



PEXALGAS®

PRODUCT OVERVIEW

Introducing an innovative, multilayer PEX-AL-PEX solution that accelerates and simplifies gas piping installations.



INNOVATIVE SOLUTION

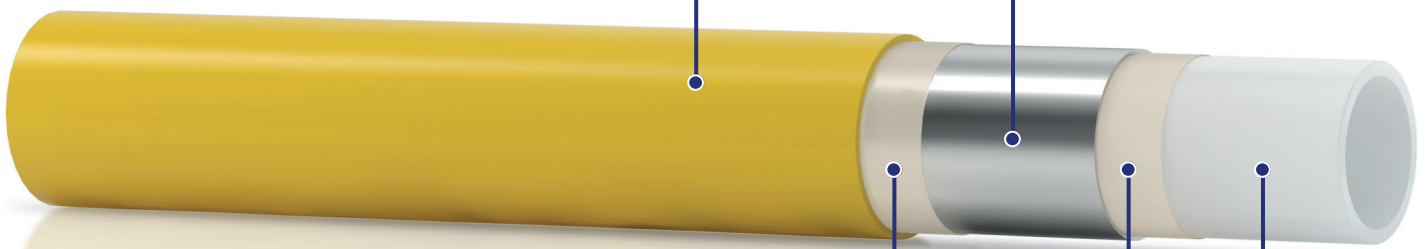
The PEXALGAS® multilayer system combines the positive features that are typical of crosslinked polyethylene PEX-b and also those of aluminum; **crosslinked polyethylene PEX-b offers excellent mechanical, physical and chemical properties and the aluminum pipe strengthens mechanical resistance** introducing excellent characteristics of flexibility and malleability, fundamental features for accelerating and simplifying installation operations.

External layer

This layer is produced with crosslinked polyethylene PEX-b and acts as a mechanical, electrical and chemical protection for the aluminum layer thus shielding it from blows, scratches and electrochemical attacks by water, cement and other substances in the ground.

Intermediate layer

This is made up of a pipe in aluminum alloy that is butt-welded longitudinally and which acts as a barrier to oxygen, gas and light giving the pipe excellent mechanical resistance and flexibility during installation.



Bonding layers

These layers are made up of a powerful adhesive that bonds the intermediate layer in aluminum with the internal and external layers.

Internal layer

The internal layer is made up of a crosslinked polyethylene PEX-b pipe characterized by an extremely smooth surface which significantly reduces pressure losses.

The end result is a product that is composed of different layers of material that allows **excellent properties to be reached that otherwise would not be possible with a pipe made of one single material.**

Standards/Approvals:

- Certified to International Fuel & Gas Code, International Residential Code, and Uniform Plumbing Code.
- Meets UPC, ICC ES PMG, ASTM F1281-2017 and AS 4176.8-2010 standards



PEXALGAS® ADVANTAGES



As a result of the **proprietary and unique design**, flow rates can exceed and outperform that of traditional gas piping methods allowing for up to 60% reduction in material.



The installation of PEXALGAS® is approximately **50% faster than CSST** and approximately 75% faster than installing black iron pipe.



The extreme smoothness of the internal surface ensures **reduced pressure losses**.



Connection between the crosslinked polyethylene and aluminum offers **excellent flexibility during bending** and **structure permanence in the long term**.



The layer of aluminum acts as a **barrier to the passage of oxygen, gas and light**.



Thermal expansion is about 8x lower than that of plastic pipes and is **similar to that of metal pipes**.



The elasticity of the crosslinked polyethylene means vibrations are absorbed which therefore offers **excellent sound absorption**.



Ideal solution in areas subject to earthquakes thanks to the **excellent mechanical properties** such as flexibility and capacity to dampen vibrations.



The **total resistance to corrosion, to construction materials and to the principal chemical compounds** allows it to be used in the most applications.



The coiled pipes are up to **50% lighter in material weight** than other gas piping materials.



Wide range of pipes from 16 mm - 32 mm (3/8" - 1" closest U.S. equivalent size).



The **range of fittings, accessories and tools is particularly wide** and allows all requirements to be satisfied.



Produced with materials that are **completely recyclable** which can be recovered at the end of their service life.



Lightning strike testing proves PEXALGAS® withstands and outperforms other materials in the market.



Fire resistant material (rating of C-S2,D0 according to EN 13501-1).



Meets UPC, ICC ES PMG, ASTM F1281-2017 and AS 4176.8-2010 standards and is **certified to** International Fuel & Gas Code, International Residential Code, and Uniform Plumbing Code.

LABOR SAVER

PEXALGAS® multilayer pipes can be bent instead of employing fittings thus saving significant labor time compared to using CSST, Copper, and Black Iron pipe. Once bent and installed the pipes remain in place over time and thus allow the number of anchor clips to be reduced which, in surface mounting, can be reduced by 40% of the number of clips necessary for plastic pipes in PEX, PE-RT, PP-R, PB, PVC-C, etc.

