

INSTALLATION GUIDE

Repair Clamp

Single-band / double-band installation

Configurations illustrated in this guide | AQF-IG-RC-001 | R3

Single-band installation

ULTRA Single Band Repair Clamp. Confirm that the selected clamp matches the pipe and repair geometry shown in this guide.

01 Check the pipe outside diameter

Check that the actual outside diameter of the damaged pipe falls within the range of the selected clamp.

02 Clean and prepare the damaged area

Brush off loose dirt. Ensure that exposed edges from the hole, crack or gouge are flush with the pipe outside diameter.

03 Open the fitting

Unhook the nut-plate and open the fitting.

04 Wrap and close the clamp

Wrap the clamp around the damaged area. Pull the hand-grip towards the opposite lug-plate and hook the nut-plate over the lug-plate. Loosely tighten the hex nuts to hold the nut-plate in position.

05 Centre over the damage

Position the clamp centrally over the damaged section of pipe.

06 Tighten evenly

Tighten the nuts evenly to the recommended bolt torque.

07 Recheck the torque

After initial tightening, double-check that the correct bolt torque has been achieved.

Torque rating – reference values

Bolt size	Rating as supplied
M12	55–70
M16	95–110

The source table does not state a unit. These figures are not a usable wrench setting until AQUAFITTING confirms the unit and tightening requirement for the supplied clamp. Do not infer or substitute a unit.

Application scope

Match the supplied clamp to the actual pipe outside diameter and confirmed service limits. Pipe-OD range, pressure rating and allowable damage size are not specified in this guide.

Single-band photo sequence

Wrap and engage

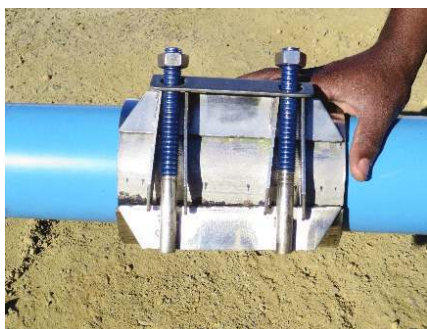


Wrap the clamp around the pipe.



Bring the opposing ends together using the locking washer plate.

Lock and take up the nuts



Lock the washer plate in place.



Squeeze the lugs together so that the nuts can be spun down the studs.

Tighten evenly



Tighten the nuts evenly with a wrench.



No rotation of the clamp is necessary.



Completed single-band installation.

The illustrated application is described as a permanent repair. Confirm the service limits for the actual damage and pipeline condition.

Double-band installation

ULTRA Double Band Repair Clamp. Use the following sequence for the matching plain-shell / studded-shell assembly.

01 Check the pipe outside diameter

Check that the actual outside diameter of the damaged pipe falls within the range of the selected clamp.

02 Clean and prepare the damaged area

Brush off loose dirt. Ensure that exposed edges from the hole, crack or gouge are flush with the pipe outside diameter.

03 Loosen the nuts

Loosen the hex nuts as far as the protection caps.

04 Separate the shells

Unhook and separate the plain shell and studded body shell.

05 Fit both body shells

Place the plain body shell over the damaged area. Hook the nut-plate of the studded body shell over the lug-plates of the plain body shell. Loosely tighten the nuts to hold the fitting together.

06 Centre, tighten and recheck

Ensure that the clamp is centred over the damaged area. Tighten the nuts evenly to the recommended bolt torque. Finally, check that the correct torque has been achieved on all bolts.

Torque rating – reference values

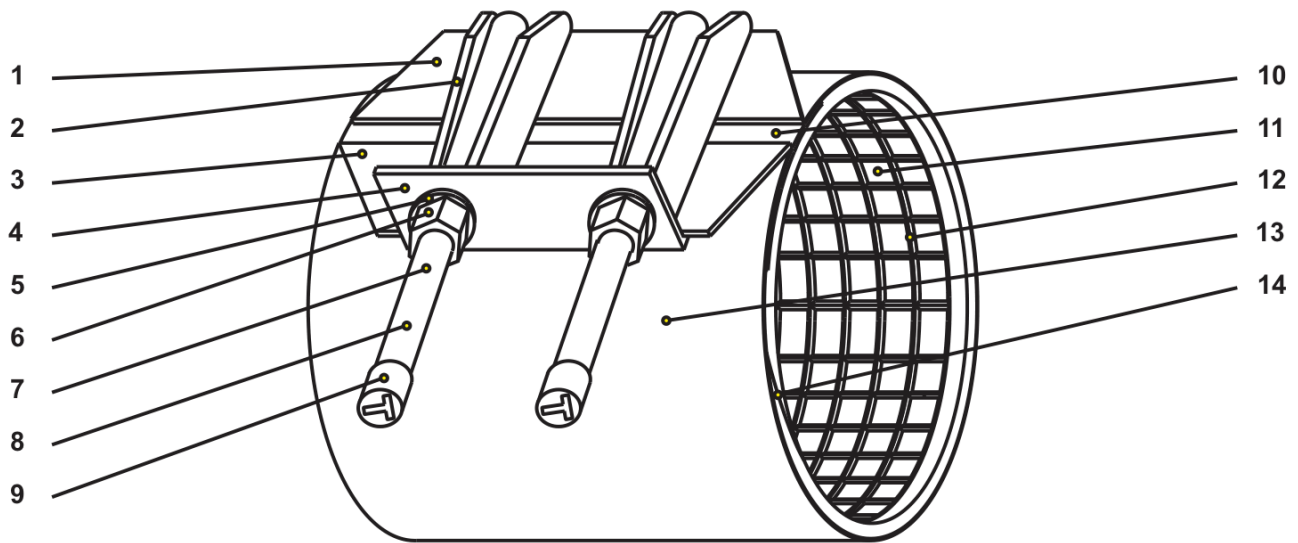
Bolt size	Rating as supplied
M12	55–70
M16	95–110

The source table does not state a unit. These figures are not a usable wrench setting until AQUAFITTING confirms the unit and tightening requirement for the supplied clamp. Do not infer or substitute a unit.

Configuration-specific images

The photo sequence on the preceding page shows a single-band installation. The double-band procedure applies to the plain-shell / studded-shell assembly described above.

Component identification



Repair-clamp component drawing and reference numbers.

Component key

No.	Component	No.	Component
1	Side Bars	8	Stud Coating
2	Fingers	9	Protective Thread Cap
3	Side Bars	10	Armour Plate
4	Locking Washer Plate	11	Rubber
5	Washer	12	45° Angled ribs
6	Nuts	13	Shell
7	Studs	14	Tapered Rubber Ends

Positions 1 and 3 are both designated Side Bars. Material grades and pressure rating are not specified by this component drawing.

Match the clamp configuration

These instructions apply to the illustrated band-type repair clamp. Do not use them for a different repair-clamp construction.