

# BRAVO

## Manual 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.

Bravo is a semi-automatic compact cleaning filter with small dimensions, high flow rates and discharge tap for dirt.

Bravo is designed with a standard filtration rating of 89 micron which retains coarse impurities from water preventing them from damaging the system.

### Operation

Raw water entering Bravo flows from the inside toward the outside of the filtering cartridge. The periodic cleaning operation is easy and quick requiring the opening of the bottom valve for a time sufficient to completely remove dirt accumulated at the bowl bottom and on the filtering cartridge. This simple operation allows the removal of impurities

both in suspension and deposited on the filter's bottom. Bravo is easy to disassemble and the filtering cartridge is readily accessible for fast cleaning and complete maintenance.

### Key features

Bravo head's is made in brass resistant and the vessel, equipped with the discharge valve, is made Trogamid® (high-strength polyamide). The filtering surface is clamped on steel sleeves with o-ring sealing. The particular structure of the filtering cartridge makes it resistant to mechanical shocks and pressure gradients eliminating deformation and crushing of the filtering cartridge. Bravo is equipped with a plastic key for the easy removal of the bowl and a plastic brush to clean the inner side of the cartridge. Bravo is also available with a 50 micron filtration rating (upon request).

### Intended use, use conditions

Bravo has been specifically designed for the filtration of cold drinking water 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

Bravo requires the periodic cleaning operation. This operation implies the opening of the discharge valve for some seconds.

Bravo 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). As a consequence any time the distribution system is sanitized Bravo must be sanitized too. For a proper maintenance two annual inspections are recommended.

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### Installation

Install in agreement with local regulations. Install only in hygienically suitable places.

Bravo 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. Install by-pass valves. Read the Installation Manual supplied with Bravo.

### Warnings

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

Bravo has been designed to treat only drinking water.

### Conformity and Regulatory references

Acqua Brevetti applies a Quality Management System certified according to UNI EN ISO 9001 regulation, as per certificate issued by TÜV Italia SRL.

The equipment complies with the Italian D.M. 174/04 and D.M. 25/12.

### Endowment

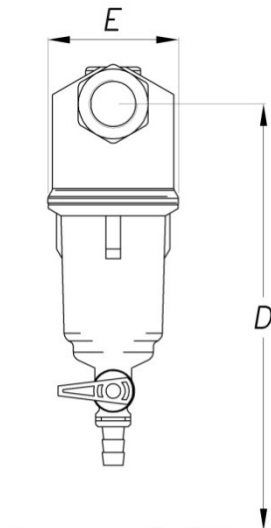
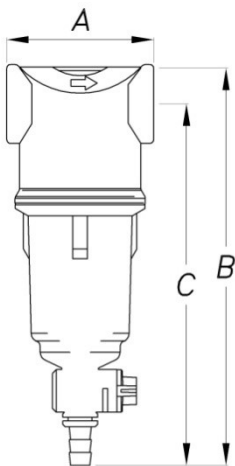
Bravo is packaged in a plastic bag put inside a paperboard box. The standard endowment includes: Bravo filter, opening key, plastic brush, instruction manual (including the conformity declaration), warranty certification.

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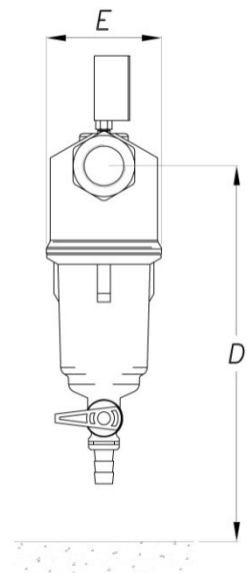
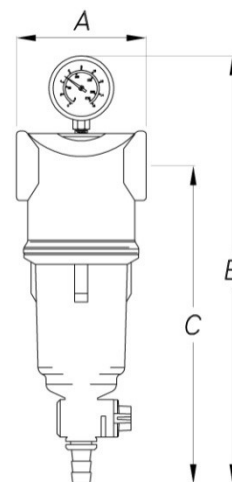
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### Performances and tecnica datasheet

