

- **MINIMUM STEP:** The most important and singular out of the 4 steps. Conceived for situations where families cannot afford the water consume payment.

- This step allows a minimum water flow to establish minimum healthfulness conditions for subscribers, allowing them to: drink water, fill up the water tank and personal hygiene, cooking, but being insufficient to switch on white goods like washing machine, dishwasher, thermos or boiler.

4 POSITIONS DESCRIPTION

- Bare in mind that even though the flow it's minimum, the counter counts all m^3 consumed.
- Due to the non-payment of the water bill, the provider company is able to restrict water flow using this step. Once the bills are paid, the provider steps back the stopcock to the regular step. Otherwise, the provider can move the stopcock to **0 STEP**.
- This step is also valid for maximum dryness situations, where drastic water restriction measures have to be taken, sealing the stopcock in this position. **3% Flow.**

4 POSITIONS DESCRIPTION

- **REDUCED STEP or ECO:** This is the ideal position to be used in ***water-cutting times, ecological awareness*** **and for water savings purposes**; it's a calibrated reduced section, below **TOTAL STEP**.

- To achieve water savings in this position, there has to be a simultaneity factor between two or more points of consumption, that is, two taps or more opened at once, e.g. washing machine operating + tap running in the bathroom

4 POSITIONS DESCRIPTION

– Obviously, the reduction in water consumption, either on a housing, building or municipality, will lead to a significant drop in consumed water volume and consequently water savings at source. **15% flow.**

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VALVE PICTURE

H_2O

H_2O

OUTLET
HOUSING
PIPE

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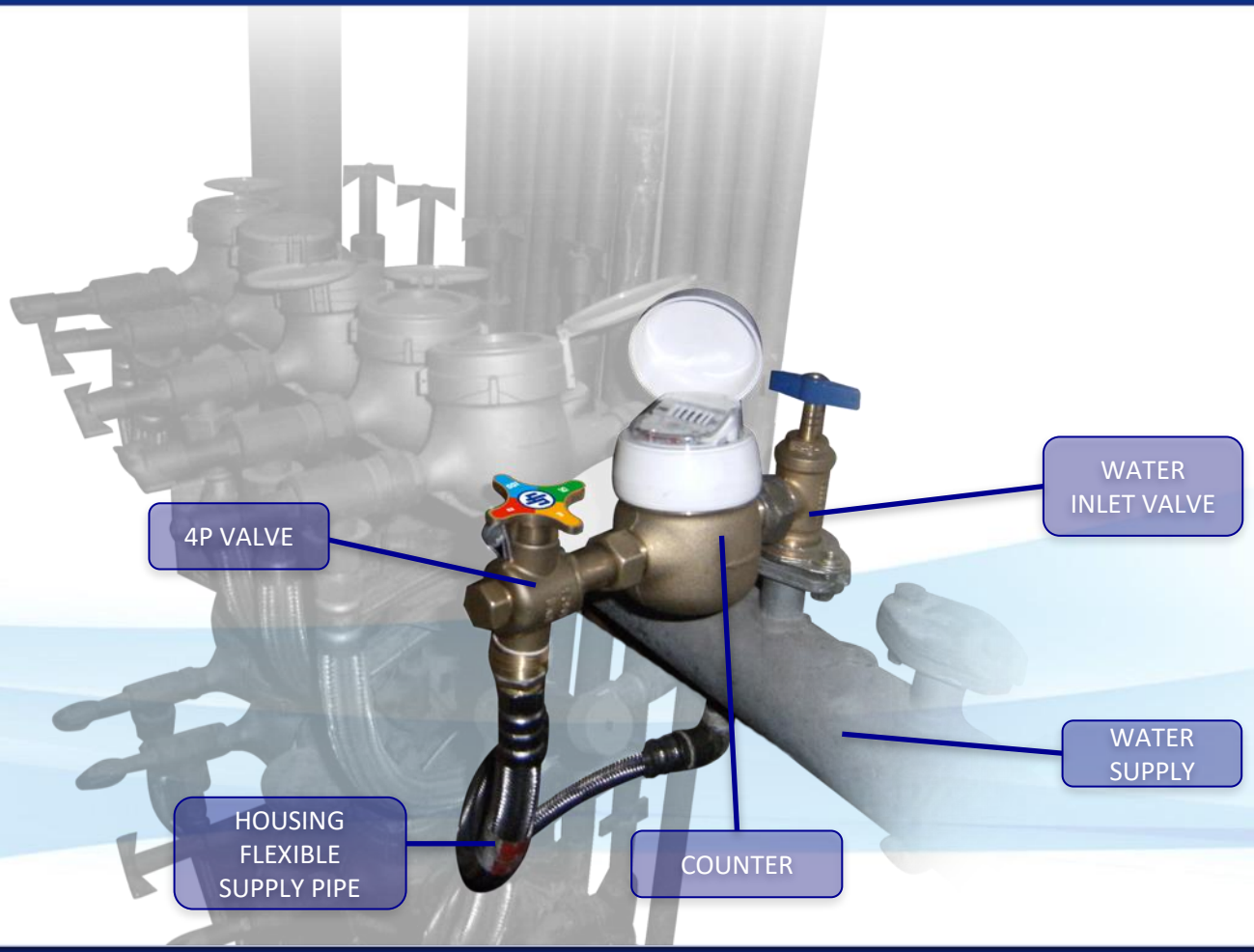
LOCATION PICTURE



