

Installation Instructions

General

Conex Bänninger >B< Press fittings should be professionally installed by an appropriately trained and qualified installer. All installations **must** be completed in line with local regulations and by-laws governing the installation, and all applicable health and safety practices must be adhered to.

Important

Select the correct size of tube, fitting, and jaw for the installation. Ensure the fitting and tube are kept free of any dust or dirt, and that the O-ring is undamaged. Check the inner pressing contour of the jaw is free of dirt and debris.

Do not force tube ends together prior to making joints. Joints should only be made on an unstressed pipework assembly.

Joint information

- A joint is finished after one complete compression cycle of the tool.
- **Do not** press any >B< Press fitting more than once.
- Pipework alignment must be completed prior to pressing.
- **Do not** rotate joints after they have been pressed.

Further Information

Please visit - www.conexbanninger.com or email - technical@ibpgroup.com, for information on:

- Tube compatibility.
- Space required for pressing.
- Minimum distance between joints, pressed or brazed.
- Compatible press tools and jaws.

Tube preparation

To ensure a secure and permanent joint the tube **must** be correctly prepared prior to installation. Incorrect tube preparation can result in damaging the O-ring and causing the fittings to leak.

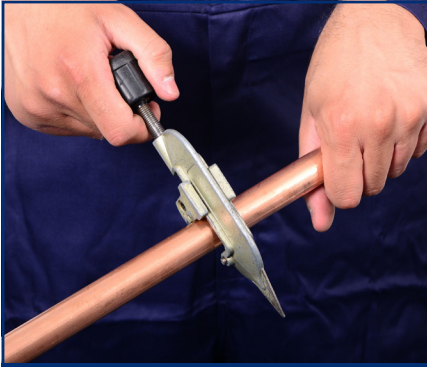
Applications

Type of Service	Comments	bar	Temp °C
Drinking water installations EN 806	Drinking water	10	95 max
		16	25 max
Hot water heaters EN 12828	Heating water	6	110 max
Local and district heating tubes	Heating & district heating water	10	110 max
Thermal solar systems* with permanent operating temperatures ≤ 110°C EN 12975 / 12976	Water and water-glycol mixtures mixing ratio max. 50/50 %	6	Range -35 to 110 200°C 20 h/a 180°C 60 h/a
Chilled water & cooling water systems	Water & water-glycol mixtures mixing ratio max. 50/50 %	10	-10 min
Rainwater harvesting systems	Rainwater from cisterns	10	25
Industrial and processing water	Prepared, softened, partially & partially de-ionized water with a pH of 6.5 ≤ Ph 6.5 ≤ 9.5	10	95 max
		16	25 max
Pipeline in shipbuilding ≤ 54mm	Water with 6.5 ≤ Ph 6.5 ≤ 9.5	16	95 max
Field test pressure	Water with 6.5 ≤ Ph 6.5 ≤ 9.5	16	Ambient
Note: For the full applications chart please refer to the >B< Press Technical Brochure.			
*Please refer to manufactures instructions.			

Note: Avoid hand held grinding wheels, fast cutting saws and hacksaws, as these are **not suitable** for cutting tube ends square. If tube ends do become distorted, remove the damaged section, using an appropriate cutting method.

Safety Note: Before using a press tool please refer to the manufacturer's operating and safety instructions. Care must be taken to ensure hands are kept away from the jaw during the pressing process. Always wear ear and eye protection.

Leave the fittings in the packaging prior to installation, to protect them from contamination, and to preserve the lubrication of the O-rings.



1. Cut tube to length

- Use a rotary tube cutter.
- Ensure that the tube is cut square.
- Check the tube has maintained its shape and is damage free.



2. Deburr tube internally and externally

- Deburr the tube both internally and externally.
- Where possible angle the tube downwards to prevent filings entering the tube.
- Make sure the internal and external surfaces of the tube ends are smooth and free from burrs and sharp edges.
- **IMPORTANT:** Please ensure that the tube surface is free from any deep scores or scratches.



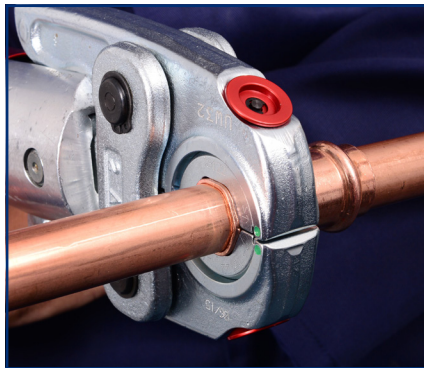
3. Inspect the fitting and O-rings

- Check the fittings is the correct size for the tube.
- Check the O-rings are present, undamaged, and correctly seated.
- Note: It is good practice to add a small amount of Conex Bänninger press fitting lubricant to the O-rings to aid tube insertion.



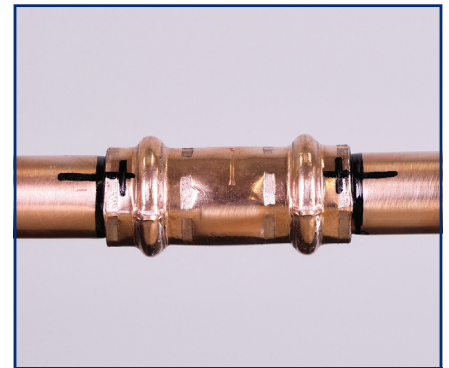
4. Assemble and mark the tube insertion depth

- The tube **must** be fully inserted into the fitting until it reaches the tube stop.
- To reduce the risk of dislodging the O-ring, rotate the tube (if possible) while pushing it into the fittings.
- Mark the insertion depth on the tube.
- Prior to pressing **ensure the tube has not moved out from the fitting socket.**



5. Complete the joint with the press tool

- Ensure pipework is correctly aligned prior to pressing, and the correct size jaw is used.
- The jaws **must** be placed squarely on the fitting, locating the groove on the bead.
- The bead on the fitting should fit centrally in the groove of the jaw.
- Depress and hold the start button on the press tool to complete the pressing cycle.
- Pressing is complete when the jaws are fully closed.
- **IMPORTANT: The joint is complete after one full cycle of the tool. DO NOT crimp any fitting more than once.**



6. Mark the completed joint

- Mark the completed joint after pressing.
- This enables joints to be inspected easily before testing.

The content of this publication is for general information only. It is the user's responsibility to determine suitability of any product, product data and specifications, for the purpose intended and reference should be made to our Technical Department if clarification is required – technical@ibpgroup.com. All products must be installed in accordance with our installation instructions. In the interests of technical development we reserve the right to change specification, design and materials without notice.

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