**Peak Pipe Systems Limited** launched in June 2012 - formerly trading as Pipe Systems under the Fusion Group banner. The objective was to increase market share and turnover within the utility market through distribution and merchant activity.

**Peak Pipe Systems** manufacture and supply polyethylene pipe, fittings and fabrications. Established to support the needs of the UK water, environmental, and geothermal markets, Peak has subsequently developed its products and services across an even broader range of applications and markets.

At **Peak Pipe Systems** we have in-house design and application engineers who use both 2D and 3D CAD to convert customers conceptual ideas and requirements into actual fabrications. The ability to receive product and application data, in formats of varying levels of sophistication, and rapidly convert this into finished product, provides Peak’s customers with a highly responsive level of customer service and support.

With a wealth of technical, commercial and operational expertise available within the company, Peak is well positioned to offer a comprehensive package of support to its customers across a widely dispersed range of business sectors and markets.

You can find out further information on **Peak Pipe Systems** by visiting the website: [www.peakpipesystems.com](http://www.peakpipesystems.com)

If you think we can help you, call us on +44 (0)1246 262702, and we’ll endeavour to meet your requirements.
Every effort has been made to ensure the information in this brochure is correct at the date of issue. Peak Pipe Systems operates a policy of continuous product improvement and range extension and, therefore, reserves the right to modify product specifications in line with market requirements. All dimensions in this catalogue are nominal.
Extrusion Capabilities
With our extensive on-site extrusion capabilities, Peak Pipe Systems can supply products to suit every requirement.

All of Peak’s standard products are produced using high grade virgin PE100 polymer, a high-density polyethylene with exceptional pressure ratings and durability, this ensures the highest quality and integrity in line with EN12201.

Straight Sticks
Straight polyethylene sticks are available in PE100 (HDPE) and can be joined either by electrofusion, butt fusion, mechanical or push-fit fittings.

Product Details
• Virgin Material - EN12201
• Size range - 20mm to 450mm
• SDR ratings - from 41 to 7.4 (size dependent)
• Typical SDR’s - 11 and 17
• Available in 6m, 12m and 13.5m sticks (other lengths available upon request)
• Pipe is marked clearly to allow for ease of recognition and batch traceability.

Coils
Pipe coils are available in PE100 (HDPE) in a range of diameters and lengths. Pre-wound and strapped, our coils are delivered to you, ready for installation.

Product Details
• Virgin Material - EN12201
• Size range - 20mm to 180mm (bespoke coils available upon request)
• SDR ratings - from 17 to 9 (size dependent)
• Typical SDR’s - 11 and 17
• Various lengths available.

Standard Dimensional Ratio (SDR)
Equates to wall thickness
The higher the SDR number the lower the pressure rating

SDR = \frac{\text{nominal (minimum) outside diameter}}{\text{minimum wall thickness}}

Example:
SDR11 = \frac{180}{16.4}

180mm OD
16.4mm wall thickness

Relationship between wall thickness and outside diameter (OD)
Polyethylene Pipe Blue - PE80 and PE100 Pressure

**Service Pipe**
Service pipe is available in 20mm - 63mm and is manufactured from blue PE80. Light blue in colour, solid wall - service pipe is used on potable water systems.

**Mains Pipe**
Mains pipe is available in 90mm - 450mm and is manufactured from black PE100 with a co-extruded dark blue PE100 outer. Mains pipe is used for buried potable water systems.

Both grades are produced using quality polymer, ensuring pressure ratings and durability as well as meeting the standards of EN12201, WRAS and DWI.

**Straight Sticks**
Straight polyethylene sticks are available in PE100 (HDPE) and PE80 (MDPE) and can be joined either by electrofusion, butt fusion, mechanical or push-fit fittings.

**Product Details**
- Virgin Material - EN12201
- Size range - 20mm to 450mm
- SDR ratings - from 41 to 7.4 (size dependent)
- Typical SDR's - 11 and 17
- Available in 6m, 12m and 13.5m sticks (other lengths available upon request)
- Pipe is marked clearly to allow for ease of recognition and batch traceability.

**Coils**
Pipe coils are available in PE100 (HDPE) and PE80 (MDPE) in a range of diameters and lengths. Pre-wound and strapped, our coils are delivered to you, ready for installation.

