



# REPAMAX<sup>®</sup>

WIDE-RANGE COUPLING OR REPAIR CLAMP

RANGE 10mm (650mm - 1800mm)

## INSTALLATION INSTRUCTIONS

**DO NOT REMOVE NUTS AND BOLTS. DO NOT LUBRICATE THE BOLTS.**

THE REPAMAX COUPLING MAY BE USED AS A NON-RESTRAINING STAB TYPE COUPLING OR A WRAP AROUND FULL CIRCLE REPAIR CLAMP.

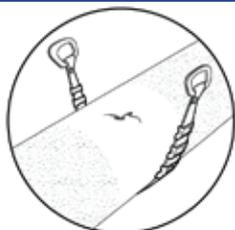
**NOTE:** REPAMAX HAS LIMITED TRANSITION CAPABILITY. WHEN INSTALLED ACCORDING TO INSTALLATION INSTRUCTIONS, THE REPAMAX CAN TRANSITION BETWEEN TWO PIPE ENDS-SEE TABLE FOR MAXIMUM TRANSITION, MINIMUM STAB DEPTH AND MAXIMUM OFFSET FOR SHEAR BREAK AND MISALIGNED PIPE.

### REFERENCE TABLE

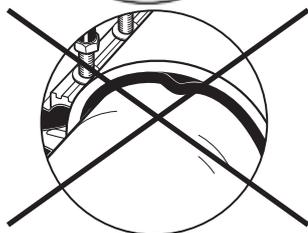
SIZE	MAX. TRANSITION	MIN. STAB DEPTH	MAX. OFFSET
650-1800mm	6mm	60mm	10mm

### STEP 1

Prepare the pipe ends. Clean and de-scale the pipe as needed.



Remove any debris or build up on the pipe and clean the outer pipe surface with water. Clean the pipe to a distance that is equal to the length of the REPAMAX body. Confirm that the pipe is not out of round and that it is free of scars, dents, flats, excessive corrosion or other defects that may interfere with the seal. Again, clean each pipe with water.

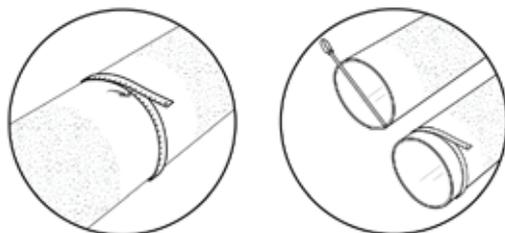


**NOTE:** All pipes and gasket must be lubricated with a water-based gasket lubricant in order to achieve a proper seal. Lack of lubricant may cause the gasket to form a "U" shape (see drawing). Installation without lubricant voids the warranty.

### STEP 2

Check the diameter of the pipe, using an OD tape and verify the size of the REPAMAX for proper fit.

**NOTE:** The applicable size range of the REPAMAX is shown on the product label.



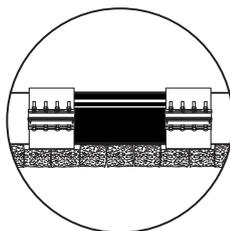
### STEP 3

Select the REPAMAX that best fits the pipe diameter.

Make sure that the pipe is properly supported.

**NOTE:** The REPAMAX is not designed to carry the weight of the pipe by itself.

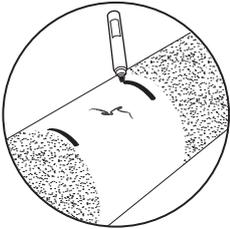
**NOTE:** If using REPAMAX as a repair clamp, proceed to step 4. If using as a stab type coupling, proceed to step 11.



**IF USING AS REPAIR CLAMP:**

**STEP 4**

Mark the pipe evenly on both sides of the crack according to the length of the product.



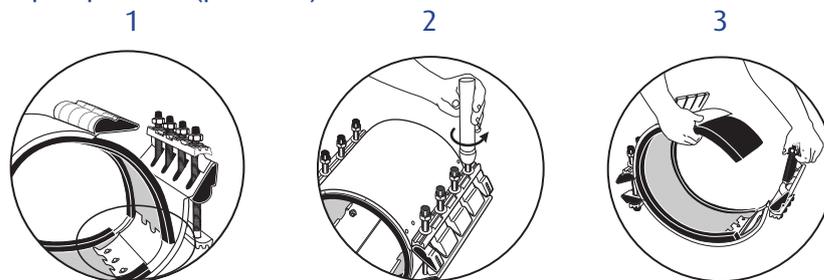
**STEP 5**

The large diameter REPAMAX has TWO CLOSING MECHANISMS, and therefore TWO STAGES to open when using as a wrap-around repair clamp.

**NOTE:** One closing mechanism is used as an "AXIS" to enable the installer to easily open the product. The 2nd closing mechanism, where the gasket has a "CUT" (circled section in picture 1) is used to open the REPAMAX.

**Stage A:** Slightly loosen (DO NOT REMOVE) the nuts on the "AXIS" closing mechanism (picture 2). This will give the REPAMAX enough flexibility to open the 2nd closing mechanism.

**Stage B:** On the 2nd closing mechanism, loosen (BUT DO NOT REMOVE) the nuts to the maximum. Now open the compression beam by pushing down on the lugs and unlatching the compression beam and allowing the clamp to extend into a completely open position (picture 3).



