

EDITION .01

WaterPex INSTALLATION PROCEDURE

For WaterPex Pe-Xb with
Double Leak Detection Fittings



If it's Couta... It's the Best!





Our job is to make your job easier.

Installation Procedure for WaterPex Pe-Xb with Double Leak Detection Fittings

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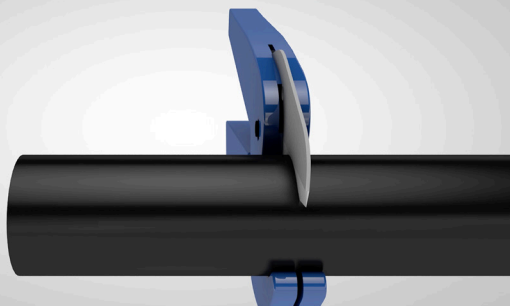
Our company focus is on providing a better way to get things done more easily for our customers.

We pride ourselves on customer service and support that is second to none.

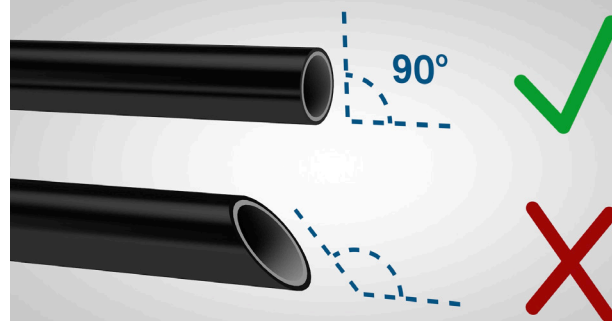
Gavin Shaw
Director

Step 1. Cutting of pipe

Use your pipe cutting tool to cut the pipe to your desired length.

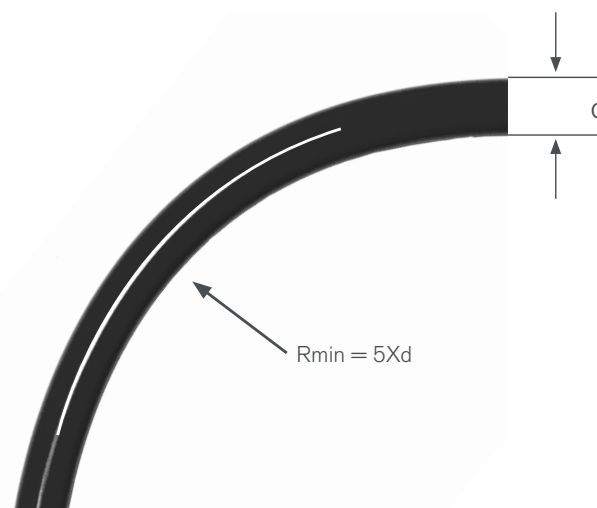


Ensure you have a 90° degree cut.