**Product Details**
- Virgin Material - EN12201
- Size range - 20mm to 180mm (bespoke coils available upon request)
- SDR ratings - from 17 to 9 (size dependent)
- Typical SDR's - 11 and 17
- Various lengths available.
Rainwater Harvesting

Rainwater harvesting is a technique used for collecting, storing and using rainwater for landscape irrigation and other uses. The rainwater is collected from various hard surfaces such as rooftops and/or other man-made above ground hard surfaces.

Peak Pipe Systems supply a range of polyethylene pressure pipes for reclaimed external water pipework both above and below ground.

Product Details

- Virgin Material - EN12201 - PE100
- Manufactured to meet the requirements of WRAS/ING No.9-02-05
- Size range -
  - 25mm to 450mm - 6 metre and 12 metre sticks
  - 25mm to 180mm - coils
- Pressure ratings of PN10 or PN16 for larger commercial projects
- Suitable for use with electrofusion fittings
- Product markings available include -
  - recycled water
  - reclaimed
  - non-potable
  - irrigation
  - rainwater

Barrier Pipe - Contaminated Ground

Peak Pipe Systems can supply a range of Barrier Pipes which reliably eliminates the migration of pollutants into the drinking water. Barrier Pipe consists of a core pipe in accordance with BS EN 12201, upon which a protective coating is additionally extruded in order to increase its scratch and abrasion resistance. A multiple layer aluminium foil is applied as a barrier layer between the core pipe and the coating layer. The brown stripes serve to identify it as a multiple layer pipe.

Product Details

- Size range -
  - 25mm and 32mm - SDR11 - 50m Coils
  - 63mm - SDR11 - 50m Coils and 6m Lengths
  - 90mm to 180mm - SDR11 - 50m Coils, 6m and 12m Lengths
  - 180mm to 630mm - SDR11 and 17 - 6m and 12m Lengths
- Approved to WIS-4-32-19, WRAS, BS EN 12201, Regulation 31 and KIWA
- Pipe construction -
  - Inner Core Pipe - Black PE100 to BS EN 12201
  - Metal Layer - Double bonded aluminium
  - External Layer - Blue PE100 c/w Brown Stripes
Electrical Cable Ducting
Peak Pipe Systems manufactures polyethylene pipes designed to house and protect electrical cables when buried in the ground, hence the name Electrical Cable Ducting or ECD.

All ECD is designed and manufactured to withstand horizontal directional drilling (HDD). In order to guarantee this, testing of all manufactured pipes for the strength and integrity is conducted prior to release.

Product Details
- Size range -
  - 63mm to 250mm - SDR 11 - 6 metre and 12 metre sticks (other lengths and SDR's available upon request)
  - 63mm to 180mm - coils
- Pipes are marked with -
  PEAK PIPE SYSTEMS HDPE PE80 DIN 8074 NOT FOR POTABLE WATER DANGER ELECTRIC CABLE (OD) X SDR 11 (EXTRUSION LINE NO.) BUTT WELDING TO BE IN ACCORDANCE WITH WIS 4-32-08 (BATCH NO.) (DATE/TIME)

Ducting
Purple ducting, which indicates Motorway Communication Ducting is also manufactured in house using a co-extrusion method. Other coloured ducts (such as orange and green) are available upon request.

Product Testing
Product testing of all manufactured pipes is conducted prior to release, this includes -
- Polymer tests on goods inwards -
  - Density
  - Melt Flow Rate
  - Oxidation Induction Time
- Dimensional checks on pipe
- Tensile tests on butt welded pipe
Straight Sticks
Straight polyethylene sticks are available in PE80 (MDPE) and can be joined either by electrofusion, butt fusion, mechanical or push-fit fittings. Pipe can be slotted, perforated or threaded to suit the application.

Product Details
• Size range - 20mm to 450mm
• SDR ratings - from 41 to 7.4 (size dependent)
• Typical SDR’s - 11 and 17
• Available in 6m, 12m and 13.5m sticks (other lengths available upon request)
• Pipe is marked clearly to allow for ease of recognition and batch traceability

Coils
Pipe coils are available in PE80 (MDPE) in a range of diameters and lengths. Pre-wound and strapped, our coils are delivered to you, ready for installation.

Product Details
• Size range - 20mm to 180mm (bespoke coils available upon request)
• SDR ratings - from 17 to 9 (size dependent)
• Typical SDR’s - 11 and 17
• Various lengths available

Applications
PE80 pipe is used in various applications including -
• Landfill gas extraction
• Leachate collection
• Landfill drainage
• Railway drainage
• Sleeving
• Pump applications.