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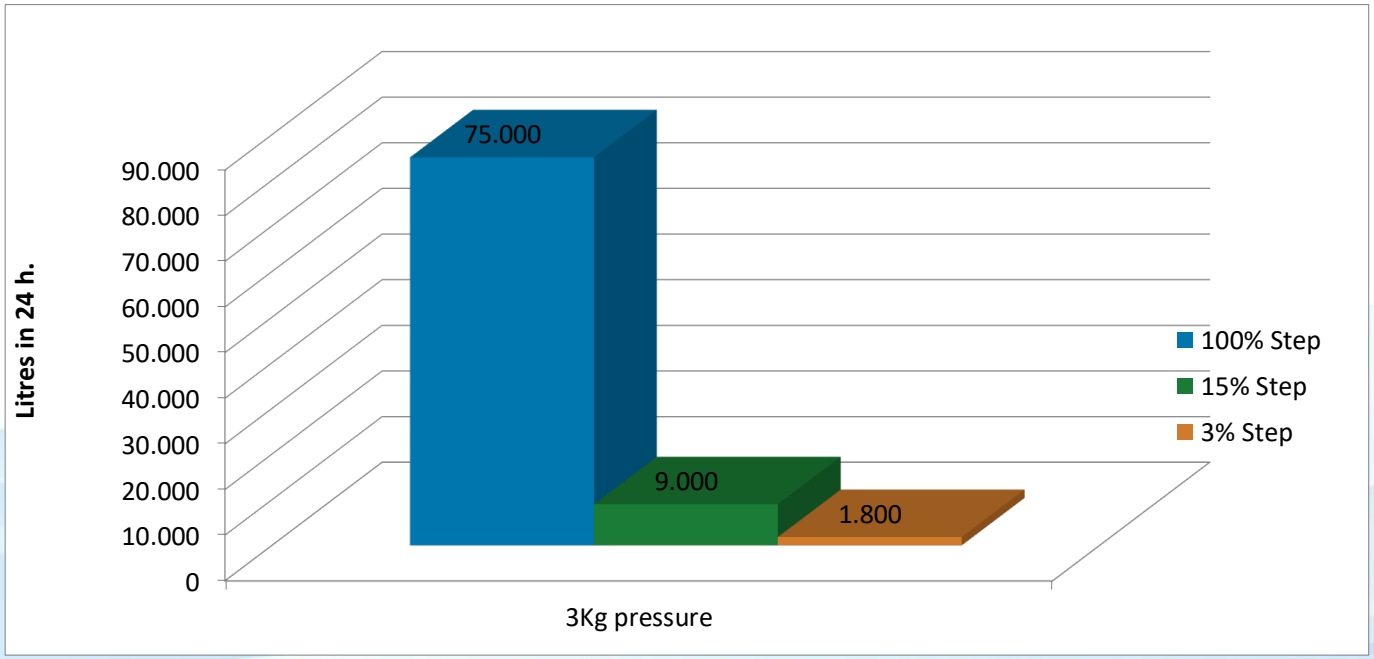
FLOW PER STEP



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ADVANTAGES

- 4P valve, besides the 4 steps described above, also incorporates a check valve, check cap, filter and joints.
- Each step can be moved quickly, effortlessly , with only ¼ turn or 90º to change step.
- The 4 steps of this valve can be sealed by the supplier company.
- The valve itself, in the back side, incorporates a check cap, used to purge (release trapped air into installation), check and verify pressure to ensure the check valve works correctly.

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PRODUCTION

- 100% of production is made in Catalonia and Spain.
- Each valve is delivered inside a box with an owner’s manual.
- Approx. Weight per unit: 600 gr.
- Shipping dimensions: 10 x 10 x 5 cm.
- 1 m^3= 1000 valves approx.

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ADDITIONAL SERVICES

- The valve can be customized with your brand in an specific part (to be defined according production quantities).

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