	Units	FT300	FT310	FT302	FT312	FT304	FT314
Connections	DN	½" F	½" F	¾" F	¾" F	1" F	1" F
Flow rate ( $\Delta P=0.2$ bar)	m <sup>3</sup> /h	2.5	2.5	4.2	4.2	5.1	5.1
Flow rate ( $\Delta P=0.5$ bar)	m <sup>3</sup> /h	4.2	4.2	6.6	6.6	8.7	8.7
Pressure gauge indication	bar	-	0-12	-	0-12	-	0-12
Filtration rating	micron	89					
Min-max working pressure	bar	1.5 - 12					
Min-max water temperature	°C	5 - 30					
Min-max room temperature	°C	5 - 40					
<b>Dimensions</b>							
Width (A)	mm	80	80	80	80	80	80
Total height (B)	mm	225	270	225	270	225	270
Height at connection (C)	mm	197	197	197	197	197	197
Distance from ground (D)	mm	300	300	300	300	300	300
Depth (E)	mm	71	71	71	71	71	71



**Bravo without pressure gauge**  
cod. FT300, FT302, FT304

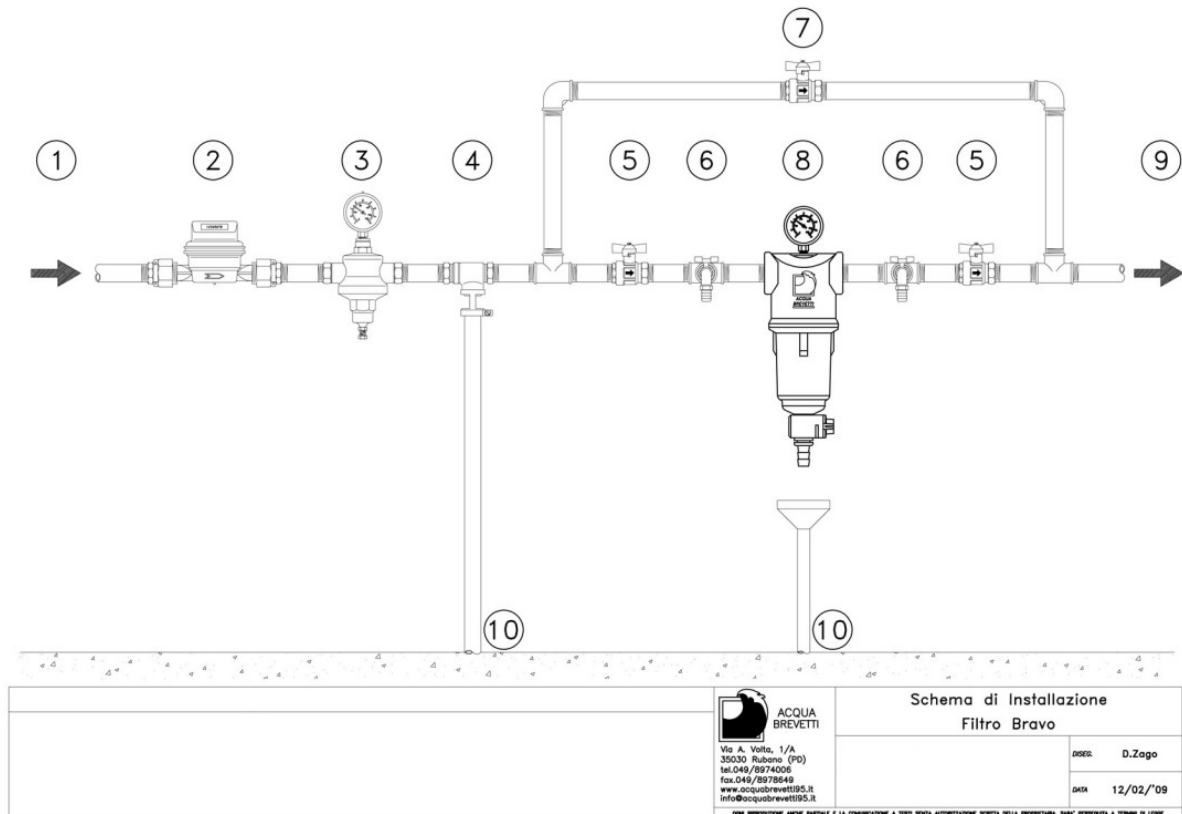


**Bravo with pressure gauge**  
cod. FT310, FT312, FT314

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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. Bravo filter • 9. Cold water outlet • 10. Drain.



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Azienda certificata  
 ISO 9001

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