

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.



ZoomLock MAX

*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
- 10-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
- 2018, 2015, 2012, 2009 and 2006 International Mechanical Code (IMC), certified, ICC-ES, PMG-1440
- 2018, 2015, 2012, 2009 and 2006 International Residential Code (IRC), certified, ICC-ES, PMG-1440
- 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

- 10-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

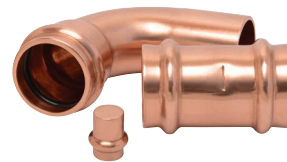
| | | |
|-------|-----------|----------|
| 32** | 422D | 454A** |
| 125 | 427A | 454B** |
| 134a | 438A | 454C** |
| 290** | 444A** | 457A** |
| 404A | 447A** | 459A** |
| 407A | 447B** | 507A |
| 407C | 448A | 513A |
| 407F | 449A | 513B |
| 407H | 450A | 600A** |
| 410A | 452A | 718 |
| 417A | 452B**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



Quality Assurance

ZoomLock MAX is manufactured in an ISO 9001 certified facility committed to providing quality products and support.



Learn More

Point and scan with your phone's camera.

[Catalog K-3 ZoomLock MAX](#)

ZoomLock MAX PRESS-TO-CONNECT REFRIGERANT FITTINGS

FITTINGS AND JAW SETS

| Size | Part Number | Bag Qty. | Description |
|-------------|-------------|----------|---------------|
| CAPS | | | |
| 1/4 | 870900 | 3 | MZK-CP4-HNBR |
| 3/8 | 870902 | 3 | MZK-CP6-HNBR |
| 1/2 | 870903 | 3 | MZK-CP8-HNBR |
| 5/8 | 870904 | 2 | MZK-CP10-HNBR |
| 3/4 | 870905 | 2 | MZK-CP12-HNBR |
| 7/8 | 870906 | 2 | MZK-CP14-HNBR |
| 1-1/8 | 870907 | 1 | MZK-CP18-HNBR |
| 1-3/8 | 870908 | 1 | MZK-CP22-HNBR |



| Size | Part Number | Bag Qty. | Description |
|------------------|-------------|----------|--------------|
| COUPLINGS | | | |
| 1/4 | 870508 | 5 | MZK-C4-HNBR |
| 3/8 | 870509 | 5 | MZK-C6-HNBR |
| 1/2 | 870503 | 5 | MZK-C8-HNBR |
| 5/8 | 870510 | 5 | MZK-C10-HNBR |
| 3/4 | 870505 | 2 | MZK-C12-HNBR |
| 7/8 | 870506 | 2 | MZK-C14-HNBR |
| 1-1/8 | 870507 | 2 | MZK-C18-HNBR |
| 1-3/8 | 870511 | 2 | MZK-C22-HNBR |



| Size | Part Number | Bag Qty. | Description |
|-----------------------|-------------|----------|---------------|
| SLIP COUPLINGS | | | |
| 1/4 | 870550 | 5 | MZK-RC4-HNBR |
| 3/8 | 870552 | 5 | MZK-RC6-HNBR |
| 1/2 | 870553 | 5 | MZK-RC8-HNBR |
| 5/8 | 870554 | 3 | MZK-RC10-HNBR |
| 3/4 | 870555 | 2 | MZK-RC12-HNBR |
| 7/8 | 870556 | 2 | MZK-RC14-HNBR |
| 1-1/8 | 870557 | 1 | MZK-RC18-HNBR |
| 1-3/8 | 870559 | 1 | MZK-RC22-HNBR |



| Size | Part Number | Bag Qty. | Description |
|---------------------|-------------|----------|----------------|
| ELBOWS - 45° | | | |
| 1/4 | 871401 | 3 | MZK-45E4-HNBR |
| 3/8 | 871402 | 3 | MZK-45E6-HNBR |
| 1/2 | 871403 | 3 | MZK-45E8-HNBR |
| 5/8 | 871404 | 3 | MZK-45E10-HNBR |
| 3/4 | 871405 | 3 | MZK-45E12-HNBR |
| 7/8 | 871406 | 3 | MZK-45E14-HNBR |
| 1-1/8 | 871407 | 2 | MZK-45E18-HNBR |
| 1-3/8 | 871399 | 2 | MZK-45E22-HNBR |



| Size | Part Number | Bag Qty. | Description |
|---------------------|-------------|----------|----------------|
| ELBOWS - 90° | | | |
| 1/4 | 870600 | 5 | MZK-90E4-HNBR |
| 3/8 | 870602 | 5 | MZK-90E6-HNBR |
| 1/2 | 870603 | 3 | MZK-90E8-HNBR |
| 5/8 | 870604 | 3 | MZK-90E10-HNBR |
| 3/4 | 870605 | 3 | MZK-90E12-HNBR |
| 7/8 | 870606 | 3 | MZK-90E14-HNBR |
| 1-1/8 | 870607 | 2 | MZK-90E18-HNBR |
| 1-3/8 | 870608 | 1 | MZK-90E22-HNBR |



