TF1 Sigma Filter 28mm With Valves
62417

- Pressure tested, sealed unit
- Unique action, capturing a range of magnetic and non-magnetic debris
- Durable and robust construction, made from a high quality glass reinforced engineering polymer
- Fast and easy to clean via drain valve
- Easy to install – fits on horizontal and vertical pipework orientation
- Will not block or restrict flow

A high-performance, magnetic in-line system filter, the TF1 Sigma Filter is ideal for restricted spaces as it is capable of multiple orientations. This simple to install, composite plastic filter fits onto vertical and horizontal pipework, and works by allowing hydrocyclonic action to deliver contaminants to the unit's powerful magnet assembly for safe removal.

Additional Information

The TF1 Sigma Filter is constructed from a high strength engineering polymer, suitable for heating and cooling system applications. The glass reinforced polymer has good hydrolysis resistance, as well as high resistance to strain and abrasion. The polymer is compatible with glycols and additives used in central heating systems.

The TF1 Sigma Filter has been designed to ensure there is minimal pressure loss in addition to 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 not impacting the rest of the heating system.

The TF1 Sigma Filter utilises a range of high-quality component parts that ensure the filter offers optimum performance. All valves are designed to allow users to operate them easily by hand, whilst also providing a secure connection to the system and a service point. The magnet is manufactured using a premium grade of neodymium, enabling a high efficiency capture rate, as well as a robust filtration medium that will ensure a continued and consistent level of collection.

Application

The TF1 Sigma Filter can be installed on vertical or horizontal pipework, in accordance with the flow direction indicated by the arrow on the manifold. Ideally the TF1 Sigma Filter should be fitted on the return to the boiler and can be installed at up to 45º from the vertical position if space or head height is restricted. The TF1 Sigma 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.

Package, 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.

Performance

Suitable Fluids:
Water
Inhibited Glycol Solutions
Fernox Chemical Range / System Additives
Maximum Percentage of Glycol - 50%

Maximum Working Pressure - 50 L/min
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, moves 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 shown in the cleaning guide and does not require system shutdown or the filter to be disassembled.

