



FLAME-FREE REFRIGERANT FITTINGS

Increase productivity and profitability

ZoomLock® flame-free refrigerant fittings are specially designed to work without brazing, which automatically makes your job simpler and faster when joining copper tubes.

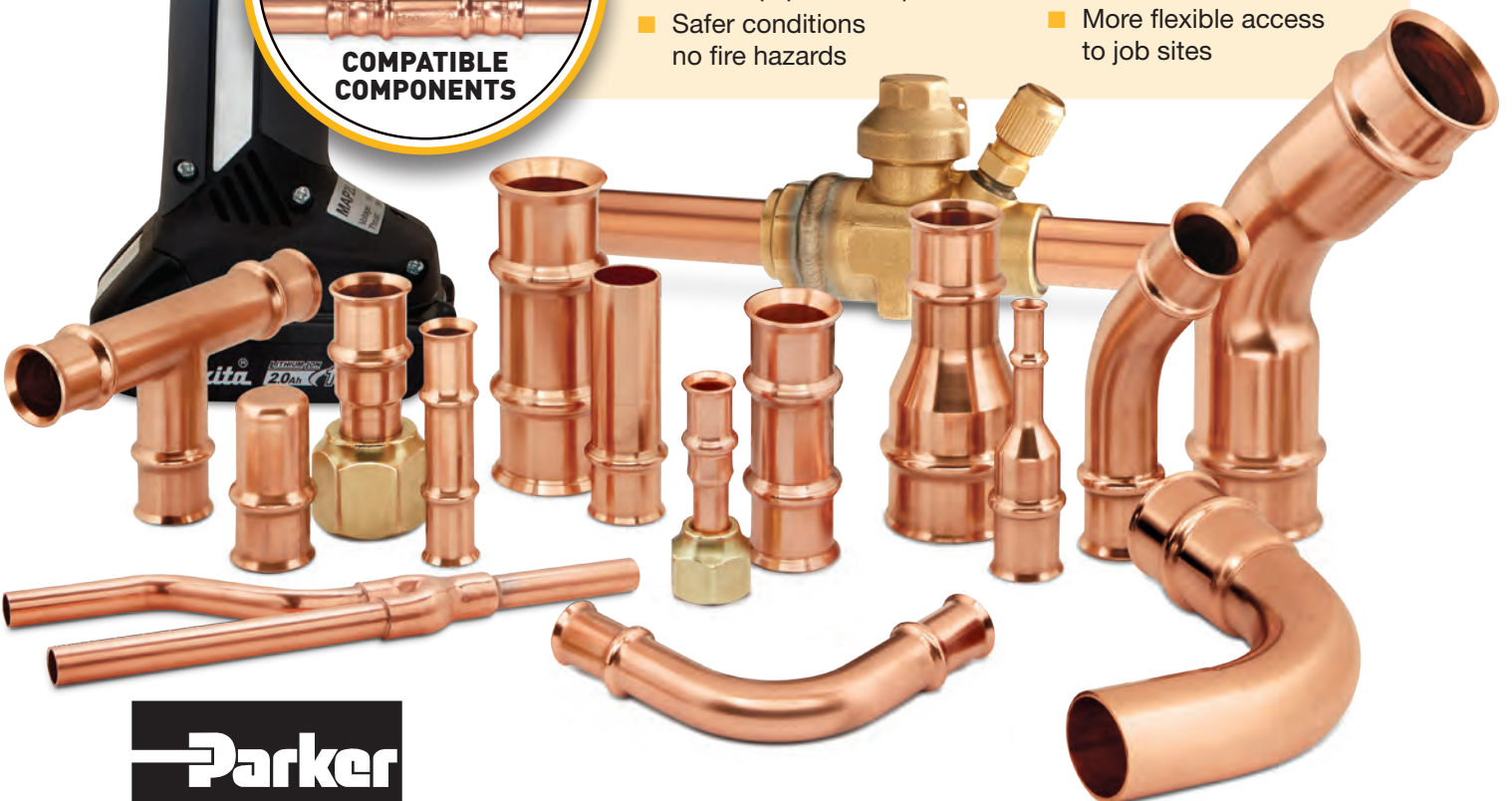
Professionals who have tried ZoomLock flame-free refrigerant fittings report their time and labor costs on tube connections are typically reduced 60% on average by eliminating the need for brazing. The biggest benefits are **more productivity and increased profit**, but there are also many other exciting advantages to flame-free tube connecting.

