

Press Copper Fittings

Description:

The CFI mechanical press copper fittings for use in plumbing or mechanical applications. Size ranges from 1/2" to 4" in diameter. Product is design to join ASTM B88(Type K,L,M), 1/2" to 4"hard draw copper tube and 1/2" to 1-1/4" soft copper tube.

Material:

- Mechanical press copper body:

UNS C12200 Copper

- O-ring:

EPDM o-ring, silicone o-ring lubrication, and stainless steel grip ring with a nylon spacer (available with 2-1/2" to 4")



Material Specifications:

CFI press copper is held to the material requirements of ASME B16.22, ASME B16.51, or ASME B16.18. Certified and tested by IAPMO PS-117 or ASME B16.51.

Operating Parameters:

- Operating Pressure: 200 PSI Maximum.
- Test Pressure: 600 PSI Maximum.
- Operating Temperature 0 °F - 250 °F

Approved Applications:

- Potable Water
- Hydronic heating (with Glycol)
- Chilled water

Installation:

Product installation shall comply with the latest applicable building codes for the local jurisdiction and manufacturer's instructions.

Approved Applications Table for 1/2” to 4”

Type of Service	Comments	Pressure	Temperature	Compatible with EPDM Seal	EPDM Plus SS Grip
Fluids/Water					
Hot and Cold Water		200 PSI	32 °F to 250 °F	Yes	Yes
Rainwater / Grey Water		200 PSI	-20 °F to 250 °F	Yes	Yes
Chilled Water	Ethylene Glycol / Propylene Glycol	200 PSI	-20 °F to 250 °F	Yes	Yes
Hydronic Heating	Ethylene Glycol / Propylene Glycol	200 PSI	-20 °F to 250 °F	Yes	Yes
Cooling Water	Up to 50% Ethylene Glycol or Propylene Glycol solution	200 PSI	-20 °F to 250 °F	Yes	Yes
Low-Pressure Steam		Up to 15 PSI	248°F	Yes	Yes
Fuel, Oil and Lubricant					
Ethanol	Pure Grain Alcohol	200 PSI		Yes	Yes

Recommended Tools:

- RIDGID RP 241 1/2” - 1-1/4”
- RIDGID RP 240 1/2” - 1-1/4”
- RIDGID RP 340-B 1/2” - 4”
- RIDGID RP 340-C 1/2” - 4”
- Milwaukee M12 Tool with Compact Jaws 1/2” - 1-1/4”
- Milwaukee M18 Tool with Standard Jaws 1/2” - 2”
- Milwaukee M18 Tool with Rings & Ring Jaw 2-1/2” - 4”

Installation Guidelines:

Distance between Joints

Pressing Near an Existing Press Connection

Tube Diameter	Minimum Distance Required	
	Inch	MM
1/2"	—	—
3/4"	—	—
1"	—	—
1-1/4"	7/16"	10
1-1/2"	5/8"	15
2"	3/4"	20
2-1/2"	5/8"	15
3"	5/8"	15
4"	5/8"	51

Pressing Near an Existing Soldered or Brazed Connection

Tube Diameter	Minimum Distance Required	
	Inch	MM
1/2"	1/4"	7
3/4"	1/4"	7
1"	7/16"	11
1-1/4"	7/16"	11
1-1/2"	5/8"	16
2"	3/4"	19
2-1/2"	1/4"	7
3"	1/4"	7
4"	1/4"	7

Soldering or Brazing Near an Existing Press Connection

Tube Diameter	Soldering		Brazing	
	Min. Distance		Min. Distance	
Nominal	Inch	MM	Inch	Mm
1/2"	2-1/2"	65	5-1/2"	139
3/4"	3-1/4"	82	7-3/4"	197
1"	4"	101	10"	254
1-1/4"	4-3/4"	120	12-1/4"	311
1-1/2"	5-1/2"	139	14-1/2"	368
2"	7-1/2"	190	19-1/2"	495
2-1/2"	9"	228	24"	609
3"	10-1/2"	266	28-1/2"	723
4"	13-1/2"	343	37-1/2"	952