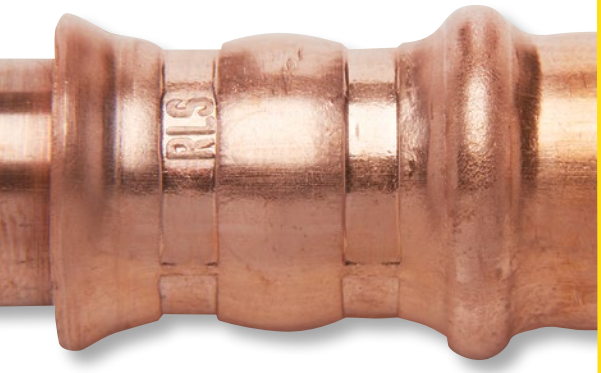
RLS®
RAPID LOCKING SYSTEM

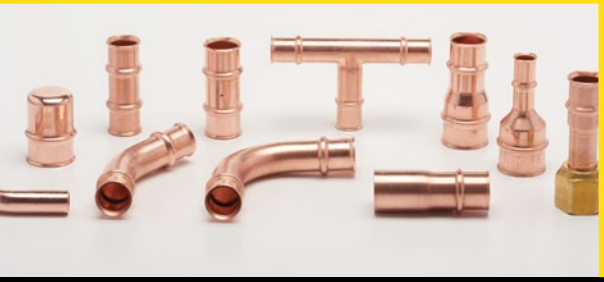
Original. Patented. Proven.

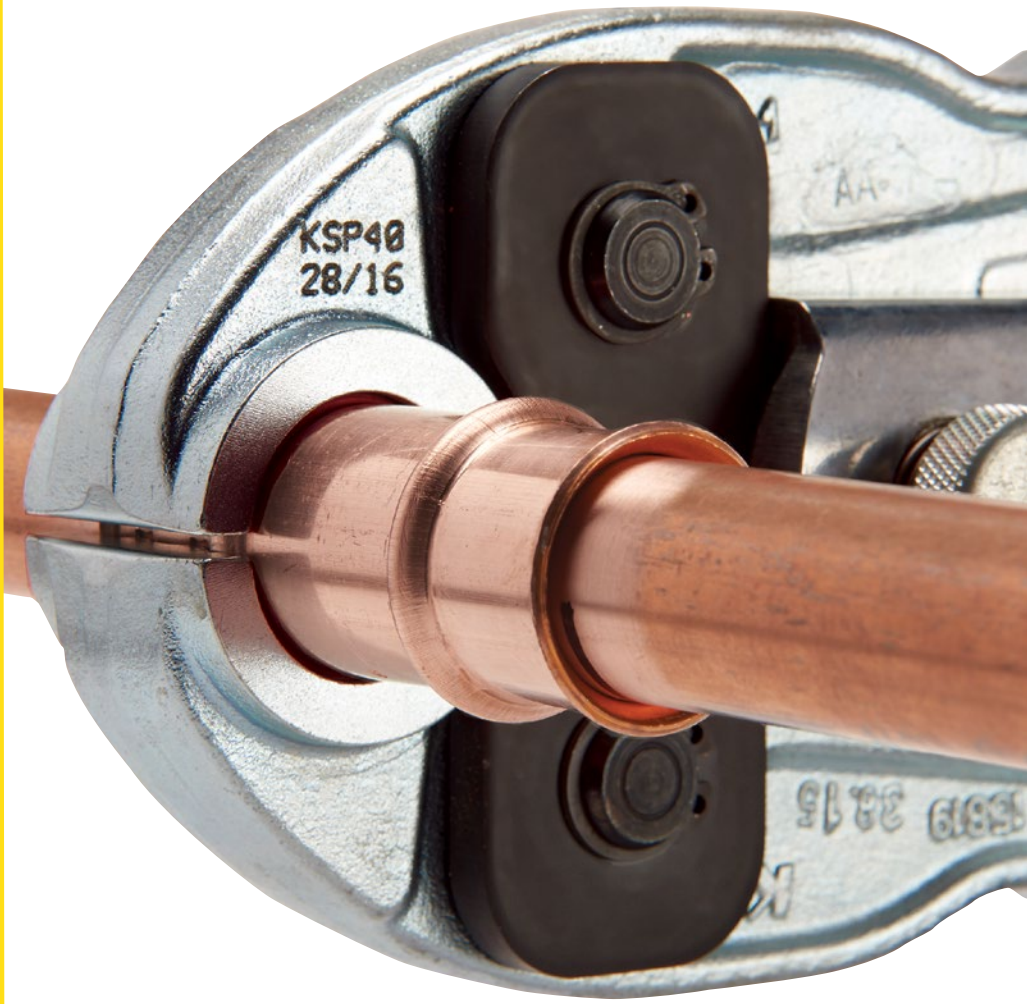
# Still the Same Great Fittings. Still the Right Choice.

Press fittings specifically engineered to join tube in high-pressure HVAC/refrigeration systems.




*The familiar RLS stamp guarantees a leak-free connection!*






www.rlspressfittings.com

- *10-year warranty on material & workmanship*
- *Over 5 million installed fittings*
- *8+ years of leak-free performance*

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Look For The Mark!

