



# BOBIL VANS PLUMBING KITS

## INSTALLATION INSTRUCTIONS





## Important Safety Instructions! Please save these instructions!

This manual contains important safety, installation, and operating instructions for the Bobil Plumbing Kit.

Bobil Vans accepts no liability for damage by:

- Incorrect assembly.
- Damage resulting from mechanical influences external factors beyond Bobil Vans' control.
- Modification or tampering with the unit/system without expressed permission from the manufacturer.
- Used for purposes other than described in this manual.

### General safety

- Firmly secure all hoses and jubilee clips.
- These kits deal with hot water that can scald. Please take care when installing and testing the system.
- Do not use the product if physically damaged or with visibly perished hoses.

### Installation

- Ensure pipes are attached securely.
- Run pipes neatly, using extra pipe clips to hold in place if needed.
- Ensure pipes do not touch or rub against anything sharp, and this can wear out the pipework.
- If necessary, verify installation with a qualified plumber or installer.

Due to the nature of DIY campervan plumbing system, we cannot account for all install variations and eventualities in this instruction manual. We provide example diagrams to demonstrate how to install the kit. If you install your system in a way which deviates from these instructions without contacting us beforehand, then we cannot accept fault for any issues that might occur due to incorrect assembly or use, and as such, broken parts would not be covered under warranty.

If you have any questions about your installation, please email us at [info@bobilvans.co.uk](mailto:info@bobilvans.co.uk)



## The Basics

Thank you for purchasing this plumbing kit! In this kit you will receive everything you need to connect a full water system from diaphragm pump to outlet.

Whilst we include a lot of pipe and plumbing parts in this kit, it will NOT include any of the following:

- Fresh water tank filling kits or pipework.
- Sink taps.
- ANY waste water plumbing pipework or connections.
- Fresh or grey water tanks.
- Any hot water storage tanks or water heating elements.
- Water level gauges.

We do sell kits for a lot of these on our website under Plumbing and Fittings.

## What comes in the box?

**Please unpack all bags/boxes to ensure you have everything before starting installation.**

### Kitchen Tap Kit Contents

- Seaflo 20 or 30 PSI Pump + Filter
- Bobil Accumulator
- John Guest 12mm Pushfit Pipe (6m blue, 4m red)
- Pipe Inserts for hot water pipe (x2)
- 1/2" Female to JG Fitting (x2)
- 1/2" Male to JG Fitting (x3)
- Y Splitter (x1) & T Splitter (x2)
- John Guest Stop Valve (x2)
- John Guest 12mm to 1/2" Barb (x1)
- 1/2" Blue Flexi Hose (10cm)
- Hose clamps (x2)
- Pipe clips (x 10)

### Shower Kit Contents

- Shurflo 20 or 30 PSI Pump + Filter
- Bobil Accumulator
- John Guest 12mm Pushfit pipe (10m blue, 6m red)
- Pipe Inserts for hot water pipe (x6)
- 1/2" Female to JG Fitting (x2)
- 1/2" Male to JG Fitting (x3)
- T Splitter (x4) + Y Splitter (x1)
- John Guest Stop Valve (x2)
- John Guest 12mm to 1/2" Barb (x1)
- 1/2" Blue Flexi Hose (10cm)
- Hose clamps (x2)
- Shower Mixer Easy Fit Kit
- 15mm to 12mm stem Reducer (x2)
- 15mm Elbows (x2)
- 15mm Pipe (2 x 15cm)
- 15mm pipe inserts (x4)
- Pipe clips (x 16)



### Electric/Calorifier Addon:

Ordering the kit for a Bobil Electric, Calorifier or Hydronic you will also receive the correct sized expansion tank, along with the required fittings and Tee piece to add this expansion tank into your hot line.

- T splitter (x1)
- Pipe Inserts (x5)
- ½" Female to JG fitting (x1) to connect to the expansion tank
- One male fitting will also be substituted for a female.

### Thermostatic Mixer Addon:

If you have ordered the thermostatic mixer addon, you will also receive:

- Thermostatic valve
- 1/2" Female to JG Fittings (x3)
- Pipe Inserts (x6)
- T Splitter (x2)
- John Guest Stop Valve (x1)

### Air Hybrid/Calorifier Hybrid Addon:

You won't receive anything extra if ordering for a Hybrid/Calorifier Hybrid kit.