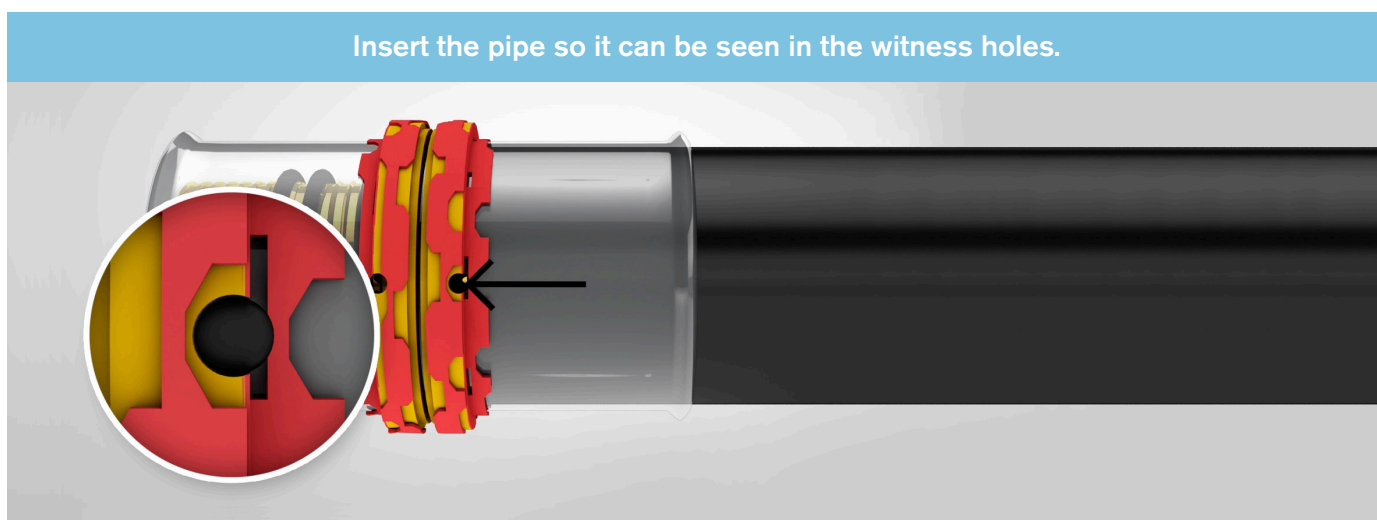
Step 2. Bending of the pipe

When bending the pipe the minimum bending radius is $5 \times D$ where D is the nominal outside diameter of the pipe. Bending may be accomplished by hand. A preformed plastic support bend is the preferred method.



Step 3. Insertion of the pipe onto the fitting

Insert the pipe so it can be seen in the witness holes.



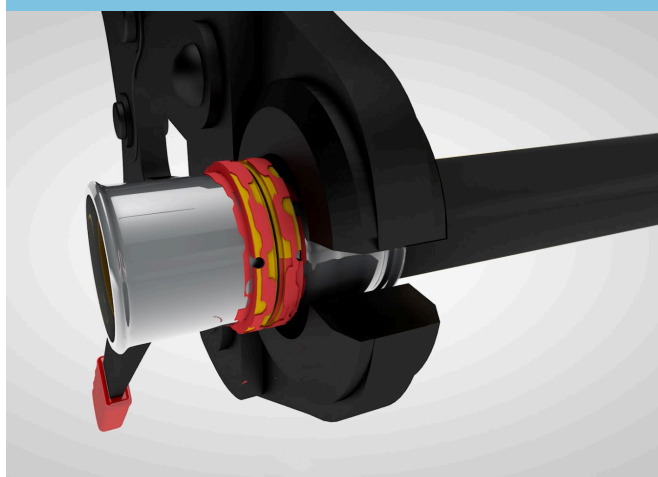
Step 4. Crimping of fitting

The Leak Detection system requires a specific and unique pressing tong. The tong has the letters LD stamped on the face followed by the OD of the pipe that it is to be used with. E.g. LD 20 - this is the tong for the 20mm Leak Detection pipe

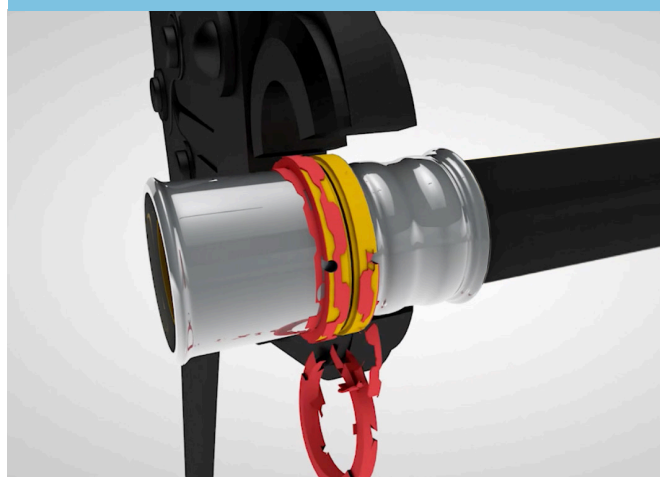


Ensure you are using the correct LD profile tong to crimp Leak Detection fittings as pictured.

Place the tong hard up against the isolating ring and OVER the pink indicator before proceeding to crimp.



Complete the crimp by closing the tong. Open the tong and the pink indicator will break apart showing that the crimp has been completed. You only need to crimp once.

