

# >B< MaxiPro

Join the Press Revolution

Air Conditioning and Refrigeration



An innovative press system, which is quick and simple to install, providing a secure and permanent joint. Designed for air conditioning and refrigeration applications.

**Conex | Bänninger**

 an IBP GROUP company

Conex | Bänninger

# >B< MaxiPro

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Benefiting from over 110 years' experience in fittings manufacture and over two decades experience in press system design, >B< MaxiPro is set to revolutionize pipe jointing in air conditioning and refrigeration applications.

>B< MaxiPro is a robust press system, 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 can be used with hard, half hard or annealed copper tube conforming to ASTM-B280\*, ASTM-B88 type K or L\* and ATSM - B1003 in both air conditioning and refrigeration applications and is compatible with the following refrigerants: R-125, R-134a, R-404A, R-407A, R-407C, R-407F, R-407H, R-410A, R-417A, R-421A, R-422B, R-422D, R-427A, R-438A, R-448A, R-449A, R-450A, R-452A, R-452C, R-507A, R-513A, R513B, R-515B, R-718, R-424A, R-434A, R-437A, R-453A, R-456A, R-513, Ethylene Glycol and HYCOOL 20.



\* For full details on copper tube compatibility please refer to:  
<https://conexbanninger.com/en-us/>.

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

## Features and benefits:

<b>Flame-free:</b>	Flame-free installation avoids the need for a hot work permit and the risk of fire on site.
<b>No nitrogen purge:</b>	>B< MaxiPro is a mechanical joint, thus eliminating the need for nitrogen purge during the jointing process.
<b>Lower installed cost:</b>	A professional fitting which is quick and simple to install, saving time and money.
<b>Higher productivity, improved flexibility:</b>	Work may be completed during working hours / public access, by a single employee.
<b>Site access:</b>	Easy access to work sites, no gas bottles required.
<b>Quality designed in:</b>	Reliable, repeatable, permanent, tamper-proof connections every time.
<b>3-point press:</b>	Three press points, one each side of the bead, and one press point compressing the O-ring. This provides a permanent and secure joint.
<b>High quality O-ring:</b>	A high quality HNBR O-ring forms a secure leak-free joint when pressed.
<b>Protected O-ring:</b>	Lead-in edge design aids tube insertion and helps protect the O-ring from damage or displacement.

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**Fitting identification:** Fittings are marked >B< MaxiPro and identified with a pink mark indicating their suitability for high pressure air conditioning and refrigeration applications.

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**Electrical continuity:** Maintains ground continuity without the need for additional ground continuity straps.

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**Certification:** >B< MaxiPro fittings are UL 207 recognized and listed, refrigerant fitting report reference SA44668, approved use for field and factory installations.

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**Field proven:** Press-fit technology, field proven over 20 years and millions of installed fittings worldwide.

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**Warranty:** When professionally installed by a trained and certified >B< MaxiPro installer, >B< MaxiPro fittings are covered by a fifteen (15) year limited warranty.  
For full terms and conditions go to: <https://conexbanninger.com/en-us/>.

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**Support:** Backed by Conex Bänninger's experienced technical support and customer services teams.

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**Compact tooling:** Light compact tooling provides easy access to tightly spaced tube runs.

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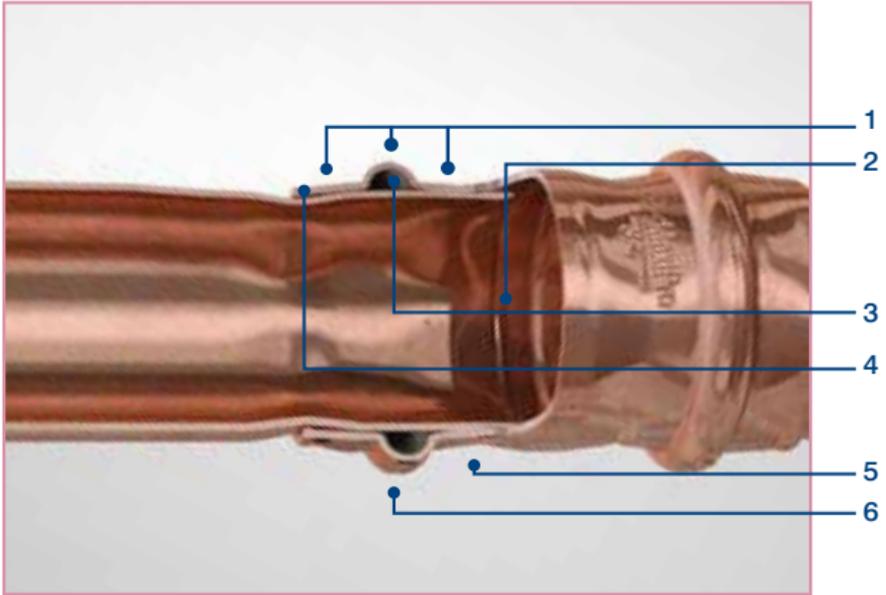
**Tooling:** Conex Bänninger recommends the use of ROTHENBERGER press tools.

