



BRAVOMAX-M

Semi-automatic self-cleaning filter - High flow rate

Rev. 0 - 03/24



CHARACTERISTICS



Foreign bodies such as pebbles, rust flakes and other oxides, metal scraps which can damage the water system (pipes, valves, mixers, control organs, etc.) are often present in the water.

The installation of a protection filter represents the simplest and most effective alternative to avoid these problems.

BravoMAX-M is a semi-automatic self-cleaning filter with cartridge brushing system and dirt discharge. It is complete with pressure gauges for measuring pressure. BravoMAX-M is designed to eliminate foreign bodies with a grain size greater than 150 microns.

BravoMAX-M carries out water filtration from the inside to the outside of the filter cartridge.

Thanks to its patented brushing and draining system, it guarantees, in addition to the discharge of impurities suspended in the water, effective and real cleaning of the filter cartridge.

The washing operation is started by turning the knob clockwise: this movement activates the brushing and draining system with each click (2 total clicks). The automatic opening of the drain valve, located at the bottom of the filter bowl, creates a high-speed tangential flow that removes the impurities accumulated in the filter bowl.

BravoMAX-M is made entirely of stainless steel. The cartridge is also made of stainless steel welded onto an expanded support mesh. The particular structure of the cartridge makes it resistant to pressure shocks, reducing the problem of deformation and crushing.

BravoMAX-M is the ideal solution for the filtration of high water flow rates.

BravoMAX-M complies with the requirements for the treatment of drinking water.

The standard filtration rating of BravoMAX-M is 150 microns; Different filtration degrees (100 and 200 microns) are available on request. BravoMAX-M is available in the version with threaded or flanged connections. BravoMAX-M is equipped with 0-16 bar front pressure gauges to monitor the pressure drop through the filter element and be able to establish the degree of clogging more precisely. The filter is supplied with the water inlet on the left (considering the front view).



TECHNICAL DATA

Code		FT040 - FT140	FT042 - FT142	FT044 - FT144	FT046 - FT146
Model		BRX-M 30	BRX-M 40	BRX-M 50	BRX-M 54
Threaded or flanged in/out connections		1" ½ M - DN40	2" M - DN50	2" ½ M - DN65	3" M - DN80
Maximum flow rate	m³/h	30,0	40,0	49,6	54,0
Min./max. working pressure	bar	1,8 - 10,0			
Seals		EPDM			
Body and lid material		AISI304			
Support mesh material		AISI304			
Filter cloth		AISI304			
Degree of filtration	µm	Standard 150			
Min./max. water temperature	°C	5 - 30			
Min./max. ambient temperature	°C	5 - 40			

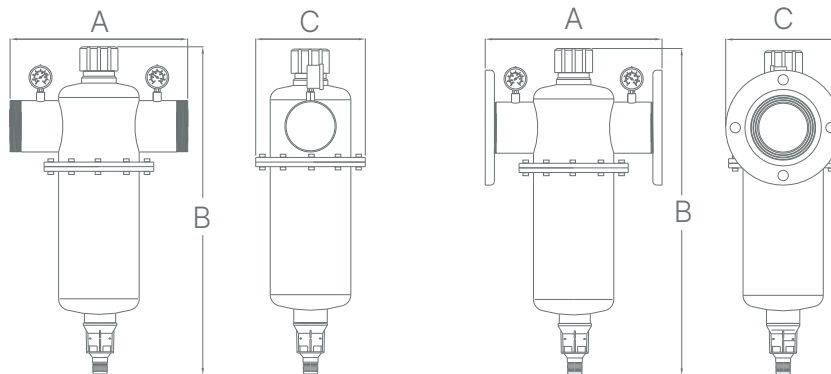
HIGHER FLOW RATES

For flow rates above 54 m³/h, we recommend installing two BravoMAX-M filters IN PARALLEL;
The installation of two filters in parallel guarantees greater flexibility and continuity of supply of treated water even in the event of faults and/or malfunctions
Below the diagram shows the flow rate m³/h ($\Delta P=0.5$ bar) referring to two filters:

Code	Connections	Flow rate m³/h ($\Delta P=0,5$ bar)
FT040 - FT140	1"½ - DN40	54 - 60
FT042 - FT142	2" - DN50	60 - 80
FT044 - FT144	2"½ - DN65	80 - 100
FT046 - FT146	3" - DN80	100 - 108



OVERALL DIMENSIONS



Code	A	B	C	Weight	
	mm	mm	mm	threaded model Kg	flanged model Kg
FT040 - FT140	310	510	190	5,0	6,0
FT042 - FT142	310	510	190	5,3	6,3
FT044 - FT144	310	578	190	7,2	8,2
FT046 - FT146	310	578	190	9,0	10,0



EQUIPMENT AND SUPPLY SPECIFICATIONS

BRAVOMAX-M is supplied complete with filter cartridge, n. 2 glycerin pressure gauges, 2 flanges (for flanged models); instruction manual - maintenance in Italian (including declaration of conformity).

Shipping managed in wooden crate.



