

EBCO

Gunmetal Service Fittings

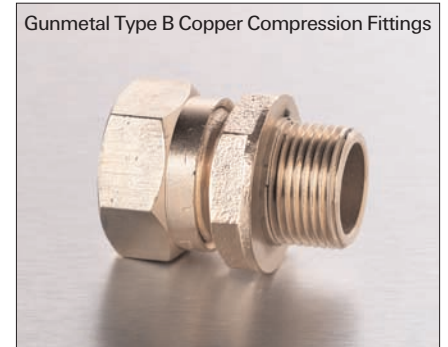
Benefits

- Made from corrosion immune materials, EBCO gunmetal service fittings will provide years of trouble free service in even the most arduous of ground conditions
- The extensive range offered covers the majority of operational requirements, connecting Lead, Copper, Iron and PE pipes
- All products are approved to the WRAS acceptance criteria



The EBCO range of gunmetal service fittings covers a variety of pipe material and sizes.

- Fittings for steel threaded pipe, 1/2" to 2" BSP - Pipe Fittings
- Fittings for copper pipe, 15mm to 54mm - EBCO-S
- Fittings for metric and imperial PE pipe, 20mm (1/2") to 63mm (2") - EBCO-B
- PE x lead adaptors, 1/2" 7lb to 1" 16lb lead - EBJAK



General application

- **Gunmetal Threaded Pipe Fittings**
The EBCO range of traditional gunmetal pipe fittings for threaded pipe is robust and contains a wide variety of product types and sizes. The fitting's threads are to BS21, (BS EN 10226) and BS EN ISO 228, (BS2779) and products are available in sizes 1/2" to 2". All fittings are WRAS approved.
- **EBCO-S Gunmetal Type B, Table Y Copper Compression Fittings**
The robust and easy to use EBCO range of Type B copper adaptors are manufactured in gunmetal and conform to BS 864 Part 2 Type B. These fittings are suitable for use with half hard copper tube to BS 2871 Part 1 Tables X and Y.
- **EBCO-B Gunmetal Compression Fittings for PE pipe**
The EBCO-B connection is a traditional compression fitting for use on metric or imperial PE pipes from 20 to 63mm and their imperial equivalents.
- **EBPAK Compression Adaptor For Lead x PE Pipe**
The EBPAK Lead adaptor from EBCO provides a simple to install, quick and reliable way of connecting a variety of existing lead service pipe to 20mm, 25mm, or 32mm PE pipe. The fitting combines the tried and tested EBCO Push Fit connection with a lead clamping joint to securely connect the two pipes.

Safety

As with all industrial products it is important to take adequate safety precautions such as the use of adequate protective clothing like gloves, overalls, eye protection and safety footwear during use, maintenance and installation.

Technical help

For further product specifications, technical data and general information please contact our Customer Service Department at the telephone number shown below.

EBCO - Threaded Pipe fittings and Copper Fittings

2

Gunmetal Threaded Pipe Fittings

The EBCO range of traditional gunmetal pipe fittings for threaded pipe is robust and contains a wide variety of product types and sizes. Pipe threads are to BS21 and products are available in sizes 1/2" to 2" and all fittings are WRAS approved.



Equal Socket,
BS21, (BS EN 10226)



Reducing Socket,
BS21, (BS EN 10226)



Equal 90° Female Elbow
BS21, (BS EN 10226)



Equal Female Tee
BS21, (BS EN 10226)



Equal Hexagon Nipple,
BS21, (BS EN10226) & BS EN ISO 228, (BS2779)



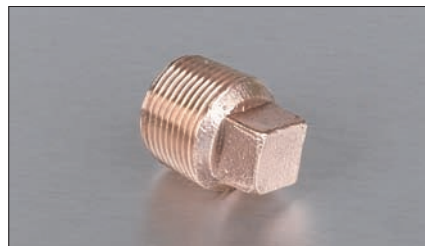
Reducing Hexagon Nipple,
BS21, (BS EN10226) & BS EN ISO 228, (BS2779)

Benefits

- *Made from corrosion immune gunmetal, EBCO threaded pipe fittings will provide years of trouble free service in even the most arduous of ground conditions*
- *The extensive range of EBCO threaded pipe fittings will cover the majority of operational needs*

Technical Data

Sizes: 1/2" to 2"
Thread Types: BS21, (ISO-EN 10226)
BS EN ISO 228, (BS2779)
Material: Gunmetal



Square Headed Plug
BS21, (BS EN 10226)



Hex Bush. Ext. threads: BS21, (BS EN 10226)
Int. threads: BS EN ISO 228, (BS2779)

Gunmetal Type B Copper Compression Fittings

The robust and easy to use EBCO range of Type B copper adaptors are manufactured in gunmetal and conform to BS 864 Part 2 Type B. These fittings are suitable for use with half hard copper tube to BS 2871 Part 1 Tables X and Y.

