

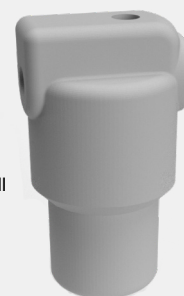
ART. 2410



Proportional polyphosphate dosing filter complete with:

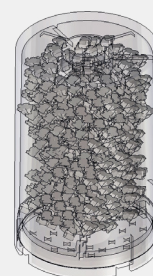
- Filter made of AISI304, 100 µm filtration level
- Fitting with non-return valve
- Polyphosphate refill
- Shut-off ball valve

ART. 2411



Anti-condensate protection shell

ART. 9452



## POLYPHOSPHATE REFILL

Polyphosphate refill in packs of 2 pieces.

## 1 DESCRIPTION

PolyFAR is a proportional polyphosphate dosing filter for the limescale and anticorrosive treatment in the production plants of domestic hot water.

Thanks to the polyphosphates and the integrated safety steel filter, PolyFAR features 2 different functions:

- Protection against limestone
- Filtration of impurities before they enter the heat generator, safeguarding its duration and efficiency.

## 2 CONSTRUCTION DETAILS

### A- Fitting with non-return valve

To install on the selected outlet connection (OUT), it must be connected on the boiler side following the direction of the arrow on the body. Inside there is a non-return valve that prevents the emptying of the downstream pipeline of the component during maintenance operations.

### B- Shut-off ball valve

Incorporated on the inlet connection (IN) of the water coming from the water mains, it allows to exclude water passage to carry out maintenance.

### C- Closing plug

To install on the not used outlet connection (OUT).

### D- Body

Upper part, made of brass

### E- Venturi filter cartridge

Inside there is the filtering mesh that can be removed for cleaning during maintenance

### F- Polyphosphate refill, art.9452

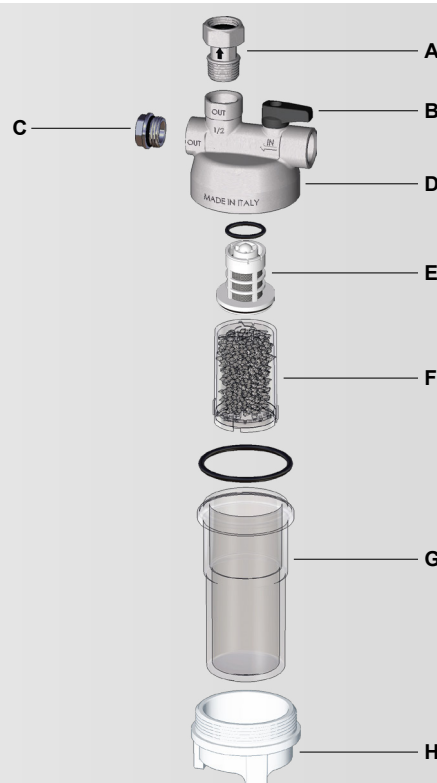
Polyphosphates solution

### G- Socket

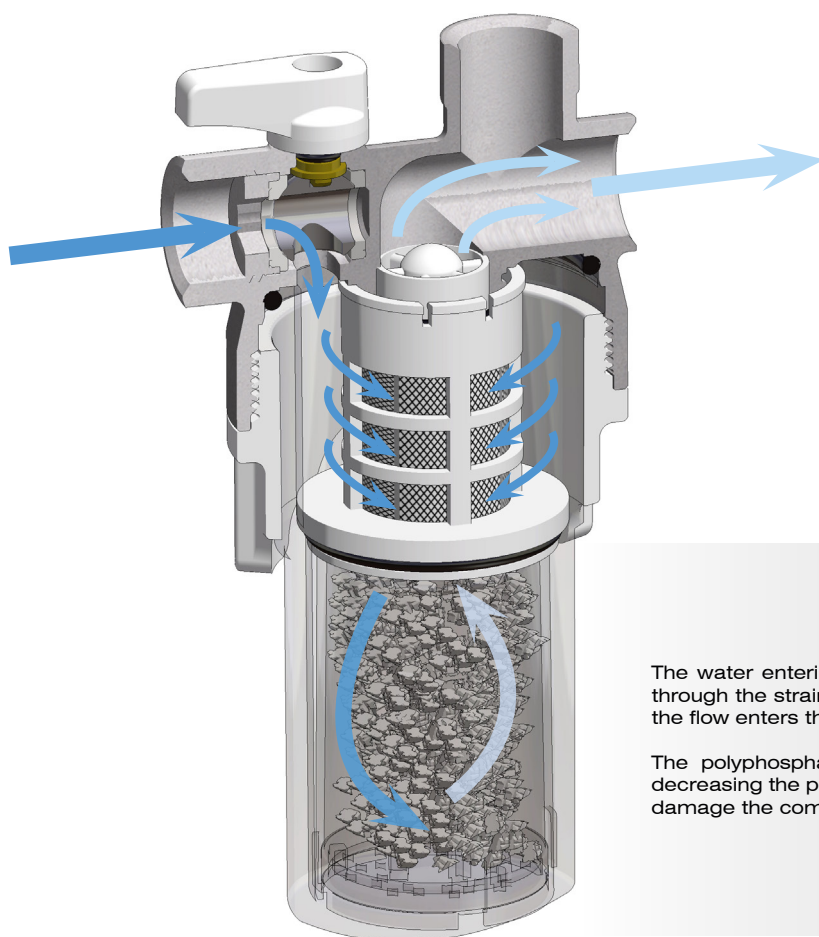
Lower part of the dosing filter, it contains the polyphosphate refill

### H- Nut

Connection nut between the body and the socket



## 3 WORKING PRINCIPLE



The water entering the dosing filter passes the ball valve and through the strainer, where it is cleaned of any impurities. Then the flow enters the glass containing the polyphosphates.

