



# HYMAX® GRIP END CAP

(1.5"-12")

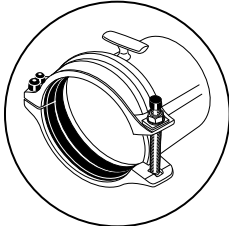
**HYMAX®**  
Repair the past. Connect the future.

## INSTALLATION INSTRUCTIONS

**DO NOT DISASSEMBLE THE END CAP. DO NOT LUBRICATE THE BOLTS.**

### GENERAL INSTRUCTIONS:

THE HYMAX GRIP END CAP IS A STAB-ON TYPE RESTRAINT THAT IS APPROVED FOR USE WITH METAL AND PLASTIC PIPES.

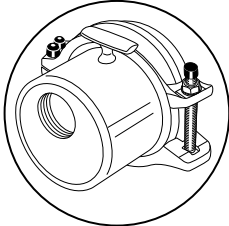


**WARNING:** DO NOT ATTEMPT TO USE THE HYMAX GRIP END CAP ON AC OR FRP PIPE!

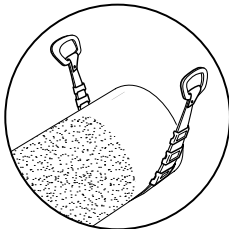
**NOTE:** ALL GRIP END CAPS HAVE A 2" NPT OUTLET.

**PRECAUTIONS FOR HDPE PIPE:** THE USE OF FULL CIRCLE STIFFENERS IS REQUIRED WHEN USING THE HYMAX GRIP END CAP ON HDPE PIPE.

FOR OTHER MATERIALS, PLEASE CONTACT KRAUSZ USA OR YOUR KRAUSZ DEALER.



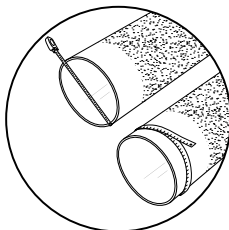
### STEP 1



Prepare pipe end by de-scaling if required. Clean the pipe as required with water. Make sure that the pipe is clean from debris and defects that interfere with HYMAX GRIP's proper seal.

**NOTE:** Except steel, PVC, and PE pipes, all rough-surfaced pipes must be lubricated with a water-based gasket lubricant in order to achieve a proper seal.

### STEP 2



Measure the pipe's outside diameter and make sure the coupling's size fits properly.

**NOTE:** Each coupling's size range is shown on the product's label. Make sure that the pipe is not out of round! The pipe should be free of scratches, dents, flats or other defects which may interfere with the End Cap's proper seal. The GRIP End Cap may not fit well or function properly on a pipe which is damaged or is out of round.

### STEP 3

Unpack the GRIP End Cap. Carefully remove it from its packaging. Inspect the product and end rings for shipping damage and ensure all parts are present.

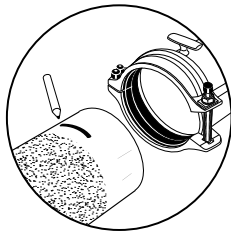
Inspect the end rings. If they are not centered on the End Cap - DO NOT USE! Contact your distributor for return and replacement.

**NOTE:** HYMAX GRIP End Cap is a stab-on type product. Do not loosen or remove the end ring bolts.

**NOTE:** Make sure that the pipe is properly supported. HYMAX GRIP End Cap is not designed to carry the weight of the pipe by itself.

**NOTE:** Bolts are pre-lubricated with a MAG coating. This embedded zinc lubrication will prevent cold weld. Do not lubricate the bolts and nuts. Greasing or lubricating bolts or nuts voids the manufacturer's warranty.

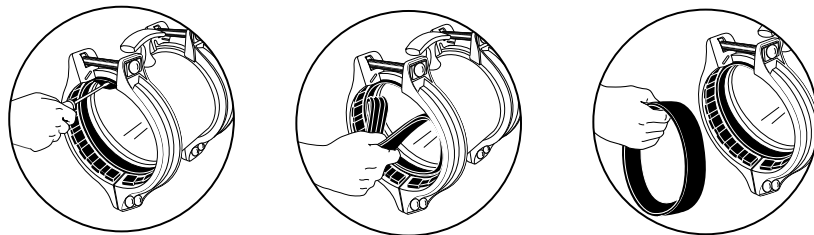
#### STEP 4



Mark pipe end to a minimum required stab depth as indicated on the product label. These marks indicate the required stab depth of the pipe on the HYMAX GRIP End Cap.

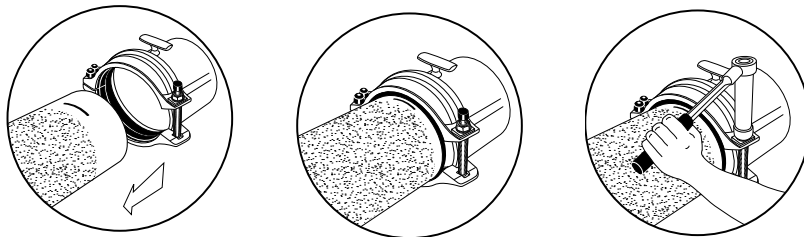
The HYMAX GRIP End Cap fits a wide range of pipe sizes. Each product's range is shown on the product's label.

**For size 1.5"-3" only:** Size the gasket. The GRIP End Cap has two gaskets in these sizes; a removable inner gasket and a hydraulically-assisted outer gasket. The inner gasket can be removed to accommodate larger OD pipes. DO NOT remove the inner gasket unless the OD falls within the upper range of the End Cap. The proper range sizes are shown on the product label. If the inner layer of the gasket must be removed, fold the inner layer and separate the two gaskets by inserting a screwdriver between the two layers, and pull the layer out of the product.



#### STEP 5

Connect the HYMAX GRIP End Cap to the pipe. Stab the GRIP End Cap onto the pipe so it covers the mark on the pipe drawn in step #4 above.



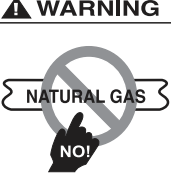
#### STEP 6

Tighten the end ring using a torque wrench, to the correct torque shown on the product's label.

**NOTE:** Use a torque wrench to tighten the bolt - this is required. A torque wrench will assure a proper torque has been applied to the coupling.

#### STEP 7

Recharge the line and check for leaks. If any leakage is evident, reduce the pressure in the line and increase bolt's torque by up to 50%. For sizes 1.5"-3" increase bolt's torque by up to 30%. Verify again no leaks are evident along the seal.

	<p><b>WARNING</b></p> <p><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.</p>
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