

# Underground Water Tank Installation

***Please note that we provide installation guidelines only. We strongly advise that you contact a local builder who will be able to assess your soil conditions and advise you accordingly.***

## Excavation

- Allow 100-150mm all round the tank.
- Use suitable planking and strutting as necessary.
- Dig out trenches for pipe work and inline filters.

## The Base

- The tank must be installed on a firm, smooth, level concrete base built in accordance with good building standards and engineering principles.
- The depth of concrete used must be appropriate to the size of the tank and soil conditions.



## Installing the Water Tank

- Once the concrete base has dried, lower the tank into the hole. Make sure that the tank is sitting flat and true before filling it with water.
- If you have been supplied with a neck ring, this should be cut to length to finish flush with the ground. If the neck ring is loose, apply some silicon seal. *Please note that the tank lid is designed to withstand foot traffic only. The neck ring must not finish any more than 500mm below ground level.*
- To stop the tank from rising up out of the ground when the water table rises, we recommend that you backfill a minimum of 450-460mm deep around the tank with concrete. *If you live in a high water table area or in clay soil conditions, then we recommend that you completely encase the tank in concrete. If you are unsure, contact your local builder.*
- Once the concrete has set, backfill any remaining space with pea shingle and surround materials.
- Superimposed loads should NOT be allowed within the protection area which is a minimum 2m from the outer edge of the tank. If this cannot be followed a reinforced concrete slab must be designed and installed by a qualified civil or structural engineer so that no loads are transmitted directly on to the tank.

## Aftercare

Most underground water tanks do not need aftercare immediately. If the water is undisturbed for a period of time, it may become stagnant. Over years of use the tank may require cleaning, which can be done using a mop.

## Filter Box Installation

- The filter box can be installed anywhere along the inlet pipe *between the tank and the down pipe*. Ensure you can gain access to the filter for cleaning. *Please note that the filter box lid is designed to withstand foot traffic only.*
- Run your pipe work, ensuring that the inlet from the filter has an adequate drop to ensure water flow. A fall of 25mm every meter is recommended.
- Ensure the inlet pipe from the down pipe, is fitted to the 4" connector on the filter box with the 90° elbow on it.
- Back fill the area around the filter box with pea shingle.



## Fitting a Pipe to Underground Water Tanks

- Drill out the hole for the pipe using a 108mm hole cutting saw.
- Cut the 110mm pipe square, using a fine tooth saw.
- Chamfer the end of the pipe, using a medium file or rasp.
- Remove dust and filings from the end of the pipe
- Push the pipe into the hole drilled in the tank. The end of the pipe can be lubricated

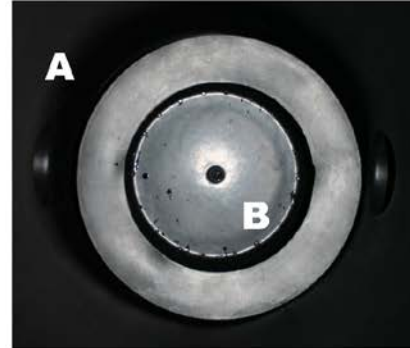
# UNDERGROUND FILTER - SET-UP

- 1x **A** : Filter chamber
- 1x **B** : Filter Basket
- 1x **C** : 90° elbow calmed inlet
- 1x **D** : Mini filter basket
- 1x **E** : Lid



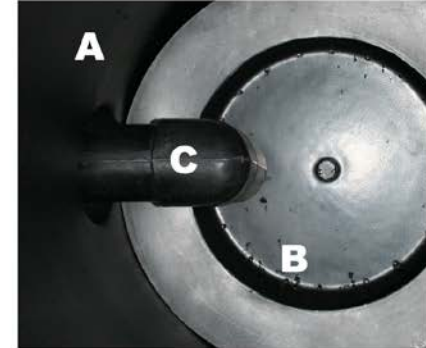
## Step 1

Lower the basket filter into the chamber



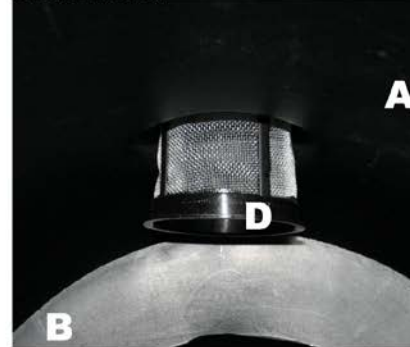
## Step 2

Insert the calmed inlet elbow in to the smaller of the two holes.