The polyphosphate solution makes the water sweeter, thus decreasing the problems connected to the limestone that could damage the components in the system.

## 4 INSTALLATION

Install PolyFAR on the cold water pipeline upline of the domestic hot water supply system (boiler, water heater, etc.) or upline of the washing appliance to be protected (washing machine, dishwasher, etc.).

**Thanks to the filter with steel mesh of 100  $\mu\text{m}$  integrated in the cartridge, it is not necessary to install any additional safety filter to protect the hot water production system (as indicated in the UNI 8065 standard).**

PolyFAR can be installed on both L-shaped and straight pipelines thanks to the special three-connection fitting.



VERTICAL L-SHAPED INSTALLATION



VERTICAL STRAIGHT INSTALLATION



HORIZONTAL STRAIGHT INSTALLATION

- PolyFAR can be installed vertically or horizontally but not upside down, respecting the flow direction indicated by the arrows on the body (as shown in the above installation examples)
- Do not install PolyFAR in conditions of possible frost or with direct exposure to atmospheric agents (in this case, use the protection shell, art. 2411 12CT)
- Check the need for a water hammer device to protect the PolyFAR

**Before starting up, check that there are no hydraulic leaks by slowly opening the interception devices**

## 5 MAINTENANCE

Periodically check the refill status of the polyphosphates, just looking through the transparent socket.

In case of prolonged non-use:

### • Stop > 1 week

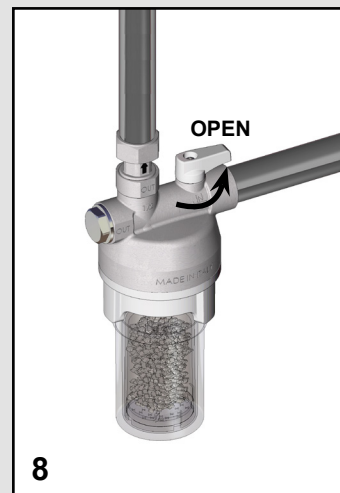
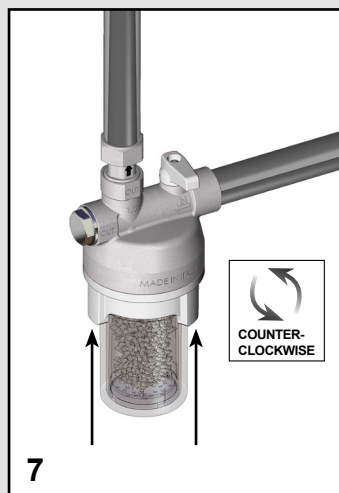
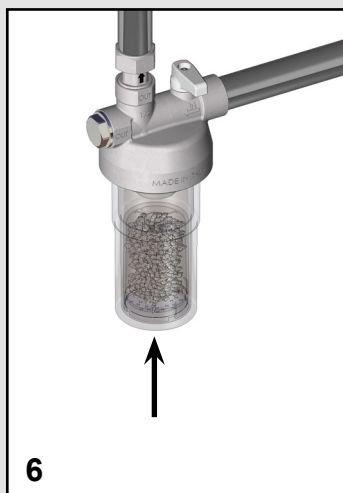
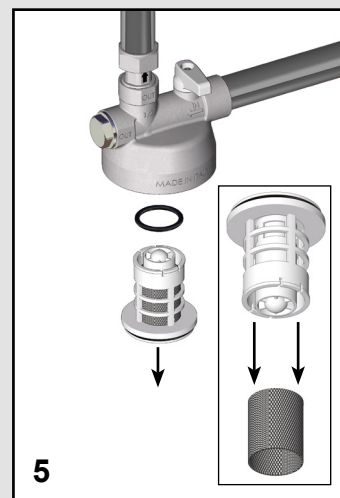
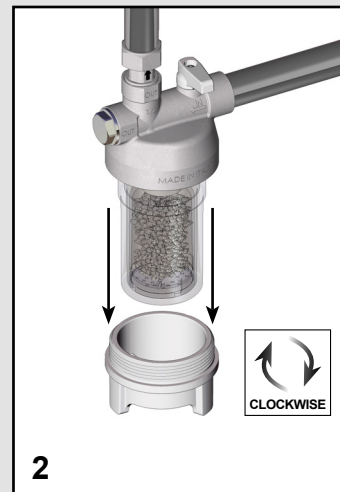
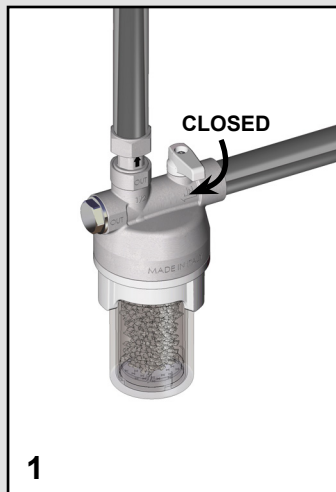
After a period of inactivity of more than one week, we recommend flushing water.