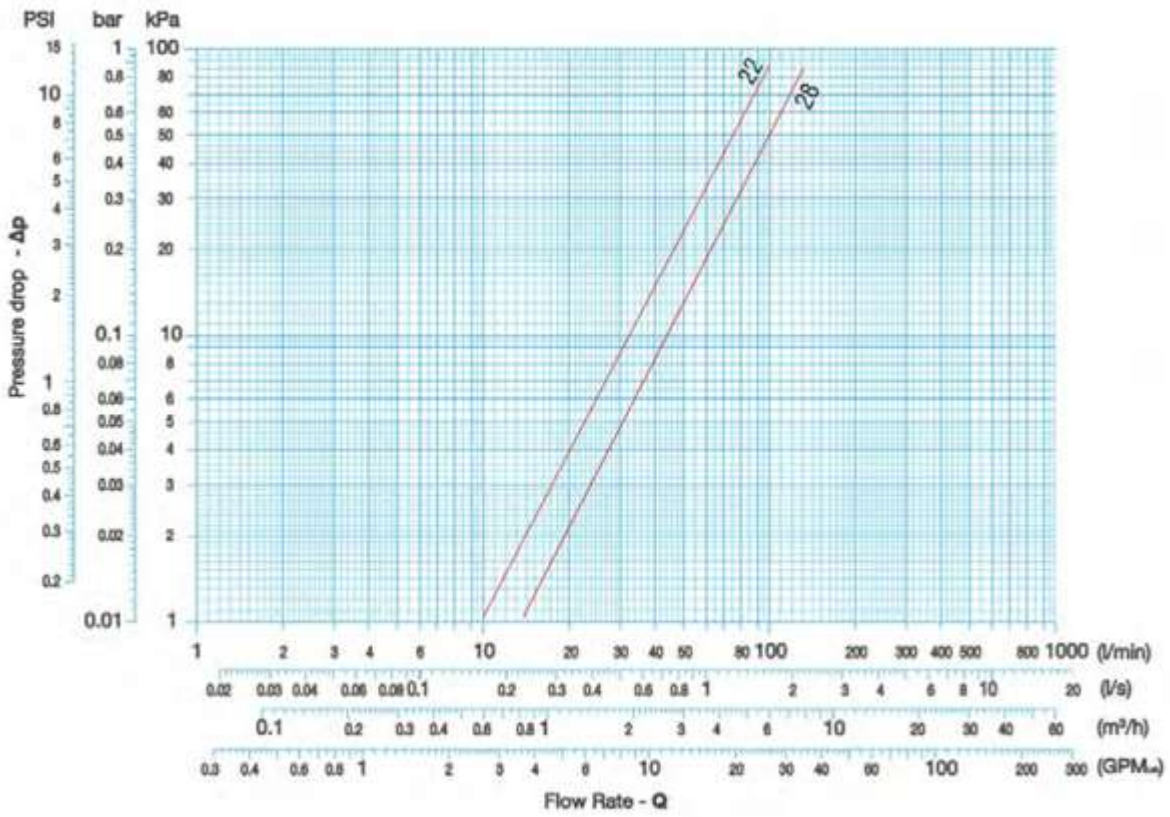
Specification

Filter Body – Glass filled, engineering polymer
Manifold – Glassed filled engineering polymer
Drain Valve – Nickel plated brass
Isolation Valves – Nickel plated brass
Circlip – Stainless Steel
Seals & Washers – EPDM

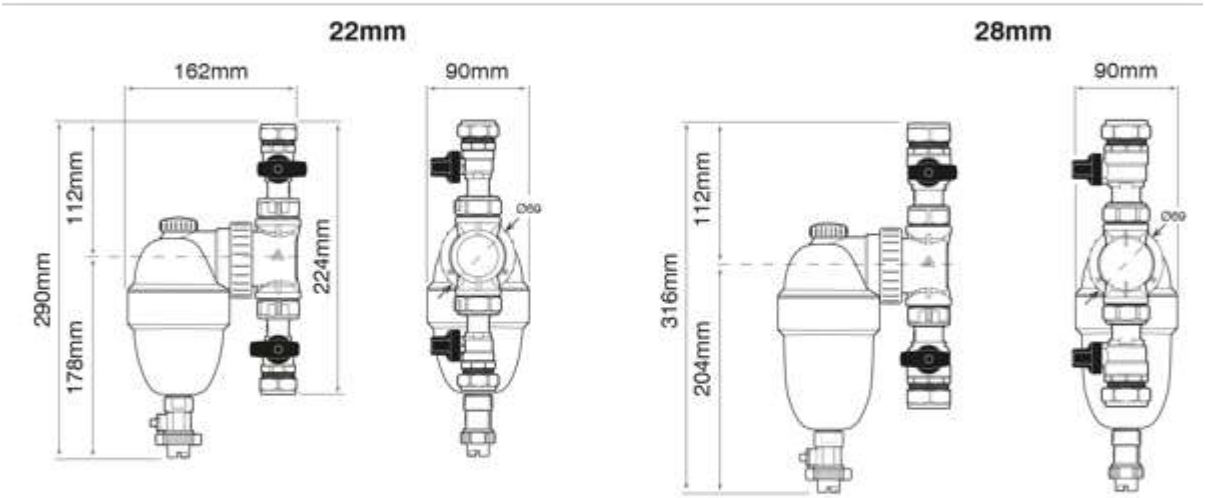
Single Item	
Height mm	112
Width mm	346
Depth mm	179
Weight kg	1.794
Barcode EAN	5014551624177

Outer Carton	
Outer Height mm	241
Outer Width mm	178
Outer Depth mm	352
Outer Weight kg	7.470
Transit Type	BLOCK
OCU Barcode	50145510017256

