Summit 130

Copper-iron (CuFe2P) fittings designed for use in high-pressure CO_2 refrigeration systems, including both subcritical and transcritical applications. Engineered for safe use in extreme conditions.

130 bar
13 MPA / 1885 PSI AT 150°C

CuFe2P
COPPER-IRON ALLOY

DN10 – DN67
3/8" UP TO 2-5/8"

SPECIFICATIONS

SIZE RANGE	3/8" up to 2-1/8", and 2-5/8" (2-3/8" not currently available)
DN SIZE RANGE	DN10 up to DN54, and DN67
MATERIAL	Copper-iron alloy CuFe2P (2.1–2.6% Fe)
OPERATING TEMPERATURE	-196°C to 150°C
MAXIMUM WORKING PRESSURE	130 bar / 13 MPa / 1885 psi at 150°C
BURST PRESSURE	Indicative: greater than 390 bar (>3x design)
REFRIGERANT COMPATIBILITY	R-744 (CO_2), suitable for transcritical and subcritical systems
TUBE COMPATIBILITY	Copper-iron alloy tube to AS/NZS 1571
CONNECTION TYPE	Brazing fittings (flare and compression are not suitable)
MANUFACTURING STANDARDS	AS/NZS 1200, AS 4041, AS/NZS 5149

COMPLIANCE & STANDARDS

- AS/NZS 1200 – Pressure Equipment
- AS 4041 – Pressure Piping
- AS/NZS 5149 – Refrigerating Systems and Heat Pumps

PRESSURE & TEMPERATURE

Working pressure 130 bar (13 MPa) at 150°C across the range. Burst pressure (indicative): greater than 390 bar, more than 3x design.

The stated temperature is the reference point for the rating, not a ceiling on gas temperature.

TESTING & CERTIFICATION

- Designed to the requirements of UL 207 and AS/NZS 5149
- Nitrogen purge required during brazing
- Manufactured under ISO 9001 QA systems

INSTALLATION GUIDELINES

- Use high-temperature silver brazing alloys (minimum 15% silver) for strong joints
- Purge with nitrogen during brazing to prevent oxidation and ensure a clean joint
- Verify system design pressures to ensure compatibility with transcritical operation

APPLICATIONS

- Supermarket refrigeration (CO_2 transcritical booster systems)
- Cold chain logistics and storage facilities
- Industrial refrigeration (meat processing, dairy, and breweries)
- Heat pump and water heating systems using R-744