



## KPS LPG Pipe System™

Making fuel flow safely



# For retailers

## Long life expectancy

The KPS LPG pipe is made of non-corroding polyethylene that has been used for petrol, gas and water piping for more than 60 years. Polyethylene has properties that make it superior for use in buried piping: It does not corrode in contact with water, nor will the material become degraded in contact with soil. Polyethylene piping can remain in service for decades.

The KPS LPG pipe has an inner lining that prevents permeation of hydrocarbons to the environment. The liner is the same that is used in petrol piping, with proven zero permeation as a result. The end fittings that connect the pipes to the tank and dispensers are made from 100% stainless steel in order to provide long-term safety against corrosion and prevent hazardous gas leaks.

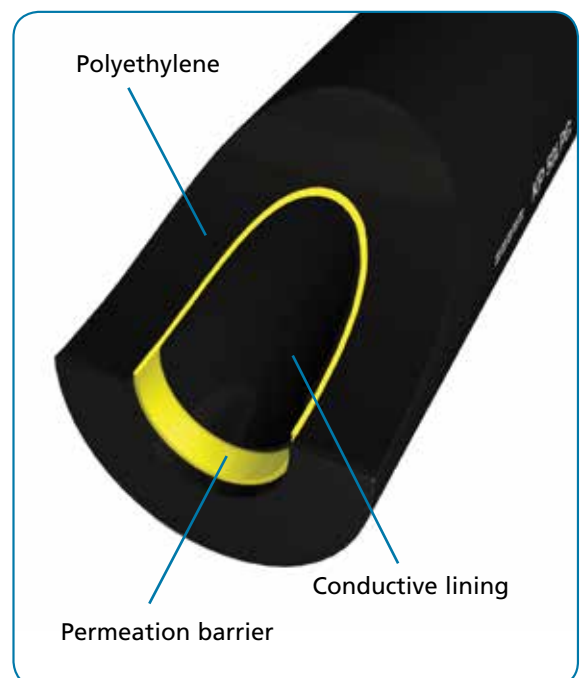


## Short payback time

An investment in KPS plastic LPG piping pays off quickly compared to standard LPG steel piping. With KPS LPG piping you do not need to install cathodic protection for the piping and there is no need to close the site every few years to inspect for possible corrosion or to perform hydrostatic pressure tests to verify integrity of the piping. Even for a small station, payback time will be reached in about 5 years.

## Safe in hazardous areas

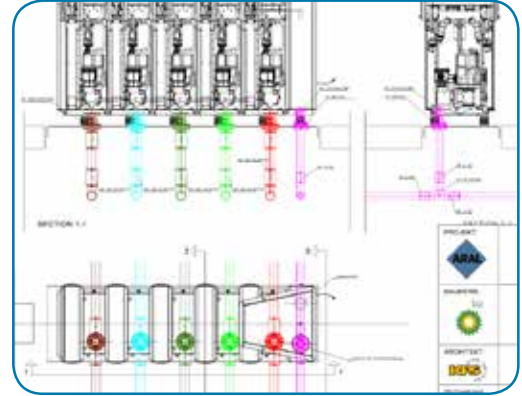
When switching from steel piping to plastic piping you need to take caution not to introduce static electricity hazards on your LPG station. KPS LPG pipes have a dissipative (conductive) lining that prevents electrostatical charging. KPS LPG piping is the only plastic LPG piping that can be grounded to earth and it offers inherent protection against electrostatical hazards.



# For project managers and architects

## Design support

OPW can provide designers and architects with support already from the initial stages of a project. We can provide the specifications and drawings that you need for your project. We can even make detailed, station specific installation drawings ready to use for the building permit application - or provide customized training for project managers, designers and architects.



## Proven installation process

The KPS LPG installation manual and installer training describes, step by step, the installation of KPS LPG piping. The complete process is verified at actual installations by our technical support team to make sure no construction delays occur. The KPS installation manual can be used by project managers during the planning stages as well as during installation and commissioning to verify that the installation work is performed correctly.



