

Repair Clamps Large Pipe diameters

Westatlantic Stainless steel housing repair clamps WARS-3 are used for permanent repair of broken and damaged pipes.

Applications:

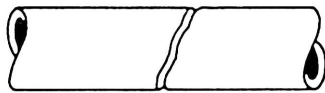
Water, gas and petrochemical pipelines.



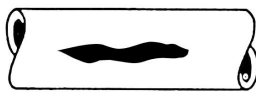
Following types of damage can be repaired:



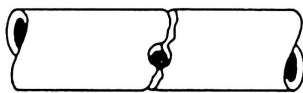
Pipe Longitudinal connection



Damage due to broken pipes



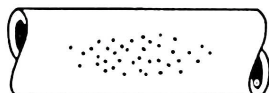
Longitudinal cracks



Cracked pipe after hot tap



Misaligned pipes

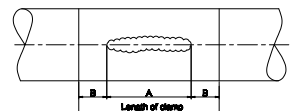


Pit holes

- Ductile Iron (DI)
- Cast Iron (CI)
- Steel (St.)
- Asbestos Cement (AC)
- PE coated steel
- PVC*
- GRP*
- PE*

The following conditions apply.

- The width of the clamp should be at least equal to the pipe OD.
- The width of the clamp should be 150 mm greater than the length of any crack on pipes with an outside diameter up to 350 mm. On larger pipes this should be at least 200 mm.
- For PVC pipes, the width of the clamps should be 50 % longer and bolt torque should be reduced by 50 %. We prefer that you consult [Westatlantic Tech](http://www.westatlantictech.com)
- The maximum allowable distance between two pipe ends should not exceed 10 mm.
- The maximum allowable deflection is 2 degrees.
- The maximum allowable offset should not exceed 3 mm.



ONSHORE - OFFSHORE-SHIP BUILDING & PIPING REPAIR - MARINE

Specifications

- All metal parts: stainless steel AISI 304 or AISI 316L.
- Metal parts have been deburred and are passivated to restore the corrosion resistance to its original state after the welding process.
- Triple band (three sections) with a working range of 30–33 mm depending on the diameter. For an overview of all working ranges please see our price-list.
- Standard certified rubber gaskets EPDM or NBR. The rubber is tapered and has a waffle pattern.
- Seamless rubber lining for every clamp diameter.
- Bridge plates are vulcanized into the rubber gasket.
- U-shaped lifter bars.
- Stainless steel, electrolytic zinc plated nuts to prevent galling.
- Stainless steel washers.
- No loose parts that may get lost during installation.
- No special tools required: a simple wrench will do the job.
- Special tape is used to fix the rubber gasket to the stainless steel band. This tape is flexible and reinforced with glassfibre thread to withstand hot and humid conditions and guarantee a long storage capability.
- Under most circumstances the clamps can be installed without releasing the pressure on the pipe.
- The clamps are separately packed into strong double-rib cartons. For export overseas we use strong, seaworthy crates.

Other:



Also available with grip for easier installation.



The vulcanized bridge plate guarantees a leakproof sealing

RS-3 clamps are available in many different working ranges for pipes of DN 250 – DN 1000. Please consult our price-list for more details on the working ranges. Available lengths: 300 / 400 / 500 / 600 mm. Other lengths possible on request.

If you need to repair larger pipes we can offer 4 band or 5 band clamps. Please contact us for more information.

Pressure ratings for water ** depend on the type of break or damage, pipe OD, medium etc.

Pipe DN 250 up to and including DN 500: 10 bar

Pipe DN 500 and DN 600: 6 bar

Pipe DN 700: 4 bar and Pipe DN 800: 2 bar.

Please consult our price-list for working pressures of larger pipe od's. Our clamps can be modified to cope with higher working pressures.

Available rubber gaskets:

WARS-3 clamps can be supplied with the following types of rubber:

EPDM	– potable water – waste water	max 60 degr. C.
EPDM HT	– potable water – waste water	max 150 degr. C.
NBR	– natural gas – potable water – waste water	max 70 degr. C.
VITON	– several chemicals pls. contact HUWA	max 200 degr. C.

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