If you selected "Other", and this is for another hot water system:

You will receive an expansion tank but no fittings for your tank.

**Thank you for buying our products!**

Small businesses like ours only exist because of the support of our customers. We appreciate you purchasing from us, and hope that you have a great experience.

If you have any installation questions or queries then just get in touch, we're here to help.  
Contact us at [info@bobilvans.co.uk](mailto:info@bobilvans.co.uk) or on the phone at +44 1275 261074



## John Guest Plumbing Information

John Guest 12mm pushfit pipe is a simple system - cut the pipe to length, and push into place. John Guest pipe is flexible as well, to a degree, and we recommend using this flexibility, rather than adding additional restrictions like elbows unless necessary.

- Ensure pipes are cut square, without any burrs, and are pushed firmly in.
- If you need to demount the pipe, push the collar in and pull the pipe out.
- Push the pipe inserts into the end of each hot pipe (they are not needed for cold).
- Each kit contains a Y splitter, for you to use where you find it most useful.
- To connect your cold water tank to the pump, we don't recommend using JG pipe. Instead, use fully flexible hose which we sell on our website.
- The 12mm to 1/2" barb piece inserts into the T-Piece, and the 10cm of fully flexible pipe connects to the pump, using the hose clamps to tighten everything.
- When installing the pump, check the flow direction to ensure this is correct.

## Thermostatic Mixer Addon

If you ordered the thermostatic mixer addon, add into the hot line as shown. The dial on the top allows you to choose the temperature of the water coming out the valve. If you have young children, we recommend a temperature no higher than 40C.

Our example diagrams have the valve fitted only on the tap hot water line, as the shower is thermostatic, but you can change the location to suit your personal circumstance.

## Pump Wiring

For the Seaflo pumps, please follow the included instructions in the Seaflo box for wiring advice. We do recommend wiring an on/off switch on the powerline to the pump for you to be able to turn the pump on and off. These pumps, whilst reasonably quiet, are not silent. Installing them in a cupboard or under a bench is recommended as when in use they will vibrate and make noise.

## Accumulator

The accumulator tank is set at 15psi. Normally, this is ok however you can reduce the pressure if the flow is still not smooth. 3psi above the pump start-up pressure is recommended (which is normally around 65% of the shut off pressure printed on the pump), but it is not an exact science, so trial and error is encouraged.



## Shower Mixer Install

To see how to use the shower mixer easy fit kits, please watch this video. The 12mm reducer will push into the 15mm elbow which you can fit on the back of your easy fix kit. To fit the mixer with the pipe inserts, you may need to push the pipe through the olive before tightening the olive.



## Plumbing Diagram Examples

The following pages will show some plumbing layout examples for the respective kits, please find the one matching the kit you have bought to see how we recommend installing it.

If you ordered the kit for our one of our Electric/Calorifier or Hydronic kits, then you can install the expansion tank received in the kit on the diagram as shown. This T's into the hot line, BEFORE the thermostatic valve (if you have one).

For our Hybrid and Calorifier Hybrid kits, no expansion tank is needed as this is included within the plumbing of these systems already.

If you have a different hot water system, we have supplied an expansion tank for you to fit on the hot line.