Peak Pipe Systems have manufactured products for, and supplied materials into the Landfill sector for over 20 years. Our experienced engineers can assist in your projects - to reduce costs, minimise operational delays and environmental compliance issues.
**Fabrication Capabilities**

Peak Pipe Systems manufacture and supply various products to suit a range of applications within the utilities, landfill, water and gas industries.

Our experienced team of PE fabricators have hundreds of years of experience between them and have fabricated products for a wide range of applications from landfill, geothermal and anaerobic digestion through to large marine projects.

Peak Pipe Systems designs, manufactures and supplies under a ISO 9001:2008 3rd party accredited quality management system, so as a consumer you can rest assured that you will be provided with the highest standard products.

**Standard Pressure Fabrications**

All Peak Pipe Systems standard pressure fabrications are available to order in PE100 material (black or blue) in SDR11 and SDR17. Fabrifications are also available in PE80 (yellow) in SDR11 and SDR17.6 (other SDR's are available upon request).

**Product Range**

- Mitred Bends (63mm - 630mm)
- Pupped Equal Tees (63mm - 500mm)
- Pupped Reduced Branch Tees (500mm and below)
- Pupped Reducers (63mm - 630mm)
- Pupped Stub Flanges (63mm - 630mm)
- Long Radius Bends (90mm - 400mm - 45° and 90° - other sizes available upon request)
Fabrication Capabilities
Peak Pipe Systems manufacture and supply various products to suit a range of applications within the utilities, landfill, water and gas industries.

Standard Non-Pressure Fabrications
All Peak Pipe Systems standard non-pressure fabrications are available to order in PE80 material and are available in SDR11 and SDR17. All products are manufactured from DIN8074 pipe.

Product Range
• Fabricated Angle Branch Tees
• Fabricated Reduced Angle Branch Tees
• Eccentric (Level Invert) Reducers
• Fabricated Reduced Branch Tees (Extrusion Welded)

Landfill
Peak Pipe Systems supply a vast range of products to enable the removal of methane gas and leachate from landfill sites.

Producing all of our fabrications on site, Peak can cater for your every demand. From bespoke 2D and 3D design, drafting, technical assistance and site consultations, consider Peak your one-stop supplier that can support your job at any stage.

Product Range
• PE Pipework
• Wellheads
• Knockout pots
• Manifold boxes
• Chambers
• Leachate Pumps
Peak Pipe Systems are proud to offer a unique and complete bespoke design and fabrications service. Our experienced fabrications team specialise in polyethylene (PE) fabrications and adopt a variety of processing methods.

At Peak we have in-house design and application engineers who use industry recognised 2D and 3D design software to convert customers conceptual ideas and requirements into actual fabrications.

We design and fully understand your needs; from the initial design, through to final installation, commissioning and sign-off. Whatever the application, whether it be a new design, retrofit or repair on a current system; early involvement by our technical team will ensure that optimum product design costs, compliance and minimum operational disruption are achieved, offering you a service where quality is paramount.

Using HDPE sheet, pipe, valves and fittings we can tailor products to accommodate site requirements.

Customer data in any form, from the most basic sketches and dimensions, to the most sophisticated 3D images, can be accepted and turned into entirely compliant product designs. Lead-times from the receipt of initial engineering data to product shipment can be as little as 24 hours, dependent on the complexity of the application. 2D and 3D drawings can be supplied to customers as requested.
Peak Pipe Systems supply GSHP contractors, drillers, installers, consultants and system designers with all the products and services needed to extract heat from the ground and convey it to a ground source heat pump. We extrude pipe, assemble ground loops and fabricate all our manifolds and chambers on the same ten acre site in Chesterfield.

We can create bespoke systems to meet your specific requirements, remaining flexible to achieve the best possible outcome. Peak Pipe Systems remains one of the most diverse and accommodating companies to offer an on-site design and manufacturing service.

All Peak Pipe Systems ground loops (also referred to as ground probes) are supplied with factory assembled and tested U-bends to ensure optimal installation times and quality on site.

**Product details**
- Extruded from virgin PE100 polymer
- 25mm, 32mm or 40mm diameter SDR11 pipe
- Single or double loops
- Depth marked every metre
- Dual wound to ease installation
- Tested in accordance with BS EN12201 for use at 16 bar for 50 years

Closed loop ground source systems are fast becoming the most commonly adopted ground source technique. When properly installed they are economical, efficient, and reliable. The length of ground loops varies depending on ground temperature, thermal conductivity of the ground, soil moisture, and system design. The loops have hole configurations for attaching weights which assist in the installation process. Peak Pipe Systems can also supply pipe work for slinky and trench designs as an alternative to ground loops.

