

Pamlock is the mechanical anchor system for water and sewer pipes DN 1400–2000.

Equipment Needed

To joint the Pamlock pipes the following equipment will be required:

1. Conformer (Fig. 1)
2. Segmented locking ring (Fig. 1)
3. Wire rope, clips & turnbuckle (Fig. 2)
4. Conformer gauge (Fig. 6)
5. Hydraulic jack (Fig. 7)
6. Conformer clamp (Fig. 8)
7. Conformer wedge (Fig. 8)
8. Shot reservoir and shot (Fig. 9)
9. Pneumatic vibrator and compressor (Fig. 9)

Carefully clean the socket chambers. Pay particular attention to the gasket seat and the anchoring chamber. Clean the spigot of the pipe to be jointed and the gasket and locking ring.

Fit the gasket into the first chamber (innermost) of the socket as per normal ductile iron pipe installation.

Fit the conformer on the spigot of the pipe to be jointed and position behind, but clear of the welded bead with the lip towards the next socket and the gap at the top (see Fig. 1). Next fit the segmented locking ring behind the welded bead. The locking ring consists of several segments, joined together by rubber connecting pieces which are held in place by two pins.

Measure and mark the insertion point (see Table).



Fig. 1



Fig. 2



Fig. 3



Fig. 4

Table: Pamlock insertion point

DN	1400	1600	1800	2000
Insertion Point (mm)	280	295	305	330

Fit the turnbuckle and wire rope round the conformer and tighten the turnbuckle to pull the conformer close to the pipe spigot (see Fig. 2).

Using a hammer, carefully position the conformator into the socket (see Fig. 5). Remove the wire rope and turnbuckle and use the gauge to check the correct depth of the conformator (see Fig. 6).

Fit the conformator clamps and jack apart using the hydraulic jack (see Fig. 7).

Use wedges to hold the conformator clamps in place (see Fig. 8) and lock using grub screw.

Attach the shot reservoir to one of the conformator clamps and the pneumatic vibrator in the middle of the conformator clamps (see Fig. 9). The shot is used to fill the gap between the conformator lip and the inside of the socket face. Connect the vibrator to the compressor and fill the reservoir with shot. Switch the vibrator on and the shot will run down into the joint. The shot must be topped up when required.

When no more shot is being used remove the reservoir from the conformator clamp and position it in the other conformator clamp and repeat the process for the other side. Careful examination of the gap between the socket face and conformator ring will reveal small holes that can be used for inserting a wire gauge to assess the level of the shot inside the joint.

The conformator clamps stay in place on the joint after assembly.



Fig. 5



Fig. 6



Fig. 7



Fig. 8



Fig. 9