## TABLE OF CONTENTS


Introduction ..... 2-5
Couplings and Slip Couplings ..... 6
90° Elbows and 90° Street Elbows ..... 7
45° Elbows and Tees ..... 8
Reducers and Reducing Bushings ..... 9
SAE/Euro Flares and Caps ..... 10
Tools & Jaws ..... 11-13
Technical Data ..... 14
Ancillary Products ..... 15


*Compatible with Drawn and Annealed Copper Tubing made to ASTM B88 (Types L & K), ASTM B280 and ASTM B1003.*
*Type-K tubing above 7/8" installed with Klauke 19kN or RIDGID tool only!*

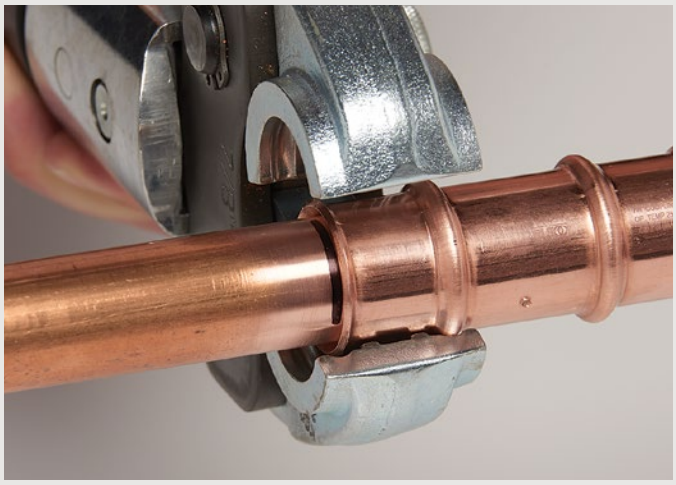
RLS press fittings were specifically designed and engineered to join copper tube in high-pressure HVAC and refrigeration systems. Our patented RLS fittings are fully registered and listed to UL207 – for pressures up 700 PSI.

These first-of-their-kind fittings connect quickly and easily using an RLS approved press tool and jaws, replacing the time-consuming practice of manually brazing joints. The pressing procedure is similar to the one used with water press fittings. RLS press fittings, however, were developed to withstand the high pressures found in HVAC/R systems.

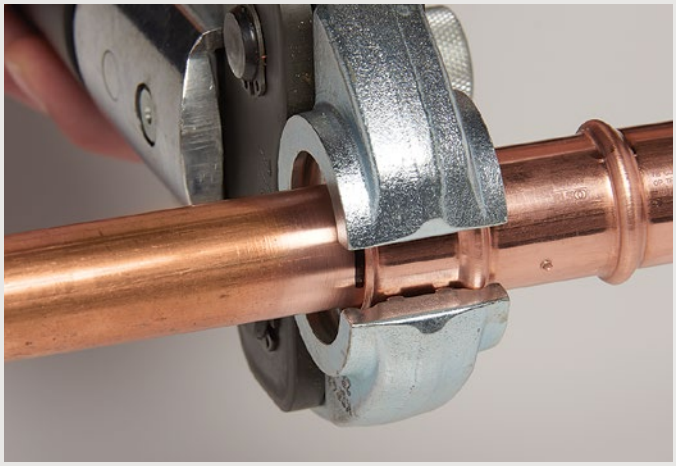
## SAFE, FAST AND RELIABLE: THE IDEAL INSTALLATION AND REPAIR SOLUTION!

The RLS press fitting system offers significant advantages for HVAC and refrigeration system installation and repair. Eliminating the brazing step means installation goes up to 60% faster, because each press connection takes just 10 seconds. So jobs that used to take a team of skilled workers many days to complete can now be performed successfully by fewer people in significantly less time, resulting in increased profit potential.

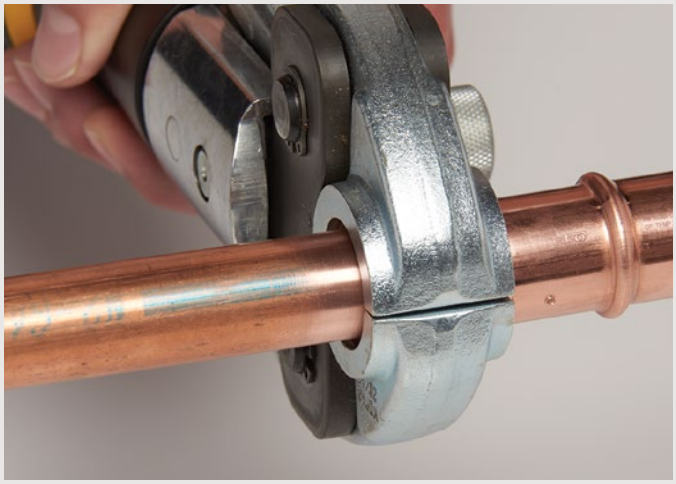
Using RLS press fittings also reduces the need for technicians who are highly skilled in brazing, while providing more consistent and reliable connections. That leads to higher quality work with reduced issues related to the failure of brazed joints. What's more, RLS fittings also come with a 10-year warranty.



*1. Insert the tube in the fitting*



*2. Align the jaws*



*3. Activate the battery-powered tool*

## *As easy as 1-2-3!*

The RLS connection process just couldn't be any easier, with minimal training and experience required. It offers a simple, yet effective and economical, way to make leak-free copper tube connections.

In a matter of seconds, a permanent and reliable mechanical joint is made, without the dangers of heat or flammable gas. Tube ends are prepped in the same way as brazing.

### *THE RLS ADVANTAGE*

- *Connects in 10 seconds*
- *UL listed to 700 psi*
- *Huge labor and time savings*
- *Less equipment required*
- *Safer conditions, no fire hazards*
- *No hot-work permits*
- *No fire spotter*
- *No need to nitrogen-purge*
- *More flexible access to job sites*
- *10-year warranty*
- *Over 5 million fittings installed*

