



HYMAX® GRIP REDUCER

(40mm - 300mm)

INSTALLATION INSTRUCTIONS

DO NOT DISASSEMBLE THE COUPLING. DO NOT LUBRICATE THE BOLTS.

GENERAL INSTRUCTIONS:

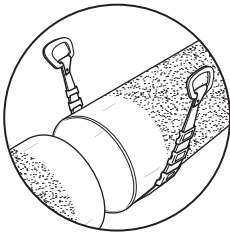
THE HYMAX GRIP REDUCER IS A STAB-ON TYPE RESTRAINT THAT IS APPROVED FOR USE WITH METAL AND PLASTIC PIPES.

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

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

FOR OTHER MATERIALS, PLEASE CONTACT YOUR KRAUSZ DEALER.

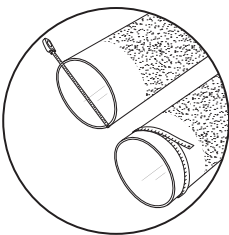
STEP 1



Prepare both pipe ends of the pipe 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 the reducer'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 outer diameter and make sure the reducer's size fits properly.

NOTE: Each reducer'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 coupling's proper seal. The reducer may not fit well or function properly on a pipe which is damaged or is out of round.

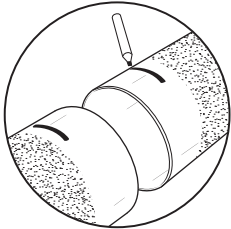
STEP 3

Unpack the reducer. Carefully remove the reducer from its packaging. Inspect the reducer and end rings for shipping damage and assure all parts are present. Inspect the end rings. If they are not centered on the reducer - DO NOT USE! Contact your distributor for return and replacement.

NOTE: HYMAX GRIP Reducer is a stab-on type coupling. Do not loosen or remove the end ring bolts.

NOTE: Bolts are pre-lubricated with a MAG (Molecular Anti-Galling) 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



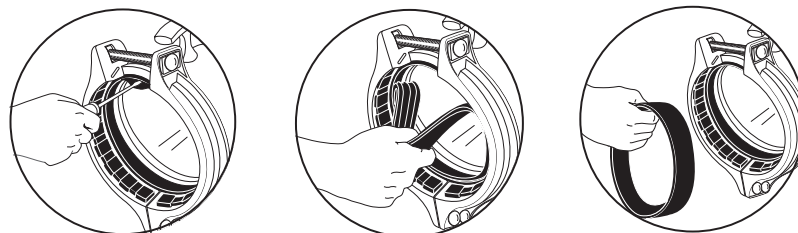
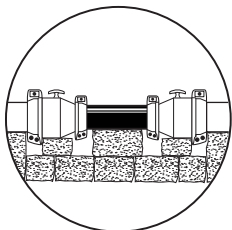
Mark each pipe end to a minimum required stab depth as indicated on the product label. These marks indicate the required stab depth of the pipe on the reducer.

Sizes	Min. Stab Depth
40-175mm (Range 32mm)	95mm
175-300mm (Range 50mm)	125mm

STEP 5

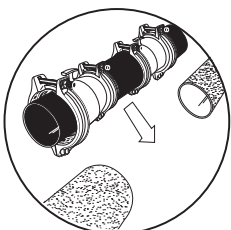
The HYMAX GRIP Reducer fits a wide range of pipe sizes. The reducer's range is shown on the product's label.

Size the gasket. The reducer 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 reducer. 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 reducer.



Make sure that the pipes are properly supported. The HYMAX GRIP reducer is not designed to carry the weight of the pipes.

STEP 6

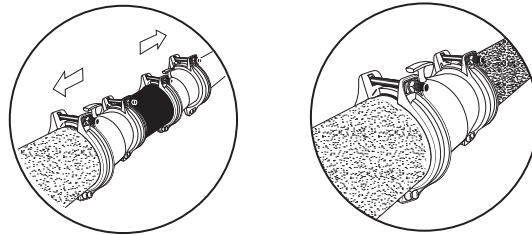


Position the reducer for installation. Make sure that the different product diameters fit the different pipes. Now slide the reducer on both sides of the replacement pipe. Lower the replacement pipe, and the two reducers positioned on it, into the ditch.

STEP 7

Slide the two HYMAX GRIP Reducers from the replacement pipe in the direction of the two old pipes until they reach the pipe marks shown in step 4.

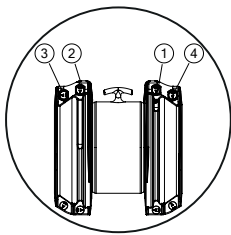
NOTE: Make sure that the pipes are not touching each other inside the body of the HYMAX GRIP Reducer. There must be space between the pipes in order for "Continuous Dynamic Deflection" (CDD) to take place.



STEP 8

Tighten the end rings using a torque wrench, to the correct torque shown on the product's label. By tightening bolts, the reducers are steadily stabbed on the pipe.

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



In products with 50mm range please tighten bolts as follows:



A. Tighten bolts 1+2 to the specified torque to activate gasket seal.

B. Tighten bolts 3+4 to the specified torque to engage restraining mechanism.

C. Tighten bolts 1+2 and 3+4 by alternating between them until they have reached the specified torque.

STEP 9

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 40-80mm increase bolt's torque by up to 30%. Verify again no leaks are evident along the seal.

	WARNING
	NO!
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.	



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