62252 - TF1 Omega Filter 28mm With Valves

Designed for installation in small or restricted access areas, this high performance sealed, in- line system filter is easy to install and fast and convenient to clean. There is no need to dismantle the unit or replace o' rings during servicing, saving time on-site. Manufactured from high quality, nickel plated, brass, the TF1 Omega Filter uses Hydronic Particle Separation (HPS) technology and magnetic filtration to remove magnetic and non magnetic debris from the system. The quality and reliability of this award-winning filter is supported by a market- leading 25 year warranty.

- High capacity and compact design. Ideal for use in restricted spaces
- Easy to install – fits on horizontal and vertical pipework in both flow directions. The filter can operate at an angle of 45°
- Unique action, removes magnetic and non-magnetic contaminants from system water. Fast and easy to clean without dismantling the unit
- Smart, tough, forged brass construction (no hidden porosity) with nickel plating
- Unique manifold with double radial seals and multiple orientation capabilities
- Powerful neodymium magnet assembly with threaded magnet cap

Additional Info

The TF1 Omega Filter is constructed from a high strength engineering grade brass, suitable for heating and cooling system applications. The brass components are nickel-plated to increase durability and resistance, meaning the filter is compatible with a range of glycols and additives used in central heating systems.

The TF1 Omega Filter has been designed to ensure there is a minimal pressure loss, whilst also maintaining a high collection efficiency. The internal HPS, magnet assembly and area of low flow have all been engineered to allow the filter to capture a range of system contaminates, whilst ensuring this does not impact the rest of the heating system.

The TF1 Omega Filter utilises a range of high-quality component parts that ensure the filter offers the best possible performance. The magnet is manufactured using a premium grade of neodymium, enabling a high-efficiency capture rate, combined with the stainless-steel hydronic particle separator, which enables the continued and consistent filtration of a range of system contaminates.

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Application

Designed to be installed on domestic heating systems on the relevant pipework size. The TF1 Omega Filter can be easily fitted onto either horizontal or vertical pipework in both flow directions. The TF1 Omega Filter is designed to protect the boiler from the damaging effects of circulating corrosion debris, which has collected in the system as a result of a chemical reaction when water comes into contact with mixed metals used within a heating and cooling system. The TF1 Omega Filter should be fitted on the return to the boiler and can be installed at up to 45º from the vertical position.

Packaging, Handling & Safety

As with all magnetic products, if you have an implanted cardiac device extra caution should always be taken when handling any magnetic filter.
Individually packaged, with instructions included. No special storage requirements.

Specification

Filter Body – Forged brass (EN 12165-CW617N-DW), Nickel plated
Manifold – Forged brass (EN 12165-CW617N-DW), Nickel plated
Magnet – Neodymium
Hydronic Particle Separator – Stainless Steel
Circlip – Stainless Steel
Drain Valve – Nickel plated brass
Isolation Valves (if applicable) - Nickel plated brass
Seals & Washers – EPDM

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Performance

Suitable Fluids:
Water
Inhibited Glycol Solutions
Fernox Chemical Range / System Additives

Maximum percentage of Glycol: 50%
Maximum Operating Pressure: 10 bar
Maximum Flow Rate: 50 L/min / 13.2 GPM
Maximum Working Temperature: 100ºC
Capture Rate: Up to 100% of system contaminates

Operating Principle - Contaminated water enters the filter via the manifold, carrying a variety of system debris and particulate matter held in suspension. This debris, including ferrous impurities such as Magnetite, move through the manifold and into the main body of the filter.
Water is forced down towards the bottom of the filter due to the engineered flow characteristics created within the filter by the Hydronic Particle Separator (HPS). The HPS action helps to disrupt any dirt particles held in suspension by the water, as well as direct these particles towards an engineered area of low flow at the base of the filter.
The dynamic flow of the water within the filter also allows ferrous impurities to be captured by the high-powered magnet assembly.
To exit the filter, water must pass over the magnet sheath and around the HPS, then out of the manifold. In this way, system debris has difficulty escaping the unit, and is either trapped in the area of low flow, or captured by the powerful magnet, meaning clean water exits the filter.
Any dirt collected within the filter can then be discharged by removing the magnet from the sheath and opening the drain valve. This procedure is described in the cleaning guide and does not require disassembling the filter.