Warranties are included with all our ground loops based on Peak Pipe Systems high levels of manufacturing, traceability and quality assurance. Custom loop lengths are available upon request.

**25mm / 32mm Micro Loops**

<table>
<thead>
<tr>
<th>Length (m)*</th>
<th>25mm</th>
<th>32mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>40</td>
<td>40</td>
<td>40</td>
</tr>
<tr>
<td>50</td>
<td>50</td>
<td>50</td>
</tr>
<tr>
<td>60</td>
<td>60</td>
<td>60</td>
</tr>
</tbody>
</table>

- Suitable for GRD drill rigs
- Ideal for narrow bore holes
- Compact design, 66mm wide

*Note: an additional 2 metres per coil is supplied

**Ground Loop Coils**

<table>
<thead>
<tr>
<th>Coil</th>
<th>Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length (m)*</td>
<td></td>
</tr>
<tr>
<td>25mm</td>
<td>32mm</td>
</tr>
<tr>
<td>80</td>
<td>80</td>
</tr>
<tr>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td>125</td>
<td>125</td>
</tr>
<tr>
<td>150</td>
<td>150</td>
</tr>
</tbody>
</table>

**Grouting/Tremie Pipe**

<table>
<thead>
<tr>
<th>Coil</th>
<th>32mm Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length (m)</td>
<td></td>
</tr>
<tr>
<td>50</td>
<td></td>
</tr>
<tr>
<td>80</td>
<td></td>
</tr>
<tr>
<td>100</td>
<td></td>
</tr>
<tr>
<td>125</td>
<td></td>
</tr>
<tr>
<td>150</td>
<td></td>
</tr>
</tbody>
</table>

*Note: an additional 2 metres per coil is supplied
Peak Pipe Systems engineers and designers work with you to design and fabricate manifolds for your commercial ground source requirements.

Using 3D software, Peak Pipe Systems enables you to check your manifold design before it is fabricated in our BS EN ISO 9001 quality accredited facility.

**Products commonly used in commercial manifolds**

- Flow meters
- Automatic air filters
- Structural chambers
- Access ladders
- Excavation fans
- Sump pumps
- Dirt separators
- ......and more

**GEODN1200 Chamber**

- 125mm PE100 SDR11 header pipes complete with shut off valve
- 40mm PE100 SDR11 outlets
- 1” ball valves on flow manifold
- 1” flow meters on return manifold (8-38ltrs/min)
- Water resistant chamber
- 200kg rated lid as standard
- Option available for 40 ton rated lid

**Raugeo Click Modular Manifold**

The Raugeo click modular manifold offers a unique, simple solution for the connection of brine circuits. The manifold can be offered as a highly flexible modular system as well as a prefabricated version.

Click can be used with any ground-source system of almost any size. The modular concept of click, offers maximum flexibility in logistics and on-site; with complete assembly taking only a few minutes without any tools.

- Click to complete: A flexible modular system
- Click to fix: Manifold assembly in an instant
- Click to connect: Faster connection of the brine circuits
- Click to safe: Safety during assembly and during the long term operation
- Click to flow: Large internal diameter - minimum pressure loss
- Click to use for everything: Can be used universally for any method of using ground-source heat with pipes made from PE and PE-Xa in the dimensions of d20-d50
Peak Pipe Systems designs and fabricates standard and bespoke ground source manifolds.

A selection of these chambers are listed below, additional chambers are available.

**GEOECO Chamber**
- Available in 1-way to 4-way
- 500 x 500 x 850mm chamber
- 63mm PE100 SDR11 header pipes
- 40mm PE100 SDR11 outlets
- 1” ball valves on flow manifold
- 1” flowmeters on return manifold (15-38 ltr/min)
- 1” BSP female filling / purging points
- Fully sealed water resistant chamber
- Galvanised steel pedestrian lid
- Ideal for domestic systems

