

I" Conductive HDPE Double Wall Piping System Installer-Friendly | Conductive | Lightweight

The KPS 1" piping product range has been expanded to meet demand for applications requiring a flow rate of up to 80 litres/minute (at 2.7 m/s velocity) including oil transfer, power supply, critical power and back generators and many more.



www.kpspiping.com

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Extra Layer, Extra Safety, No Leaks

Engineered for all current liquid fuels and many chemical products, KPS electrofusion piping is made from high-density polyethylene (HDPE) and includes a permeation layer for extra security.

For sensitive areas and fluids like fuel transfer, KPS' double wall (secondary contained) electrofusion piping system provides an extra layer of protection. All double wall KPS bends and electrofusion fittings have an interstitial space to contain any leakage from the primary pipe.

Electrofusion

The complete range of fitting and components for the I" conductive double wall pipe system are electrofusion welded, with no butt welds needed.

The system is tested according to EN 14125.

For a full list of certifications and approvals, visit the resources page on the KPS website at www.kpspiping.com/resources

Technical Support & Training

KPS offers technical support from the beginning to the end of each project, including drawings, site surveys, on-site training, and professional certifications.

Flow Rate

The I" double wall conductive pipe system provides a flow rate of up to 80 litres/minute at 2.7 m/s velocity.

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 OPW technical team, ensuring consistent quality.

Key Benefits

- Flow rates up to 80 litres/minute
- Engineered for pipefitters: reducing cost and build time
- Conductive (electrostatically safe)
- Extra permeation barrier to protect the environment
- Corrosion-free
- Technical support, training and certification (classroom and on-site)
- Leak detection & interstitial monitoring (secondary containment/multi-layer)
- Lightweight
- UV resistant
- Operating pressure 3.5 bar (test pressure 5 bar to 30 bar)
- Temperature rating -20°C to +50°C
- Suitable for above and below ground

Fluid Compatibility

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



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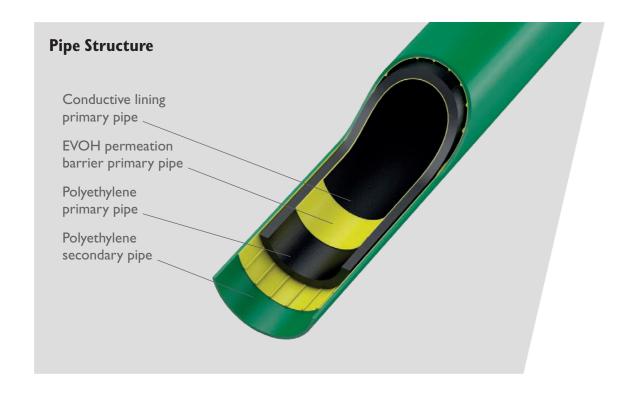
Public refuelling installation



Public refuelling installation

I" Conductive HDPE Double Wall Piping System

Technical Specifications



Mechanical & Physical Properties

Hydrostatic pressure testing is performed at 23°C after conditioning at 50°C. At 23°C piping is pressurised to the lower test pressure for 5 minutes and the higher test pressure for 1 minute, (see table overleaf). After conditioning at 50°C pipework is pressurised to the lower test pressure for 5 minutes.

Vacuum testing is performed on pipes intended for vacuum suction including vent, vapour recovery and secondary containment type C2. The test vacuum is specified in the table. 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 × 106 cycles.



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Drawings & System Definition

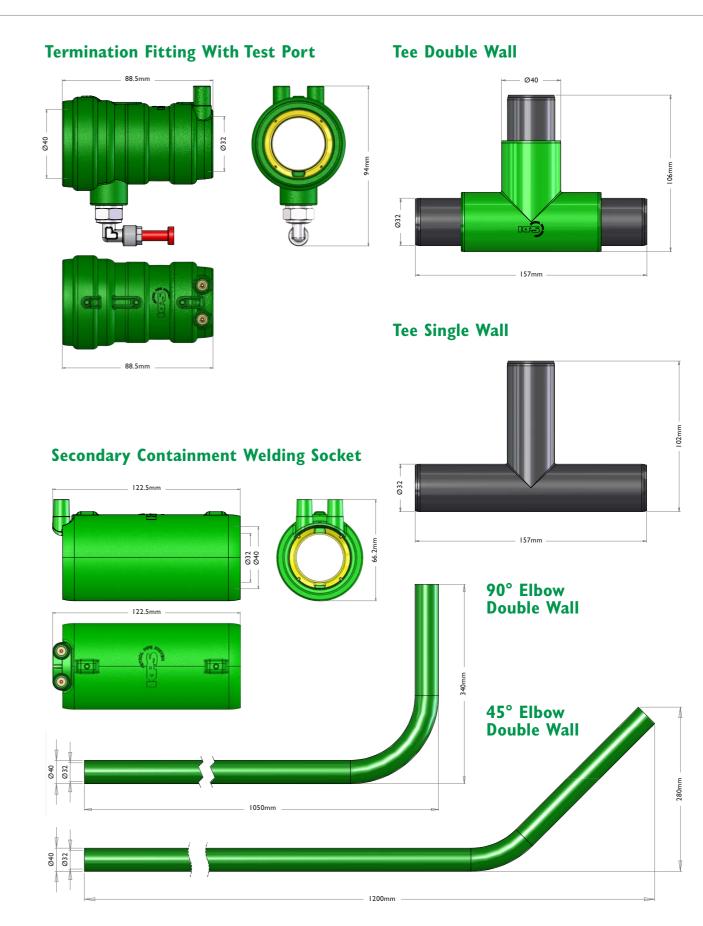
The I" double wall pipe system is conductive and includes a comprehensive range of compact easy-install electrofusion fittings.