Volumetrics & Barcodes

Barcode EAN	5014551622524	OCU Barcode	50145510018000
Single Unit Weight (kg)	2.58	Outer Carton Weight (kg)	11.02
Single Unit Height (mm)	80	Outer Carton Height (mm)	190
Single Unit Width (mm)	245	Outer Carton Width (mm)	245
Single Unit Depth (mm)	145	Outer Carton Depth (mm)	300

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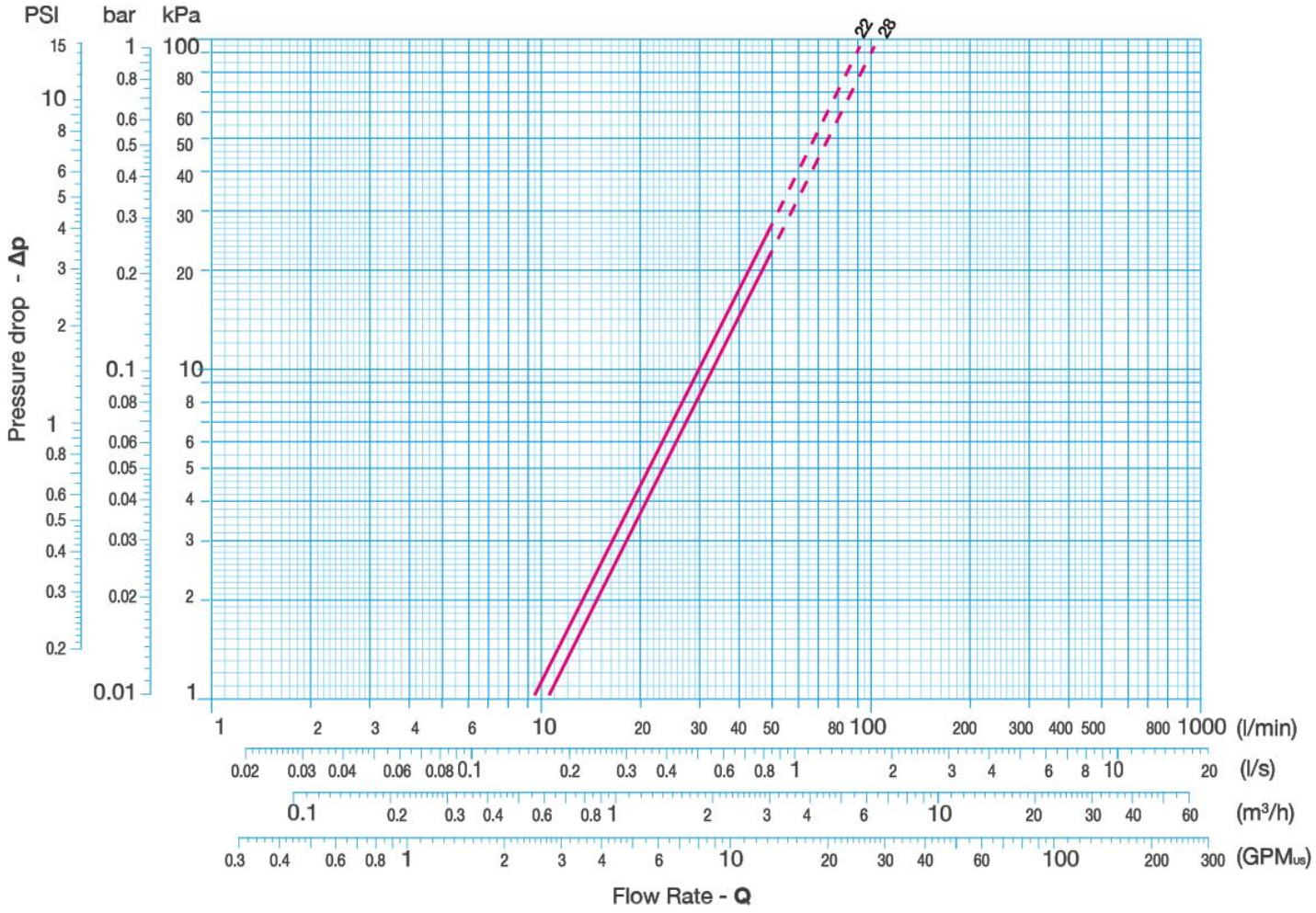
Graph