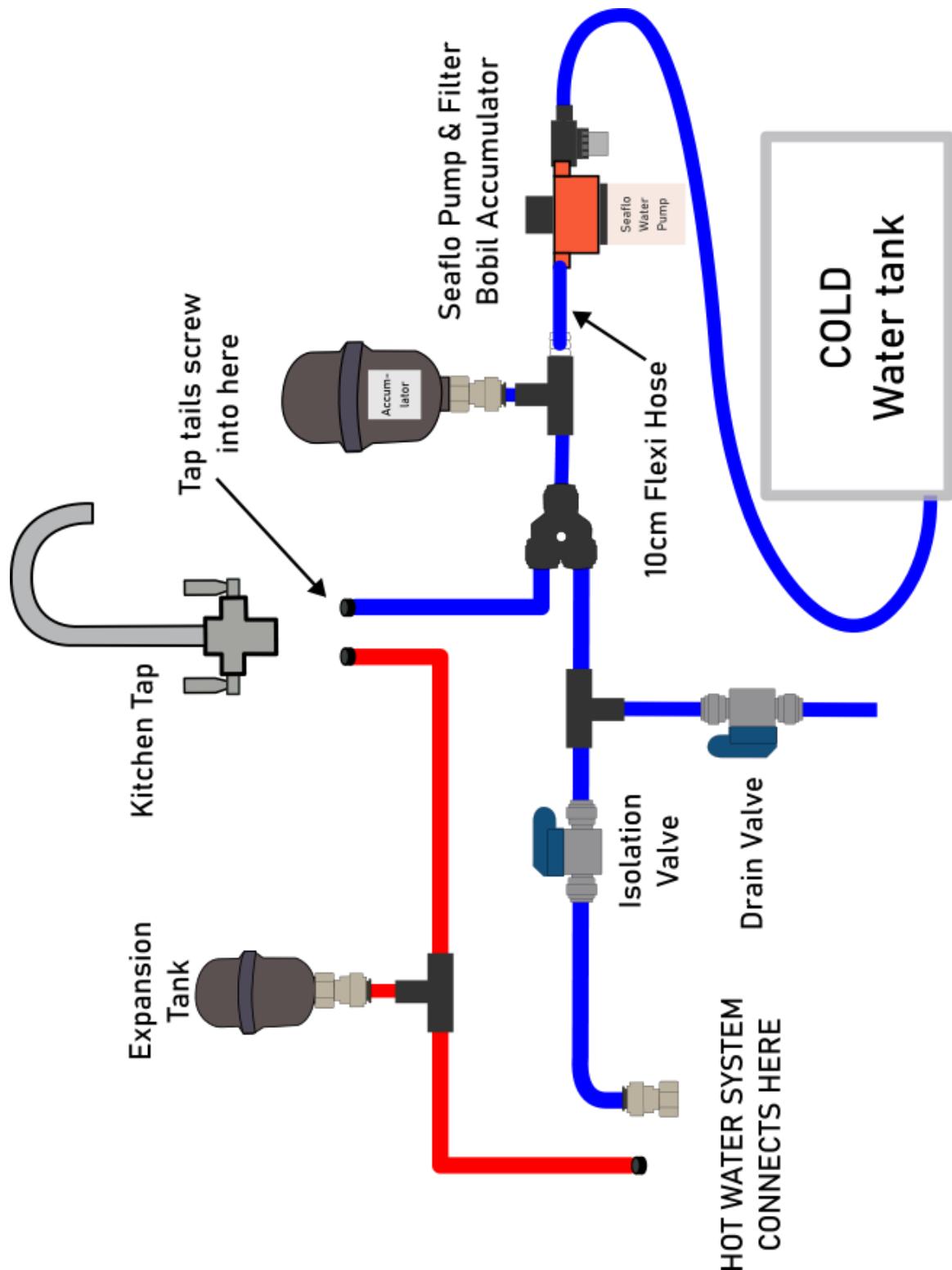
You can adjust the layout as you see fit for your conversion.

If you have any questions about your installation,

Please email us at [info@bobilvans.co.uk](mailto:info@bobilvans.co.uk)

