

# FUEL CONNECTION

If you are installing the heater to Lloyds specifications, Specialist advice should be sought.

The Fuel system conforms to ISO 7840 & the Inland Waterways specifications when installed correctly as detailed. Always ensure only clean fuel is used. The heater is designed to run on EN590 Diesel & BS2869A2 Gas oil.

The use of fuels containing high levels of sulphur, water or other contaminants may increase the service interval required.

Several specific regulations apply including the use of flame resistant fuel pipe such as copper pipe, and fire resistant fixings. Use a sharp pipe saw and NOT a hacksaw if the supplied copper pipes are shortened. If the pipes are shortened the pipe ends must be re-flared with a suitable flaring tool as per the picture below. Ensure afterwards that the bore of the pipes are still 2mm. Use a 2mm drill bit as a gauge. Connect the flared copper pipes with the small black ISO7840 hose pieces to the Fuel Pump, Heater, Standpipe and other fuel system parts that have a barbed nipple connection and secure with worm drive clamps.

The best technique is to fit the rubber pipes on to the standpipe, fuel pump and the heater nipples and then insert the copper pipe flared ends fully into the other ends of the rubbers. The reason for this is to ensure there are no gaps inside the rubber pipes that could harbour air pockets as shown below. Apply a dab of diesel to the pipe ends before assembly. This will make the installation easier and reduce the likelihood of the bore of the rubber pipe being torn and causing a blockage.

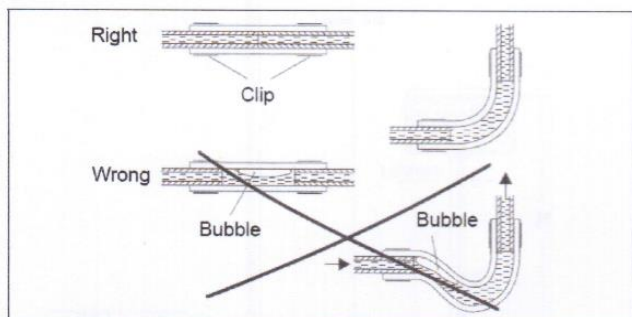


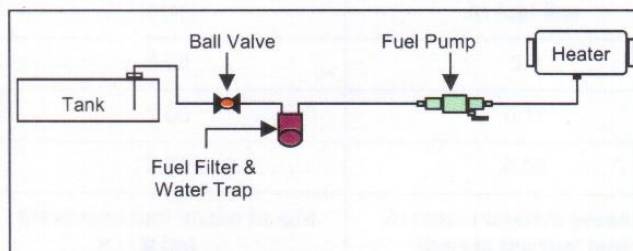
Illustration of how to insert a copper pipe into a rubber joiner.

If other pipe fittings are needed due to different fuel supply arrangements i.e. in-line filters or water traps etc other than those supplied these can be obtained from your Webasto Dealer.



Flared end of copper pipe

Follow the diagrams below for connecting the fuel supply and positioning the components, noting the mounting parameters, for the fuel pump, which are critical to ensure correct operation of the heater. Mount the fuel pump using the "P" clip according to Pump Diagram. Ensure the correct direction of flow is observed. Depending upon the quality of fuel used and the point where the fuel is extracted from the vessels fuel system, an additional water separator and or fuel filter may be required prior to the dosing pump.

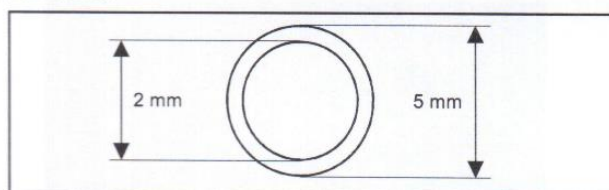


Fuel Supply System - Typical

The *Ball Valve, Filter / Separator* are optional and may not be part of your kit. All optional parts mentioned are available from your Webasto Dealer.

The copper fuel pipe used in the system should be:  
2 mm Inside Diameter  
5 mm Outside Diameter

The copper pipe supplied with the kit meets this standard.



Fuel pipe dimensions

Ensure that the 2mm I.D. - 5mm O.D supplied copper pipe is used.

If you fit any additional filter or valves in the fuel system make sure the pipes / hoses are flared copper and are connected with ISO7840 50mm long hose sections clamped at each end.