## Clear test & verification process

KPS LPG Pipe System™ has a clearly defined test and verification process that shows the steps to take before the piping system is ready for commissioning. The LPG installation checklist and test documentation form can be used to verify that all recommended tests have been run successfully.





# For installers

## Easy installation

KPS LPG piping is considerably easier to install than stainless steel piping or plastic covered steel piping. The pipe is rolled out in full length from tank to dispenser. There is no need for welding or x-ray of welds. No cathodic protection is necessary as the pipe is non-corroding.

## Retain full flexibility on site

KPS LPG pipe is delivered in coils of standard lengths. The installer can decide the correct pipe length on site and full flexibility is retained in order to adapt to unforeseen circumstances that affect the run of the pipe, like large rocks or old concrete structures hidden in the ground. As there is no need to pre-order specific lengths, delivery times are shorter.

## Install using standard mechanical tools

KPS LPG end fittings are installed using inexpensive standard tools. There is no need to rent or buy expensive machinery, or to order pre-mounted fittings with extended delivery times as a result. We can provide complete tool kits with exactly the tools that are needed for installation, but you can just as easily buy them in your local hardware shop.

## Full technical support

OPW provides full technical support for the KPS LPG Pipe System™, starting with an easy to read installation manual, illustrated installation instructions and installer training in the local language. To get you off to a good start, we provide on-site installation support during your first KPS LPG piping installation. Our technical support is always available by phone or email.



## For retailers

### Rated for high pressures

The KPS LPG Pipe System™ is rated for 25 bar (363 psi) continuous pressure, well above the pressures normally used on LPG filling stations. The pipe can be pressure tested at 40 bar (580 psi) to verify the integrity of the pipe after installation. The burst pressure of the pipe is around 250 bar, offering an excellent safety margin.

### TÜV approved

KPS LPG Pipe System™ is approved by TÜV Süd for use on LPG filling stations. The TÜV approval validates that the KPS LPG Pipe System™ is fit for purpose and may be installed on LPG filling stations. TÜV Süd has concluded the KPS LPG piping will have a service life of at least 25 years. KPS LPG piping is the only plastic LPG pipe approved by TÜV.

### ATEX approved and EN compliant

KPS LPG Pipe System™ is approved to the EU Directive 97/23/EC on workers' safety and CE approved to the Pressure Equipment Directive (PED) and allowed to carry the CE mark. KPS LPG Piping System™ is also compliant with the relevant requirements in EN 13163-1, Non-electrical equipment for potentially explosive atmospheres. When using KPS LPG piping you comply with all the mandatory EU directives for LPG filling stations.

### Solid supplier

The KPS LPG pipe is developed by KPS, the leading developer, manufacturer and supplier of plastic piping for petrol, diesel and ethanol filling stations, with a track record going back to 1981. KPS petrol piping has successfully been installed at countless filling stations in Europe, Asia, Africa and the Middle East.

KPS is now part of OPW, a global supplier of fuel retail equipment and a Dover company (NYSE: DOV). We are certified to ISO 9001 and 14001.



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**OPW Retail Fueling**

Components and products to protect the environment and the consumer at retail fueling sites for conventional and alternative fuels.

**OPW Electronic Systems**

Innovative electronic tank gauges and fuel control systems to ensure customers know how much fuel they have and where it is going. Also, Automated Vehicle Wash Systems.

**OPW Chemical & Industrial**

Safe and efficient loading and unloading of critical hazardous chemicals: loading arms, swivel joints, sight flow indicators, quick and dry disconnect couplers, and safety breakaways.

**OPW Transportation**

Components and systems for use on Tank Trucks and Rail Tank Cars to ensure the safe handling, loading, transport and unloading of hazardous bulk products, including: petroleum, chemical and dry bulk cargo.