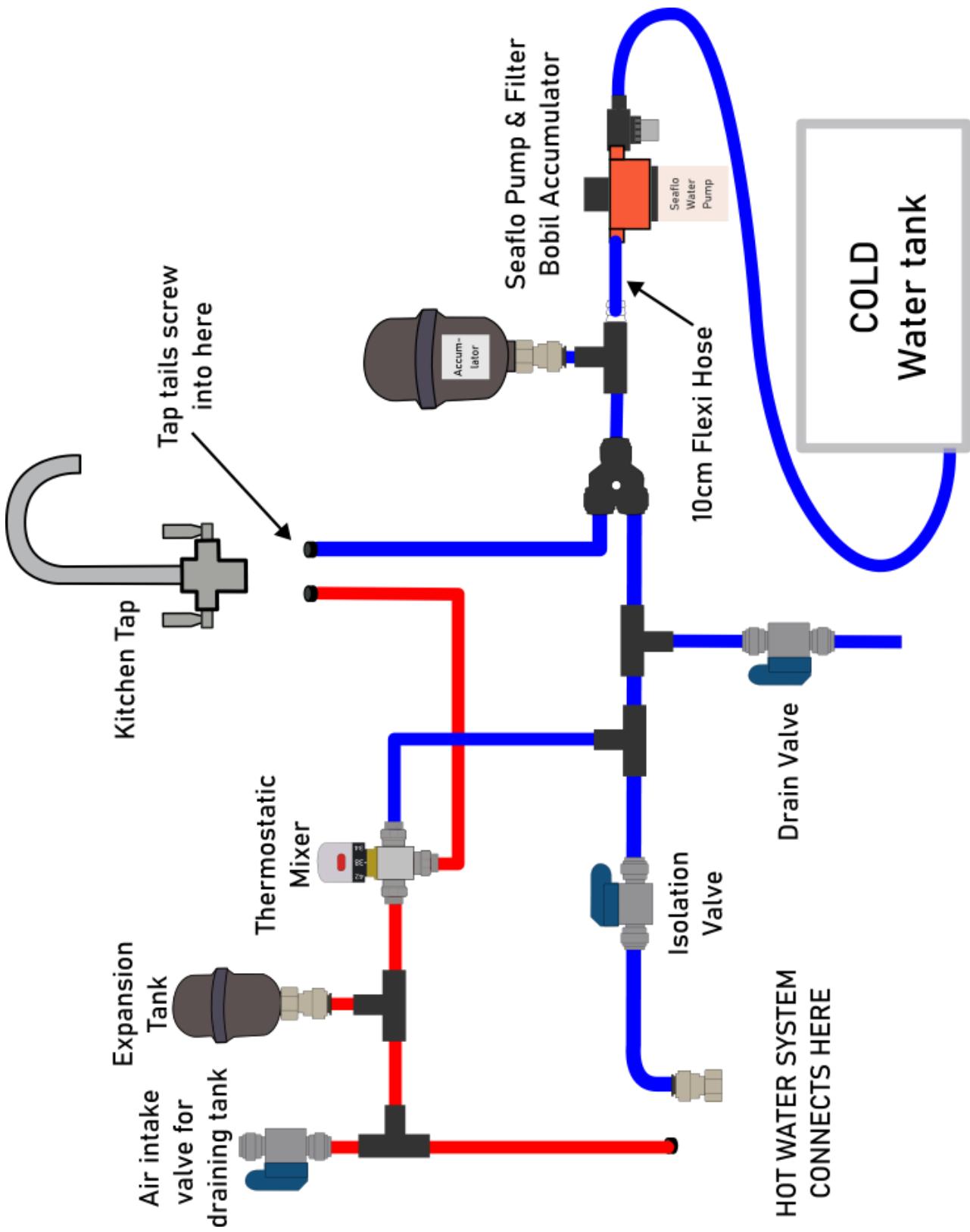


## Tap Only Layout (example)



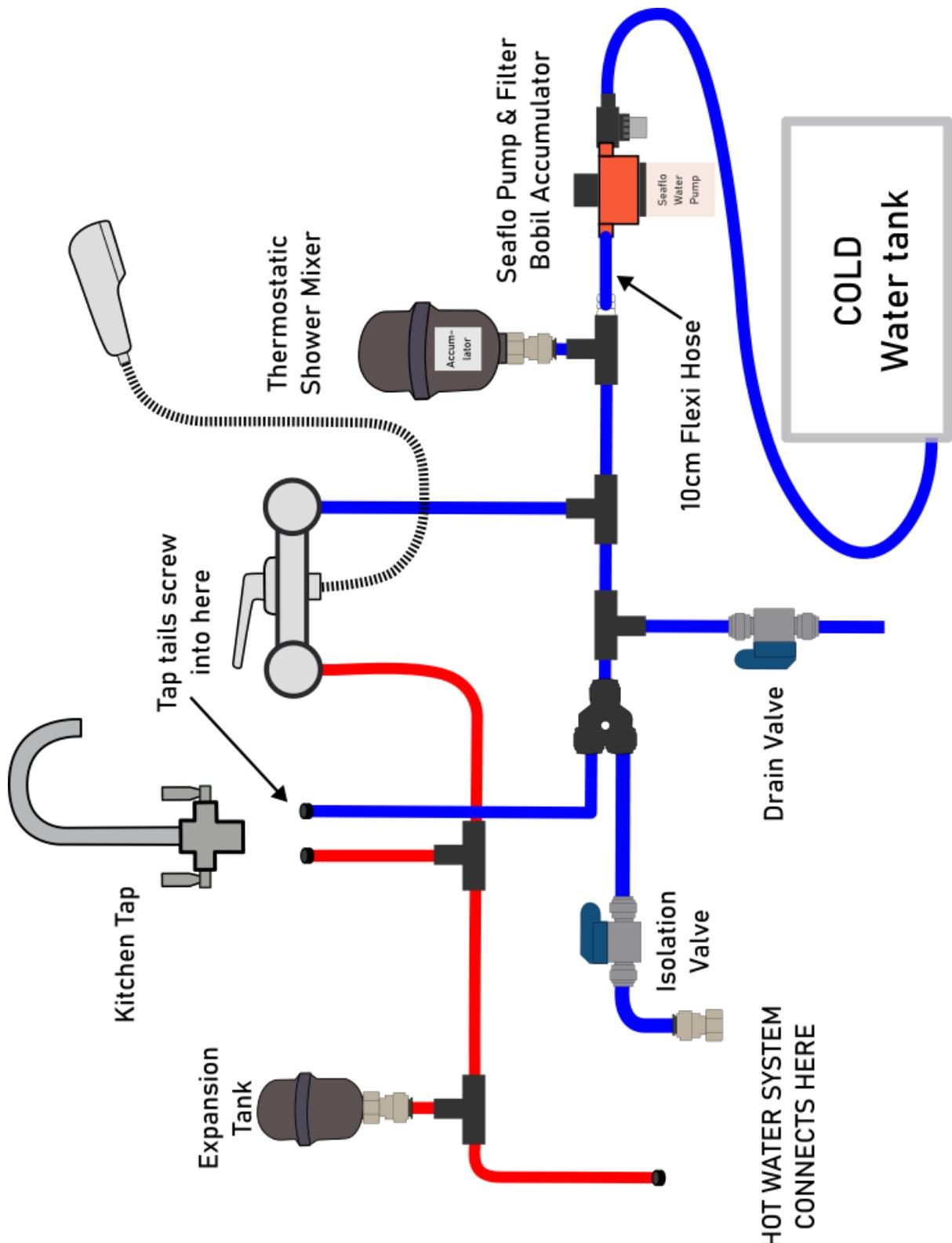


## Tap Only Layout + Thermostatic Mixer Valve (example)



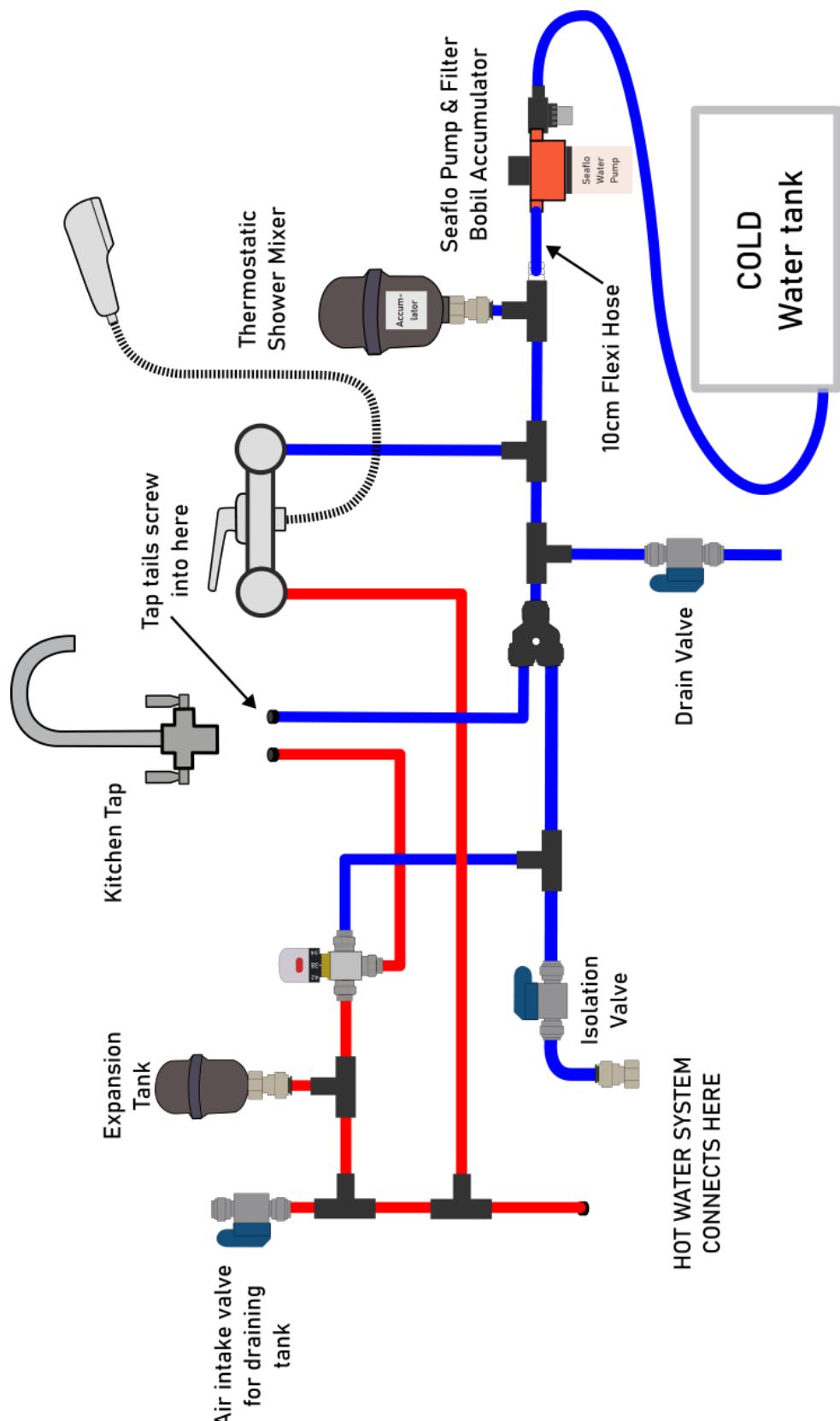


## Shower & Tap Layout (example)





## Shower & Tap Layout + Thermostatic Mixer Valve (example)





## Commissioning the system

Once you have all your pipework connected up, to commission your system for the first time, follow these steps.

1. Close all drain valves.
2. Ensure your cold tank has at least the volume of your hot water tank, plus 10L in it.
3. Turn on the cold water pump.
4. Let the cold water pipes pressurise until the pump stops. Check for any leaks.
5. Open the cold tap in your sink, and your shower, let them run for 30 seconds, and check again for any leaks.
6. Turn off your sink and/or shower cold taps and turn on the hot taps. Then open the isolation valve that leads to your hot water tank.
7. Here, the pump will run for some time as your hot water tank fills up.
