



NDL Industries

APPLICATIONSCommercial and Industrial CO₂ Refrigeration

CO₂ Service Tees

Our robust design meets and exceeds the industry standards for holding maximum working pressure, garnering the reliability for transcritical CO₂ Refrigeration applications.



How we discovered the need for Service Tees

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.

NDL CO₂ Service Tees

Specifications

Tee copper fittings are used in refrigeration systems to connect three pipes or tubes. These fittings are made of high-quality C19400 copper, which is a strong and durable material that is resistant to corrosion and can withstand high temperatures and pressures. These Tee fittings are made specifically for installing a service valve on a tube. They are easy to install and provide a tight, leak-free seal. Suitable for service valves with 10 mm stainless steel stubs.

Technical Data

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



Product Information

PART #	OD - DESCRIPTION	BOX QTY	WT (LB)	WT (G)
CO4001S	1/2" x 1/2" x 10 mm Reducing Tee C x C x C	100	0.055	25
CO4006S	5/8" x 5/8" x 10 mm Reducing Tee C x C x C	100	0.066	32
CO4017S	3/4" x 3/4" x 10 mm Reducing Tee C x C x C	100	0.110	50
CO4031S	7/8" x 7/8" x 10 mm Reducing Tee C x C x C	100	0.183	83
CO4048S	1-1/8" x 1-1/8" x 10 mm Reducing Tee C x C x C	100	0.30	136
CO4068S	1-3/8" 1-3/8" x 10 mm Reducing Tee C x C x C	30	0.551	250
CO4084S	1-5/8" x 1-5/8" x 10 mm Reducing Tee C x C x C	20	0.772	350
CO40102S	2-1/8" x 2-1/8" x 10 mm Reducing Tee C x C x C	15	1.764	800