

# **KPS Piping: Conductive & Non-Conductive**Petrol | Diesel | Jet-A1 | Ethanol Blends | Alcohols Resins | Conduits



### **KPS Piping: The Simple Solution**

### Petrol | Diesel | Jet-A1 | Ethanol Blends | Alcohols | Resins | Conduits

Specified and installed by oil companies around the globe since 1996, the KPS piping system is engineered around safety, easy installation, and performance. Today we're proud to say that all KPS double wall fittings weld both pipe walls simultaneously.

### No Leaks, No Permeation

Engineered for all current liquid fuels and many chemical products, KPS electrofusion piping is made from high-density polyethylene (HDPE) with an EVOH barrier far surpassing the EN 14125 standards.

For sensitive areas and fluids (like fuel transfer) KPS' double wall (multi-layer) electrofusion piping system provides an extra layer of protection.

All double wall KPS bends, electrofusion fittings and tees also have permeation protection and an interstitial space.

### **Technical Support & Training**

KPS offers technical support from the beginning to the end of every project, including drawings, site surveys, on site training and pipefitter certification.

### **Approvals**

EN 14125, ATEX 137, EN 13463-1 plus many other country or fuel specific standards.

For a full list of certifications and approvals, visit the resources page on the KPS website: <a href="https://www.kpspiping.com/resources">www.kpspiping.com/resources</a>

### Local Service. Globally

Regionalised manufacturing, and a worldwide network of employees and distributors, ensures hands-on support, local service and solutions, around the globe. KPS piping is manufactured in Sweden for the EMEA region under the watchful eye of the KPS technical team, ensuring consistent quality.

# Engineered For Fast & Easy Installation Conductive & Non-Conductive

### **Key Benefits**

- · Suitable for below and above ground installations
- Engineered for fast and easy installation: reducing cost and build time
- · Compact electrofusion fittings, elbows and tees
- Conductive (electrostatically safe) or non-conductive
- Zero permeation EVOH barrier, protecting the environment
- · Corrosion-free
- Technical support, training and certification (classroom and on site)
- Approvals: EN 14125, ATEX 137, EN 13463-1 plus many other country or fuel specific standards
- Leak detection & interstitial monitoring (secondary containment / multi-layer)
- Lightweight
- · Available in straights or coils
- Recommended operating pressure up to 6 bar (PN10 class)
- Temperature rating -20°C to +50°C

### Fluid Compatibility

- Petrol
- Diesel
- Biodiesel
- Ethanol blends\*
- AdBlue
- Jet-A1
- Alcohols\*
- Acids\*
- · Chemical products\*
- Other\*
- \*For full compatibility details, contact KPS at info@kpspiping.com



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Our Case Study Book



Thermal Power Plant France



Maxol AdBlue Manufacturing Facility, Ireland



Fuel Delivery Jetty for Primary Generator, Maldives

### **KPS Piping: The Simple Solution**

**NEW** 

110/90mm 3"

double wall

### **Products**

All piping is available in conductive or non-conductive (excluding conduits) and includes a comprehensive range of compact easy-install electrofusion fittings. Custom solutions are also available.



### Secondary Containment (Double Wall)

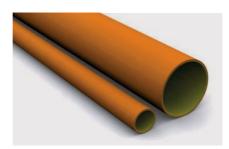
- 200/160mm 6" - 125/110mm 4"
- 110/90mm 3"
- 75/63mm 2"

- 40/32mm 1"



## Primary Containment (Single Wall)

- 110mm 4" 90mm 3" - 63mm 2" - 54mm 1 ½"
- 32mm 1" 25mm 3/4"



Conduits

- 75mm 2"
- 32mm 1"



For More Information
Contact KPS
or visit our website

### **Industries & Applications**

The KPS plastic piping system provides easy-install, safe, long-term fluid transfer solutions for a broad range of industries and applications.

### **Industries**



Power Supply: Critical Power & Backup Generators



**Leak Detection System** 

**Electrofusion Welding** 

**System Equipment** 

**Installation Tools** 

& Equipment

Residential & Industrial Heating



Chemical Processing



Nuclear



Salt Water /
Desalination Plants



Fleet, Commercial & Public Transport Vehicle Refuelling



Depot Facilities



Service Stations & Forecourts



Looking for an application or industry you don't see here? Send us an email: info@kpspiping.com

### **Applications**



Data Centre Power Supply



Hospital Generators



Fuel Transfer (Oil, Lubricant Oil, Jet-A1, Petrol, Diesel, Ethanol Blends, Alcohols)



AdBlue / Diesel Exhaust Fluid (DEF) Transfer



Marinas, Ports & Harbours



Airports

Military



Polluted Water



Transfer

Hydrocarbon



Drainage

Cable Protection & Wire

Management (Conduits)