**STEP 6**

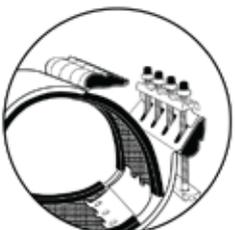
Position the REPAMAX around the pipe.

**NOTE:** The REPAMAX has sufficient range to allow for assembly next to the damaged area or break of the pipe and can be slid into position as long as the pipe surface has been lubricated.



**STEP 7**

Make sure that the gasket is on the surface of the pipe and the gasket end is in place between the body and the gasket guiding plate. Water-based pipe lubricant must be used on the gasket and pipe prior to wrapping the REPAMAX around the damaged area of the pipe.



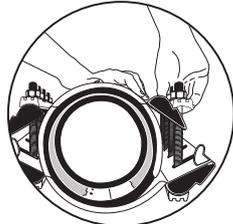
# INSTALLATION INSTRUCTIONS

## REPAMAX® WIDE-RANGE COUPLING OR REPAIR CLAMP

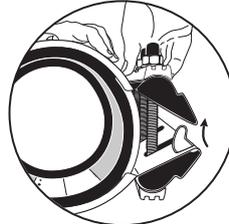
### RANGE 10mm (650mm - 1800mm)

#### STEP 8

Once the REPAMAX is around the pipe, re-engage the compression beam over the lug assembly by pushing it forward until it clicks in place. The REPAMAX is now in the first closing position. It can now be moved over the area of the leak. Once in place, move the compression beam again until it clicks into place covering the marks (step 4). This is the second and final closing position.



Click 1



Click 2 - final position

#### STEP 9

Tighten all the nuts, working from the center of the lug assembly towards the end of the coupling. Use of torque wrench is mandatory. Torque all nuts evenly on both sides and verify again that all nuts are closed to the torque specified on the label.

**NOTE:** Make sure that as you tighten the nuts the guiding teeth go into the receiving ports (see drawing 1). This will ensure that you are closing the lug assembly correctly.

**NOTE:** Do not lubricate bolts as this will void product warranty.



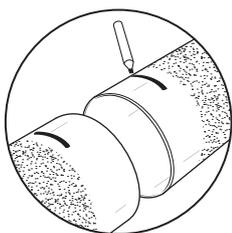
#### STEP 10

Recharge the line and check for leaks. If any leakage across the seal end is evident, reduce the pressure in the line and increase the labeled torque of the bolts up to 50%.

#### IF USING AS STAB TYPE COUPLING:

#### STEP 11

Mark the pipe ends to the proper stab depth. The minimum stab length is indicated on the product label, for each end of the host pipe and the new section of pipe.

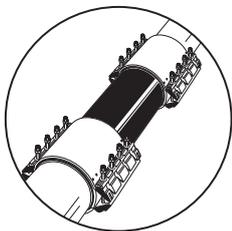


# INSTALLATION INSTRUCTIONS

## REPAMAX® WIDE-RANGE COUPLING OR REPAIR CLAMP

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#### STEP 12



Position the coupling: There are two ways to position the coupling over the pipe ends. You can clean the existing pipe back 305mm on each end and place the couplings on the ends of the existing pipe. Or place both couplings on the replacement pipe and lower it into the ditch. The couplings can now be moved to a stab depth as indicated on product label.

**NOTE:** It is extremely important that a gap between the pipes exists. Without a gap between pipes you will not have space for Continuous Dynamic Deflection.

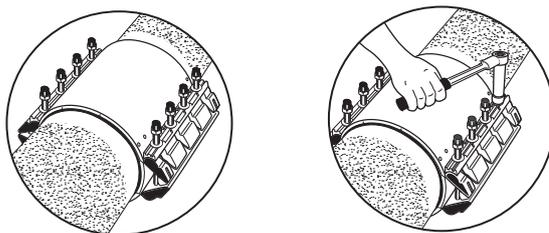
Apply appropriate gasket lubricant on both the inside surface of the gasket and the outer pipe surfaces. The coupling must cover the marks of the pipe according to the proper minimum stab depth.

#### STEP 13

Tighten all the nuts evenly on both sides, working from the center of the lug assembly towards the end of the coupling. Torque all nuts and verify again that all nuts are closed to the torque specified on the label.

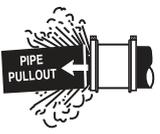
**NOTE:** Do not lubricate bolts as this will void product warranty.

**NOTE:** Use of torque wrench is mandatory. The torque wrench will verify the proper torque has been achieved.



#### STEP 14

Recharge the line and check for leaks. If any leakage across the seal end is evident, reduce the pressure in the line and increase the labeled torque of the bolts up to 50%.

 <b>WARNING</b>	This product does not restrain axial pipe movement. Proper anchorage of the pipe is required if this product is used as a coupling. Failure to anchor the pipe ends could result in the escape of line content, and may cause property damage, serious injury or death.
	

 <b>WARNING</b>	<b>Caution:</b> This product is not intended for use on natural gas piping, or any other type of gas piping. To do so could result in escaping gas that could ignite and cause property damage, serious injury or death.
	

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