

Polybutylene (PB) – Installation Guide

Push-fit potable & central heating

Cut & deburr. Use a PB pipe cutter for a square cut. Deburr the outside edge so the o-ring is not damaged on insertion.

Insertion depth. Mark the insertion depth on the pipe per fitting manufacturer's chart (typically 22 mm for Ø16, 26 mm for Ø20, 30 mm for Ø25). Push the pipe firmly until the mark disappears into the fitting body.

Test the joint. Pull-back test – gently pull the pipe; the grip-ring should hold. Then pressure-test the system.

Bending. Cold-bend radius $\geq 8 \times \text{OD}$. Use formed bends for tighter angles.

Anchoring. Allow for thermal movement – $\alpha \approx 1.3 \times 10^{-4} \text{ m/m}\cdot\text{K}$. Use clip + slide combinations on long runs.

Avoid. Do NOT heat-fuse PB. Do NOT use PPR fusion sockets on PB pipe – the polymer is incompatible.

Project-specific guidance (e.g. underfloor heating manifold layout) on request – info@vala.com.tr.