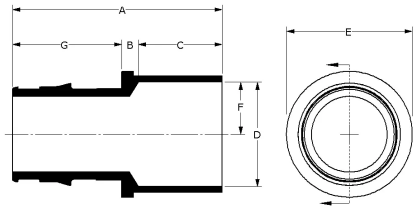
# ProPEX lead-free (LF) brass sweat adapters

## Project information

| | |
|---|---|
| Job name: | Location: |
| Engineer: | Date submitted: |
| Contractor: | Submitted by: |
| Manufacturer's representative: | Approved by: |

## Technical data

| | |
|---|---|
| Material | LF Brass |
| Temp/pressure ratings | 73 °F (23 °C) at 160 psi (11 bar)<br>180 °F (82 °C) at 100 psi (6.9 bar)<br>200 °F (93 °C) at 80 psi (5.5 bar) |
| Prop 65 label required? | Yes |




## Product information and application use

ProPEX® lead-free (LF) brass sweat adapters transition Uponor PEX tubing to copper pipe for use in hot and cold domestic potable water systems, residential fire safety and hydronic radiant heating and cooling systems. These adapters are safe for direct burial in soil.

Note: Temperature and pressure ratings stated are hydrostatic ratings. For domestic hot-water (DHW) and DHW recirculation installations, operating conditions should not exceed 140°F (60°C) at 80 psi (5.5 bar) in accordance with ASTM F2023. For additional information regarding application-specific temperature and pressure ratings, refer to the Uponor PEX Piping Systems Design and Installation Manual.

| | Part name | Part no. | A [inch] | B [inch] | C [inch] | D [inch] | E [inch] | F [inch] | G [inch] | Cv | Equivalent length through [ft] | End Type 1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ProPEX LF Brass Sweat Adapter, 3/8" PEX x 1/2" Copper | LF4513850 | 1.32 | 0.229 | 0.5 | 0.629 | 0.719 | 0.315 | 0.591 | 5.7 | 2 | ProPEX 3/8" |
| | ProPEX LF Brass Sweat Adapter, 3/4" PEX x 3/4" Copper | LF4517575 | 1.863 | 0.168 | 0.75 | 0.879 | 1.1 | 0.439 | 0.945 | 13.4 | 2.1 | ProPEX 3/4" |
| | ProPEX LF Brass Sweat Adapter, 1" PEX x 1" Copper | LF4511010 | 2.268 | 0.177 | 0.91 | 1.13 | 1.36 | 0.565 | 1.181 | 22.1 | 2.4 | ProPEX 1" |
| | ProPEX LF Brass Sweat Adapter, 1 1/4" PEX x 1 1/4" Copper | LF4511313 | 2.608 | 0.193 | 0.97 | 1.38 | 1.64 | 0.69 | 1.445 | 34 | 3.9 | ProPEX 1-1/4" |
| | ProPEX LF Brass Sweat Adapter, 1/2" PEX x 3/4" Copper | LF4515075 | 1.634 | 0.175 | 0.75 | 0.879 | 0.987 | 0.439 | 0.709 | 5.1 | 2.7 | ProPEX 1/2" |
| | ProPEX LF Brass Sweat Adapter, 1/2" PEX x 1/2" Copper | LF4515050 | 1.368 | 0.159 | 0.5 | 0.629 | 0.77 | 0.315 | 0.709 | 5.7 | 2 | ProPEX 1/2" |
| | ProPEX LF Brass Sweat Adapter, 3/4" PEX x 1/2" Copper | LF4517550 | 1.674 | 0.229 | 0.5 | 0.629 | 1.1 | 0.315 | 0.945 | 8.8 | 1.4 | ProPEX 3/4" |
| | ProPEX LF Brass Sweat Adapter, 3/4" PEX x 1" Copper | LF4517510 | 2.094 | 0.239 | 0.91 | 1.13 | 1.256 | 0.565 | 0.945 | 10.9 | 3.7 | ProPEX 3/4" |
| ✔ | ProPEX LF Brass Sweat Adapter, 1 1/2" PEX x 1 1/2" Copper | LF4511515 | 3.062 | 0.268 | 1.09 | 1.63 | 1.85 | 0.815 | 1.704 | 45.5 | 4.3 | ProPEX 1-1/2" |
| | ProPEX LF Brass Sweat Adapter, 2" PEX x 2" Copper | LF4512020 | 3.73 | 0.243 | 1.34 | 2.13 | 2.6 | 1.065 | 2.147 | 83.6 | 5.3 | ProPEX 2" |
| | ProPEX LF Brass Sweat Adapter, 2 1/2" PEX x 2 1/2" Copper | LF4512525 | 4.58 | 0.28 | 1.47 | 2.63 | 3.36 | 1.315 | - | 136.2 | 6.89 | ProPEX 2-1/2" |
| | ProPEX LF Brass Sweat Adapter, 3" PEX x 3" Copper | LF4513030 | 5.33 | 0.29 | 1.66 | 3.13 | 3.79 | 1.565 | - | 189.1 | 8.79 | ProPEX 3" |