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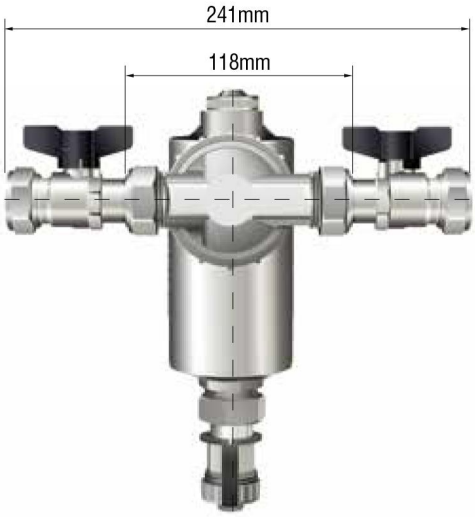
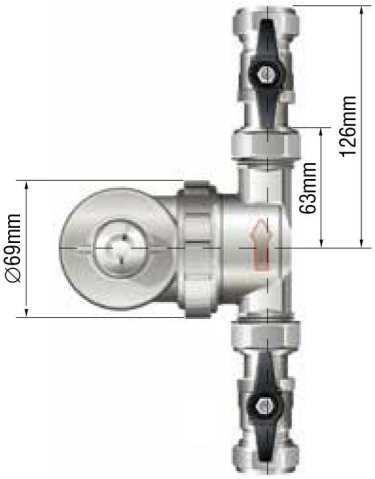
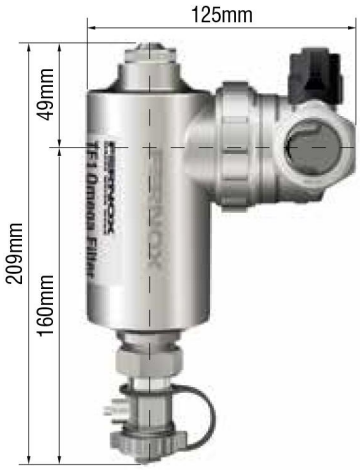
Dimensions Diagram

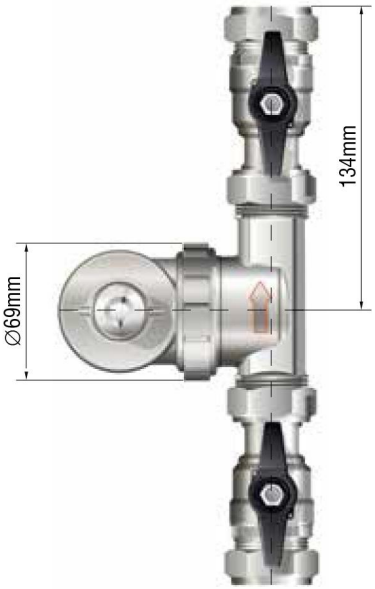
TF1 Omega Filter 22mm





TF1 Omega Filter 28mm





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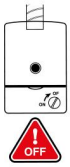
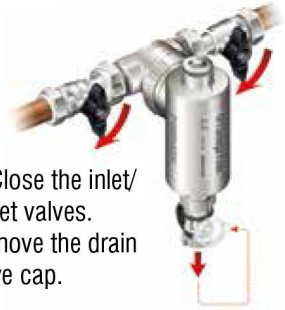
Cleaning Diagram

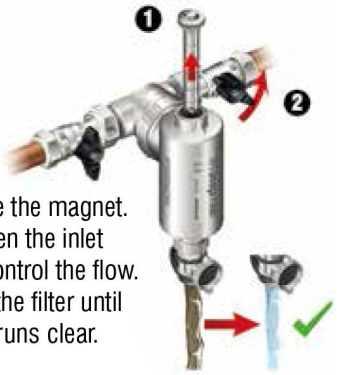


1. Switch off the boiler.

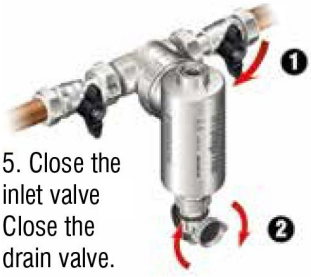


2. Close the inlet/ outlet valves. Remove the drain valve cap.

3. Open the drain valve.



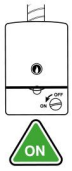
4. Remove the magnet. Slowly open the inlet valve to control the flow. Flush out the filter until the water runs clear.



5. Close the inlet valve Close the drain valve.

6. Replace the drain valve cap. Reinsert the magnet.

7. Open the inlet/ outlet valves.



8. Restart the boiler.

Ensure that the magnet sheath remains clean and dry.

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