

Service connection fittings (mechanical)

- B.12 Fittings for polyethylene service connection pipes such as tees, connectors, adaptors, elbows, couplings, etc shall be compression type or push-fit type, as per the particular specifications.

Compression fittings

- B.13 Compression fittings shall meet the requirements of BS EN 1254-1, BS EN 1254-2.
- B.14 Compression fittings shall be made from gunmetal to BS EN 1982. The fittings shall be suitable for direct connection to polyethylene pipes. The compression ring shall be of EPDM and suitable for potable water.
- B.15 The thread shall be BSP to BS EN 10226-1/BS 21. The inserts shall be of copper and male/female fittings, and shall be chamfered to aid assembly and to avoid the crossing of threads.
- B.16 The fittings shall be capable of sustaining a working pressure of up to 16 bar without leakage.
- B.17 The rubber compression rings shall be reusable at least 10 times.
- B.18 The fittings shall be resistant to pull-out. No solvent welding shall be used in assembly.

Push-fit fittings

- B.19 Push-fit fittings shall be suitable for use in underground and above-ground installations, and shall be compatible with polyethylene pipes. The fitting shall consist of a body with internal taper, grip ring for end load resistance, 'O' ring for water tightness seal and liner. The fittings shall be suitable for working pressure of up to 16 bar without leakage.
- B.20 The fittings shall be of acetyl or polypropylene material supplied complete with pre-assembled and captive grip ring and 'O' ring. The grip ring shall be made of acetyl and the 'O' ring of EPDM. The seal of the joint shall be made using water pressure as a thrust medium and no other tools or nuts shall be used to obtain a watertight joint.
- B.21 The ends of the polyethylene pipe shall be marked at two locations corresponding to the two points of resistance provided by the grip ring and the 'O' ring.
- B.22 Extractor tools for the dismantling of push-fit fittings shall be supplied with the fittings. Five sets of metal extractor tools shall be supplied with each consignment. The tools shall be suitable for the diameter and type of push-fit fittings supplied.
- B.23 The push-fit fittings shall carry the name of manufacturer, size and standard number.

Saddle straps

- B.24 Saddle straps for service connections shall be of the flat-boss type suitable for tapping up to 2" diameter ferrule or equivalent. The strap shall be suitable for making