

ZoomLock® MAX

Press-to-Connect Refrigerant Fittings

Connect Copper in Seconds

ZoomLock® MAX press-to-connect refrigerant fittings, designed for the air conditioning and refrigeration markets, allow contractors to make secure leak-free connections in seconds. It means less time on the job and more money in the contractor's pocket.

ZoomLock MAX fittings provide clean, leak-proof connections for refrigerant lines up to 700 psi. By eliminating concerns about gas and flames, ZoomLock MAX fittings offer more flexibility in where and when you can work, plus there's no need to nitrogen-purge the lines.

ZoomLock MAX fittings are available in a wide range of types including caps, couplings, elbows, tees, reducers, SAE flares, and more. See fitting sizes on page 3.



*Secure, Leak-free
Refrigerant
Connections*



The ZoomLock MAX Advantage

- Hard, robust fittings made from refrigerant grade copper
- Proven three-point press technology providing a leak-free and secure joint
- Rated for pressures up to 700 psi, 48 bar
- 15-year warranty
- Hermetically sealed packaging for debris-free fittings
- No crimp gauge needed—connect the fitting with one complete cycle
- Jaws available for most professional brand crimping tools, both large and compact



ZoomLock. The Name You Know—The Brand You **TRUST.**

ZoomLockMAX.com

TECHNICAL DATA**Product Parameters**

- **Applications:**
 - Refrigeration
 - Air Conditioning
 - Heat Pump (Refrigeration side)
 - VRF and VRV
- **Continuous Operating Temperature:**
-40°F to 250°F / -40°C to 121°C
- **O-ring Temperature Range:**
-40°F to 284°F / -40°C to 140°C
- **Maximum Rated Operating and Abnormal Pressure:**
700 psi / 48 bar / 4800 kPa
- **Burst Pressure:**
>3X Maximum operating and abnormal pressure
>2,100 psig / >14400 kPa / >144 bar
- **Vacuum Pressure Capability:**
200 Microns
- **Leak Tightness:**
Helium $\leq 7.5 \times 10^{-7}$ Pa.m³/s at +20°C, 10 bar
- **Size Availability (Inches):**
1/4, 3/8, 1/2, 5/8, 3/4, 7/8, 1-1/8, 1-3/8

Agency Approvals and Certifications

- UL Listed Refrigerant fitting SA7511
- UL Listed: 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 5149-2, 5.3.2.2.3 Strength pressure test, 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 salt spray (fog) compliant
- ASHRAE 15 - 2016 Safety Standard for Refrigeration Systems, compliant
- ASME 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

Mechanical joints shall not be used on annealed temper copper tube in sizes larger than 7/8 inch (22.2 mm) OD size per International Mechanical Code (IMC) and 3/4 inch nominal size per Uniform Mechanical Code (UMC).

Fitting Materials

- **Fitting Body:**
Refrigerant Grade Copper
(UNS C12200 min 99.9% pure)
- **O-Ring:**
HNBR

Fitting Warranty

- 15-year warranty. Refer to Catalog K-3 for more details.

Compatibility

- **Approved Lubricants:** POE, PAO, PVE, AB and MO
- **Approved Connections:**
Copper to Copper
- **Approved Tube:**
Copper tube conforming to*
ASTM B280, ASTM-B88,
or ASTM B743
- **Approved Copper Tubing:**
Hard Copper (Drawn)
- Type ACR, L, K
Soft Copper (Annealed)
- Type ACR, L, K

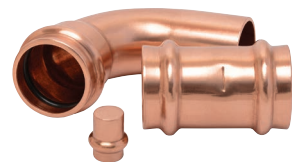
Approved Refrigerants

32**	422D	454A**
125	427A	454B**
134a	438A	454C**
290**	444A**	457A**
404A	447A**	459A**
407A	447B**	507A
407C	448A	513A
407F	449A	513B
407H	450A	600A**
410A	452A	718
417A	452B**	1234yf**
421A	452C	1234ze**
422B	HYCOOL 20	

* Please refer to ZoomLock MAX Tube Compatibility table, Catalog K-3.

** 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.

ZoomLock MAX fittings are NOT suitable for R-717, R-723, R-764, R-744 refrigerants. Refer to ZoomLockMAX.com for the latest approved refrigerants list.

ZoomLock MAX fittings are intended to be installed by HVAC/R professionals that have been trained specifically on ZoomLock MAX products. For product training visit www.zoomlocktraining.com.

**Learn More**

Point and scan with your phone's camera.

[Catalog K-3 ZoomLock MAX](#)