The ZoomLock flame-free fittings technology is patented and manufactured in the USA by RLS LLC, a Marmon Berkshire-Hathaway company. RLS LLC leverages over 100 years of copper forming experience with its sister-division Cerro Flow Products.



The ZoomLock Advantage

- For HVAC/R up to 700 psi
- Huge labor and time savings
- Less equipment required
- Safer conditions
no fire hazards
- No hot-work permits
- No need to
nitrogen-purge
- More flexible access
to job sites



ZoomLock Flame-Free Refrigerant Fittings



Applications

- High Pressure HVAC/R
- Glycol
- Non-Potable Water

Product Parameters

- **Continuous Operating Temperature:**
250°F / 121°C
- **O-Ring Temperature Rating:**
-40°F to +300°F
-40°C to +149°C
- **Maximum Rated Pressure (MRP):**
700 psi / 48 bar
- **Minimum Burst Pressure (UL 207):**
2,100 psi / 145 bar
- **Vacuum Pressure Capability:**
20 Microns
- **External Leak Rate:**
<0.1 Ounces of Helium per Year at Operating Pressure Range
- **Vibration Resistance:**
Conforms to UL109
- **Size Availability (Inches):**
1/4, 5/16, 3/8, 1/2, 5/8, 3/4, 7/8, 1-1/8, 1-3/8
- **Coming Soon:**
1-5/8", 2-1/8"

Fitting Materials

- **Fitting Body:**
Refrigerant Grade Copper, per ASTM-B75 or ASTM-B743
- **O-Ring:**
HNBR

Fitting Warranty

- Read page 30 for more details.

Compatibility

- **Approved Oils:** Mineral Oil, POE, PVE, PAG
- **Approved Tubing Materials:**
Copper to Copper Connections
- **Approved Tubing Tolerance:**
ASTM B280, UNI EN 12735
- **Approved Copper Tubing Types for Use with Klauke® 19 kN and RIDGID® Compatible Jaws:**
Hard Copper (Drawn)
- 1/4" – 1-3/8" Type ACR, M, L, K
Soft Copper (Annealed)
- 1/4" – 1-3/8" Type ACR, L, K
- **Approved Copper Tubing Types for Use with Klauke® 15 kN Compatible Jaws:**
Hard Copper (Drawn)
- 1/4" – 1-1/8" Type ACR, M, L
- Type K only up to 7/8"
Soft Copper (Annealed)
- 1/4" – 1-1/8" Type ACR, L
- Type K only up to 7/8"

Agency Approvals and Certifications

- UL Listed: 207, SA#33958, SDTW(7) (Except where noted)
- UL Listed: Approved use for field and factory installations
- ASHRAE-15, ANSI 15, ASME B31.5, ANSI 31.5
- ICC-ES, PMG-1296
2018, 2015, 2012, 2009, 2006
International Mechanical Code (IMC)
2018, 2015, 2012, 2009, 2006
International Residential Code (IRC)
2018, 2015, 2012, 2009, 2006
Uniform Mechanical Code (UMC)
- CRN - Approved for couplings and 90 degree elbows. Others coming soon.

Approved Refrigerants

| | | |
|---------|---------|-------------------|
| ■ 32* | ■ 424A | ■ 453A |
| ■ 125 | ■ 427A | ■ 454A* |
| ■ 134a | ■ 434A | ■ 454B* |
| ■ 143a* | ■ 437A | ■ 454C* |
| ■ 152a* | ■ 438A | ■ 455A* |
| ■ 227ea | ■ 442A | ■ 456A |
| ■ 290* | ■ 444A* | ■ 457A* |
| ■ 404A | ■ 444B* | ■ 458A |
| ■ 407A | ■ 445A* | ■ 507A |
| ■ 407B | ■ 446A* | ■ 513A |
| ■ 407C | ■ 447A* | ■ 513B |
| ■ 407F | ■ 448A | ■ 515A |
| ■ 407G | ■ 449A | ■ 515B |
| ■ 407H | ■ 449B | ■ 600* |
| ■ 410A | ■ 449C | ■ 600a* |
| ■ 417A | ■ 450A | ■ 718 |
| ■ 421A | ■ 451A* | ■ 1234yf* |
| ■ 422A | ■ 451B* | ■ 1234ze* |
| ■ 422B | ■ 452A | ■ Ethylene Glycol |
| ■ 422C | ■ 452B* | |
| ■ 422D | ■ 452C | |

* Flammable refrigerants. Check with local building or mechanical code officials.