Other Fluid Distribution



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Depot Facility, France



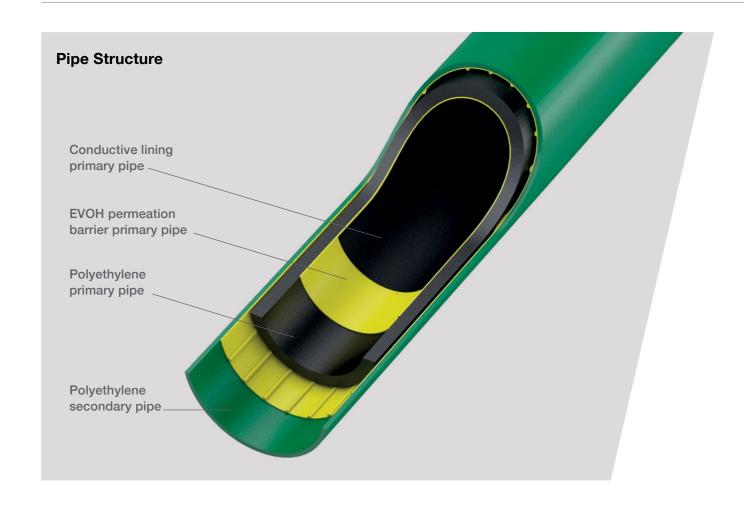
Depot Facility, France



EDF Thermal Power Plant, Saint Pierre, France

### **KPS Piping: The Simple Solution**

### **Technical Specifications**



### **Permeation Barrier Layer**

Ethylene Vinylalcohol Copolymer with superior barrier properties towards fuel vapours.



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### Mechanical & **Physical Properties**

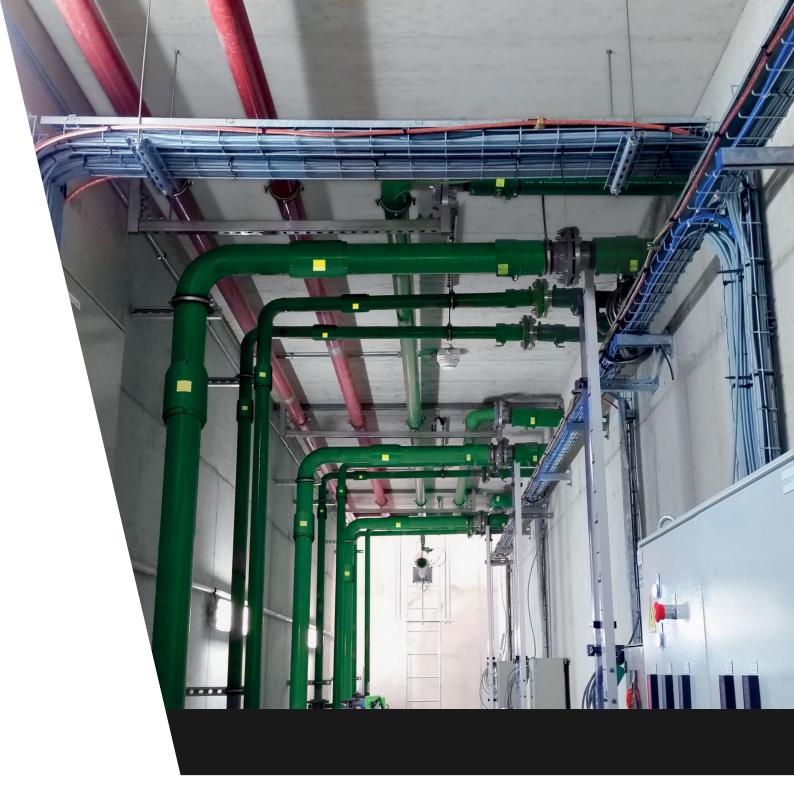
The KPS piping range is tested and approved according to EN 14125. Hydrostatic pressure testing is performed at 23°C and after conditioning at 50°C. At 23°C pipework is pressurised to the lower test pressure for 5 min and the higher test pressure for 1 min. After conditioning at 50°C pipework is pressurised to the lower test pressure for 5 min.

Vacuum testing is performed on pipes intended for vacuum suction including vent, vapour recovery and secondary containment type C2. Pipework is also (for positive pressure) subjected to cyclic pressure testing at 21.5°C. Pressure is varied between 1.0 and 4.0 bar for  $1.5 \times 10^6$  cycles.

### **Physical & Chemical Properties**

	Value	Test Method
Temperature Range	-20 to 50°C	EN 14125
Bend Radius	20 × d	-
Crush Resistance	2000 N	EN 14125
Puncture Resistance	500 N	EN 14125
Impact At -20 °C	> 8.8 J	EN 14125
Fuel Compatibility	Wide range of commercially available fuels*	EN 14125, UL 971
Fuel Permeation	< 0.2 g/m2·d	EN 14125
Static Electricity	Insulative	EN 13463-1, CENELEC TR50404
Weathering (UV-stability)	> 3.5 GJ/m2	EN ISO 16871, EN ISO 4892-2
Estimated Working Life	30 years	EN 14125, ISO 9080









Contact Us
Call: +44 (0) 1756 799 773 Email: info@kpspiping.com

Visit: www.kpspiping.com

Interested In Becoming A Distributor?
We are always looking to find new partners in countries where we don't currently have a partner please email us at <a href="mailto:info@kpspiping.com">info@kpspiping.com</a>