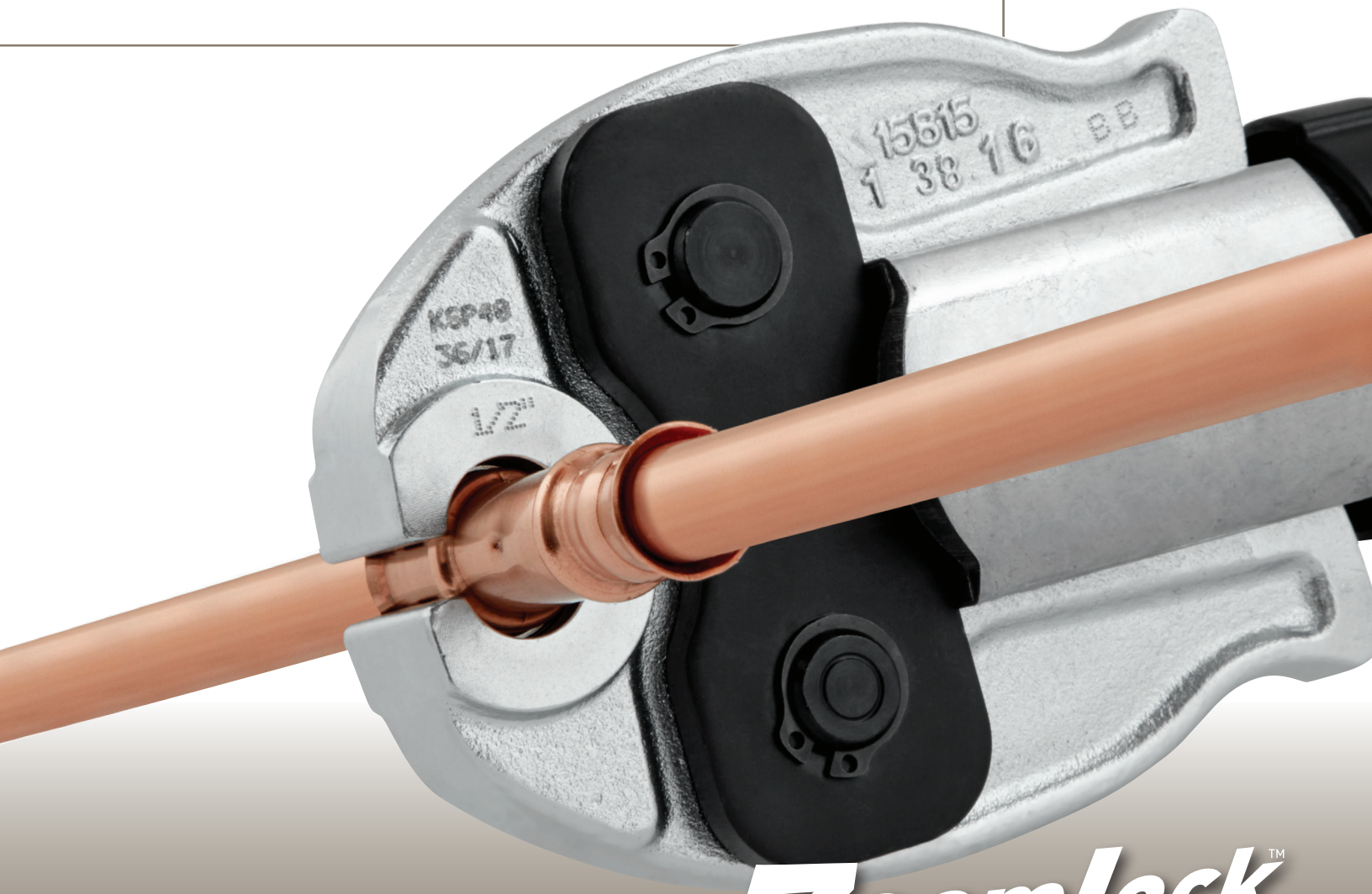


ZoomLock™ Flame-Free Refrigerant Fittings

Form P-528, Engineering Specification, February 2018



ZoomLock™



**FLAME-FREE
REFRIGERANT FITTINGS**



ENGINEERING YOUR SUCCESS.