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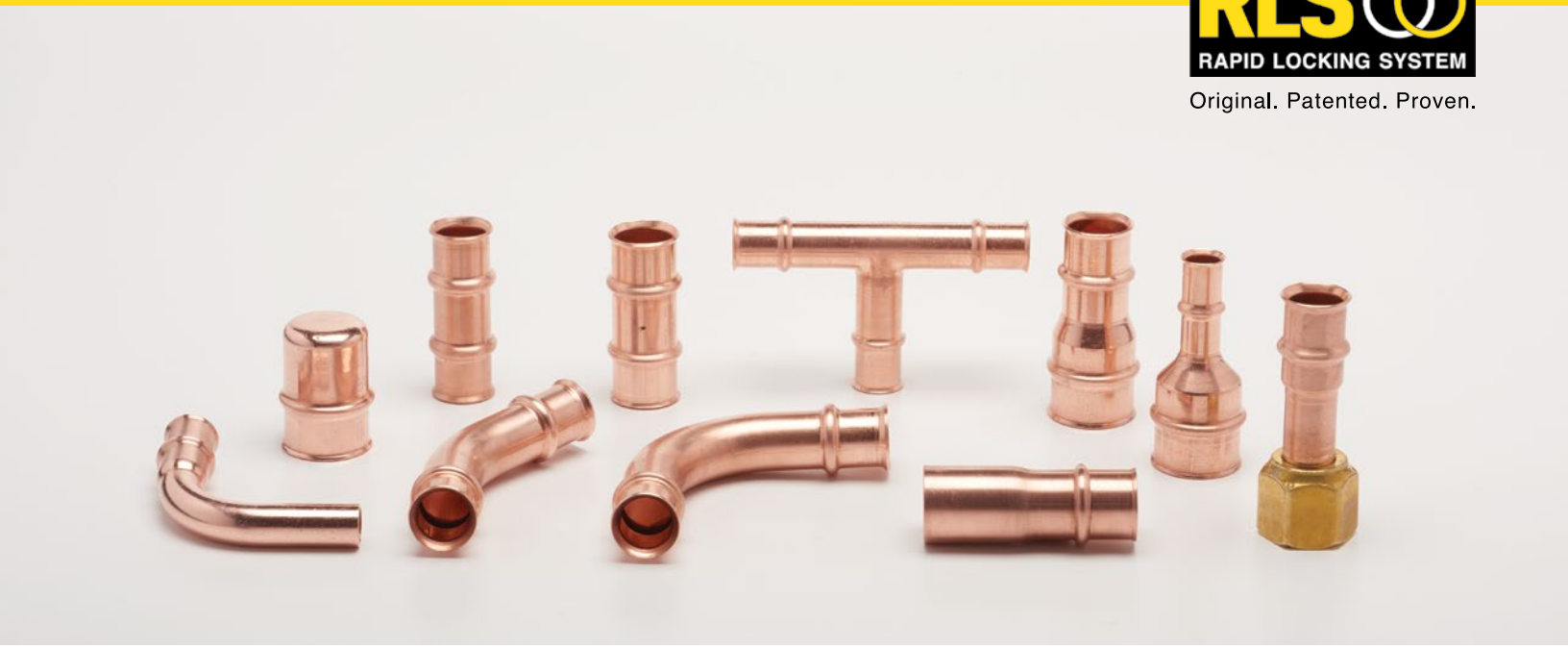


## All RLS products are approved for use with the following refrigerants:

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

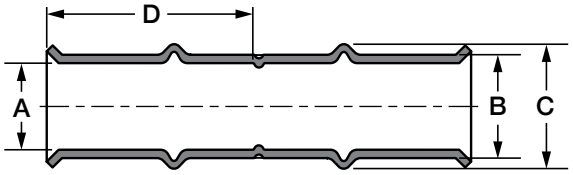
*Contact us about special blends or other refrigerants not listed here.*
*Check your local codes to ensure that RLS fittings are suitable for use with your particular refrigerant.*

## FLAME-FREE FITTINGS FOR A SAFER, EASIER FUTURE

With the industry transitioning to flammable refrigerants, contractors using RLS will benefit from offering and promoting flame-free service. The RLS press fitting system puts you in a flame-free work environment, which means hot work permits and fire spotters are no longer necessary. Plus, there's no need to nitrogen purge, or to drag heavy brazing equipment to the job site. Add up all the benefits – safer conditions, no fire hazards and increase efficiencies – and you'll see that RLS can mean big cost and time savings, with far fewer headaches.

## Couplings

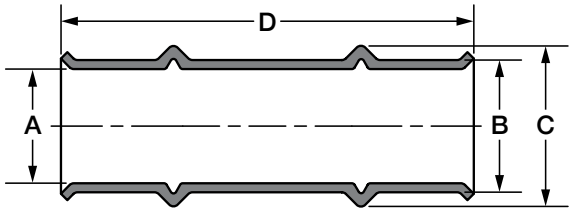
*DIMENSIONS*




| Size (Inch) | Part Number | Description | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | A | | B | | C | | D | |
| | | Inch | mm | Inch | mm | Inch | mm | Inch | mm |
| 1/4 | 3011040400111 | 0.26 | 6.6 | 0.34 | 8.6 | 0.45 | 11.4 | 0.95 | 24.1 |
| 5/16 | 3011050500111 | 0.32 | 8.2 | 0.40 | 10.2 | 0.52 | 13.2 | 0.93 | 23.6 |
| 3/8 | 3011060600111 | 0.39 | 9.8 | 0.47 | 11.8 | 0.59 | 15.0 | 0.98 | 24.9 |
| 1/2 | 3011080800111 | 0.51 | 13.0 | 0.59 | 15.0 | 0.73 | 18.5 | 1.25 | 31.8 |
| 5/8 | 3011101000111 | 0.64 | 16.1 | 0.74 | 18.7 | 0.89 | 22.6 | 1.24 | 31.5 |
| 3/4 | 3011121200111 | 0.76 | 19.3 | 0.88 | 22.4 | 1.07 | 27.2 | 1.29 | 32.8 |
| 7/8 | 3011141400111 | 0.89 | 22.5 | 1.02 | 25.8 | 1.19 | 30.2 | 1.31 | 33.3 |
| 1 | 3011161600111 | 1.01 | 25.7 | 1.16 | 29.5 | 1.36 | 34.5 | 1.31 | 33.3 |
| 1-1/8 | 3011181800111 | 1.14 | 28.8 | 1.29 | 32.6 | 1.45 | 36.8 | 1.29 | 32.8 |
| 1-1/4 | 3011202000111 | 1.26 | 32.1 | 1.41 | 35.9 | 1.62 | 41.1 | 1.30 | 33.0 |
| 1-3/8 | 3011222200111 | 1.39 | 35.2 | 1.54 | 39.0 | 1.75 | 44.5 | 1.57 | 39.9 |

