



Traditional push fit plumbing

PolyPlumb is our original, tried and tested, grey plumbing system. Robust and reliable, PolyPlumb has stood the test of time.

PolyPlumb fittings feature a one step jointing process and a high performance stainless steel grab ring within the fitting, ensuring superb joint integrity.

Use PolyPlumb with Polypipe grey polybutylene flexible pipe, or you can combine PolyPlumb fittings and copper pipe. We recommend the use of a Polypipe metal or plastic pipe stiffener when used with plastic pipe.

PolyPlumb is suitable for use in most plumbing and heating installations, including hot and cold water and underfloor heating applications.

The system offers a number of benefits, including:

- Our original grey plumbing system, using tried and tested technology for many years
- PolyPlumb provides a superb combination of fast fitting with a permanent, reliable fix
- PolyPlumb offers a one-step jointing process, with joint integrity assured by a high performance stainless steel grab ring
- Demountable by dis-assembly only
- Use for all hot and cold water supply or heating applications, including under floor heating
- Use with Polypipe grey polybutylene pipe systems or copper pipe
- Use Polypipe metal or plastic pipe stiffeners

Jointing

There are **five** vital steps to successfully jointing the PolyPlumb system.

Step 1a: Cutting PolyPlumb pipes

Check the pipe is not scored or scratched in any way and if it is, cut back to a point where there is no damage. Using a Polypipe pipe cutter, cut the pipe squarely using the "K" marks on the pipe as a guide. These marks indicate when the pipe has been inserted into the fitting correctly.



Step 1b: Cutting copper pipe for insertion in a PolyPlumb fitting

Wherever possible, use a rotational pipe cutter when cutting copper pipe. Ensure that all cut ends have a rounded lead in, with burrs removed. Never use a hacksaw. You will need to mark the insertion depth on the pipe as below.

Pipe Diameter (mm)	10	15	22	28
Insertion Depth (mm)	22	27	30	35

Step 2: Use of pipe stiffener

Insert a pipe stiffener into the pipe (not required on copper pipe). Pipe stiffeners are an integral part of the joint when using Polypipe grey pipe with either PolyPlumb fittings or compression fittings and need to be fully inserted in to the pipe end.

Polypipe offer two types of pipe stiffener to be used with PolyPlumb fittings - metal and plastic. When using a pipe stiffener, ensure it is fully inserted before applying the fitting.



Step 3: Visually check fitting and fitting components

Visually check that all components are present, undamaged and free from contamination.

Lubricants

All Polypipe fittings are supplied with pre-lubricated EPDM 'O' rings. If any further lubrication is required only Polypipe silicone lubricant should be used. Substances such as solder flux must not be used.

Step 4: Insert pipe fully into fitting

Insert pipe into the fitting, ensuring it is inserted to the full socket depth denoted by the next "K" mark on the pipe.



Step 5: Check joint security

A quick tug on the pipe will confirm that the pipe is inserted past the grab ring and that a grab ring was present in the fitting. It does not however ensure that the pipe is fully inserted as this can only be confirmed by using the depth insertion mark.

IMPORTANT NOTE: Do not re-joint

On no account should a pipe be removed from a jointed PolyPlumb fitting by dismantling. If the same fitting is then re-jointed, there is real risk that the outer edge of the grab ring will have become damaged and this will reduce the pull-out performance of the joint when subjected to pressure. The joint will almost certainly fail prematurely and potentially cause serious injury.

Dismantling a PolyPlumb joint

PolyPlumb fittings must not be dismantled for any reason prior to jointing.

Step 1: Procedure for using the component pack of spares. Dismantling the joint

If it is necessary to remove a joint pipe from a fitting, the cap-nut should be unscrewed and the pipe end with all the socket components present on the pipe end should be pulled out of the socket of the fitting. The pipe end complete with all the socket components should be cut off and discarded.

A complete component pack of socket spares should be fitted to the socket as described below and pipe jointing should be carried out as described.

Step 2: Replacement components

The component pack (Code: PB95XX) is supplied as a cap-nut with all the socket components present in the correct order and retained by a retaining cap.

Step 3: Preparing components

Completely remove the retaining cap, ensuring that the socket components remain within the cap-nut.

Step 4: Replacing the components

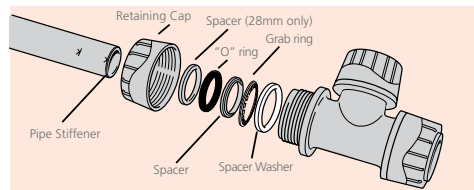
Without removing any of the socket components from the cap-nut, introduce the cap-nut and socket components to the socket of the fitting and tighten up the cap-nut by hand, ensuring that the components enter the socket without snagging.

Step 5: Checking the fitting

Carry out a visual check to ensure that all socket components are present in the correct order as shown in the diagram and that the rubber 'O' ring is lubricated. If in doubt, the 'O' ring should be re-lubricated using PolyPlumb silicone lubricant.

Step 6: Fitting the joint

Carry out pipe jointing as described previously.



PolyPlumb fittings general arrangement

Reduced component fittings

Changes have been made to 15mm PolyPlumb couplers, elbows and tees and 22mm PolyPlumb elbows, tees and couplers (or connectors), which need to be considered when using PolyPlumb spares kits with these fittings:

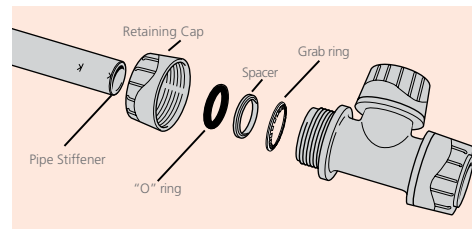
Step 1: Original PolyPlumb fittings

If the bottom white washer is present in the fitting below the grab-ring, then the spares kit can be used as supplied without making any changes.

Step 2: New PolyPlumb fittings

If there is no bottom white washer present below the grab-ring with one of the five listed fittings then this is one of the fittings which has been modified.

Before the spares kit is used, the carrier moulding should be carefully removed from the cap-nut and the bottom white washer should be removed and discarded without changing the order of any of the other components. After this has been done, the spares kit should be offered up to the socket of the fitting, inserting the components into the socket in the order they are within the kit and then screwing down the cap-nut onto the outside of the socket.



15mm couplers, elbows and tees and 22mm elbows, tees and couplers (or connectors)