PART 1: GENERAL

1.0 SUMMARY

- A. ZoomLock flame-free refrigerant fittings are specially designed to join HVAC/R copper tubes without brazing. ZoomLock is intended for HVAC/R applications.
- B. ZoomLock copper fittings include two pre installed o-rings. The system is assembled only using the Parker approved ZoomLock Klauke® or RIDGID® approved pressing jaws to create a permanent leak proof joint.
- C. ZoomLock fittings cannot be assembled using Viega ProPress jaws. The installer shall be mindful that the crimp location of a ZoomLock fitting is in a different location than the ProPress fittings.
- D. ZoomLock fittings and Klauke pressing tools and jaws are sold by your nearest authorized Parker Hannifin or Sporlan Division wholesaler.
- E. ZoomLock RIDGID pressing jaws are sold by your nearest authorized Parker Hannifin or Sporlan Division wholesaler. RIDGID tools are sold by your nearest RIDGID authorized wholesaler.

PART 2: PRODUCTS

2.0 REFERENCES

- A. UL 207: Standard for Refrigerant-Containing Components and Accessories, Nonelectrical
- B. UL 109: Standard for Tube Fittings for Flammable and Combustible Fluids, Refrigeration Services, and Marine Use. Vibration Test 8.1
- C. ASME B31.5: Refrigeration Piping and Heat Transfer Components
- D. ASTM B75: Standard Specification for Seamless Copper Tube
- E. ASTM B88: Standard Specification for Seamless Copper Water Tube
- F. ASTM B743: Standard Specification for Seamless Copper Tube in Coils
- G. ASTM B280: Standard Specification for Seamless Copper Tube for Air Conditioning and Refrigeration Field Service
- H. EN 12735-1: Copper and Copper Alloys. Seamless, round copper tubes for air conditioning and refrigeration. Tubes for piping systems
- I. ASHRAE – 15: Safety Standard for Refrigeration Systems
- J. ICC-ES, PMG-1296: Division 23 00 00-Heating, Ventilation and Air Conditioning
- K. ICC: International Mechanical Code (IMC)
- L. ICC: International Residential Code (IRC)
- M. IAPMO: Uniform Mechanical Code (UMC)
- N. CRN (Canadian Registration Number): #0A18303.5C
- O. Parker Catalog K-1, ZoomLock Engineering Submittal

2.1 PRODUCT PARAMETERS

- A. Applications: HVAC/R, Glycol and Non-Potable Water
- B. Continuous Operating Temperature: 250°F (121°C)
- C. O-Ring Temperature Rating: -40 to 300°F (-40 to 149°C)
- D. Maximum Rated Pressure: 700 psi (48 bar)
- E. Minimum Burst Pressure: 2,100 psi (145 bar)
- F. Vacuum Pressure Capability: 20 micron
- G. Maximum Leak Rate: 0.1 oz Helium per Year
- H. Vibration Resistance: Conforms to UL 109

2.2 APPROVED REFRIGERANTS AND OILS

- A. For the latest approved refrigerants refer to www.sporlanonline.com/ZoomLock

2.3 QUALITY ASSURANCE

- A. All qualified installers shall be trained on the safe installation of ZoomLock flame-free refrigerant fittings. They should also be licensed within the jurisdiction.
- B. ZoomLock fittings shall be installed using the proper tools and pressing jaws defined by the manufacturer.
- C. Installation of HVAC/R copper tubing shall conform to the requirements of the International Mechanical and Residential Codes and Uniform Mechanical Code.

2.4 DELIVERY, STORAGE AND HANDLING

- A. Do not stack boxes on top of ZoomLock fittings weighing more than 20 lbs.
- B. When using a knife for unpacking, take special care not to scratch copper tubing or ZoomLock fittings since this can lead to leaks.
- C. ZoomLock fittings and copper tubing shall be shipped to the job site in such a manner to protect the tubing and fittings. ZoomLock fittings and tubing shall not be roughly handled during shipment. Tubing and fittings shall be unloaded with reasonable care.
- D. Protect the stored products from moisture, dirt and debris. Maintain elevated above grade. Do not exceed the structural capacity of the floor when stored inside.

2.5 PROJECT CONDITIONS

- A. Allow the Klauke tool to reach ambient temperature if it is stored for prolonged periods of time at extreme temperatures. The ZoomLock Klauke tool's operating temperature is 14° to 104°F. The RIDGID RP-200-B operating temperature is 15°F to 122°F and the RP-210-B operating temperature is 15°F to 140°F. Both RIDGID tools work with the Compact Series RIDGID jaws.

2.6 WARRANTY

- A. ZoomLock fittings shall be free from defects in material and workmanship. The warranty shall only be applicable to the ZoomLock fittings installed in accordance with the installation instructions.
- B. ZoomLock product warranty is maintained in Catalog K-1 ZoomLock Engineering Submittal.