APPROXIMATELY **50%**
FASTER
INSTALLATION
than CSST

Plus

UP TO **50%**
LIGHTER
IN WEIGHT

and

UP TO **60%**
MATERIAL
SAVINGS

PEXALGAS[®] PRODUCTS

PIPE AND FITTINGS

Fittings:

PEXALGAS[®] crimp fittings feature a brass alloy body and stainless steel sleeve. The sleeve is fixed with a technopolymer yellow ring that isolates the aluminum in the pipe from the brass fitting.

- Couplings
- Tees
- Adapters
- Elbows
- Flanges

Fittings can only be used with PEXALGAS[®] pipe and tools.

Piping:

Smooth PEX-AL-PEX design allows for a less turbulent flow, which means smaller pipe diameters can be used during installation.

- Lengths of 328' for 16 mm and 20 mm diameter pipe
- Lengths of 164' for 26 mm and 32 mm diameter pipe

PEXALGAS[®] multilayer pipes can be bent by hand with diameters up to 32 mm with bending radii up to 2.5 times the pipe's diameter.

Pipe can only be used with PEXALGAS[®] tools and fittings.

Pipe and Fittings hold a 2 year manufacturer warranty.



TOOLS

High-quality, proprietary tools allow installers to bend, cut and ream the pipe, as well as make final crimp connections.

Tools can only be used with PEXALGAS[®] pipe and fittings.

Tools hold a 1 year manufacturer warranty.



SIMPLE INSTALLATION

Connections in the PEXALGAS® system are performed easily and safely and involve just a few simple operations. Before installing, reference the PEXALGAS® installation instructions sheet to ensure safe and proper installation.

Installation as simple as...



1
Cut It.



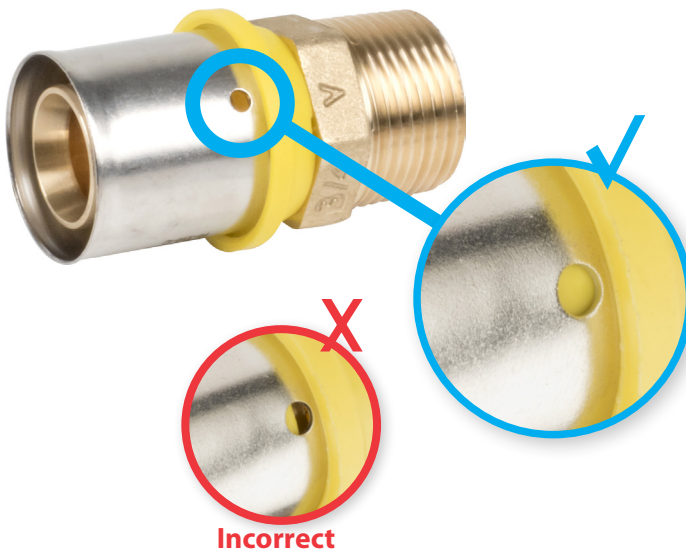
2
Ream It.



3
Push It.



4
Crimp It.



FITTINGS DESIGNED WITH VISUAL INDICATOR

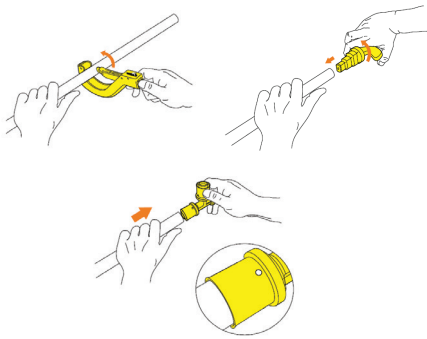
The PEXALGAS® fittings **leak immediately in the event of incorrect crimping**; therefore, in the event of poor crimping, the error can be immediately identified, allowing an easy and safe installation.

The stainless steel sleeves have three holes on the end that allow the installer to **verify that the pipe has been fully inserted**.

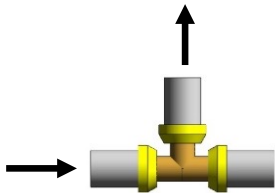
A technopolymer yellow ring at the end of the fitting prevents contact between the brass and aluminum of the pipe, thus avoiding galvanic corrosion.

TECHNICAL RESOURCES

Several technical resources are available for PEXALGAS[®], including installation instructions and specification sheets. Visit jonesstephens.com/pealgas to view all resources, or scan the QR codes on this page to view documents.



Installation Instructions are available to guide installers on the proper installation techniques for PEXALGAS[®]. The installation must be performed by a trained installer as required by state and local administrative authorities. Only Jones Stephens PEXALGAS[®] components may be used in the system.



A **Specification Sheet** that outlines PEXALGAS[®] technical data, such as material, dimensions, product markings, and pressure loss data, is also available.



The **PEXALGAS[®] Catalog** makes product selection easy. Visit the comprehensive catalog to view the pipe, tools and fittings that are included in this new, innovative gas piping system.

**View Catalog and
Technical Resources**



JONES STEPHENS

PEXALGAS®

Introducing an innovative, multilayer PEX-AL-PEX solution that accelerates and simplifies gas piping installations.

Why wait to save time and money?
Ask your Jones Stephens sales representative today for product details.

Watch the
Video



View the
Catalog



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