| Size | Part Number | Bag Qty. | Description |
|----------------------------|-------------|----------|-----------------|
| ELBOWS - 90° STREET | | | |
| 3/8 | 871302 | 3 | MZK-90SE6-HNBR |
| 1/2 | 871303 | 3 | MZK-90SE8-HNBR |
| 5/8 | 871304 | 3 | MZK-90SE10-HNBR |
| 3/4 | 871305 | 3 | MZK-90SE12-HNBR |
| 7/8 | 871306 | 3 | MZK-90SE14-HNBR |
| 1-1/8 | 871307 | 2 | MZK-90SE18-HNBR |
| 1-3/8 | 871308 | 1 | MZK-90SE22-HNBR |



| Size | Part Number | Bag Qty. | Description |
|-----------------|-------------|----------|----------------|
| REDUCERS | | | |
| 3/8 x 1/4 | 870800 | 2 | MZK-R64-HNBR |
| 1/2 x 1/4 | 870808 | 2 | MZK-R84-HNBR |
| 1/2 x 3/8 | 870801 | 2 | MZK-R86-HNBR |
| 5/8 x 1/4 | 870809 | 2 | MZK-R104-HNBR |
| 5/8 x 3/8 | 870810 | 2 | MZK-R106-HNBR |
| 5/8 x 1/2 | 870802 | 2 | MZK-R108-HNBR |
| 3/4 x 1/2 | 870811 | 2 | MZK-R128-HNBR |
| 3/4 x 5/8 | 870803 | 2 | MZK-R1210-HNBR |
| 7/8 x 1/2 | 870812 | 2 | MZK-R148-HNBR |
| 7/8 x 5/8 | 870804 | 2 | MZK-R1410-HNBR |
| 7/8 x 3/4 | 870805 | 2 | MZK-R1412-HNBR |
| 1-1/8 x 5/8 | 870814 | 1 | MZK-R1810-HNBR |
| 1-1/8 x 3/4 | 870806 | 1 | MZK-R1812-HNBR |
| 1-1/8 x 7/8 | 870807 | 1 | MZK-R1814-HNBR |
| 1-3/8 x 7/8 | 870815 | 1 | MZK-R2214-HNBR |
| 1-3/8 x 1-1/8 | 870816 | 1 | MZK-R2218-HNBR |



| Size | Part Number | Bag Qty. | Description |
|-------------------|-------------|----------|--------------|
| SAE FLARES | | | |
| 1/4 | 871000 | 4 | MZK-F4-HNBR |
| 3/8 | 871002 | 4 | MZK-F6-HNBR |
| 1/2 | 871003 | 2 | MZK-F8-HNBR |
| 5/8 | 871004 | 2 | MZK-F10-HNBR |
| 3/4 | 871005 | 2 | MZK-F12-HNBR |



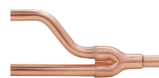
| Size | Part Number | Bag Qty. | Description |
|-------------|-------------|----------|--------------|
| TEES | | | |
| 1/4 | 870701 | 3 | MZK-T4-HNBR |
| 3/8 | 870702 | 3 | MZK-T6-HNBR |
| 1/2 | 870703 | 3 | MZK-T8-HNBR |
| 5/8 | 870704 | 2 | MZK-T10-HNBR |
| 3/4 | 870705 | 2 | MZK-T12-HNBR |
| 7/8 | 870706 | 2 | MZK-T14-HNBR |
| 1-1/8 | 870707 | 1 | MZK-T18-HNBR |
| 1-3/8 | 870708 | 1 | MZK-T22-HNBR |



| Size | Part Number | Bag Qty. | Description |
|----------------|-------------|----------|-------------|
| P-TRAPS | | | |
| 1/2 | 771203 | N/A | MZK-PT8-NA |
| 5/8 | 771204 | N/A | MZK-PT10-NA |
| 3/4 | 771205 | N/A | MZK-PT12-NA |
| 7/8 | 771206 | N/A | MZK-PT14-NA |
| 1-1/8 | 771207 | N/A | MZK-PT18-NA |
| 1-3/8 | 771208 | N/A | MZK-PT22-NA |



| Size | Part Number | Bag Qty. | Description |
|-----------------|-------------|----------|-------------|
| Y-JOINTS | | | |
| 3/8 | 771102 | N/A | MZK-Y6-NA |
| 1/2 | 771103 | N/A | MZK-Y8-NA |
| 5/8 | 771104 | N/A | MZK-Y10-NA |
| 3/4 | 771105 | N/A | MZK-Y12-NA |
| 7/8 | 771106 | N/A | MZK-Y14-NA |
| 1-1/8 | 771107 | N/A | MZK-Y18-NA |



