



**OPERATION AND MAINTENANCE MANUAL FOR
BOSS™ COMPRESSION FITTINGS**

CONTENTS

Purpose, Features & Scope of Application

Standards Met

Performance

Tightening Torques

Materials of Construction

Transportation and Storage

Installation and Use

PURPOSE, FEATURES AND SCOPE OF APPLICATION

BOSS™ compression fittings are quality assured in accordance with ISO9001:2015 from BSI. They are suitable for joining EN 1057 copper tube and are manufactured to EN 1254 Part 2. Further to this the fittings are WRAS and BSI Kite Mark approved.

Service temperature and pressures as indicated on the data sheet or body markings should not be exceeded. Maximum operating pressure reduces as service temperature increases. BOSS™ compression fittings are not suitable for use in chilled water applications.

BOSS™ compression fittings are designed for loadings appropriate to their intended use and other reasonably foreseeable operating conditions. All piping to and from the fitting must be properly supported.

STANDARDS MET

EN 1254 Part 2

ISO9001:2015

WRAS

BSI Kite Mark

PERFORMANCE

| Maximum Temperature °C | Maximum Pressure for Nominal Diameters (bar) | |
|---------------------------|---|--------------------------------------|
| | 6 mm up to and including 34 mm | Over 34 mm up to and including 54 mm |
| 30 | 16 | 16 |
| 65 | 10 | 10 |
| 110 | 6 | 6 |

TIGHTENING TORQUES

| Fitting Size (mm) | Number of turns |
|-------------------|--------------------|
| 8 | $\frac{3}{4}$ to 1 |
| 10 | $\frac{3}{4}$ to 1 |
| 15 | $\frac{3}{4}$ to 1 |
| 22 | $\frac{3}{4}$ to 1 |
| 28 | $\frac{3}{4}$ to 1 |
| 35 | 1 to 1-1/4 |
| 42 | 1 to 1-1/4 |
| 54 | 1 to 1-1/4 |

MATERIALS OF CONSTRUCTION

All BOSS™ compression fittings are made from CW617N european brass material.

TRANSPORTATION AND STORAGE

All BOSS™ compression fittings should be inspected at the time of delivery for shipping damage, missing parts, and conformance with the specifications

The fittings should be stored in a sheltered area, fittings should be stored evenly supported on a flat surface.

INSTALLATION AND USE

Ensure the BOSS™ compression fitting is suitable for service conditions; pressure, temperature, flow media and size of tube being used. Cut the tube to the desired length with a suitable pipe cutting device to ensure there are no burrs at the cut and that the tube itself is cut square.

Unscrew the cap nut and olive from the fitting and then push them both onto the tube. Next, push the fitting onto the tube until the tube hits the stop inside the fitting.

Hand tighten the cap nut onto the fitting and then tighten the cap nut with a suitable spanner to the correct number of turns.

Do not overtighten the fitting and do not contaminate the fitting with joint compounds. Both the above conditions can induce stress corrosion cracking which is more likely in chilled water applications.

To minimise the chance of corrosion occurring to the fitting it is recommended to wrap the fitting with a moisture barrier .