## Step 3

Insert the mini basket filter into outlet hole.



## Step 4

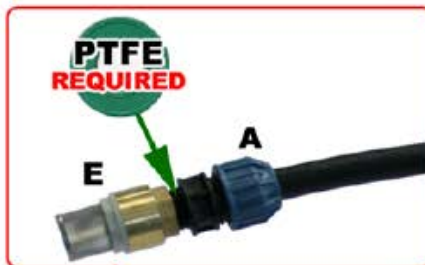
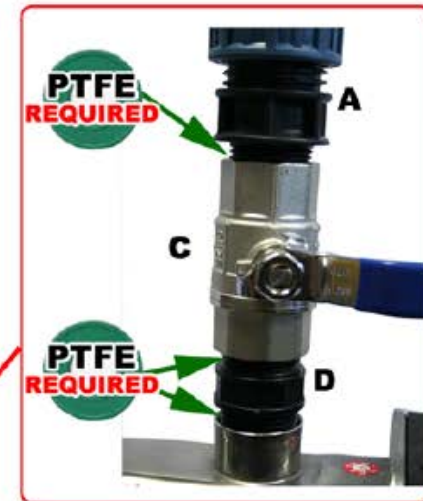
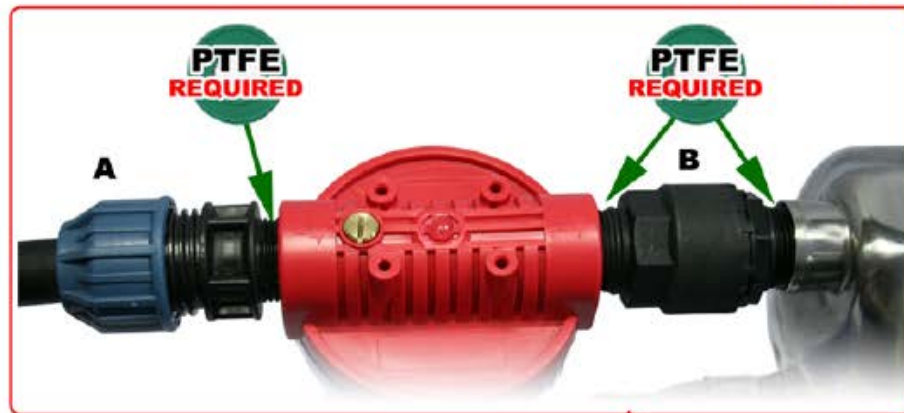
Pull the mini basket filter through to expose the filter.



Once all the steps above are complete, place the lid (E) on the filter chamber.

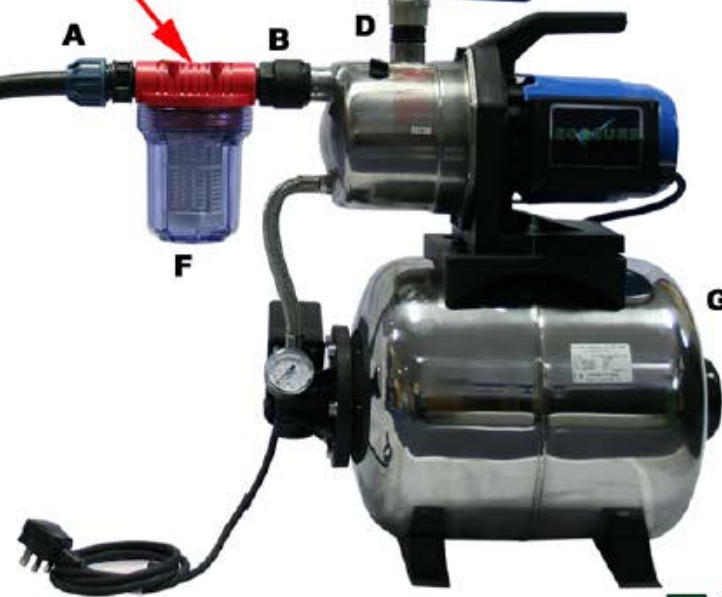


# PUMP SETUP



To Underground Water Tank

To House



- A x3:** 1" mbsp x25mm compression fitting
- B x1:** Non-Return valve
- C x1:** 1" bsp Isolator valve
- D x1:** 1" bsp hex nipple
- E x1:** Foot valve with strainer
- F x1:** Inline Filter
- G x1:** Water Pump