## Slip Couplings

*DIMENSIONS*




| Size (Inch) | Part Number | Description | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | A | | B | | C | | D | |
| | | Inch | mm | Inch | mm | Inch | mm | Inch | mm |
| 1/4 | 3021040400111 | 0.26 | 6.6 | 0.34 | 8.6 | 0.45 | 11.4 | 2.00 | 50.8 |
| 5/16 | 3021050500111 | 0.32 | 8.2 | 0.40 | 10.2 | 0.52 | 13.2 | 2.01 | 51.1 |
| 3/8 | 3021060600111 | 0.39 | 9.8 | 0.47 | 11.8 | 0.59 | 15.0 | 2.05 | 52.1 |
| 1/2 | 3021080800111 | 0.51 | 13.0 | 0.59 | 15.0 | 0.73 | 18.5 | 2.74 | 69.6 |
| 5/8 | 3021101000111 | 0.64 | 16.1 | 0.74 | 18.7 | 0.89 | 22.6 | 2.75 | 69.9 |
| 3/4 | 3021121200111 | 0.76 | 19.3 | 0.88 | 22.4 | 1.07 | 27.2 | 2.75 | 69.9 |
| 7/8 | 3021141400111 | 0.89 | 22.5 | 1.02 | 25.8 | 1.19 | 30.2 | 2.74 | 69.6 |
| 1-1/8 | 3021181800111 | 1.14 | 28.8 | 1.29 | 32.6 | 1.45 | 36.8 | 2.77 | 70.4 |
| 1-3/8 | 3021222200111 | 1.39 | 35.2 | 1.54 | 39.0 | 1.75 | 44.5 | 3.15 | 80.0 |

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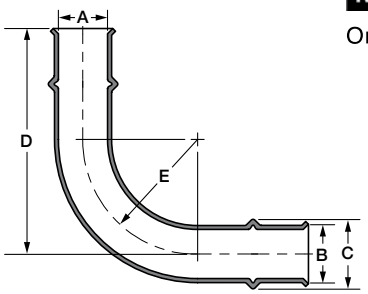
## 90° Elbows

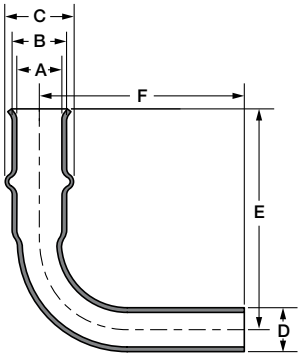
***DIMENSIONS***




| Size (Inch) | Part Number | Description | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | A | | B | | C | | D | | E | |
| | | Inch | mm | Inch | mm | Inch | mm | Inch | mm | Inch | mm |
| 1/4 | 3031040400111 | 0.26 | 6.6 | 0.34 | 8.6 | 0.45 | 11.5 | 2.01 | 51.1 | 0.68 | 17.3 |
| 5/16 | 3031050500111 | 0.32 | 8.2 | 0.40 | 10.2 | 0.52 | 13.1 | 2.13 | 54.1 | 0.81 | 20.6 |
| 3/8 | 3031060600111 | 0.39 | 9.8 | 0.47 | 11.8 | 0.59 | 14.9 | 2.27 | 57.7 | 0.93 | 23.6 |
| 1/2 | 3031080800111 | 0.51 | 13.0 | 0.59 | 15.0 | 0.73 | 18.6 | 2.88 | 73.2 | 1.18 | 30.0 |
| 5/8 | 3031101000111 | 0.64 | 16.1 | 0.74 | 18.7 | 0.89 | 22.5 | 3.21 | 81.5 | 1.47 | 37.3 |
| 3/4 | 3031121200111 | 0.76 | 19.3 | 0.88 | 22.4 | 1.07 | 27.2 | 3.47 | 88.1 | 1.76 | 44.7 |
| 7/8 | 3031141400111 | 0.89 | 22.5 | 1.02 | 25.8 | 1.19 | 30.2 | 3.75 | 95.3 | 2.03 | 51.6 |
| 1 | 3031161600111 | 1.01 | 25.7 | 1.16 | 29.5 | 1.36 | 34.6 | 4.04 | 102.6 | 2.33 | 59.2 |
| 1-1/8 | 3031181800111 | 1.14 | 28.8 | 1.29 | 32.6 | 1.45 | 36.7 | 4.29 | 109.0 | 2.54 | 64.5 |
| 1-1/4 | 3031202000111 | 1.26 | 32.1 | 1.41 | 35.9 | 1.62 | 41.0 | 4.30 | 109.2 | 2.53 | 64.3 |
| 1-3/8 | 3031222200111 | 1.39 | 35.2 | 1.54 | 39.0 | 1.75 | 44.4 | 4.54 | 115.3 | 2.75 | 69.9 |