| | Part name | Part no. | End Type 2 | Weight per UOM [lbs/UOM] |
|---|---|---|---|---|
| | ProPEX LF Brass Sweat Adapter, 3/8" PEX x 1/2" Copper | LF4513850 | Sweat 1/2" | 0.05 |
| | ProPEX LF Brass Sweat Adapter, 3/4" PEX x 3/4" Copper | LF4517575 | Sweat 3/4" | 0.11 |
| | ProPEX LF Brass Sweat Adapter, 1" PEX x 1" Copper | LF4511010 | Sweat 1" | 0.2 |
| | ProPEX LF Brass Sweat Adapter, 1 1/4" PEX x 1 1/4" Copper | LF4511313 | Sweat 1-1/4" | 0.35 |
| | ProPEX LF Brass Sweat Adapter, 1/2" PEX x 3/4" Copper | LF4515075 | Sweat 3/4" | 0.09 |
| | ProPEX LF Brass Sweat Adapter, 1/2" PEX x 1/2" Copper | LF4515050 | Sweat 1/2" | 0.05 |
| | ProPEX LF Brass Sweat Adapter, 3/4" PEX x 1/2" Copper | LF4517550 | Sweat 1/2" | 0.1 |

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| | | | | |
|---|---|---|---|---|
| | ProPEX LF Brass Sweat Adapter, 3/4" PEX x 1" Copper | LF4517510 | Sweat 1" | 0.17 |
| ✔ | ProPEX LF Brass Sweat Adapter, 1 1/2" PEX x 1 1/2" Copper | LF4511515 | Sweat 1-1/2" | 0.5 |
| | ProPEX LF Brass Sweat Adapter, 2" PEX x 2" Copper | LF4512020 | Sweat 2" | 1 |
| | ProPEX LF Brass Sweat Adapter, 2 1/2" PEX x 2 1/2" Copper | LF4512525 | Sweat 2-1/2" | 1.9 |
| | ProPEX LF Brass Sweat Adapter, 3" PEX x 3" Copper | LF4513030 | Sweat 3" | 2.85 |

| Part name | Part no. | Codes | Standards | Listings |
|---|---|---|---|---|
| ProPEX lead-free (LF) brass sweat adapters | All | UPC\|IBC\|IRC\|IPC\|NPC of Canada\|UMC\|NSPC\|IMC | NSF/ANSI/CAN 372\|ASTM F877\|ASTM F1960\|CSA B137.5\|NSF/ANSI/CAN 61\|NSF/ANSI 14 | IAPMO-ES\|ICC-ES-PMG\|U.P.Code |
| In addition, the following parts have additional codes, standards, or listings: | | | | |
| ProPEX LF Brass Sweat Adapter, 3/8" PEX x 1/2" Copper | LF4513850 | | | cNSFus-pw-G |
| ProPEX LF Brass Sweat Adapter, 3/4" PEX x 3/4" Copper | LF4517575 | | UL 1821 | cNSFus-pw-fs-G |
| ProPEX LF Brass Sweat Adapter, 1" PEX x 1" Copper | LF4511010 | | UL 1821 | cNSFus-pw-fs-G |
| ProPEX LF Brass Sweat Adapter, 1 1/4" PEX x 1 1/4" Copper | LF4511313 | | UL 1821 | cNSFus-pw-fs-G |
| ProPEX LF Brass Sweat Adapter, 1/2" PEX x 3/4" Copper | LF4515075 | | | cNSFus-pw-G |
| ProPEX LF Brass Sweat Adapter, 1/2" PEX x 1/2" Copper | LF4515050 | | | cNSFus-pw-G |
| ProPEX LF Brass Sweat Adapter, 3/4" PEX x 1/2" Copper | LF4517550 | | | cNSFus-pw-G |
| ProPEX LF Brass Sweat Adapter, 3/4" PEX x 1" Copper | LF4517510 | | | cNSFus-pw-G |
| ProPEX LF Brass Sweat Adapter, 1 1/2" PEX x 1 1/2" Copper | LF4511515 | | | cNSFus-pw-G |
| ProPEX LF Brass Sweat Adapter, 2" PEX x 2" Copper | LF4512020 | | | cNSFus-pw-G |
| ProPEX LF Brass Sweat Adapter, 2 1/2" PEX x 2 1/2" Copper | LF4512525 | | | cNSFus-pw-G |
| ProPEX LF Brass Sweat Adapter, 3" PEX x 3" Copper | LF4513030 | | | cNSFus-pw-G |

## Installation

Use the appropriate Uponor ProPEX rings for the tubing (sold separately). Do not solder within 18" of ProPEX fittings. Refer to the AquaPEX® Professional Plumbing Installation Guide, Radiant Floor Heating Installation Handbook or AquaSAFETM Residential Fire Sprinkler Installation Guide for additional information.

## Related applications

Radiant Heating and Cooling Systems

Permafrost Protection Systems

Turf Conditioning Systems

AquaSAFE™ Fire Safety Systems

## Footnotes

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