**GEODUO Chamber**
- Available in 6-way to 12-way
- 750 x 750 x 800mm chamber
- 63mm PE100 SDR11 header pipes
- 40mm PE100 SDR11 outlets
- DN50 NP16 ductile iron isolation butterfly valves
- 1” ball valves on flow manifold
- 1” flowmeters on return manifold (15-38 ltr/min)
- 1” BSP female filling / purging points
- One shot rotational moulded chamber
- Available with 200KN or D400 (40T) load bearing lid
- Horizontal orientated outlets

**GEOEST125X63 Chamber**
- Available in 2-way to 6-way
- 535 x 535 x 1100mm chamber
- 63mm PE100 SDR11 header pipes
- 40mm PE100 SDR11 outlets
- 1” ball valves on flow manifold
- 1” flowmeters on return manifold (15-38 ltr/min)
- 1” BSP female filling / purging points
- Injection moulded modular chamber
- B125 concrete infill lid (12.5T)
- Ideal for driveway installations
- No base plate, to be bedded on concrete base
RAUTHERMEX UNO and DUO variants feature single or twin carrier pipes made of cross-linked polyethylene (PE-Xa) with an oxygen-barrier layer for potable water applications. The pipe sizes range from 25mm up to 160mm for UNO pipes and from 25mm up to 63mm for DUO pipes. RAUTHERMEX pre-insulated pipes are suitable for any application where the avoidance of heat loss is critical.

Advantages
- Optimum heat insulation. RAUTHERMEX remains watertight even if the LDPE outer jacket is damaged.
- Suitable for temperatures up to 95°C and pressures up to 6 bar. RAUTHERMEX is ideal for modern, low-temperature systems.
- Longitudinal stability. When laid underground RAUTHERMEX does not expand along its length, unlike open cell insulated pipes.
- Continuous lengths up to 760m possible. RAUTHERMEX simplifies design and installation.
- Uses REHAU Everloc compression sleeve technology to provide leakproof joints with minimal bore reduction.
- High thermal insulation from its universal shroud system. No hot works are required with RAUTHERMEX.

RAUVITHERM is a pre-insulated PE-Xa pipe with open cell PE insulation and a robust HDPE outer jacket. The outer layer of insulation is bonded to the HDPE outer jacket to prevent water ingress and maintain the thermal properties of the pipe.

RAUVITHERM is available in two variants: single pipe (UNO) up to 125mm and twin pipe (DUO) up to 63mm. There is a comprehensive range of RAUVITHERM fittings and accessories. RAUVITHERM underground pre-insulated pipes are suitable for any application where heat loss matters.

Advantages
- Greater flexibility due to corrugated outer sleeve and open cell insulation. RAUVITHERM allows a tight bending radius.
- Robust HDPE outer sleeve. RAUVITHERM thrives in tough on-site conditions.
- Continuous lengths up to 350m reduce the number of joints needed in RAUVITHERM installations.
- High insulation performance. RAUVITHERM has several layers of low thermal conductivity insulation.
- Bonded outer insulation layer ensures RAUVITHERM’s strong insulation performance- even if the outer jacket is punctured.
- Uses REHAU Everloc compression sleeve technology to provide leakproof joints with minimal bore reduction.
Electrofusion fittings and polyethylene pipes enable utilities, designers and contractors to create fully welded pipe networks. Joints are critical points in any pipe network and the Fusamatic electrofusion fittings that are supplied by Peak Pipe Systems have quality integrity precautions in place to ensure the highest possible quality joints are achieved every time.

**Product Anatomy**

- Fusamatic pin - provides a totally automatic method for ensuring the correct welding parameters are used
- Indicators - indicator lugs which provide a visible sign that the necessary jointing pressure has been achieved
- Moulded-in welding parameters - manual welding parameters moulded into the body of all electrofusion fittings
- Permanently marked batch number - injection moulded batch number which is replicated on the fitting barcode
- Barcode - provides full traceability right down to the polymer batch

**Quality Control - 100% Testing**

All Fusamatic products are individually inspected after manufacture using a unique computerised system that utilises advanced barcode technology and provides full traceability from the raw material to despatch and beyond.

Fusamatic fittings are tested, accredited and approved against many international performance standards including:

- GIS/PL2-4
- WIS 4-32-08
- BS EN1555-3
- BS EN12201-3
- BS ISO 8085
- BS ISO 4427

**Product Range**

Peak Pipe Systems can provide an extensive product range of electrofusion fittings, these include but are not limited to the following; if the fitting you are looking for is not listed below please contact us to discuss your requirements.