Benefits

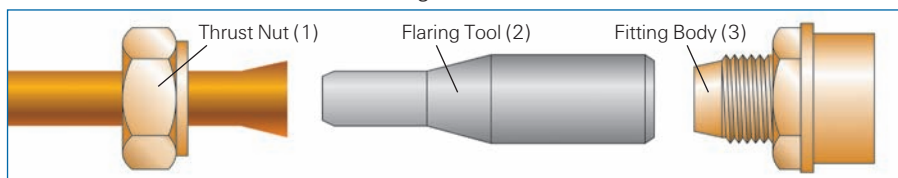
- *Made from corrosion immune gunmetal, EBCO Type B Copper Tube Fittings will provide years of trouble free service in even the most arduous of ground conditions*
- *The extensive range offered covers the majority of operational requirements*

Technical Data

- Sizes: 1/2" to 2"
- Material: Gunmetal
- Thread Types: BS21, (BS EN 10226) or BS EN ISO 228, (BS2779)

Gunmetal Type B Copper Compression Fittings Assembly Instructions

Disassemble the end of the fitting to be connected, slide the integral compression nut and ring (1) assembly over the pipe end. Using an appropriately sized flaring tool (2) bell out the end of the copper pipe. Re assemble the fitting ensuring that the pipe sits snugly against the cone on the fitting body (3). Tighten the compression nut fully to create an end load resistant and watertight connection. The connection is now made.



Copper x Female Adaptor, BS21, (BS EN 10226)



Copper x Male Adaptor, BS21, (BS EN 10226)



Copper x Copper Connector

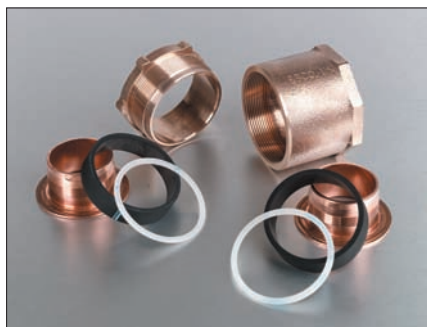
EBCO - Service Fittings For Water Pipe

EBCO-B - Fittings for PE Pipe

The EBCO-B connector is designed for use with PE pipes. The fitting is made from corrosion immune gunmetal so will give many years of trouble free service in even the most aggressive of ground conditions and the seal created is

secure, providing a leak free connection. This security combined with the products robust gunmetal construction offers customers the knowledge that any connections made using the EBCO-B are secure, robust and reliable.

The EBCO-B connection is available in sizes from 20mm to 63mm in diameter. The fitting will also suit the imperial equivalents to these metric pipes using simply inter-changed internal components.



Equal Connector



Reducing Connector



Male Threaded Adaptor, BS21, (BS EN 10226)



Female Threaded Adaptor, BS21, (BS EN 10226)



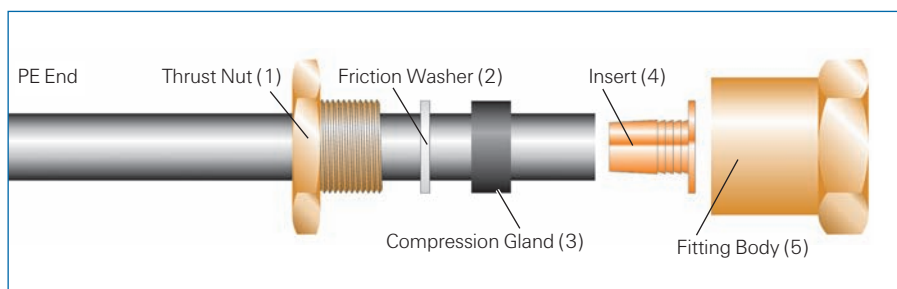
Equal Tee



Unequal Tee

EBCO-B Assembly Instructions

Ensure the pipe is cut square then disassemble the end of the fitting to be connected, slide the thrust nut (1) then the friction washer (2), then the compression gland (3) over the end of the pipe to be connected. Insert the serrated insert (4) into the pipe and securely hammer it fully home with a soft faced mallet. Place the end of the pipe into the fitting's body (5) and screw the thrust nut fully into the body, securely locating the friction washer and sealing rubber inside the body of the fitting. Once the thrust nut has been hand tightened use a spanner and tighten a further 1 1/2 to 2 turns to form a fully sealed connection. The connection is now made.