Custom solutions are also available.

Termination Fitting







I" Conductive HDPE Double Wall Piping System

Technical Specifications

The I" piping range draws on KPS' 40 years experience engineering and manufacturing fuel piping for the world's leading oil companies. Full technical details below.

Operating & Test Pressures According to EN 14125

All Measurements in [bar]	Operating Pressure	Test Vacuum	Lower Test Pressure	Higher Test Pressure
Primary Delivery Pipework (Positive Pressure)	3.5	-	5.0	30.0
Primary Delivery Pipework (Vacuum Suction)	-0.6	-0.9	5.0	30.0
Vent & Vapour Recovery Pipework	1.0	-0.9	5.0	30.0
Fill Pipework	1.0	-	5.0	30.0
Secondary Containment Type CI	0.5	-	1.0	5.0
Secondary Containment Type C2*	-0.5 to 4.5	-0.6	5.0	10.0

^{*}KPS approval includes secondary containment type C2

Physical & Chemical Properties

	<u> </u>	
	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
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

Industries & Applications

The I" KPS piping range is ideal for applications where a flow rate of 80 litres/minute is required including oil transfer, power supply, critical power and back generators and many more.



Oil Transfer & Lubricant Oil



Mining Fuel Transfer



Hydrocarbon Drainage



Data Centre Power Supply



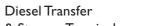
Military



Depot **Facilities**



Power Supply: Critical Power & Backup Generators

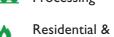


& Storage Terminals



Fleet, Commercial & Public Transport Vehicle Refuelling







Polluted Water Transfer

Industrial Heating



AdBlue / Diesel Exhaust Fluid (DEF) Transfer



Marinas, Ports & Harbours



Airports



Other Fluid Distribution



Nuclear

Other Industries & Applications

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



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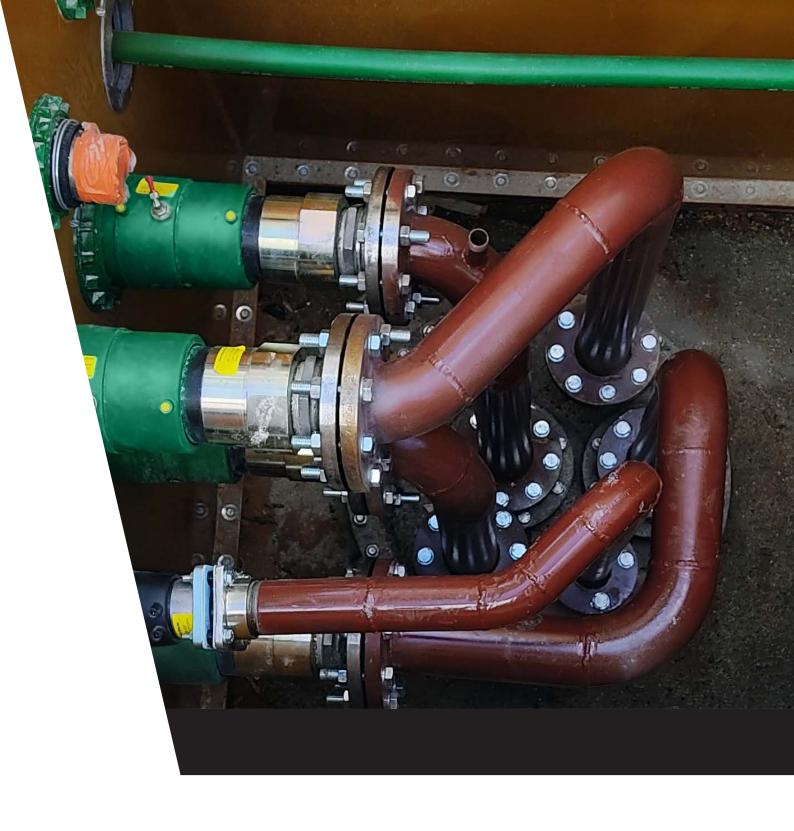
Power Generator, Gibraltar



Power Generator, Gibraltar



Power Generator, Gibraltar





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