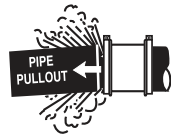


HYMAX[®]

a **MUELLER** brand

HYMAX VERSA[®] (Sizes 26"-80", Lengths 18" or 24") Installation Instructions

WARNING



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.



Caution: 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.

IMPORTANT

- **The HYMAX VERSA[®]** is suitable for use as a coupling that does not prevent axial motion or as a repair clamp that is wrapped around the pipe.
- Do not loosen the nuts completely from the screws but only until the desired degree is reached.
- Apply lubrication fluid on product and tube.
Except for PVC and PE pipes, it is required to lubricate all rough surface pipes with a water-based lubricant to achieve proper sealing.
- PVC or PE pipe surfaces must not be applied. Such an application will increase the closing torque of the screws in a way that would jeopardize the installation.
- Screws and nuts must not be greased. Screws are pre-coated with MAG coating (molecular material preventing corrosion). Greasing bolts or nuts eliminates the manufacturer's warranty.
- Use a torque wrench to tighten screws. A wrench with a torque gauge will ensure proper torque application. An impact tool can be used to close the product screws as long as the final tightening is done using a torque wrench.
- The HYMAX VERSA[®] can connect two pipe ends with a maximum outer diameter difference of up to .2".
- **For HDPE, pipe stiffeners or inserts are required.**

PREPARE PRODUCT AND PIPE FOR INSTALLATION

STEP 1: PREPARE THE PIPE ENDS, CLEANING DIRT FROM THE PIPE AS NEEDED

Remove any dirt on the pipe and clean the outer pipe surface with water to a distance equal or greater than the length of the product body.

Check for dents, cuts, oval imperfections, or any other defects on the pipe that may interfere with the seal.

NOTE: Make sure you have a long socket suitable for closing the product screws.



JOIN



REPAIR



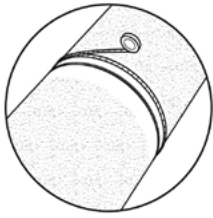
RESTRAIN



TAP

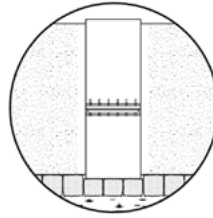
MUELLER

STEP 2: CHECK THE PIPE DIAMETER WITH AN OD TAPE MEASURE.



NOTE: The working range appears on the product label.

STEP 3: MAKE SURE THE PIPES HAVE SUFFICIENT SUPPORT.

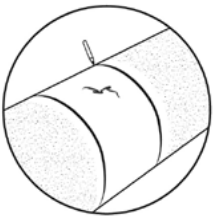


NOTE: This product is not designed to carry the weight of the pipe on its own.

NOTE: If using the HYMAX VERSA® for repair, proceed to step 4. If using as a coupling to connect pipes, proceed to step 12.

INSTALLATION INSTRUCTIONS FOR REPAIR

STEP 4: MARK THE PIPE EVENLY ON BOTH SIDES OF THE CRACK ACCORDING TO THE LENGTH OF THE PRODUCT.



STEP 5: LOWER THE HYMAX VERSA® ONTO THE PIPE.



Except for PVC and PE pipes, it is required to lubricate all rough surface pipes with a water-based lubricant to achieve proper sealing.



The absence of a lubricant may cause the gasket to form a "U" (see illustration), as a result of excessive friction with the pipe, restricting the gasket from sliding evenly during closing.

STEP 6: LIFT AND POSITION OF THE PRODUCT.



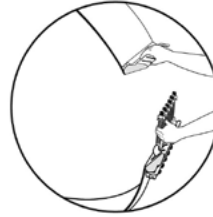
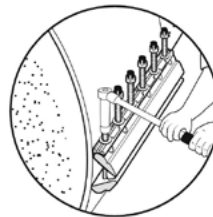
Two (2) belts should be tied to the lifting handles on the closed side of the product, on both sides of the closing mechanism.

STEP 7: PLACE THE PRODUCT ONTO THE DESIRED LOCATION ON THE PIPE.

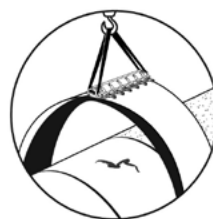


On the opening side of the product, slide to open the locking bridge towards the installer, until the product is fully extended.

