

NDL CO₂ Copper Fittings

HIGH PRESSURE COPPER IRON ALLOY FITTINGS WITH HIGH-QUALITY PERFORMANCE

- Our high-pressure copper-iron alloy fittings are tested for actual burst pressure with the results exceeding 3 times the design pressure.
- Each fitting is marked with "CO2 130 BAR" and OD size for easy field identification.
- Our 1-Year Warranty proves that we have confidence in our fittings, and that they can be trusted in the field.
- Our copper fittings have zero reported failures since 1999.
- Our CO₂ copper fittings are **UL-Listed!**
- NDL ensures copper quality content and strict adherence to meet or exceed ASME B16.22 standards for wall thickness.
- The fittings have tight tolerances on the cup side for a stronger joint with the tube and easier brazing.
- Fittings are poly-bagged within the box, keeping them clean and contaminant-free prior to installation.



Technical Data

SIZE RANGE	From 3/8" up to 2-1/8"
MATERIAL	Copper alloy CuFe2P C19400
OPERATING TEMPERATURE	-196°C to 150°C / -320°F to 302°F
BURST PRESSURE	>390 bar / >39 MPa / >5656 psi
MAXIMUM OPERATING PRESSURE	130 bar / 13 MPa / 1885 psi at 150°C
APPLICATION	Air conditioning and refrigeration. Designed for high-pressure applications, especially for CO ₂ (R744) systems.
TUBE COMPATIBILITY	Compatible with main pipe types manufactured from copper iron alloys available on the market.

NDL COPPER TEES FOR SERVICE VALVES - HOW WE DISCOVERED THE NEED FOR THEM

When working with CO₂ refrigeration systems, it's important to consider the high-pressure levels involved. Access ports commonly used in regular refrigeration systems may not be suitable for use with CO₂ systems, as the Schrader valve seal can break under pressure, necessitating the venting of the entire line.

To avoid this issue, it is recommended to use a service valve that can be closed, enabling workers to easily connect and disconnect equipment as needed. While installing a service valve may require more time upfront, it is generally preferred by workers who regularly service equipment.

Our Tee fittings are designed specifically for the installation of service valves, streamlining the process and ensuring a secure, leak-free seal. By using a service valve and our specialized fitting, you can prevent high-pressure problems and make your work more efficient.





Product Sizes and Selection



Reducing Bushings

- Min. Size: 1/2" x 3/8"
- Max. Size: 2-1/8" x 1-5/8"



Reducing Couplings

- Min. Size: 1/2" x 3/8"
- Max. Size: 2-1/8" x 1-3/8"



Caps

- Min. Size: 3/8"
- Max. Size: 2-1/8"



Stake Stop Couplings

- Min. Size: 3/8"
- Max. Size: 2-1/8"



45° Elbows

- Min. Size: 3/8"
- Max. Size: 2-1/8"



Tees

- Min. Size: 3/8"
- Max. Size: 2-1/8"



45° Street Elbows

- Min. Size: 3/8"
- Max. Size: 2-1/8"



Reducing Tees

- Min. Size: 1/2" x 1/2" x 3/8"
- Max. Size: 2-1/8" x 2-1/8" x 1-5/8"



90° LR Elbows

- Min. Size: 3/8"
- Max. Size: 2-1/8"



Reducing Tees

- Min. Size: 1/2" x 3/8" x 3/8"
- Max. Size: 1-1/8" x 7/8" x 1/2"



90° LR Street Elbows

- Min. Size: 3/8"
- Max. Size: 2-1/8"



Service Tees

- Min. Size: 1/2" x 1/2" x 10 mm
- Max. Size: 2-1/8" x 2-1/8" x 10 mm