- Couplers / Large Diameter Couplers
- End Caps
- Reducers
- 90° / 45° / 22.5° Elbows
- Equal Tees
- Reducing Tees
- Flanged Tees
- FlexTee Tapping Tee Underpart
- Multiseal Tapping Tee Stackload
- Multiseal Tapping Tee Underpart
- Branch Saddle Stackload
- Branch Saddle Underpart
- Flanged Branch Saddle Underpart - Fastcut
- Flanged Branch Saddle Underpart - Fastcut - Flowstop
- Male Transition Coupler
- Female Transition Coupler
- Male Transition 90° / 45° Elbow
- Female Transition 90° / 45° Elbow
- Balloon Saddle
- Transition Saddle
- Duckfoot Bend
- Duckfoot Bend Kit
- Hydrant Branch Saddle Kit
- Stub Flange Kit
- Transition Adaptors
- PE Steel Transition Piece
The range of spigots supplied by Peak Pipe Systems allows for complicated yet high performance pipeline systems, a more diverse range of fittings than electrofusion is available, especially for larger diameter fittings.

Applications
Spigots are an integral part of polyethylene pipe systems around the world. They have been used in applications as diverse as:

- Potable water mains, service pipes and house connections
- Gas transmission, distribution and house connections
- Wastewater systems including sewers
- Water and wastewater treatment plants
- Rain water and grey water collection
- Syphonic roof drainage
- Trenchless pipeline techniques including directional drilling
- Pumped slurry systems in mines and quarries
- Ducting for electrical, telecommunications and fibre optic cabling including subsea
- Open water and marine fish cages
- Industrial applications including process pipework and compressed air networks
- Agricultural irrigation
- .....and many more

Quality Control - 100% Testing
All spigots supplied by Peak Pipe Systems are subjected to continuous testing and control from the start to the end of the production process. Testing is in accordance with the requisite British, European and Australian standards. Further testing is undertaken to ensure product acceptance on a global basis.

Product Range
Peak Pipe Systems can provide an extensive range of spigot fittings with various features including short and long spigot and moulded or machined spigot. Our product range includes, but is not limited to the following:

- 90 / 45° Long Spigot Elbow
- 11, 22, 30, 45, 60 and 90° Seamless Bends
- 90° Multibend - Long Spigot
- 90° Bend - Short Spigot
- Equal Tee - Long / Short Spigot - Moulded / Machined
- Reducing Tee - Long / Short Spigot - Moulded / Machined
- 45° Angle Branch Tee - Moulded / Machined
- Level Invert Tee - Long Spigot
- Reduced Tee - Long Spigot - Butt Welded
- Reducer - Long / Short Spigot
- Stepped Reducer - Short Spigot
- Eccentric Reducer - Short Spigot
- Stub Flange Adaptor - Long / Short Spigot
- End Cap - Long / Short Spigot
- Transition Adaptor - Male / Female - Nickle Coated Stainless Steel
- Transition Adaptor - Male / Female - Plain/DZR Brass
- Transition Adaptor - Male / Female - PE
- Cross Piece
- Y Piece
If the jointing method of electrofusion or butt fusion is not a viable option for your particular job, then mechanical fittings could be the answer.

For use with potable or non-potable PE water applications, mechanical fittings offer a safe and reliable fitting for all your jointing requirements

**Product Specification**
- Tried and tested - mechanical fittings for polyethylene pipes have been in continuous use for over 50 years
- Proven reliability - millions of mechanical fittings are providing safe and reliable connections for water mains throughout the world
- Simple to use - the captive ‘O’ ring seal provides lifetime protection against leakage and requires no nut tightening to achieve a seal
- Problem solving - the system is designed for connection to many pipe types and material providing compatibility with existing systems
- Robust in the extreme - mechanical fittings are made from virgin polypropylene for immense impact strength and stress resistance
- Simplifying the job - huge range of types, sizes and patterns of fitting with many unique solutions to everyday problems
- The comprehensive solution - complimentary range of valves, accessories and threaded products to provide a total solution to your network needs
- Best in class - approved by major European and global agencies for use on potable water demonstrating it is a quality product

**Product Range**
Peak Pipe Systems can provide an extensive range of mechanical fittings, these include but are not limited to:

- Coupler
- Repair Coupler
- Reducing Coupler
- End Plug
- Modular Adaptor
- Threaded Adaptor
- Male Adaptor (Metric)
- Female Adaptor (Metric)
- 90° Tee
- Reducing Tee
- Enlarging Tee
- Tee - Male Offtake
- Tee - Female Offtake
- 90° Slip Tee
- 45° Slip Tee
- 90° Elbow
- 45° Elbow
- 45° Elbow - Male Offtake
- Elbow - Male Offtake
- Elbow - Female Offtake
Peak Pipe Systems supply an extensive range of ancillary equipment and tooling to support your on-site applications. A selection of ancillaries is listed below, this list is not extensive and other items are available, please contact us to discuss your requirements.