Benefits

- *The EBCO-B compression fitting can be used on either metric or Imperial PE pipes from 20mm to 63mm in diameter. (Please specify pipe type and class when ordering to enable the correct product to be supplied)*
- *Made from corrosion immune gunmetal, EBCO-B compression fittings will provide years of trouble free service in even the most arduous of ground conditions*
- *The extensive range of EBCO-B compression fittings covers the majority of operational requirements with stopcocks and ferrules also being available with the EBCO compression outlet*

Range

- *Equal Connectors*
- *Reducing Connectors*
- *Male Threaded Adaptors*
- *Female Threaded Adaptors*
- *Equal Tees*
- *Un-equal Tees*
- *90° Elbows*
- *Reducing Bushes*
- *Stopcocks*
- *Ferrules*

For full details concerning product size and configuration please contact the Customer Service Team at the number shown on the back of this data sheet.

Technical Data

Sizes:	20mm (1/2") to 63mm (2")
Thread Types:	BS21, (BS EN 10226) BS EN ISO 228, (BS2779)
Material:	
Body & thrust nut:	Gunmetal BS 1400 LG2
Serrated inserts:	Copper
Compression gland:	Nitrile BS2494: 1986
Friction washer:	Polypropylene



EBPAK Compression Adaptors For Lead x PE Pipe



The EBPAK Lead adaptor from EBCO provides a simple to install, quick and reliable way of connecting a variety of existing lead service pipe to 20, 25, or 32mm PE pipe. The fitting combines the tried and tested EBCO Push Fit connection with a lead clamping joint to securely connect the two pipes. This provides a watertight and end load resistant connection without special preparation of the lead or PE pipe.

Simply push the lead pipe fully into the clamping assemble and tighten the securing screw, then push the PE pipe fully into the Push Fit connection and the joint is made.

Range

Lead Pipe	PE Pipe
1/2" 7 lb	20mm (1/2")
1/2" 9 lb	20mm (1/2")
1/2" 7 lb	25mm (3/4")
1/2" 9 lb	25mm (3/4")
3/4" 9 lb	25mm (3/4")
3/4" 11 lb	25mm (3/4")
1" 16 lb	32mm (1")

Benefits

- *Made from corrosion immune materials the EBPAK lead adaptor will provide years of trouble free service in even the most arduous of conditions*
- *Simple to install, with no loose assembly of components or special preparation of the pipe*
- *Low Headloss*
- *WRAS Approved*

Assembly Instructions

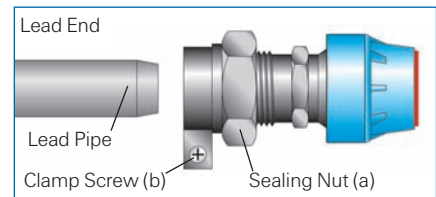
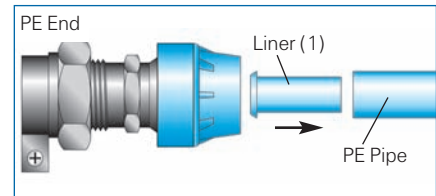
PE End Remove the red end cap from the blue cone of the EBCO Push Fit connection and remove the liner (1) and insert it fully into the PE pipe.

(To meet the requirements of the Water Regulations Advisory Scheme (WRAS) it is necessary to use an insert or liner with metric MDPE service pipe to BS 6572: 1985, BS 6730 and HPPE to WIS 4-32-13 for below ground use in the UK. The liner is not an integral part of the EBCO Push Fit connection and for polyethylene pipe other than the PE pipe material shown above, use of the liner is optional. If a liner is not used the connection will still substantially exceed most international performance requirements.)

Once the liner is inserted into the pipe, push the pipe fully into the PE end, past two points of resistance until it is fully seated.

Lead End Ensure that the lead pipe is round and free from deep scores or ridges. Fully insert the lead pipe into the clamped end of the fitting and tighten the sealing nut (a). Once securely tightened tighten the clamp screw (b).

The connection is now made.



Associated Products



The EBCO range of gunmetal stopcocks and plugcocks provides a reliable and robust selection of shut off devices for use with PE, copper or threaded iron pipes. The range consists of three basic types:

- BS5433 - This screwdown type stopcock is available for use with metric and imperial PE pipe using either compression type outlets or the EBCO Push Fit connection, type B copper pipe or threaded pipe in nominal sizes 20mm (1/2") to 63mm (2")
- BS2580 - This 1/4 turn plugcock is available for use with metric and imperial PE pipe using either compression type outlets or the EBCO Push Fit connection in 25mm (3/4") and 32mm (1")
- WIS 4-23-04 - Available in 1/4 turn or 360° formats this spherical type shut off device is available with either 1/2" to 2" BSP female threaded connections or 25mm (3/4") or 32mm (1") connections for PE pipe using the EBCO Push Fit connection.

Tyco Waterworks

Edison Road
Hams Hall Distribution Park
Coleshill, Birmingham
B46 1AB United Kingdom
Telephone: +44 (0)1675 437 900
Facsimile: +44 (0)1675 437 909
e-mail: wwinfo@tyco-valves.com
web: www.tycowaterworks.com