MAINTENANCE

The filter requires periodic washing by turning the knob; BravoMAX-M must be part of the periodic sanitization plan of the system (planned by whoever built the system). Therefore, every time the system or part of it is sanitized, it is also necessary to sanitize BravoMAX-M.

For correct management of BravoMAX-M it is advisable to carry out at least two annual checks.



REFERENCE STANDARDS

Ministerial Decree No. 174/2004: Regulation concerning materials and objects that can be used in fixed systems for the collection, treatment, supply and distribution of water intended for human consumption.



INSTALLAZIONE

Carry out the installation in compliance with local regulations in force. The installation must be carried out in hygienically suitable places and in compliance with the provisions set out in the Decree of the Ministry of Economic Development of 22 January 2008, n°37, including those relating to testing and maintenance.

BravoMAX-M must be installed on the cold water pipe at the entrance to the system, immediately downstream of the general meter and in any case upstream of the system to be protected. BravoMAX-M must be equipped with an adequate by-pass system that allows it to be excluded if necessary. Provide an exposed drain sized to correctly receive and dispose of the water coming from the filter during the washing phase.

BravoMAX-M is not equipped with an anti-flooding system.

Perform a visual inspection of the system on a regular basis. Before carrying out the installation, consult the Assembly and Installation Manual supplied with the equipment.



PRECAUTIONS AND WARNINGS

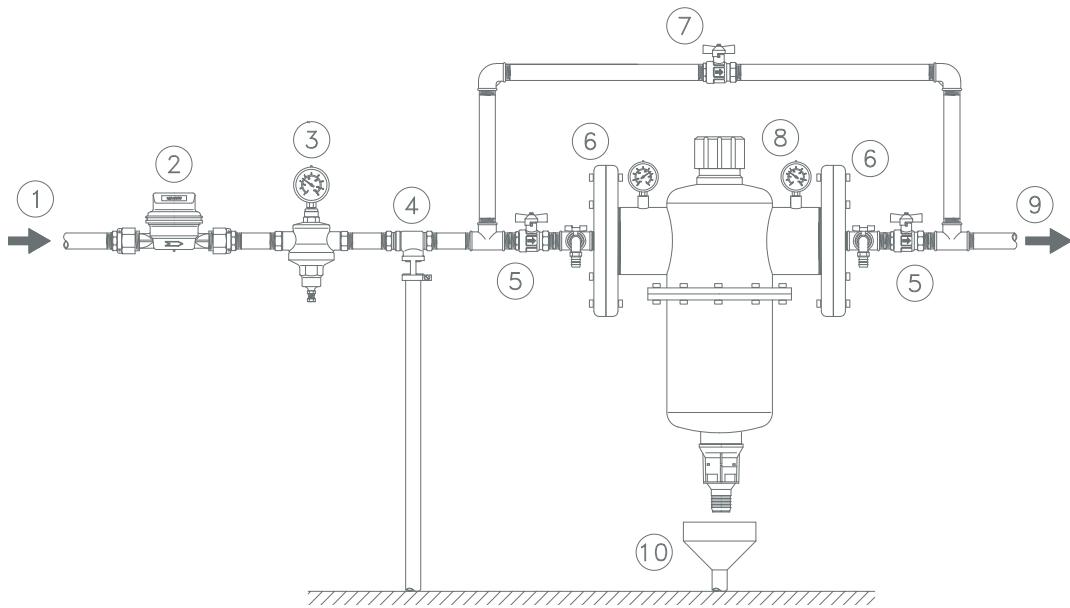
Attention: this equipment requires regular periodic maintenance in order to guarantee the drinkability requirements of the treated water and maintain the improvements as declared by the manufacturer.

Protect from frost and bad weather, avoiding contact with solvents and chemical products in general.

BravoMAX-M can only treat water that meets the requirements prescribed by the Legislative Decree. N°31/01 and subsequent amendments. Consult the Performance and Technical Data paragraph for the operating limit values. Observe what is stated in the Instructions for Use and Maintenance Manual.

The cleaning and self-cleaning filters are protection filters. They are therefore not suitable for filtering water containing silt, large quantities of sand and/or suspended material. In these cases it is necessary to resort to other filtration systems.

INDICATIVE INSTALLATION DIAGRAM



1. Raw water inlet; 2. General counter; 3. Pressure reducer (if any); 4. Disconnector (if any); 5. Shut-off valve; 6. Sample tap; 7. By-pass valve; 8. Filter; 9. Treated water outlet; 10. Unloading.

SPARE PARTS

Spare parts for the equipment are available on request in the dedicated price list.

AVERAGE DELIVERY TIMES

2 weeks

GENERAL EXCLUSIONS

- Special dedicated packaging, where required
- Equipment start-up and final testing: management not necessary by an Authorized Assistance Center See the manual for correct installation of the product
- Lifting and handling means
- Hydraulic and electrical connections to our plant and to our utilities
- Masonry, carpentry and foundation works
- Chemical analyses
- Structural calculations
- Anything not expressly mentioned in the offer