

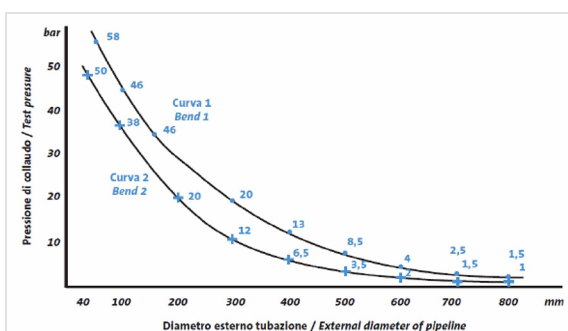
## ALLINOX - Stainless steel repair clamp for Ductile Iron, Steel and PVC Pipes



ØDE mini (mm)	ØDE maxi (mm)	PFA	Mass (kg)	References
60	68	30 bar	2.05	MRX65ABXXE
68	76	29 bar	2.10	MRX70ABXXE
77	88	28 bar	2.20	MRX80ABXXE
88	97	26 bar	2.25	MRX90ABXXE
98	107	25 bar	2.30	MRY10ABXXE
108	113	23 bar	2.40	MRY11ABXXE
114	125	22.5 bar	2.46	MRY12ABXXE
126	138	21.5 bar	2.48	MRY13ABXXE

Bolts: 3 x L=200 mm

### Field of use



The multi bolts repair clamps are part of the pipelines repair range of PAM NEXUS.

The repair clamps are used for the repair of localized breakages or circumferential breakages on pipelines of every kind of material for drinkable water service.

The longitudinal breakages haven't to be exceeded the 35% of the totally width of the clamp while the circumferential breakages haven't to be, as maximum distance from the braked extremity, upper than 10mm.

Concerning the exercise conditions of the clamps, here follow the diagram with the working pressure and the external diameter of the pipeline.

**Curve 1:** value of the test pressure carried out on the pipeline with longitudinal breakage equal to the 35% of the repair clamp belt's width.

**Curve 2:** value of the test pressure carried out on the pipeline with circumferential breakage.

**Note:** pressure values indicated in the diagram are guaranteed for all the clamps installed on the pipeline with roughness similar to the ductile cast iron pipes usually on sale.

## Material and coating

- Belt in stainless steel AISI 304 with a minimum thickness of 0,8 mm and minimum width of 200 mm ;
- Clamp in stainless steel AISI 304 ;
- Locking of the plate of the clamp with a strong stainless steel bar ;
- Gasket in nitrile rubber NBR with insert in vulcanized stainless steel AISI 304, thickness of 1,5 mm in the closing area of the clamp ;
- Nut according to UNI 5588, in steel class 70 A4 ;
- Material suitable for drinking water.

Available upon request:

- Gasket in EPDM suitable for drinking water ;

The ductile iron clamps and their geometrical conformity allow a higher resistance of tightening, thus ensuring a regular distribution of the tensions along the entire width of the clamp and therefore guaranteeing an excellent seal reliability over the time.

## Installation instructions

### Storage

Repair clamps have to be stored in covered places, protected from the sun, rain and all other atmospheric agents. Moreover it has to be avoided that the seal of the same valves comes in contact with dust and dirt.

### Installation

The bolt in the middle, with more length respect to the others, allows an easy mounting of the clamp on the pipeline to be repaired.

Operations to be made during installation:

1. Clean the part of the pipe to be repaired;
2. Put the repair clamp on the cut or the hole;
3. Ensure that the tapered limb of the gasket is not folded on itself in any point, and that it is well extended on the pipe to be repaired; (note: we recommend greasing the tapered limb with soapy water, grease or Vaseline).
4. Put the opposite terminal of the clamp on the tapered limb;
5. Insert the bolts in their respective position to tighten them manually;
6. Rotate the repair clamp in the direction indicated by the arrow printed on the label (necessary operation for the definitive correct extension of the tapered limb) making sure that the damaged section of the pipe remains under the section of vulcanized plate in the gasket;
7. Tighten the screws uniformly and gradually so that the two stainless steel clamps come together during the tightening, always parallel to each other according to the recommended tightening torque.

**Note:** during this operation make sure that the vulcanized part of the gasket does not strain in order not to compromise the seal.

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