## 90° Street Elbows

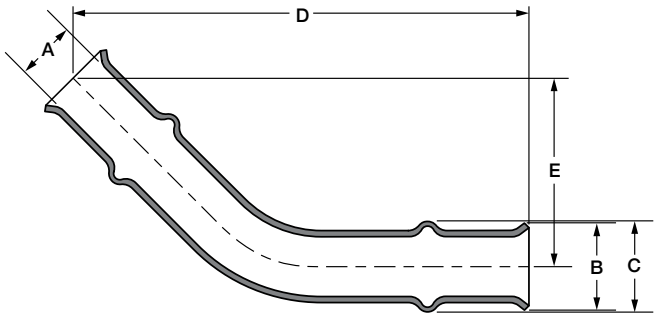
***DIMENSIONS***




| Size (Inch) | Part Number | Description | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | A | | B | | C | | D | | E | | F | |
| | | Inch | mm | Inch | mm | Inch | mm | Inch | mm | Inch | mm | Inch | mm |
| 3/8 | 3501060600111 | 0.39 | 9.8 | 0.47 | 11.8 | 0.59 | 14.9 | 0.38 | 9.5 | 1.75 | 44.5 | 1.89 | 48.0 |
| 1/2 | 3501080800111 | 0.51 | 13.0 | 0.59 | 15.0 | 0.73 | 18.6 | 0.50 | 12.7 | 2.56 | 65.0 | 2.65 | 67.3 |
| 5/8 | 3501101000111 | 0.64 | 16.1 | 0.74 | 18.7 | 0.89 | 22.5 | 0.63 | 15.9 | 2.64 | 67.1 | 2.81 | 71.4 |
| 3/4 | 3501121200111 | 0.76 | 19.3 | 0.88 | 22.4 | 1.07 | 27.2 | 0.75 | 19.1 | 3.00 | 76.2 | 3.15 | 80.0 |
| 7/8 | 3501141400111 | 0.89 | 22.5 | 1.02 | 25.8 | 1.19 | 30.2 | 0.88 | 22.2 | 3.25 | 82.6 | 3.40 | 86.4 |
| 1-1/8 | 3501181800111 | 1.14 | 28.8 | 1.29 | 32.6 | 1.45 | 36.7 | 1.13 | 28.6 | 3.80 | 96.5 | 3.93 | 99.8 |
| 1-3/8 | 3501222200111 | 1.39 | 35.2 | 1.54 | 39.0 | 1.75 | 44.4 | 1.38 | 34.9 | 4.38 | 111.3 | 4.51 | 114.6 |

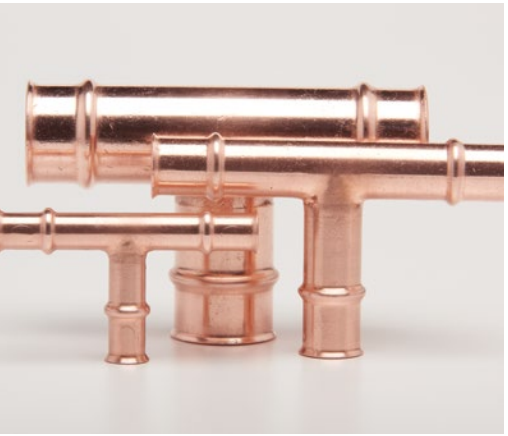
## 45° Elbows

*DIMENSIONS*

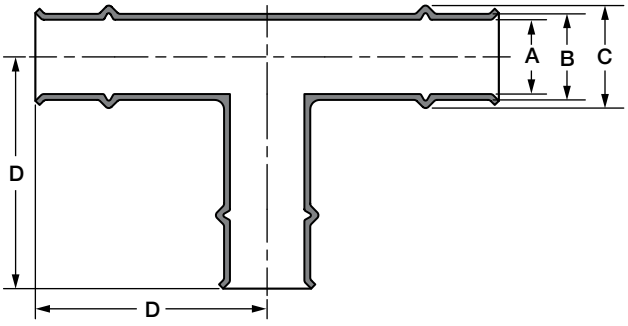



| Size (Inch) | Part Number | Description | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | A | | B | | C | | D | | E | |
| | | Inch | mm | Inch | mm | Inch | mm | Inch | mm | Inch | mm |
| 3/8 | 3081060600111 | 0.39 | 9.8 | 0.56 | 14.2 | 0.59 | 14.9 | 2.94 | 74.7 | 1.21 | 30.7 |
| 1/2 | 3081080800111 | 0.51 | 13.0 | 0.71 | 18.0 | 0.73 | 18.6 | 3.72 | 94.5 | 1.54 | 39.1 |
| 5/8 | 3081101000111 | 0.64 | 16.1 | 0.86 | 21.8 | 0.88 | 22.5 | 3.97 | 100.8 | 1.64 | 41.7 |
| 3/4 | 3081121200111 | 0.76 | 19.3 | 1.02 | 25.9 | 1.07 | 27.2 | 4.12 | 104.6 | 1.70 | 43.2 |
| 7/8 | 3081141400111 | 0.89 | 22.5 | 1.13 | 28.7 | 1.19 | 30.2 | 4.49 | 114.0 | 1.86 | 47.2 |
| 1-1/8 | 3081181800111 | 1.14 | 28.8 | 1.41 | 35.8 | 1.45 | 36.7 | 4.84 | 122.9 | 2.00 | 50.8 |
| 1-3/8 | 3081222200111 | 1.39 | 35.2 | 1.68 | 42.7 | 1.75 | 44.4 | 5.11 | 129.8 | 2.11 | 53.6 |

## Tees



*DIMENSIONS*




| Size (Inch) | Part Number | Description | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | A | | B | | C | | D | |
| | | Inch | mm | Inch | mm | Inch | mm | Inch | mm |
| 3/8 | 3091060606111 | 0.39 | 9.8 | 0.47 | 11.8 | 0.59 | 14.9 | 1.63 | 41.4 |
| 1/2 | 3091080808111 | 0.51 | 13.0 | 0.59 | 15.0 | 0.72 | 18.2 | 2.23 | 56.6 |
| 5/8 | 3091101010111 | 0.64 | 16.1 | 0.74 | 18.7 | 0.87 | 22.0 | 2.30 | 58.4 |
| 3/4 | 3091121212111 | 0.76 | 19.3 | 0.88 | 22.4 | 1.05 | 26.6 | 2.38 | 60.5 |
| 7/8 | 3091141414111 | 0.89 | 22.5 | 1.02 | 25.8 | 1.19 | 30.2 | 2.43 | 61.7 |
| 1 | 3091161616111 | 1.01 | 25.7 | 1.16 | 29.5 | 1.36 | 34.6 | 2.59 | 65.8 |
| 1-1/8 | 3091181818111 | 1.14 | 28.8 | 1.29 | 32.6 | 1.45 | 36.7 | 2.56 | 65.0 |
| 1-1/4 | 3091202020111 | 1.26 | 32.1 | 1.41 | 35.9 | 1.62 | 41.0 | 3.36 | 85.3 |
| 1-3/8 | 3091222222111 | 1.39 | 35.2 | 1.54 | 39.0 | 1.75 | 44.4 | 3.36 | 85.3 |