### • Stop > 6 months

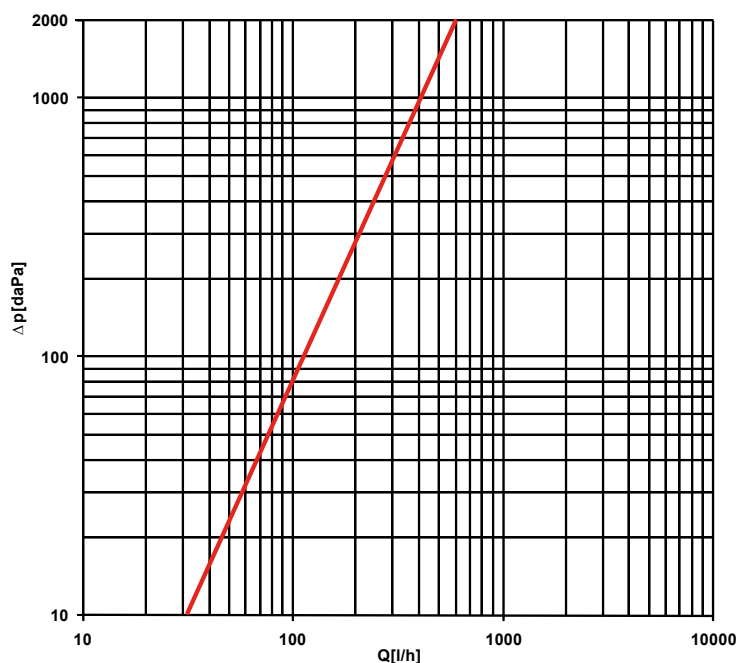
After a period of inactivity of more than 6 months, it is necessary to replace the salts inside the device and carefully wash the salt container.

### HOW TO REFILL

1. Close the shut-off valve. Thanks to the fitting with non-return valve, PolyFAR is isolated from the system. Release the pressure by opening a tap downline of the component.
2. Unscrew the lock nut B turning clockwise.
3. Remove the socket.
4. Remove the spent cartridge from the socket. The cartridge is made of polypropylene (PP) and is therefore recyclable.
5. Rinse the socket with water and clean the steel filter (warning: do not use alcohol or detergent).
6. After checking the condition of the two o-rings, insert the filter cartridge and reposition the socket with the new polyphosphate refill.
7. Tighten the lock nut.
8. Re-open the shut-off valve.



## 7 FLUID DYNAMIC FEATURES



The fluid dynamic characteristics are the same for both types of installation (L-shaped and straight).

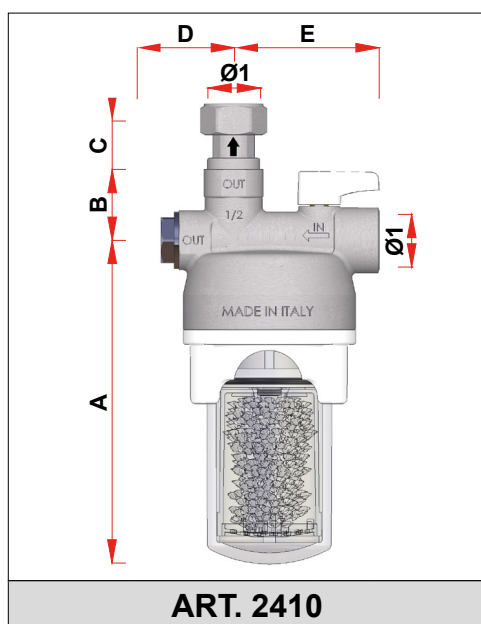
$$K_v = 1,44 \text{ m}^3/\text{h}$$

## 8 TECHNICAL FEATURES

- Maximum working pressure: 8 bar
- Room temperature: 5 ÷ 40 °C
- Working temperature: 5 ÷ 30 °C
- Socket material: Grilamid® TR
- Threaded body material: CW617N brass (with external chrome plating)
- Sealing gaskets: peroxide EPDM
- Treated water for refill: 35 - 40 m³ (guideline refill lifetime: 4 months)\*
- Connections: 1/2" F (x3)
- Safety filter: 100 µm made of steel

\* Data refer to water with average hardness of 12 °f, pH7, temperature of 20 °C and average use of domestic hot water.

## 9 DIMENSIONAL FEATURES



**ART. 2410**

CODE	Ø1	A	B	C	D	E
2410 12	1/2"	137	30	24	45	61