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## >B< MaxiPro technology:

### 3-point press:

>B< MaxiPro benefits from a 3-point press; one each side of the bead, and one press point compressing the O-ring. This provides a permanent and secure joint.

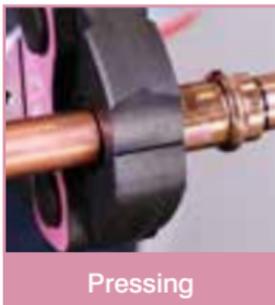


1. Three press points, one each side of the bead and one press point compressing the O-ring.
2. Tube stop.
3. HNBR O-ring.
4. Hook.
5. Fitting socket.
6. Bead.

In tests, press fittings are up to three times faster to install than brazing.



Unpressed



Pressing



Pressed

# Range:

<b>MPA5001</b> 90° Street Bend	<b>MPA5002</b> 90° Bend	<b>MPA5002L</b> Long 90° Bend	<b>MPA5041</b> 45° Obtuse Elbow
			
From: 3/8" To: 1 3/8"	From: 1/4" To: 1 3/8"	From: 1/2" To: 1 3/8"	From: 1/4" To: 1 3/8"
<b>MPA5240</b> Reducing Coupler	<b>MPA5240L</b> Long Reducing Coupler	<b>MPA5243</b> Fitting Reducer	<b>MPA5270</b> Straight Coupler
			
From: 3/8" x 1/4" To: 1 3/8" x 1 1/8"	From: 3/8" x 1/4" To: 1" x 5/8"	From: 3/8" x 1/4" To: 1 3/8" x 1 1/8"	From: 1/4" To: 1 3/8"
<b>MPA5270L</b> Long Coupler	<b>MPA5275L</b> Long Repair Coupler	<b>MPA5285G</b> SAE45 Copper Flare - Brass Nut	<b>MPA5286G</b> SAE45 Stainless Flare - Brass Nut - Copper Washer
			
From: 1/4" To: 1 1/8"	From: 1/4" To: 1 3/8"	From: 1/4" x 1/4" To: 3/4" x 3/4"	From: 1/4" x 1/4" To: 3/4" x 3/4"
<b>MPA5287</b> Copper Flare Washer	<b>MPA5289G</b> SAE45 Stainless Flare - Stainless Nut - Copper Washer	<b>MPA5301</b> Stop End	<b>MPA5T</b> Equal Tee
			
From: 1/4" To: 3/4"	From: 1/4" x 1/4" To: 3/4" x 3/4"	From: 1/4" To: 1 3/8"	From: 1/4" To: 1 3/8"
<b>MPA5698</b> P-Trap*	<b>MPA Depth Gauge</b> Depth Gauge & Pen	<b>MPABPSOIL</b> Press Fitting Lubricant	
			
From: 5/8" To: 1 1/8"	From: 1/4" To: 1 3/8"	100 ml	

\*Note: Not UL approved.

**Technical data****Parameters**

Applications

Connections

Approved tube: Copper tube conforming to\*

Fitting / tube range (inches)

Fitting material

O-ring

Approved oils

Maximum operating and abnormal pressure

Burst pressure >3 x maximum  
operating and abnormal pressure

Leak tightness

Vacuum

Temperature range

UL 207 recognized and listed continuous operating  
temperature.

Compatible refrigerants

Installations must be completed in line with all standards, local regulations, bylaws and codes of practice governing the installation. All applicable health and safety practices must be adhered to.