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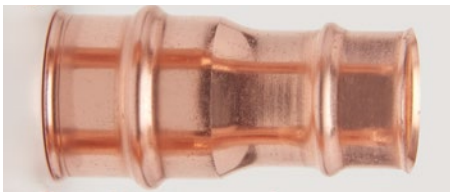
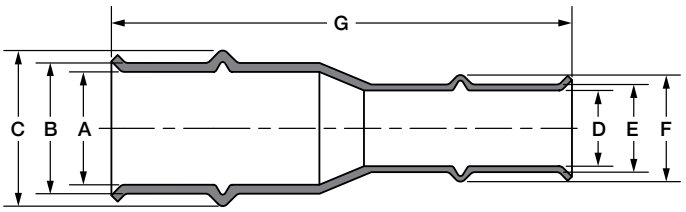
# Reducers



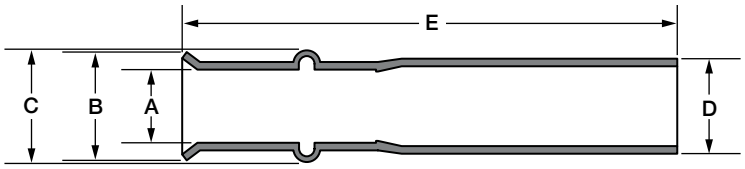
***DIMENSIONS***




| Size (Inch) | Part Number | Description | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | A | | B | | C | | D | | E | | F | | G | |
| | | Inch | mm | Inch | mm | Inch | mm | Inch | mm | Inch | mm | Inch | mm | Inch | mm |
| 3/8 to 1/4 | 3051060400111 | 0.39 | 9.8 | 0.47 | 11.8 | 0.59 | 14.9 | 0.26 | 6.6 | 0.34 | 8.6 | 0.45 | 11.5 | 2.24 | 56.9 |
| 1/2 to 1/4 | 3051080400111 | 0.51 | 13.0 | 0.59 | 15.0 | 0.73 | 18.6 | 0.26 | 6.6 | 0.34 | 8.6 | 0.45 | 11.5 | 2.71 | 68.8 |
| 1/2 to 3/8 | 3051080600111 | 0.51 | 13.0 | 0.59 | 15.0 | 0.73 | 18.6 | 0.39 | 9.8 | 0.47 | 11.8 | 0.58 | 14.8 | 2.58 | 65.5 |
| 5/8 to 1/4 | 3051100400111 | 0.64 | 16.1 | 0.74 | 18.7 | 0.89 | 22.5 | 0.26 | 6.6 | 0.34 | 8.6 | 0.45 | 11.5 | 2.70 | 68.6 |
| 5/8 to 3/8 | 3051100600111 | 0.64 | 16.1 | 0.74 | 18.7 | 0.89 | 22.5 | 0.39 | 9.8 | 0.47 | 11.8 | 0.58 | 14.8 | 2.70 | 68.6 |
| 5/8 to 1/2 | 3051100800111 | 0.64 | 16.1 | 0.74 | 18.7 | 0.87 | 22.1 | 0.51 | 13.0 | 0.59 | 15.0 | 0.72 | 18.2 | 3.10 | 78.7 |
| 3/4 to 1/2 | 3051120800111 | 0.76 | 19.3 | 0.88 | 22.4 | 1.05 | 26.7 | 0.51 | 13.0 | 0.59 | 15.0 | 0.72 | 18.2 | 3.10 | 78.7 |
| 3/4 to 5/8 | 3051121000111 | 0.76 | 19.3 | 0.88 | 22.4 | 1.05 | 26.7 | 0.64 | 16.1 | 0.74 | 18.7 | 0.87 | 22.1 | 3.00 | 76.2 |
| 7/8 to 1/2 | 3051140800111 | 0.89 | 22.5 | 1.02 | 25.8 | 1.19 | 30.2 | 0.51 | 13.0 | 0.59 | 15.0 | 0.72 | 18.2 | 3.05 | 77.5 |
| 7/8 to 5/8 | 3051141000111 | 0.89 | 22.5 | 1.02 | 25.8 | 1.19 | 30.2 | 0.64 | 16.1 | 0.74 | 18.7 | 0.87 | 22.1 | 3.05 | 77.5 |
| 7/8 to 3/4 | 3051141200111 | 0.89 | 22.5 | 1.02 | 25.8 | 1.19 | 30.2 | 0.76 | 19.3 | 0.88 | 22.4 | 1.05 | 26.7 | 3.11 | 79.0 |
| 1 to 7/8 | 3051161400111 | 1.01 | 25.7 | 1.16 | 29.5 | 1.37 | 34.7 | 0.89 | 22.5 | 1.02 | 25.8 | 1.19 | 30.2 | 3.09 | 78.5 |
| 1-1/8 to 1/2 | 3051180800111 | 1.14 | 28.8 | 1.29 | 32.6 | 1.45 | 36.7 | 0.51 | 13.0 | 0.59 | 15.0 | 0.72 | 18.2 | 3.25 | 82.6 |
| 1-1/8 to 5/8 | 3051181000111 | 1.14 | 28.8 | 1.29 | 32.6 | 1.45 | 36.7 | 0.64 | 16.1 | 0.74 | 18.7 | 0.87 | 22.1 | 3.25 | 82.6 |
| 1-1/8 to 3/4 | 3051181200111 | 1.14 | 28.8 | 1.29 | 32.6 | 1.45 | 36.7 | 0.76 | 19.3 | 0.88 | 22.4 | 1.05 | 26.7 | 3.18 | 80.8 |
| 1-1/8 to 7/8 | 3051181400111 | 1.14 | 28.8 | 1.29 | 32.6 | 1.45 | 36.7 | 0.89 | 22.5 | 1.02 | 25.8 | 1.19 | 30.2 | 3.10 | 78.7 |
| 1-3/8 to 7/8 | 3051221400111 | 1.39 | 35.2 | 1.54 | 39.0 | 1.75 | 44.4 | 0.89 | 22.5 | 1.02 | 25.8 | 1.19 | 30.2 | 3.66 | 93.0 |
| 1-3/8 to 1 1/8 | 3051221800111 | 1.39 | 35.2 | 1.54 | 39.0 | 1.75 | 44.4 | 1.14 | 28.8 | 1.29 | 32.6 | 1.45 | 36.7 | 3.34 | 84.8 |