8. You should see water coming out of the hot tap in 1-2 minutes. Close the hot tap and wait for the water pump to stop pumping. Your system is now pressurised. Check for leaks.
9. Turn on your hot water heater, allow water to be heated to temperature, and test the hot water line for leaks again.
10. Enjoy your hot water system!

## If You Discover a Leak

If during your commissioning you discover a leak, turn off your pump and use the drain valve to empty the pipes.

- If your leak is coming from a John Guest connection, disconnect and reconnect the pipe, ensuring you push it fully in.
- Double check the cut on the John Guest pipe is straight; angled cuts cause leaks.
- Ensure the pipe inserts are pushed fully into the pipe on the hot line.
- For any connection requiring a thread, if required, ensure you are using PTFE tape or thread sealer though anything with an internal washer should not need this.

If the leak persists, please contact us, especially if it seems to be coming directly from a part included in the plumbing kit.

## A Word on Freezing

If you are leaving your system in temperature below 0C where it will not be heated, **you must drain the entire system!**

John Guest pipework is not designed to tank any expansion as water freezes, neither are the fittings or the pump or expansion tank.

This is especially vital for the thermostatic mixer valves as they have a 1-way valve inside so the expanding, freezing water has nowhere to go and will most likely break the valve when the water freezes.



**We would love to know what you think!**

**Please let us know by leaving a review through the link sent through when you made your purchase, or email us at [info@bobilvans.co.uk](mailto:info@bobilvans.co.uk)!**

**You can also share photos of your installation on the 'Bobil Water Heater Users', Facebook page, we'd love to see them!**

[www.bobilvans.co.uk](http://www.bobilvans.co.uk)

[@bobilvans](https://www.twitter.com/bobilvans)



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