Refer to ZoomLock.com for the latest approved refrigerants list.

Patents



- Refer to the following website for an up-to-date list of patents:
<http://www.rlspressfittings.com/patents/>



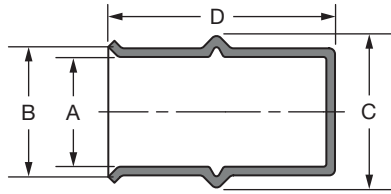
RIDGID is a registered trademark of RIDGID, Inc.

ZoomLock Flame-Free Refrigerant Fittings

Caps



Dimensions



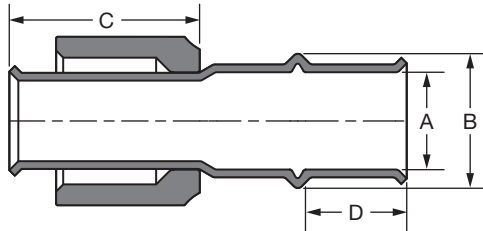
| Size | Part Number | Description | Dimensions | | | | | | | |
|--------|-------------|---------------|------------|------|------|------|------|------|------|------|
| | | | A | | B | | C | | D | |
| | | | Inch | mm | Inch | mm | Inch | mm | Inch | mm |
| 1/4 | 770900 | PZK-CP4-HNBR | 0.26 | 6.6 | 0.34 | 8.6 | 0.45 | 11.5 | 1.11 | 28.2 |
| 5/16 | 770901 | PZK-CP5-HNBR | 0.32 | 8.2 | 0.40 | 10.2 | 0.52 | 13.1 | 1.11 | 28.2 |
| 3/8 | 770902 | PZK-CP6-HNBR | 0.39 | 9.8 | 0.47 | 11.8 | 0.59 | 15.0 | 1.13 | 28.7 |
| 1/2 | 770903 | PZK-CP8-HNBR | 0.51 | 13.0 | 0.59 | 15.0 | 0.72 | 18.2 | 1.47 | 37.3 |
| 5/8 | 770904 | PZK-CP10-HNBR | 0.64 | 16.1 | 0.74 | 18.7 | 0.87 | 22.0 | 1.56 | 39.6 |
| 3/4 | 770905 | PZK-CP12-HNBR | 0.76 | 19.3 | 0.88 | 22.4 | 1.05 | 26.6 | 1.57 | 39.9 |
| 7/8 | 770906 | PZK-CP14-HNBR | 0.89 | 22.5 | 1.02 | 25.8 | 1.19 | 30.2 | 1.60 | 40.6 |
| 1-1/8 | 770907 | PZK-CP18-HNBR | 1.14 | 28.8 | 1.29 | 32.6 | 1.44 | 36.7 | 2.05 | 52.1 |
| 1-3/8* | 770908 | PZK-CP22-HNBR | 1.39 | 35.2 | 1.54 | 39.0 | 1.75 | 44.4 | 2.11 | 53.6 |

*ZoomLock 1-3/8" fittings can only be crimped with 19 kN Klauke tools or RIDGID crimping jaws.

SAE Flare



Dimensions



| Size | Part Number | Description | Dimensions | | | | | | | |
|------|-------------|--------------|------------|------|------|------|------|------|------|------|
| | | | A | | B | | C | | D | |
| | | | Inch | mm | Inch | mm | Inch | mm | Inch | mm |
| 1/4 | 771000 | PZK-F4-HNBR | 0.26 | 6.6 | 0.45 | 11.5 | 1.38 | 35.1 | 0.56 | 14.2 |
| 3/8 | 771002 | PZK-F6-HNBR | 0.39 | 9.8 | 0.59 | 15.0 | 1.38 | 35.1 | 0.58 | 14.7 |
| 1/2 | 771003 | PZK-F8-HNBR | 0.51 | 13.0 | 0.72 | 18.2 | 1.13 | 28.7 | 0.75 | 19.1 |
| 5/8 | 771004 | PZK-F10-HNBR | 0.64 | 16.1 | 0.87 | 22.1 | 1.48 | 37.6 | 0.75 | 19.1 |
| 3/4 | 771005 | PZK-F12-HNBR | 0.76 | 19.3 | 1.05 | 26.7 | 1.48 | 37.6 | 0.80 | 20.3 |