# Installation Instruction Gekave Internal Repair Clamp



1. Bolt *	6. Armour
2. Turnbuckle stud	7. Scale
3. Tension pin *	8. Nut
4. Turnbuckle block	9. SS Washer
5. Gasket	

\* 1+3 are connected

**IMPORTANT:** Always check that you have a correct and fully functional product before you start any excavations or repairs. When in doubt, take a spare unit with you to avoid delaying the work.



## **Before installation:**

- 1. Check the internal diameter of the pipe and make sure you are using correctly sized clamps.
- 2. Clean the pipe to remove as much dirt and corrosion as possible from the surface. Scrape the pipe to remove dirt and corrosion so that the surface is smooth.
- 3. Make sure no foreign material sticks to the gasket as it is placed in the pipe, nor becomes lodged between gasket and pipe as the nuts are tightened.
- 4. Keep threads free of foreign material to facilitate tightening.
- 5. Use a torque wrench to achieve proper torque. Also make sure you use the right wrench size (step 6).
- 6. Bolts are often not sufficiently tightened if a torque wrench is not used. Take extra care in this situation to ensure proper tightening.

#### Installation:

### Step 1

Mark the pipe where the ends of the clamp will be. After installation use this mark to confirm that the clamp has been properly positioned.

# Step 2

Thoroughly clean the pipe surface area to be covered by the clamp.

Apply lubricant to pipe and rubber inside the clamp to ensure a proper seal. **DO NOT use grease!** 

# Step 3

Place the gasket carefully with the grooves against the inside of the pipe. The leakage should be in the middle of the grooves.

# Step 4

Place one scale with 2 armours on the bottom of the gasket and install the tension pins/bolts. Place the next scale with 1 armour on one of the tension pins/bolts.

Place the last scale without armours on the other tension pin/bolt and install the last tension pin/bolt.

## Step 5

Install all the turnbuckle blocks, SS washers and nuts on the bolts.

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All disputes arising from offers and agreements, however such disputes may be called, shall be submitted to the competent Dutch Court.

# Step 6

Then use a torque wrench with a handle of at least 300 mm in length to tighten all nuts evenly and crosswise in 20 Nm increments to a maximum of 140 Nm. This exerts pressure on the bolts so that the sections will expand against the inside of the pipe.

**Note:** The gap between the turnbuckle blocks should be equal on all turnbuckle studs.

## Wrench size:

Recommended torque M16: 140 Nm 24

Always pressure test for leak. If leakage occurs repeat step 4, 5 & 6. Then pressure test again.

## Step 6

Wait 20 minutes and then retighten to proper torque.

**Note:** When installed on plastic pipes, please contact your supplier.

