

>B< MaxiPro



>B< MaxiPro is an innovative press fitting, which is quick and simple to use, providing a secure and permanent joint. Compared with traditional techniques it significantly improves productivity through greatly reduced installation time and enhanced working flexibility. >B< MaxiPro is revolutionizing pipe jointing in air-conditioning and refrigeration applications.

Applications

>B< MaxiPro fittings are designed for the following applications:

- Refrigeration
- Air conditioning
- Heat pump (refrigeration side)

Features and benefits:

- Flame-free
- 3-point press for a permanent secure joint
- Patented hook technology
- Maximum operating pressure 700 psi
- Maximum operating temperature -40 °F to 250 °F
- Available in sizes ¼" - 2 ½"
- Reduced installation time and cost
- Compatible with approved jaws
- 15-year product guarantee

Standards and Certifications Compliance:

- UL 207 - Edition 9, File #SA44668
- ICC-ES, PMG 1440
- ISO 5149-2:2014, Part 2: Design, construction, testing, marking and documentation compliant
- ISO 14903 - 7.4, 7.6 & 7.8 compliant
- ASTM G85, ASHRAE 15, ASME 31.5, compliant

Building Codes Compliance:

- 2024, 2021, 2018, 2015, 2012, 2009 and 2006 International Mechanical Code (IMC)
- 2024, 2021, 2018, 2015, 2012, 2009 and 2006 International Residential Code (IRC)
- 2024, 2021, 2018, 2015, 2012, 2009 and 2006 Uniform Mechanical Code (UMC)
- 2022, 2019, 2016, 2013, and 2010 California Mechanical Code (CMC)

Technical Data

Parameters	Capability
Applications	Air conditioning, refrigeration, heat pump (refrigerant side)
Connections	Copper to copper
Copper tube compatibility*	ASTM-B280, ASTM-B88 type K or L, ASTM B743, ASTM B1003
Fitting / tube range inch	¼", ⅝", ⅜", ½", ⅝", ¾", ⅞", 1", 1 ⅛", 1 ⅜", 1 ⅝", 2 ⅛"
Fitting material	Refrigerant grade copper (UNS C12200 min 99.9% pure)
O-ring	HNBR
Approved oils	POE, PAO, PVE, AB and MO
Maximum operating and abnormal pressure	700 psi
Burst pressure >3 x maximum operating and abnormal pressure EN 378-2	>2100 psi
Leak tightness	Helium $\leq 7.5 \times 10^{-7}$ Pa.m ³ /s at +20 °C, 10 bar
Vacuum	200 microns
O-ring temperature range	-40 °F to 284 °F
UL listing continuous operating temperature	-40 °F to 250 °F
Compatible refrigerants	R-1234yf**, R-1234ze**, R-125, R-134a, R-290**, R-32**, R-404A, R-407A, R-407C, R-407F, R-407H, R-410A, R-417A, R-421A, R-422B, R-422D, R-424A, R-427A, R-434A, R-437A, R-438A, R-444A**, R-447A**, R-447B**, R-448A, R-449A, R-450A, R-452A, R-452B**, R-452C, R-453A, R-454A**, R-454B**, R-454C**, R-455A**, R-456A, R-457A**, R-459A**, R-507A, R-513, R-513A, R-513B, R-515B, R-600A**, R-718, Ethylene Glycol and HYCOOL 20.

** When using refrigerants classified A2L (lower flammability), A2 (flammable) and A3 (higher flammability) additional/specific standards, local rules and regulations, codes of practice and by-laws may be applicable.

Note: >B< MaxiPro fittings are NOT suitable for R-717, R-723, R-764, R-744, R-22 refrigerants.



Scan for the
Technical Brochure

Making a joint with a >B< MaxiPro press fitting



1. Cut the tube to length

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



2. Deburr and remove all external sharp edges

- Deburr the tube both internally and externally.
- Where possible angle the tube downwards to prevent filings entering the tube.
- Use a pencil type deburrer on internal tube edges.
- Make sure the internal and external surfaces of the tube ends are smooth and free from burrs or sharp edges.



3. Use a pencil type deburrer on internal edges



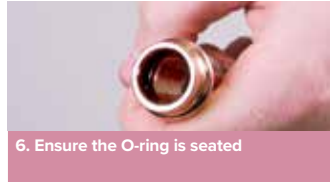
4. Clean the tube end

- Thoroughly clean the tube end using ROTHENBERGER ROVLIES or similar cleaning pad in a rotating action.
- Tube ends must be free from scratches, oxidation, dirt and debris.



5. Check for defects

- If deep scratches are still visible, cut the tube back to a clean section and prepare the tube end again.



6. Ensure the O-ring is seated

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



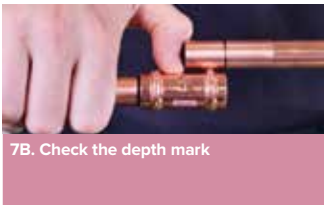
7A. Mark insertion depth on tube using depth gauge

- Insert tube into correct socket in depth gauge.
- Check window to see the tube is fully inserted.
- Mark the insertion depth on the tube.



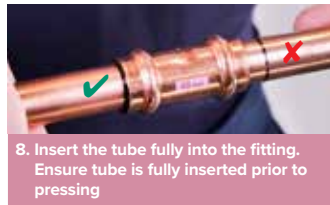
7B. Alternatively insert tube to tube stop and mark

- 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 slipping it into the fitting.
- Mark the insertion depth on the tube.



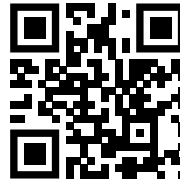
7B. Check the depth mark

- Remove the tube and align with fitting socket, check that the depth mark is correctly positioned.
- The insertion depth mark is used as a reference prior to pressing the joint.



8. Insert the tube fully into the fitting. Ensure tube is fully inserted prior to pressing

- Insert the tube fully into the fitting up to the tube stop.
- To reduce the risk of dislodging the O-ring rotate the tube (if possible) while slipping it into the fitting.
- Prior to pressing, ensure the tube has not moved out from the fitting socket. Use the insertion depth mark as a guide.
- Use the insertion depth mark as a guide



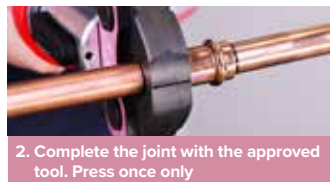
Use the QR code app on your smart phone or tablet to access the installation video

¼" to 1 ½"



1. Align jaws squarely on the fitting

- Ensure pipework is correctly aligned prior to pressing.
- Ensure the correct size jaw is inserted into the tool.
- 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.



2. Complete the joint with the approved tool. Press once only

- Depress and hold the button to complete the pressing cycle.
- Pressing is complete when the jaws are fully closed and the piston retracts.
- Complete the press cycle once only – do not repress.
- Release the jaws from the pressing.



3. Mark the completed joint

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

1 ¾" to 2 ½"



1. Fit the pressing ring

- Using the appropriate size pressing ring, open, and locate onto the fitting bead.
- Close the pressing ring fully.



2. Engage adaptor

- With the adaptor jaw fitted in the press tool, open the actuator and locate it into the aperture of the pressing ring.
- Check for any tube movement prior to pressing.



3. Complete the joint with the press tool

- Press and hold the trigger/ button on the press tool to begin the pressing cycle.
- The tool automatically stops when the cycle has been completed.

IMPORTANT: The joint is complete after one full cycle. DO NOT crimp any fitting more than once.

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