

# PULIFIL

## SEMI-AUTOMATIC SELF-CLEANING FILTER



### Finality

Impurities such as sand, rust flakes, lime deposits and coarse material can damage the water distribution line and household appliances (pipes, valves, mixers, faucets, washing machines, etc.). The installation of a protection filter is the most simple and efficient alternative to avoid such problems.

PuliFIL is a semi-automatic self-cleaning filter, robust and compact with a brushing system for the filtering cartridge and discharge valve for dirt. The filter is equipped with the new discharge connection with the date marker for the indication of the cleaning date.

PuliFIL is designed with a standard filtration rating of 100 microns which retains coarse impurities from water preventing them from damaging the system.

### Operation

Raw water entering PuliFIL flows from the outside toward the inside of the filtering cartridge. PuliFIL is an innovative filter with a patented system of

cleaning composed by two different actions: brushing of the filtering cartridge and high speed discharge. This method allows an efficient and thorough cleaning both of the filtering cartridge and the filter bowl. The cleaning is started by rotating clockwise the upper knob: this movement activates, at each click, the brushing system and the opening of the discharge valve which creates an high speed tangential flow which removes impurities accumulated in the filter bowl.

### Key features



PuliFIL head's is made in brass and the vessel, equipped with the discharge valve, is made in Grilamid® (high strength polyamide). The filtering surface is in stainless steel soldered on a stretched wire netting. The particular structure of the filtering cartridge makes it resistant to

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mechanical shocks and pressure gradients eliminating deformation and crushing of the filtering cartridge. The brushes are fixed with respect to the filter bowl and allow safe and effective cleaning.

The standard filtration rating of PuliFIL is 100 microns; other filtration ratings (30, 50, 150 microns – not compliant with DVGW) are available upon request.

### Intended use, use conditions

PuliFIL has been specifically designed for the treatment of drinking water intended for human consumption, predominantly in civil applications but it may also be used for the protection of water distribution lines in technological applications (heating and cooling systems, industrial installations, etc.).

### Maintenance and duration

PuliFIL requires the periodic cleaning operation.

PuliFIL must be included in the periodic sanitization program planned for the distribution system (who has built the distribution system is in charge of this planning). Therefore, whenever the system or a part of it is sanitized, PuliFIL must be sanitized too. For a proper maintenance two annual inspections are recommended. The outer ring can be used to mark the month of the next sanitization operation.

### Installation

The installation of the filter is a significant modification to the drinking water plumbing system, then it must be carried out in a workmanlike manner by a qualified technician, in compliance with local laws, regulations, and standards.

PuliFIL should be installed in the cold water line upstream of the appliance (boiler, heat exchanger, etc.) to be protected. Do not install in the hot water line or downstream of the appliance to be protected. PuliFIL must be equipped with an adequate by-pass

system that allows it to be excluded in case of need. Provide a visible drain sized to receive and properly dispose of the water coming from the filter during washing.

Read the Installation Manual supplied with PuliFIL.

### Warnings

Protect from frost and bad weather, avoid contact with solvents and chemicals in general. Refer to the Performance and Technical Data paragraph for operating limit values. Observe the information in the Use and Maintenance Instruction Manual. Cleaning and self-cleaning filters are protection filters and they are not suitable for the filtration of water containing silt, large amounts of sand and/or suspended material. In these cases it is necessary to use other types of filters.

### Raw water

PuliFIL has been designed for treatment only drinking water intended in compliance with Directive 98/83/CE on the quality of water intended for human consumption and subsequent updates.

### Conformity and Regulatory references

DVGW certified product (FT010, FT012, FT014 only).

EN 13443-1:2002+A1:2007

Water conditioning equipment inside buildings - Mechanical filters - Part 1: Particle rating 80 µm to 150 µm - Requirements for performances, safety and testing.

Acqua Brevetti SRL has adopted an Integrated Management System QSA (Quality, Health and Safety of workers, Environment) certified in compliance with the following standards:

EN ISO 9001:2015 - ISO 45001:2018

EN ISO 14001:2015

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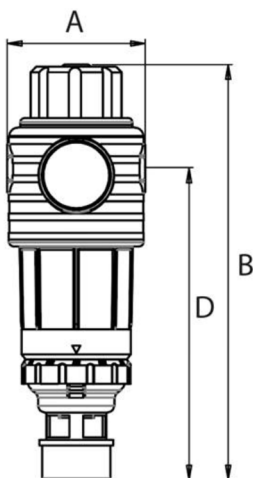
### Endowment

PuliFIL is packaged inside a paperboard box. The inlet and outlet of the filter connections are equipped with closing caps that prevent any external contamination, to be removed at the time of installation.

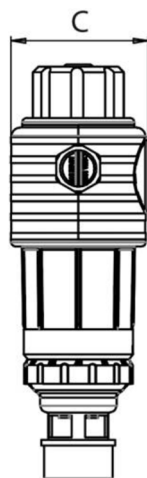
The standard endowment includes: PuliFIL filter, plastic bag with N°2 nuts and N°2 tailpieces (PuliFIL 1"½ and 2" only), Use and Instruction manual.