Release the nuts on the opening side to the maximum position, without complete disassembly.



Partly loosen the bolts on the closed side of the product to create a hinged function.



Lower the product so that it wraps around the pipe and release the two belts from the lifting handles.

STEP 8: CLOSE THE OPEN LOCKING MECHANISM.

Make sure the gasket has not shifted out of place and that the ends of the gasket are fitted between the clamp body and guide plate as shown.



The plate can be bent outwards to make sure a smooth entry of the gasket when closing.

Make sure the gasket and pipe are properly lubricated.

Close with click 1 - Initial position: Engage the compression beam - First click - the product is now in the initial closing position. It can now be moved to the desired final location.

Close with click 2 - Final location: After the product is in the desired place and covers the markings from step 4, move the compression beam again until it clicks into place. This is the second and final closing position.



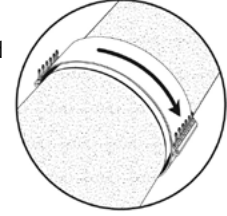
Click 1



Click 2 - final position

STEP 9: CLOSE THE OPEN LOCKING MECHANISM.

Ensure that the gasket has not shifted out from under the clamp.



STEP 10: TIGHTEN BOLTS.

WORK FROM THE CENTER OF THE LOCKING BRIDGE TOWARD ITS ENDS.

To tighten the bolts, use an appropriate power tool, such as an impact wrench. All the bolts on both sides must be tightened in a gradual manner.

Important: While tightening the screws, make sure that the guide teeth fit into their receiving openings (see Fig 1). This will ensure proper closure of the mechanism.

For the final closing, use a torque wrench to achieve the amount of torque specified on the product label.

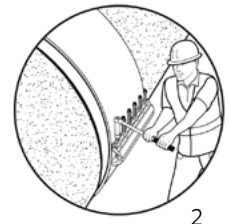
NOTE: Do not over-tighten the screws as this will void the product warranty.

NOTE: Throughout the bolt tightening process, make sure that the gasket on both sides of the product stretches evenly on top of the pipe and does not create a U-shape. See Fig 3.

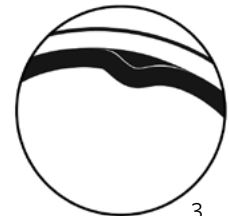
NOTE: If the gasket starts to take on a U-shape, try flattening it out with a screwdriver, and if not possible, loosen screws and start the process again.



1



2



3

STEP 11: RUN THE LINE AND CHECK FOR LEAKS.

If a leak is seen at the end of the gasket, reduce the pressure in the pipe and increase the torque at the closing of the screws up to 50%.

INSTALLATION INSTRUCTIONS FOR HYMAX VERSA® AS A COUPLING

STEP 12: MARK THE PIPE ENDS TO THE CORRECT BLASTING DEPTH.



The minimum blasting depth is indicated on the product label for each end of the pipe.

STEP 13: APPLY A GASKET LUBRICANT.



Except for PVC and polyethylene pipes, lubricate the pipes and the gasket with a water-based lubricant to get proper sealing. Lack of lubrication material may result in creating a U-shape gasket – see Figure.

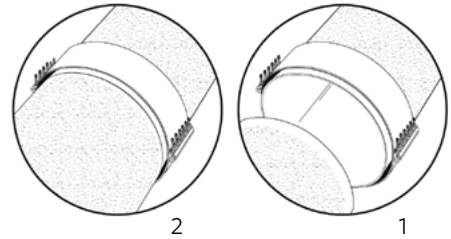


STEP 14: POSITION THE HYMAX VERSA® ACCORDING TO THE REQUIRED STAB DEPTH AS INDICATED ON THE PRODUCT LABEL, WITH THE SCREWS FACING UPWARDS.

Lower the product when it is closed on both sides. If necessary, lightly loosen the screws on both sides of the product, until stabbing of the pipe is possible.

The HYMAX VERSA® should be installed with both sides closed on the pipe. Slide the product from its place to the middle between the two pipes so that it evenly covers the two pipe ends, according to the markings.

IMPORTANT: It is very important to maintain a space between the pipes inside the product. Pipe spacing is necessary for continuous dynamic deflection of the pipes.



CONTINUE THE INSTALLATION AS DETAILED FROM STEP 9 TO STEP 11

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