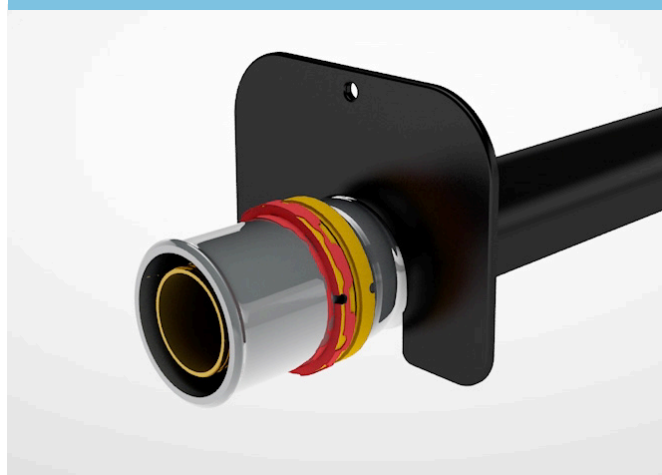


Step 5. Inspecting of the crimp

A successful crimp is when the pipe is visible in the witness holes, the pink indicator has broken away and you have 3 crimp lines as shown in the photo.



Check the crimp with the gauging tool. The gauging tool should slide over the crimp and rotate without force. If this does not occur, the crimped joint has been insufficiently crimped and the tool may need calibrating. Check correct calibration of the tool after the first crimp and after 60 crimps or at the start of each day.



Step 6. Testing

Visually check the installation and then pressure test the WaterPex systems as per AS/NZS 3500 Plumbing & Drainage-Housing installation code. This specifies a test pressure of 1500 kpa for 30 minutes with no pressure drop observed.

It is recommended that you use the SafeGuard testing system for your hydrostatic testing needs. Safeguard is a hydrostatic testing solution that provides a digital records of all tests and demonstrates that the job has been tested and conforms to requirements.

Step 7. Installation faults

Pink indicator can build up in the jaws. You need to regularly clean the jaws to prevent a pinched crimp.



Crimp pinching occurs when the jaws has not been kept clean of the pink indicator. Water will leak through the pinched area.



Crimp pinching can also occur when the tong has not been placed evenly on the sleeve. Water will leak through the pinched area.

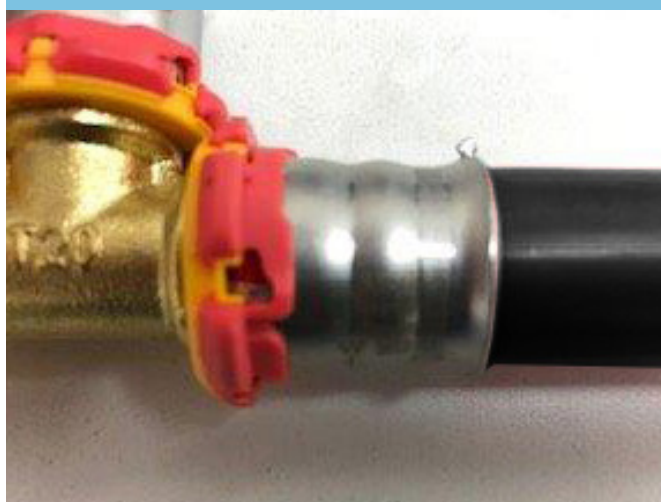


Step 8. Installation faults

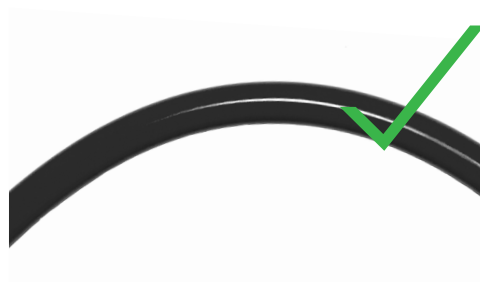
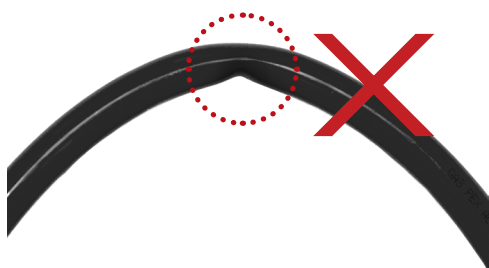
If the pipe is not visible through the witness holes this will likely result in leakage and/or total failure of the joint over time.



The pink indicator has not broken away after crimping which indicates that the tong has not been placed over the indicator ring during crimping. This will likely result in leakage and/ or total failure of the joint over time.



If you kink the pipe while bending you must cut it out.



Step 9. Common installation faults that lead to leakage and failure of joints

Pipe not cut at 90 Deg.

Pipe not inserted all the way onto the fitting and is not visible in the witness holes.

Tong has not been placed correctly over the pink indicator before crimping.

Tool not calibrated.

Jaws not cleaned regularly.

No visual check of fittings and not pressure tested.