# Reducing Bushings

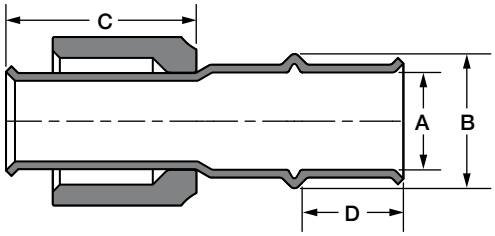
***DIMENSIONS***




| Size (Inch) | Part Number | Description | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | A | | B | | C | | D | | E | |
| | | Inch | mm | Inch | mm | Inch | mm | Inch | mm | Inch | mm |
| 1/2 to 3/8 | 3521080600111 | 0.39 | 9.8 | 0.56 | 14.2 | 0.59 | 14.9 | 0.50 | 12.7 | 2.50 | 63.5 |
| 5/8 to 1/2 | 3521100800111 | 0.51 | 13.0 | 0.68 | 17.3 | 0.72 | 18.2 | 0.63 | 15.9 | 2.95 | 74.9 |
| 3/4 to 5/8 | 3521121000111 | 0.64 | 16.1 | 0.84 | 21.3 | 0.87 | 22.0 | 0.75 | 19.1 | 2.98 | 75.7 |
| 7/8 to 3/4 | 3521141200111 | 0.76 | 19.3 | 1.02 | 25.9 | 1.05 | 26.6 | 0.88 | 22.2 | 3.04 | 77.2 |
| 1-1/8 to 7/8 | 3521181400111 | 0.89 | 22.5 | 1.10 | 27.9 | 1.19 | 30.2 | 1.13 | 28.6 | 3.06 | 77.7 |
| 1-3/8 to 1-1/8 | 3521221800111 | 1.14 | 28.8 | 1.40 | 35.6 | 1.45 | 35.6 | 1.38 | 34.9 | 3.12 | 79.2 |

## SAE/Euro Flares

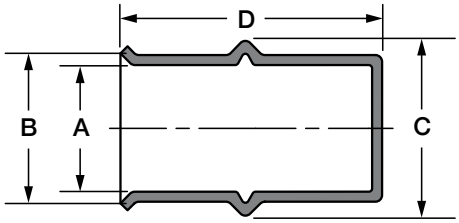
*DIMENSIONS*




| Size (Inch) | Part Number | Description | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | A | | B | | C | | D | |
| | | Inch | mm | Inch | mm | Inch | mm | Inch | mm |
| 1/4 | 3291040000111 | 0.26 | 6.6 | 0.45 | 11.5 | 1.38 | 35.1 | 0.56 | 14.2 |
| 3/8 | 3291060000111 | 0.39 | 9.8 | 0.59 | 14.9 | 1.38 | 35.1 | 0.58 | 14.7 |
| 1/2 | 3291080000111 | 0.51 | 13.0 | 0.72 | 18.2 | 1.13 | 28.7 | 0.75 | 19.1 |
| 5/8 | 3291100000111 | 0.64 | 16.1 | 0.87 | 22.0 | 1.48 | 37.6 | 0.75 | 19.1 |
| 3/4 | 3291120000111 | 0.76 | 19.3 | 1.05 | 26.6 | 1.48 | 37.6 | 0.80 | 20.3 |

## Caps

*DIMENSIONS*




| Size (Inch) | Part Number | Description | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | A | | B | | C | | D | |
| | | Inch | mm | Inch | mm | Inch | mm | Inch | mm |
| 1/4 | 3071040000111 | 0.26 | 6.6 | 0.34 | 8.6 | 0.45 | 11.5 | 1.45 | 36.8 |
| 5/16 | 3071050000111 | 0.32 | 8.2 | 0.40 | 10.2 | 0.52 | 13.1 | 1.45 | 36.8 |
| 3/8 | 3071060000111 | 0.39 | 9.8 | 0.47 | 11.8 | 0.59 | 14.9 | 1.45 | 36.8 |
| 1/2 | 3071080000111 | 0.51 | 13.0 | 0.59 | 15.0 | 0.72 | 18.2 | 1.97 | 50.0 |
| 5/8 | 3071100000111 | 0.64 | 16.1 | 0.74 | 18.7 | 0.87 | 22.0 | 1.98 | 50.3 |
| 3/4 | 3071120000111 | 0.76 | 19.3 | 0.88 | 22.4 | 1.05 | 26.6 | 1.97 | 50.0 |
| 7/8 | 3071140000111 | 0.89 | 22.5 | 1.02 | 25.8 | 1.19 | 30.2 | 1.90 | 48.3 |
| 1 | 3071160000111 | 1.01 | 25.7 | 1.16 | 29.5 | 1.36 | 34.6 | 2.00 | 50.8 |
| 1-1/8 | 3071180000111 | 1.14 | 28.8 | 1.29 | 32.6 | 1.45 | 36.7 | 1.99 | 50.5 |
| 1-1/4 | 3071200000111 | 1.26 | 32.1 | 1.41 | 35.9 | 1.62 | 41.0 | 2.50 | 63.5 |
| 1-3/8 | 3071220000111 | 1.39 | 35.2 | 1.54 | 39.0 | 1.75 | 44.4 | 2.49 | 63.2 |

RLS® RAPID LOCKING SYSTEM
Original. Patented. Proven.

