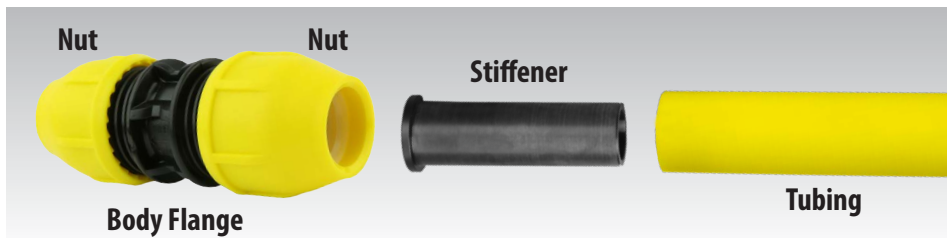


HOME-FLEX Underground® IPS Fitting Assembly



HOME-FLEX Underground® IPS fittings are for use with IPS sized yellow poly gas pipe that has been approved for use with natural gas and propane.

1. Check contents. Each product package includes a fitting and a number of stiffeners to be used on each end of pipe being connected (i.e. 2 stiffeners for a Coupler or Elbow, 3 for a Tee).

2. Cut the pipe square. There is no need to chamfer the pipe end. Ensure any burrs on the pipe are removed and the pipe is clean.

3. Insert stiffeners. Insert the supplied stiffeners into each end of the pipe being connected.

4. Push stiffener into pipe. Push the stiffener all the way into the pipe until the ridge is flush with the pipe end. This can be done by hand, or gently tapped in with a mallet if required.

5. Ensure 3 threads are showing on the fitting body. The fitting is supplied in a ready-to-use position. You do not need to disassemble the fitting prior to use. Always ensure 3 threads are exposed on the central body of the fitting prior to use.

6. Mark fitting depth. To ensure correct insertion depth and achieve a successful sealing performance, witness mark the pipe against the flange on the central body of the fitting. Line up the pipe against the fitting and use the flange on the central body as the guide point to witness mark against.

7. Insert the pipe into the fitting. Gently slide the pipe into the fitting so the end of the nut reaches the witness mark on the pipe. No force is required to do this. Do not insert beyond this point.

8. Tighten the fitting. Tighten the nut until the nut touches the flange on the central body of the fitting. Do not tighten further once the nut touches the flange as overtightening can damage the fitting. It is recommended a wrench is used to tighten the nut.

9. Fitting is installed. The fitting is now fully installed and ready for use. Note nut position relative to the flange on the central body. Check for system leaks prior to backfilling.

WARNING! Improper installation or operation of the system may result in fire, explosion, or asphyxiation. Only the components provided or specified by Valencia Pipe Company for use with HOME-FLEX Underground® or as part of the fuel gas system are to be used in the installation. Use of components from other flexible gas piping systems other than those specified as part of the HOME-FLEX Underground® systems is prohibited and may result in poor system performance and serious bodily injury or property damage.

HOME-FLEX®
UNDERGROUND

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While every effort has been made to prepare this document in accordance with all regional model codes in effect at its printing, Valencia Pipe Company cannot guarantee that the local administrative authority will accept the most recent version of these codes. It is the ultimate responsibility of the qualified installer to determine suitability and acceptance of any building component, including gas piping. Valencia Pipe Company, manufacturers of HOME-FLEX Underground® assumes no responsibility for labor or material for installations made without prior determination of local code authority acceptance. HOME-FLEX Underground® and the VPC logo are registered trademarks of Valencia Pipe Company, Inc. All rights reserved. 1609/B



HOME-FLEX Underground® Installation Practices & Guidelines

1. HOME-FLEX Underground pipe and fittings must be installed in accordance with the Installation Practices & Guidelines outlined in this document as well as all local plumbing, mechanical, electrical and/or building codes and laws applicable at the locale where HOME-FLEX Underground is to be installed. If you do not understand all aspects of the installation requirements and local codes, locate a qualified installer in your area who does. Customers may apply for a Qualified Installer card, which may be required by some jurisdictions, online at: homeflex.com/register.
2. Only the components provided or specified by Valencia Pipe Company as part of the piping system are to be used in the installation.
3. Never use HOME-FLEX Underground products in above-ground applications.
4. Never use HOME-FLEX Underground products inside buildings.
5. Never encase HOME-FLEX Underground products in concrete.
6. Do not use HOME-FLEX Underground pipe fittings to connect poly gas pipes other than the specified size as marked on the fitting.
7. Underground gas piping must be installed with sufficient clearance from any other underground structure to avoid contact, to allow maintenance, and to protect against damage from proximity to other structures. In addition, underground plastic piping shall be installed with sufficient clearance, or shall be insulated from any source of heat so as to prevent heat from impairing the serviceability and reliability of the pipe.
8. Ensure that correct stiffener is used with the correct sized pipe (part numbers are marked on stiffener):

Stiffener Part No. and Associated Pipe Size	
Part Number	Pipe Size
17212207	1/2" IPS OD SDR9.3
10711127	1/2" CTS OD SDR7
17213307	3/4" IPS OD SDR11
17214407	1" IPS OD SDR11

9. Ensure the sizing on the fitting nut matches the sizing on the pipe being connected.
10. The fitting is supplied assembled and ready to use. If the fitting is disassembled, ensure all nut components are present and in the correct orientation as pictured in Figure 1.
11. When installing PE pipe care must be taken to avoid inducing excessive stresses to the pipe and fittings.
12. Excessive bending of plastic piping systems, particularly at joints, can exceed stress limits and result in failure. Pipe, when joined with fittings, shall be laid as true to line as possible, while taking into consideration that common PE gas pipe may expand or contract 1 inch for every 10° F of temperature change per each 100 foot section of pipe. Grading and backfilling must be carried out carefully to prevent uneven settlement and therefore excessive bending. Please refer to ASTM D2774 for additional information on backfilling.
13. The use of damaged pipe where the joint is being made must be avoided. If there is a cut or groove in the pipe that section should be cut out. Sealing performance can be affected by scored or damaged pipe, so caution should be taken if present on the pipe.
14. The HOME-FLEX Underground® gas piping system must be pressure tested for leaks in accordance with all local codes.

Figure 1: Fitting Nut Reassembly



WARNING!

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Troubleshooting Fitting Assembly and Correcting Leaks

Check for leaks. If a leak is detected, check the following:

Step 1: Ensure that all yellow nuts on the fitting are tight up against the black body of the fitting. If they are and leak persists, go to step 2.

Step 2: Loosen the yellow nut and remove the pipe from the fitting.

a. Examine the inside of the fittings to make sure it is free of dirt or any debris that will interfere with the outside of the pipe making a seal against the inside of the fitting.

b. Make sure that the outside of the pipe is clean and smooth.

c. Reassemble the pipe into the fitting follow the assembly instructions and check for leaks.

Note: It is not necessary to remove the yellow nut completely off of the fitting. If this occurs use the diagram above to reassemble the fitting properly.