



**Diameter 3/4" filters  
Code P0003870B**

**DIFLO**

**VERY IMPORTANT:**

Read this manual carefully before connecting to the mains supply, filling it with water or operating it.  
Failure to comply with these instructions will invalidate the BWT PERMO warranty.



[www.bwtpermo.fr](http://www.bwtpermo.fr)



**For You and Planet Blue.**



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## INSTALLATION

**DIFLO** is installed as a by-pass on the general cold water inlet.

When assembling, make sure you have enough space for changing filtering elements.

**DIFLO** is sensitive to freezing temperatures and prolonged exposure to direct sunlight.

It should be installed out of direct sunlight to avoid the appearance of algae on the sides of the bowl.

Leave a clearance of around 10 centimetres below the filters for maintenance.

In the event of high pressure above 4 bars, install a pressure reducing valve before the filter to limit the effects of a pressure surge.

Maximum permitted pressure is 8 bars static.

### PLEASE NOTE:

If the assembly is not performed as a by-pass, link the upstream and downstream pipes of the filter with a copper wire so as not to break the (potential) earthing.

## TECHNICAL DATA

- Heads and rings: Polypropylene
- Tanks: Styrene acrylonitrile
- Tank seals: EPDM
- Inlet/Outlet: Female 3/4"
- Decompression event
- Maximum pressure: 8 bars
- Maximum temperature: 40°C



## KIT CONTENTS

- A support for filters to be attached to the wall.
- A filter fitted with a 20 µm filtering cartridge, to be install upstream.
- A filter fitted with an active carbon 5 µm filtering cartridge, to be install downstream.
- Two cartridges (20 microns and 5 microns - Active Carbon).
- A set of screws and washers for attaching filters to the bracket.
- A key to remove the filter bowls.
- An assembly and installation kit comprising pipes, connections, seals and taps.

## CONNECTION TO THE PIPING

Connection should only be performed using 3/4" diameter BSP gas connectors. Do not use NPT connectors. For waterproofing, only use TEFLON tape (not supplied) and seals delivered with the connection kit.

### IMPORTANT:

Hemp, silicon, hardening liquids, mastic, etc. must not be used.

## ASSEMBLY INSTRUCTIONS

**DIFLO** only filters water and should not be used on oils, greases, acids, air or gas. The minimum ambient and usage temperature is 1°C. The filter is sensitive to freezing. The maximum temperature should not exceed 40°C.

The seals comprising the **DIFLO** are self-lubricating. Do not use grease.

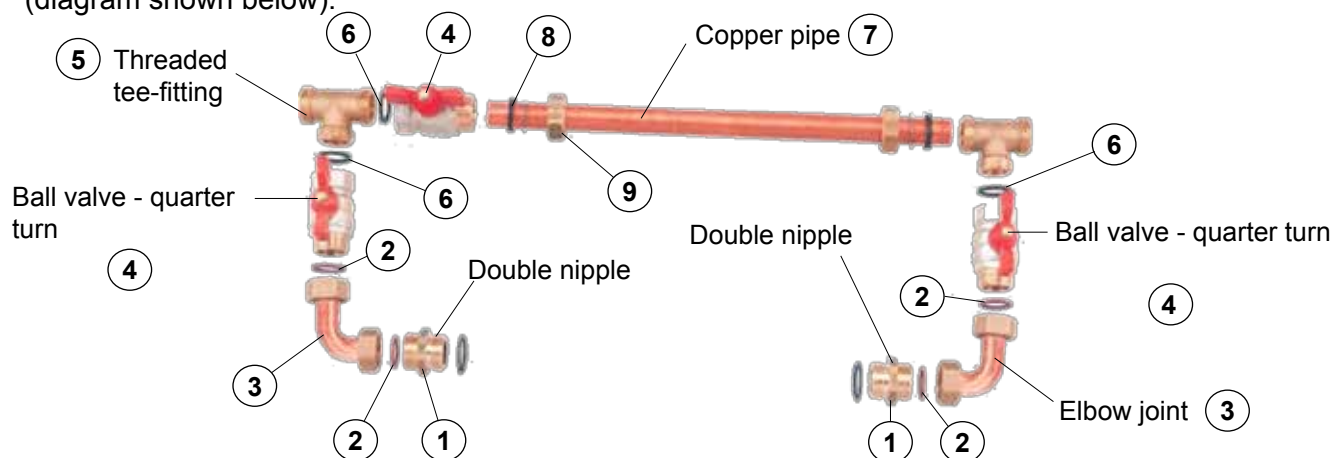
The assembly of a check valve is essential before the hot water tank to protect the **DIFLO**.

## ASSEMBLY

Fit the heads on the attachment bracket using the screws and washers, without tightening too much and respecting the flow directions indicated on the top of the filter heads.

Fit the bracket to the wall using screws and plugs suited to the material.

Then connect the power supply to the water outlet using the connection kit supplied (diagram shown below).



Assemble the connection kit as follows:

Assemble all the connections, tightening by hand.

Screw in by positioning the O-ring of the side of the filter - double nipples (1) on the inlet and outlet of the **DIFLO**.

Then screw an elbow joint (3) on each double nipple (1), inserting a 3/4" fibre seal (2).

Screw the same elbow joint (3) on the ball valves a quarter turn (4) (male side), inserting a 3/4" fibre seal (2). The isolating valves serve to isolate the filters for maintenance.

Insert a rubber seal (6) (thick model) in the female side of the ball valve a quarter turn (4) and screw in a tee-fitting (5).

Then take the copper tube (7), then at each end of the tube, slide in order the nut (9), the ring and its seal (8) as shown on the diagram on the previous page.