# Klauke® 19 kN Crimping Tool

**Benefits**:

- Lightweight design increases productivity
- Short pressing cycle, 5-7 seconds
- Compact design and 350° jaw rotation allows technician to install in tightspaces
- Automatic piston return
- Safety feature that allows crimp cycle to be interrupted – allows manual release of piston, if needed
- High-quality, powerful Makita Li-Ion technology provides 100-150 crimps per charge, with charging time of just 15 minutes (2.0 Ah)
- Tool service indicated via imbedded LEDs, illuminates at 10,000 cycles
- Tool warranty is 24 months from date of purchase

*The compact yet high-power Kauke 19 kN crimping tool crimps fittings in less than 10 seconds.*

**Features**:

**Crimping Force:** 19 kN

**Minimum Crimp Pressure:** 525 bar/7,613 psi

**Number of Crimps:** 2.0 Ah approx. 150 (for NS20)

**Battery Capacity:** 18V / 2.0 Ah Li-Ion Makita (BL1820B)

**Charging Time:** 15 minutes

**Operating Temp. Range:** 14°F to 104°F (-10°C to 40°C)

**Jaw Holder:** Swivels through 350°

**Weight with Battery:**
Without Jaw: 1.8 kg (4.0 lb.)
Including Jaw: 3.1 kg (6.8 lb)

**Dimensions:** 395 x 80 x 118 mm

**Diagnostics:**
PGA 1 Compatible - Yes
i-press Software Compatible - Yes

**Tool Warranty:** 24 months from date of purchase

## KJ Series Jaws

KJ Series are available in 1/4", 5/16", 3/8", 1/2", 5/8", 3/4", 7/8", 1", 1-1/8", 1-1/4" and 1-3/8" sizes.

# Klauke® Tools and Jaws

**Tool Kit (no jaws)**
Includes the Klauke 19kN Crimping Tool and Accessory Kit (contents listed below) in a hard plastic carrying case.
Part number: 3610000000000

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**Tool Kit with 3-Jaw Set**
Includes the Klauke 19kN Crimping Tool, 3 Jaws (3/8", 1/2", 7/8"), and Accessory Kit (contents listed below) in a hard plastic carrying case.
Part number: 3620000000000

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**Tool Kit with 5-Jaw Set**
Includes the Klauke 19kN Crimping Tool, 5 Jaws (3/8", 1/2", 5/8", 7/8", 1-1/8"), and Accessory Kit (contents listed below) in a hard plastic carrying case.
Part number: 3630000000000

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**Jaw Set**
Includes 8 Jaws (1/4", 3/8", 1/2", 5/8", 3/4", 7/8", 1-1/8", 1-3/8") in a hard plastic carrying case.
Part number: 3471000000100

Individual jaws are also available in all fitting sizes, 1/4" through 1-3/8".

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**Accessory Kit**:

- Tubing Cutter
- Deburring Tool
- RLS Crimp Gauge
- Brush
- RLS Depth Gauge
- Abrasive Pad
- Permanent Maker

RLS® RAPID LOCKING SYSTEM

Original. Patented. Proven.

# RIDGID® Jaws

RIDGID introduced North American plumbers to pressing nearly 20 years ago, and they take their industry leadership position seriously. The same is true of RLS. That's why we're proud to also partner with RIDGID to offer jaws for use with various RIDGID press tools that are compatible with RLS refrigerant press fittings. (RIDGID press tools are sold through RIDGID distributors.)

## RIDGID 8-Jaw Set

The RIDGID 8-Jaw Set comes in a hard plastic carrying case and includes a tube cutter, deburring tools, crimp gauge, depth gauge, stainless steel brush, abrasive pad and permanent marker. Jaw sizes include 1/4", 3/8", 1/2", 5/8", 3/4", 7/8", 1-1/8" and 1-3/8". (5/16" jaw sold separately). Part number: 3391000000100

## RLS-Compatible RIDGID Tools

RIDGID Press Tools are industry leaders because of their versatility, efficiency and quality. Available in lightweight pistol-grip and inline models. RLS-compatible RIDGID Press Tools include the RP 240, RP 241, RP 200, RP 210 and RP 100 models.

## Applications

- High Pressure HVAC/R
- Ethylene 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: <200 Microns
- External Helium Leak Rate: <7.5 x $10^{-7}$ Pa•$m^3$/s
  at 20°C & 10 bar
- Vibration Resistance: Conforms to UL109
- Size Availability (Inches): 1/4, 5/16, 3/8, 1/2, 5/8,
  3/4, 7/8, 1, 1-1/8, 1-1/4, 1-3/8

## Fitting Materials

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

## 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 & Factory
  Installations
- ISO 14903 Compliant
- 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 (#0A18303)

## RLS Press Fitting Patents

- RLS Press-to-Connect Fitting
- U.S. Patent No. 9,145,992
- U.S. Patent No. 9,638,361
- U.S. Patent No. D730,494
- Australian Patent No. 2012362443
- Canadian Design Registration No. 149228
- EUIPO Registered Community Design No.
  002218636-0001
- Japanese Patent No. 6051468
- Other Pending Patent Applications

## RLS Press Tools and Jaws Patents

- Australian Design Registration No. 361533
- Canadian Design Registration No. 161804
- EUIPO Registered Community Design No.
  002672667-0001
- Japanese Design Registration No. 1537545
- Other Pending Patent Applications

RAPID LOCKING SYSTEM

Original. Patented. Proven.

RLS offers a selection of ancillary products that can complement our RLS press fittings on any job. From filter dryers to sight glasses to valves and more, you can purchase these items with confidence knowing that they'll work perfectly with the RLS press fitting system. Contact your RLS representative or distributor for complete details.

**About RLS**

RLS Group designed, engineered and introduced the first press-to-connect fittings for the HVAC and refrigeration industries in 2014. Since then then company has continued to expand its product line, regularly introducing new products and new sizes to meet market needs. Today, there are more than 5 million RLS fittings installed worldwide, with some in service for more tlhan 8 years.

RLS is part of Marmon Holdings, a global industrial organization comprising 10 diverse business sectors and more than 100 autonomous manufacturing and service businesses with revenues of more than $8.1 billion in 2018. Marmon Holdings is a Berkshire Hathaway company.

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www.rlspressfittings.com
generalinfo@rlspressfittings.com