

Socket Joint (Steel-Plastic) — Installation, Operation & Maintenance Manual

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1. Overview

This manual covers Baoshuo socket joint steel-plastic fittings — the double-socket coupling, socket-to-flange adapter, spigot-to-flange adapter, elbow, tee and cross. These fittings form rigid, pressure-tight joints for UPVC and PVC-M pipelines. A steel sleeve with rubber sealing rings compresses onto the plain (spigot) pipe ends. Suitable for UPVC and PVC-M piping systems.

2. Safety Precautions

- Cut pipe ends square and deburr to avoid damaging the sealing rings.
- Insert pipes to the full socket depth before tightening.
- Tighten bolts evenly to avoid distorting the sleeve.

3. Tools Required

Wrenches (torque wrench recommended), pipe cutter, deburring tool, chamfer tool, cleaning cloth, marker, measuring tape.

4. Installation Steps

1. **Select the correct fitting.** Choose the fitting matching the pipe OD and connection type.
2. **Prepare the pipe ends.** Cut pipe ends square, deburr and chamfer the edge. Clean the surfaces that contact the sealing rings.
3. **Mark insertion depth.** Mark the full insertion depth on each pipe end.
4. **Assemble.** Slide the fitting over one pipe end, then insert the second pipe end fully to the marked depth.
5. **Tighten evenly.** Tighten the steel sleeve bolts evenly in a criss-cross sequence to compress the rubber rings uniformly.
6. **Test.** Pressurize to working pressure and inspect the joints.

5. Pressure Testing

Hold at working pressure and inspect each joint. Re-torque evenly if any weep is observed.

6. Maintenance & Storage

- Periodically check bolt torque.
- Inspect rubber rings for ageing; replace if cracked or hardened.