### Performances and technical datasheet

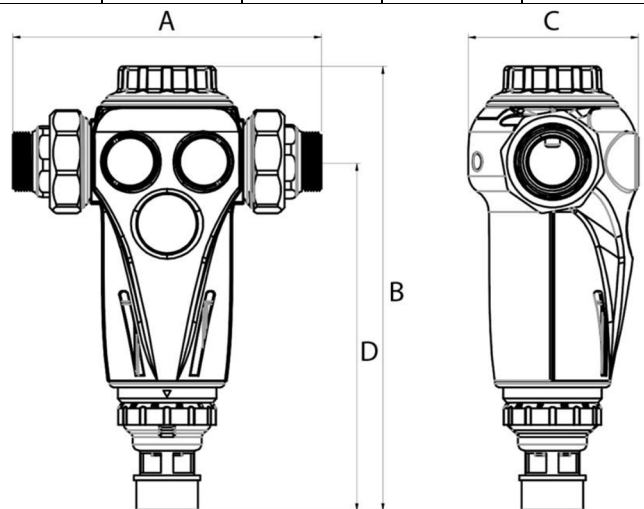
	Units	FT010	FT012	FT014	FT016	FT018
Connections	DN	¾" F	1" F	1"¼ F	1"½ M	2" M
Flow rate ( $\Delta P=0,2$ bar)	m <sup>3</sup> /h	4,8	6,0	6,5	12,0	14,2
Flow rate ( $\Delta P=0,5$ bar)	m <sup>3</sup> /h	6,4	9,6	10,6	22,0	22,6
Filtration degree	micron	100 (120/80)				
Nominal pressure (PN)	bar	16				
Min-max working pressure	bar	1.5 - 16				
Min-max water temperature	°C	5 - 30				
Min-max room temperature	°C	5 - 40				
Registration number DVGW		DW-9301DM0329				
<b>Dimensions</b>						
Width (A)	mm	101	107	111	251	265
Total height (B)	mm	300	300	300	300	300
Height at connection (D)	mm	225	225	225	284	284
Depth (C)	mm	100	100	100	138	138



**PuliFIL**  
cod. FT010, FT012, FT014



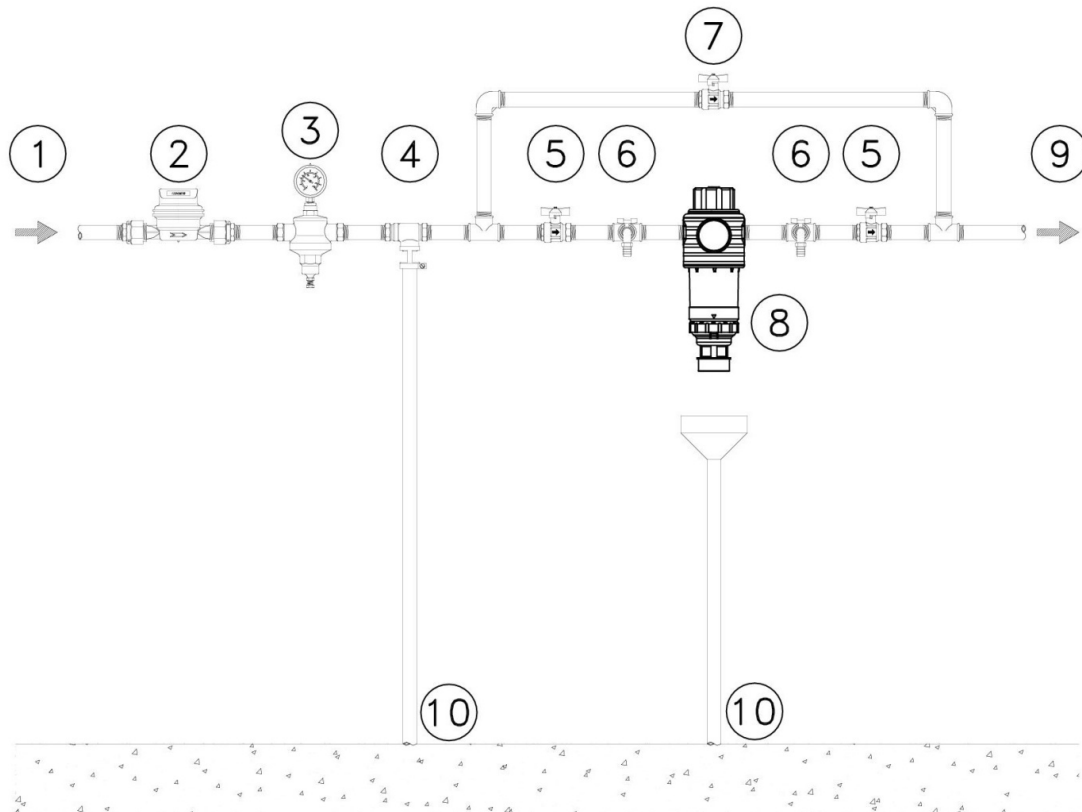
**PuliFIL**  
cod. FT016, FT018



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### Installation scheme



#### Legend

1. Water inlet • 2. Flow meter • 3. Pressure reducer • 4. Backflow preventer • 5. Shut off valve • 6. Sampling tap • 7. By-pass valve • 8. PuliFIL filter • 9. Cold water outlet • 10. Drain.



#### ACQUA BREVETTI SRL

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Azienda certificata  
ISO 9001:2015



This Technical Datasheet is based on the experience of Acqua Brevetti SRL and it is applied to the use in compliance with the instruction supplied by the manufacturer; any use different from those described must be authorized in a written form from Acqua Brevetti SRL. For a regular maintenance it is advised to enter into a contract with an authorized technical service. Acqua Brevetti SRL reserves the right to any change to its products without any notification. The reproduction of this document or part of this document is forbidden. This document is property of Acqua Brevetti SRL.