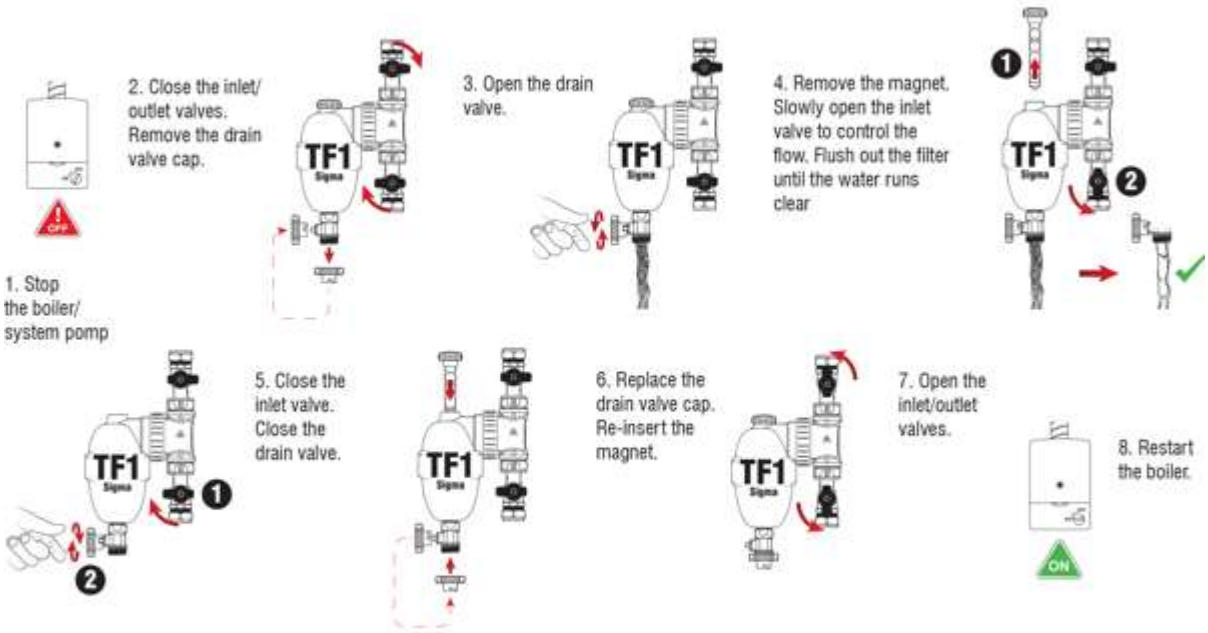
Graph



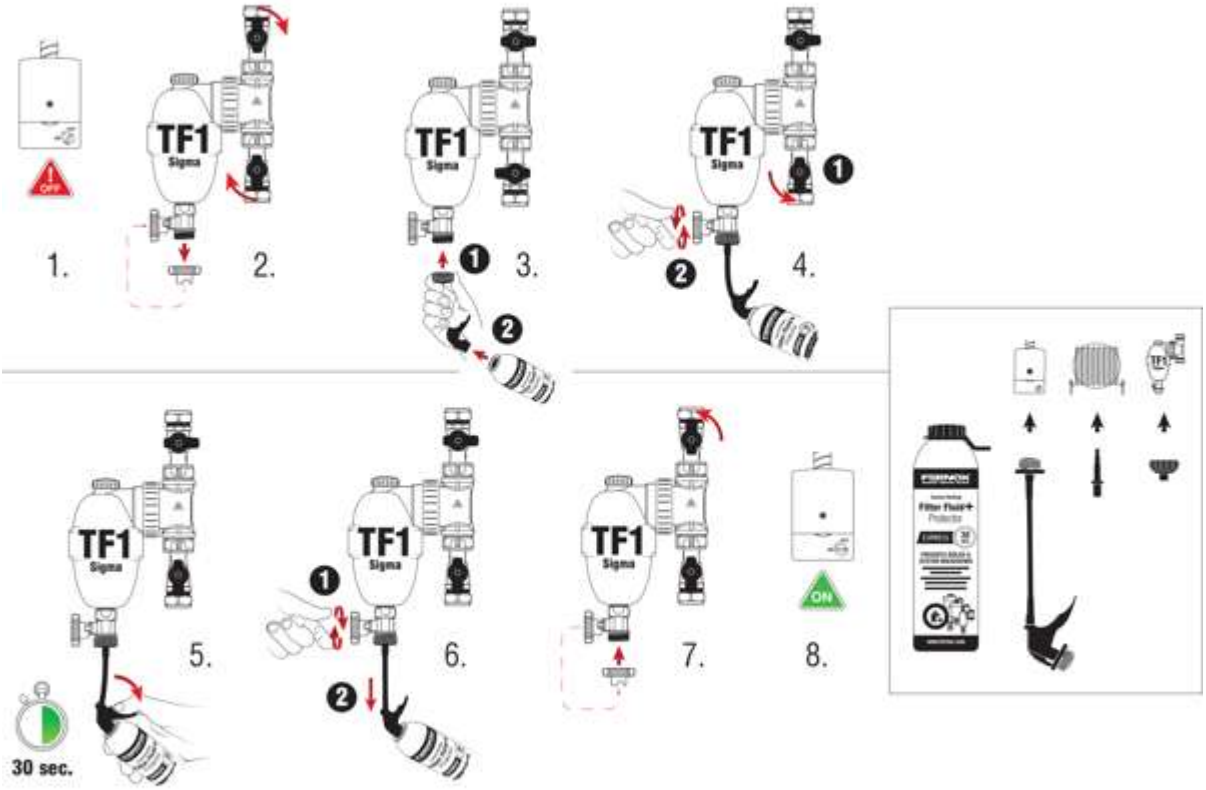
Dimensions Diagram



Cleaning Diagram



Dosing Diagram



Last modification 18-02-2021 (d/m/y)