

Repair Branch Clamp — Installation, Operation & Maintenance Manual

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1. Overview

This manual covers Baoshuo repair branch clamps (threaded, flanged, quick-connect tee and cross). A repair branch clamp combines leak repair with branch installation in a single operation — it seals a leaking main while providing a threaded, flanged or quick-connect outlet for a new service line. For plastic (steel-plastic) pipelines.

2. Safety Precautions

- Depressurize the line where safe; wear appropriate PPE.
- Do not tap hazardous or flammable media lines without a safe-work permit.
- Ensure the main pipe is sound around the clamp before tightening.

3. Tools Required

Wrenches (torque wrench recommended), cleaning brush/cloth, pipe-safe solvent, measuring tape.

4. Installation Steps

1. **Select the correct clamp.** Choose the clamp matching the main pipe OD and the required branch outlet type and size.
2. **Prepare the main.** Clean the main pipe surface around the branch point over an area wider than the clamp body.
3. **Position the clamp.** Place the clamp over the branch point, aligning the outlet at the desired orientation.
4. **Tighten the clamp.** Tighten the clamp bolts evenly in a criss-cross sequence to seal the main leak and compress the branch seal.
5. **Connect the branch.** Threaded outlet: thread the branch pipe into the outlet with sealing tape/compound. Flanged outlet: bolt the branch flange with a gasket. Quick-connect: push-fit the branch pipe to the seating depth.
6. **Test.** Pressurize to working pressure and inspect the main seal and branch connection.

5. Pressure Testing

Hold at working pressure and inspect the clamp perimeter and the branch joint. Re-torque if weeping.

6. Maintenance & Storage

- Periodically re-check clamp and branch-joint torque.
- Inspect the seal and branch connection for leakage after pressure transients.