Includes foam insulation.

| Size | Part Number | Bag Qty. | Description |
|----------------------------|-------------|----------|------------------|
| JAW SETS - 7 PIECE* | | | |
| 19 kN | 871410 | N/A | MZK-19KN JAW KIT |
| 24 kN | 871409 | N/A | MZK-24KN JAW KIT |
| 32 kN | 871408 | N/A | MZK-32KN JAW KIT |



*7 piece ROTHENBERGER jaw set contains a 1/4", 3/8", 1/2", 5/8", 3/4", 7/8", and 1-1/8" size jaw. 1-3/8" jaw sold separately.

1-3/8" JAW – For use with 32 kN press tools only. Includes depth gauge. **Part Number: 871436, Description: MZK-32KN JAW-1-3/8"**

ZoomLock MAX PRESS-TO-CONNECT REFRIGERANT FITTINGS

PRESS TOOLS

Parker Hannifin recommends the use of ROTHENBERGER press tools in combination with ZoomLock MAX ROTHENBERGER jaws. However other press tools may be used in combination with ROTHENBERGER ZoomLock MAX jaws. See table below for tool compatibility.



ROTHENBERGER
ROMAX 4000



ROTHENBERGER
Twin Turbo US

ROTHENBERGER ROMAX 4000

Includes the ROTHENBERGER ROMAX® 32 kN press tool, 2 batteries and battery charger.

- **Description:** MZK-TK-R4000
- **Part Number:** 871441

ROTHENBERGER Twin Turbo US

Includes the ROTHENBERGER Twin Turbo US 24 kN press tool, 2 batteries and battery charger.

- **Description:** MZK-TK-RCTT
- **Part Number:** 871439

| COMPATIBLE PRESS TOOLS | | 32 kN | 24 kN | 19 kN |
|------------------------|-----------------------|-------|-------|-------|
| ROTHENBERGER | ROMAX® 3000 | ✓ | — | — |
| | ROMAX® 3000 AC | ✓ | — | — |
| | ROMAX® 4000 | ✓ | — | — |
| | ROMAX® AC ECO | ✓ | — | — |
| | Twin Turbo US (TT US) | — | ✓ | — |
| | ROMAX® Compact TT | — | — | ✓ |
| | ROMAX® Compact | — | — | ✓ |
| DEWALT | DCE200 | ✓ | — | — |
| KLAUKE | UAP2/UNP2 | ✓ | — | — |
| | UAP3L/UAP4L | ✓ | — | — |
| | UP2EL14 | ✓ | — | — |
| | MAP2L19 | — | — | ✓ |
| | MAP219 | — | — | ✓ |
| MILWAUKEE | M12 Force Logic | — | ✓ | — |
| | M18 Force Logic | ✓ | — | — |
| HILTI | NPR 019 | — | — | ✓ |
| NIBCO | PC-100 | ✓ | — | — |
| | PC-280 | ✓ | — | — |
| REMS | Power-Press | ✓ | — | — |
| | Akku-Press | ✓ | — | — |
| RIDGID | 320-E | ✓ | — | — |
| | CT400 | ✓ | — | — |
| | RP 241 | — | ✓ | — |
| | RP 240 | — | ✓ | — |
| | RP 210-B | — | ✓ | — |
| | RP 200-B | — | ✓ | — |
| | RP 330-B | ✓ | — | — |
| | RP 330-C | ✓ | — | — |
| | RP 340 | ✓ | — | — |
| | RP 350 | ✓ | — | — |
| VIRAX | Viper® P25+ | ✓ | — | — |
| | Viper® P25+ | ✓ | — | — |

⚠ WARNING – USER RESPONSIBILITY

Failure or improper selection or improper use of the products described herein or related items can cause death, personal injury and property damage.

This document and other information from Parker Hannifin Corporation, its subsidiaries and authorized distributors provide product or system options for further investigation by users having technical expertise.

The user, through its own analysis and testing, is solely responsible for making the final selection of the system and components and assuring that all performance, endurance, maintenance, safety and warning requirements of the application are met. The user must analyze all aspects of the application, follow applicable industry standards, and follow the information concerning the product in the current product catalog and in any other materials provided from Parker or its subsidiaries or authorized distributors.

To the extent that Parker or its subsidiaries or authorized distributors provide component or system options based upon data or specifications provided by the user, the user is responsible for determining that such data and specifications are suitable and sufficient for all applications and reasonably foreseeable uses of the components or systems.



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