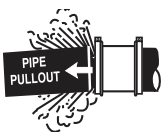


KRAUSZ[®]

a MUELLER brand

HYMAX[®] FLANGE ADAPTOR AND FLANGE ADAPTOR LONG BODY (DN350-DN1500) 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 FLANGE ADAPTOR IS A STAB-ON TYPE COUPLING. Do not disassemble the product. Do not lubricate nor loosen the bolts.**
- **DO NOT LUBRICATE BOLTS AND NUTS.** Bolts are pre-lubricated with a MAG (Molecular anti-galling) coating. Greasing bolts or nuts voids manufacturer's warranty.
- **USE A TORQUE WRENCH TO TIGHTEN THE BOLTS.** A torque wrench will assure a proper torque has been applied to the coupling. Do not use other tools to tighten the coupling's bolts!
- **LUBRICATION OF HYMAX** 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.
- **TIGHTEN BOLTS TO THE TORQUE** value provided on the label in one continuous step. Krausz Products do not require a gradual increase of torque over a specified period, nor do they require re-torque. The minimal torque requirements must be achieved
- **prior to any recharging of the line.**
- **PIPE STIFFENERS OR INSERTS** are recommended when used on HDPE pipes.



JOIN



REPAIR



RESTRAIN



TAP

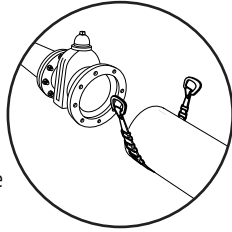
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PREPARE PRODUCT AND PIPE FOR INSTALLATION:

STEP 1: PREPARE THE PIPE ENDS.

CLEAN AND DE-SCALE THE PIPE AS NEEDED

Remove any debris or build up on the pipe end and clean the outer pipe surface with soapy water. Clean pipe end to a distance that is equal to the length of the center ring. Make sure there is no corrosion on the outer pipe end that could affect the gasket seal. Again, clean pipe end with water.



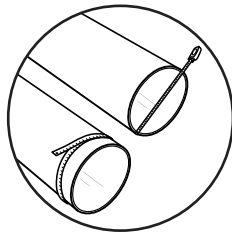
NOTE: Sizes DN350-DN600: Except steel, PVC, and PE pipes, all rough-surfaced pipes must be lubricated with a water-based gasket lubricant in order to achieve a proper seal.

Sizes DN650-DN1500: All pipes must be lubricated with a water-based gasket lubricant in order to achieve a proper seal.

STEP 2: MEASURE

Measure the pipe's outer diameter and make sure the adaptor's size will fit properly.

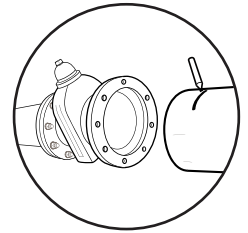
NOTE: Each product's size range is shown on the product's label. Assure pipe is not out of round, free of scratches, dents, flats or other defects which may interfere with the coupling's proper seal. The HYMAX Flange Adaptor may not fit well or function properly on pipe which is not round or damaged.



STEP 3: MARK THE PIPE

Mark each pipe end to a minimum required stab depth.

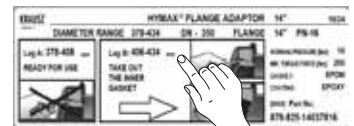
The required min. stab depth for sizes DN350-DN1500 is 100mm.



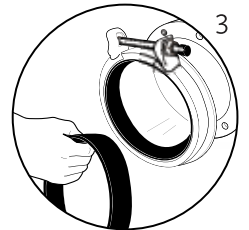
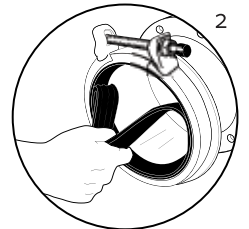
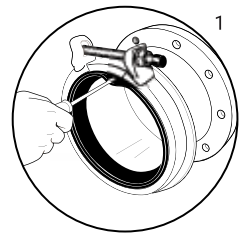
STEP 4: FLANGE ADAPTOR SIZES AND GASKETS

The flange adaptor gasket system has two layers, a removable inner gasket layer and a hydraulically assisted "outer gasket" layer. The "inner gasket" layer can be removed to accommodate larger OD pipes.

DO NOT remove the inner gasket unless the OD falls within the upper range of the coupling. The proper range sizes are shown on the product label. If the inner layer of the gasket must be removed, separate the two layers and break the parting line by inserting a screwdriver (1) between the two layers, peel the gasket layer (2) and pull it out of the coupling (3).

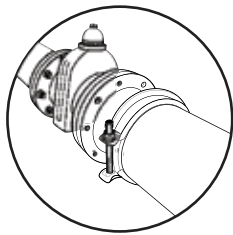


NOTE: Once the inner gasket is removed it can NOT be re-installed! Verify the OD of the pipe TWICE before using an OD tape!



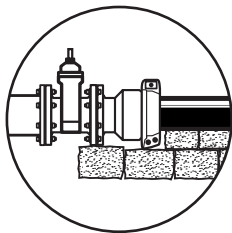
STEP 5: POSITION THE HYMAX FLANGE ADAPTOR

Once the gasket is properly sized, position the HYMAX Flange Adaptor over the pipe end covering the marks on the pipe (step 3). For uncoated ductile iron, grey cast iron and asbestos cement pipe surfaces, appropriate gasket lubricant is required on both the inside surface of the gasket and the outer pipe surfaces.



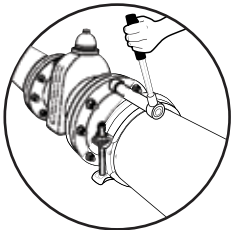
All pipes above OD 600mm must be lubricated with a water-based gasket lubricant in order to achieve a proper seal.

NOTE: The HYMAX Flange Adaptor is not designed to carry the weight of the pipe by itself



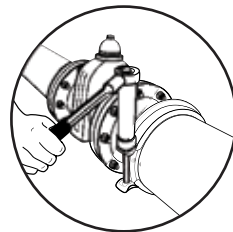
STEP 6: ASSEMBLE THE FLANGE JOINT USING FLANGE BOLTS

Make sure you use a flat gasket between the flanges (not provided).



STEP 7: TIGHTEN

Tighten the Flange Adaptor's bolts using a 23.81mm (15/16") socket wrench for 350-600mm Flange Adaptors, and a 38.10mm (1.5") socket wrench for 650-1500mm Flange Adaptors. Tighten the bolts evenly on each end ring in an alternating pattern to the torque mentioned on the label. Cross-tightening ensures that the gasket is evenly seated. When you finish, re-check the torque again.



DO NOT LUBRICATE BOLTS!

NOTE: Use of a torque wrench is required! The torque wrench will verify that the proper torque has been achieved. Refer to the product label for the proper torque settings.

STEP 8: RECHARGE

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 end ring bolt/s by up to 50%*.

*In exceptional cases, where increasing bolt torque beyond standard declaration is required, contact your KRAUSZ local representative for more information.

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