Insert a rubber seal (6) (thick model) on the female side of the ball valve a quarter turn (4) for the by-pass and screw in the tee-fitting (5).

Fit the tee-fitting (5) resting on the ball valve a quarter turn (4) situated opposite the by-pass, inserting the rubber seal (6) (thick model).

Insert one end of the copper tube (7) in the quarter turn ball valve of the by-pass (4) and tighten the nut (9) with the ring and the seal (8).

Insert the other end of the copper tube (7) in the tee-fitting (5) then tighten the nut (9) with the ring and the seal (8).

Position the assembly completely straight and tighten all the connections with the key, without forcing them.

#### PLEASE NOTE:

Fit the filter with bowl comprising the 20 micron filter upstream, on the water inlet side.

Fit the filter with bowl fitted with the Active Carbon 5 micron cartridge downstream.

## COMMISSIONING

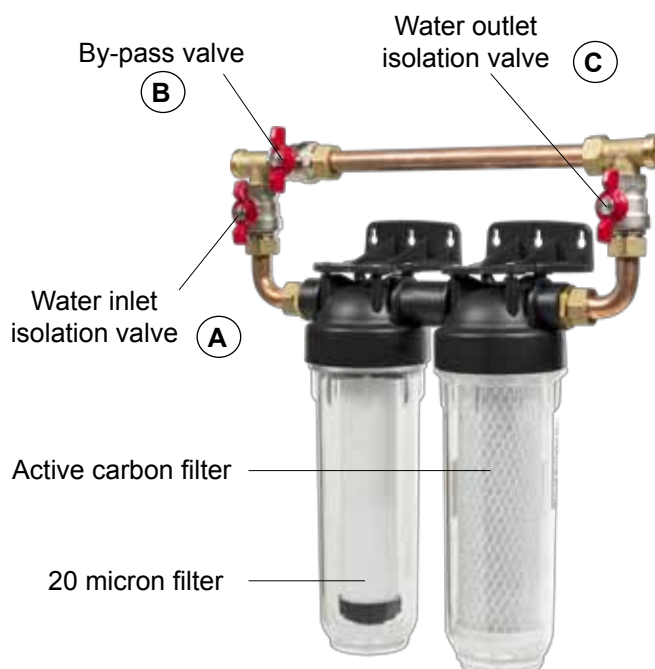
Valves A and C are closed. Valve B is open. Open inlet valve A slowly and bleed the filters of any air they contain using the screws located on top of the filters.

Close the bleed screws once the air has been purged.

Check the water-tightness of the assembly.

Slowly open valve C then close the by-pass (valve B), if this assembly option was chosen.

The **DIFLO** filter is in working order.



## MAINTENANCE

The two filtering cartridges should be changed periodically. Water is more or less sealing, depending on the regions and the installations. You are strongly recommended to systematically change the cartridges every 6 months.

To do this, open the by-pass valve (valve B), then isolate the filter by closing the upstream and downstream valves. Unscrew a bleed screw to lower the pressure. Then unscrew the filter bowls and remove the used cartridges. Replace the cartridges and start up the **DIFLO**, as detailed above (assembly).





**NOTE:** Do not use detergent, alcohol or household cleaning agents to clean your **DIFLO**. Do not use grease on the seals or the bowls.

## WARRANTY

Some components are subject to normal wear and tear due to the operation of the equipment. These components, also called operating and/or wearing parts must be regularly replaced by a person qualified and authorised to perform this operation.

The warranty does not apply in the event of usage which fails to comply with our instructions, or in the event of an impact event. It does not apply to consumables and wearing parts such as filtering cartridges, seals and the sealing ring.

## AVAILABLE ACCESSORIES

<p>Set of 2 x 20 µm sleeves and 1 x Active Carbon cartridge code P0003875A</p> 	<p>Set of 3 x Active Carbon cartridges code P0003703A</p> 
<p>Disassembly key code P0003310</p> 	<p>Filter bowl seal code P0003359</p> 

## NOTES

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# The BWT group

Best Water Technology Group was founded in 1990, and is now one of the leading European water technology companies. It has 70 subsidiaries and affiliated companies, with total staff of over 2800, although the BWT network also comprises thousands of partner companies, service providers, installers, planners, architects and hygiene specialists. The staff in the Research and Development department work on new processes and equipment, using state of the art techniques, with the aim of developing new products that are both environmentally-friendly and cost-effective. BWT is particularly committed to the reduction of energy consumption and CO2 emissions. BWT revolutionary products are present, and have already more than proved their effectiveness, in almost every field where water is involved: whether at the entry of a water pipe into a building, the "Point of Entry", or where water is finally drawn, the "Point of Use". Whether this is for the treatment of drinking water, mineral water or demineralised water for pharmaceutical applications, swimming pools, heating and process water, water for boilers and cooling water, and even water for air conditioning. A multitude of innovations which ensure maximum safety,

hygiene and health protection for our customers during their daily contacts with water, that precious elixir of life. Amongst these innovations, in particular we find SEPTRON®, the world's first EDI (electro-deionisation) module, which is fitted with spiral winding, the MDA process (activation of manganese oxide), to effectively eliminate manganese, total AQA bipolar technology, which offers protection against calcium carbonate, without the addition of chemicals, SANISAL, the world's first regenerating salt for water softening installations, which simultaneously disinfects the water, and the revolutionary new Mg2+ technology, which gives both filtered water, along with tea and coffee, a better taste. With its unique high yield membranes for fuel cells and batteries, BWT offers a cleaner, more sustainable energy solution in the 21st century.

BWT – For You and Planet Blue: our mission is to fulfil the environmental, economic and social responsibility to supply our customers with the best water treatment products, systems, technologies and services, and so contribute to the most effective protection of the global resources of our blue planet.