## Capability

Air conditioning, refrigeration and heat pump  
(refrigeration side)

Copper to copper

ASTM-B280\*, ASTM-B88 type K or L\* and ATSM - B1003

1/4", 3/8", 1/2", 5/8", 3/4", 7/8", 1", 1 1/8", 1 1/4", 1 3/8"

Refrigerant grade copper (C12200 min 99.9% pure)

HNBR

POE, PAO, PVE, AB and MO

700 psi / 48 bar / 4800 kPa

> 2100 psi / >144 bar / >14400 kPa

Helium  $\leq 7.5 \times 10^{-7}$  Pa.m<sup>3</sup>/s  
at +20°C, 10 bar

200 microns

-40°F to 284°F / -40°C to 140°C

-40°F to 250°F / -40°C to 121°C

R-125, R-134a, R-404A, R-407A, R-407C, R-407F, R-407H,  
R-410A, R-417A, R-421A, R-422B, R-422D, R-427A,  
R-438A, R-448A, R-449A, R-450A, R-452A, R-452C,  
R-507A, R-513A, R513B, R-515B, R-718, R-424A, R-434A,  
R-437A, R-453A, R-456A, R-513, Ethylene Glycol and  
HYCOOL 20.

\* For full details on copper tube compatibility please refer to:  
<https://conexbanninger.com/en-us/>.

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

## Approvals, standards and test compliance:

- >B< MaxiPro fittings are UL 207 recognized and listed, refrigerant fitting report reference SA44668, approved use for field and factory installations.
- UL 109 - 7 Pull Test, compliant.
- UL 109 - 8 Vibration Test, compliant.
- UL 1963 - 79 Tests of Gaskets and Seals Used in Refrigerant Systems, compliant.
- ISO 5149-2:2014, Refrigerating systems and heat pumps - Safety and environmental requirements – Part 2: Design, construction, testing, marking and documentation, compliant.
- ISO 14903, - 7.4 Tightness Test, compliant.
- ISO 14903 - 7.6 Pressure temperature vibration tests (PTV), compliant.
- ISO 14903 - 7.8 Freezing test, compliant.
- ASTM G85, Modified Salt Spray (Fog) Test, compliant.
- ASHRAE 15 - 2016 Safety Standard for Refrigeration Systems, compliant.
- B31.5 - 2016 Refrigeration Piping and Heat Transfer Components, compliant.
- 2021, 2018, 2015, 2012, 2009 and 2006 International Mechanical Code (IMC), Certified, ICC-ES, PMG-1440.
- 2021, 2018, 2015, 2012, 2009 and 2006 International Residential Code (IRC), Certified, ICC-ES, PMG-1440.
- 2021, 2018, 2015, 2012, 2009 and 2006 Uniform Mechanical Code (UMC), Certified, ICC-ES, PMG-1440.
- 2019, 2016, 2013, and 2010 California Mechanical Code (CMC), Certified, ICC-ES, PMG-1440.

## Press tools and jaws:

Conex Bänninger recommends the use of approved press tools in combination with >B< MaxiPro jaws.



**Note:** When using a press tool, wear ear and eye protection.

Only >B< MaxiPro jaws are approved for use with >B< MaxiPro fittings.

Regular care and cleaning of the jaws can be completed by the user. Prior to use check the press jaws are free of damage or deformation and the inner pressing contour is free of dirt or debris.

For detailed information on compatible tools for >B< MaxiPro jaws please refer to:  
<https://conexbanninger.com/en-us/>.

# Conex | Bänninger

## Conex Bänninger

The >B< MaxiPro range is brought to you by Conex Bänninger, a specialist in providing high quality fittings, valves and accessories across the globe. Since 1909, Conex Bänninger has produced over 22 billion fittings and valves, and our innovative approach has led to some landmark achievements in product design.

Conex Bänninger carries a heritage of product knowledge, expertise and excellence that is trusted across residential, commercial, industrial, air conditioning and refrigeration markets worldwide. Conex Bänninger is an ISO 9001 quality assured company, that ensures you receive the very best in quality.

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**Note:** For the latest updates and information about >B< MaxiPro visit: <https://conexbanninger.com/en-us/>.