**110v Electrofusion Control Boxes**
Peak Pipe Systems can supply 110v electrofusion control boxes which are lightweight and versatile and capable of welding any brand of electrofusion fittings for gas, water and other pressure pipe applications.

**Generators**
Peak Pipe Systems supply a range of generators that are specifically manufactured for powering both electrofusion control boxes and automatic butt fusion machines. The generators produce a high quality, smooth, regular power output. All generators comply with the TIN12 (EC3) specification, are available in petrol or diesel engines, and meet the current EC regulations.

**Secateurs**
Peak Pipe Systems can supply a range of secateurs in different sizes;
- 16mm - 42mm small secateur cutter
- 20mm - 63mm large secateur cutter (short handle)
- 20mm - 63mm large secateur cutter (long handle)

**Scrapers**
Peak Pipe Systems can supply a range of scrapers, these include:
- Uniprep Scraper - high productivity tools, used for preparing pipe ends prior to electrofusion. Suitable for all pipe SDR’s and pipe with ovality.
- Multi Scrape- versatile pipe scraper designed specifically with coiled pipe in mind. Mandrels support the pipe ends and a spring loaded blade, ensures that the optimum depth of cut is achieved.

**Clamps**
A range of clamps is available to use during the electrofusion jointing process;
- Multiclamp Kit - full rerounding and restraint during electrofusion
- Mini and Maxi Posi Clamps - lightweight versatile electrofusion clamps
- Strap Clamp 200 - lightweight alignment clamp for use on 40-200mm pipe

**Squeeze Tools**
A range of squeeze tools is available, these include:
- Mini Squeeze Tool - 16mm - 32mm
- Service Squeeze Tool - 16mm - 63mm
- Mechanical Squeeze Tool - 63mm - 125mm
- Hydraulic Mains Squeeze Tool - 200mm

**Weld Wipes**
Weld wipes are also available to remove debris prior to electrofusion jointing
Quality
Products supplied by Peak Pipe Systems are accredited under the following standards:
- Virgin Material - EN12201
- Greenstripe - EN12201
- Electrical Cable Ducting - First Generation Regrind
- DIN 8074/8075 - Full Regrind

If you are in any doubt as to the best pipe for your particular application, one of our materials specialists would be happy to advise you on the most appropriate and cost-effective option.

Material and Product Test Facilities
Peak Pipe Systems operates extensive manufacturing, test and inspection facilities.
- 1400m² extensive test facilities
- Raw materials testing
- Product batch release testing
- Type test approvals
- New product development
- Forensic quality investigations

Types of Testing
Peak Pipe Systems conducts a variety of tests to ensure that traceability is maintained throughout the quality system - from polymer through to each individual product.

Tests include:
- Raw Materials Testing - Density
- Raw Materials Testing - Melt Flow Rate (MFR)
- Raw Materials Testing - Oxidation Induction Time
- Hydrostatic Testing
- Destructive Testing - Tensile
- Destructive Testing - Peel

Health and Safety
Peak Pipe Systems operates its health and safety management processes to an extremely high standard. Internal and external auditing ensures that the periodic formal review of safety performance takes place, while root cause analysis tools are used to ensure that incidents and accidents are thoroughly investigated and preventative measures put into place.
<table>
<thead>
<tr>
<th>O/D Min (mm)</th>
<th>O/D Max (mm)</th>
<th>Ovality</th>
<th>Key</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td>20.3</td>
<td>1.2</td>
<td></td>
</tr>
<tr>
<td>25</td>
<td>25.3</td>
<td>1.2</td>
<td></td>
</tr>
<tr>
<td>32</td>
<td>32.3</td>
<td>1.3</td>
<td></td>
</tr>
<tr>
<td>40</td>
<td>40.4</td>
<td>1.4</td>
<td></td>
</tr>
<tr>
<td>50</td>
<td>50.4</td>
<td>1.4</td>
<td></td>
</tr>
<tr>
<td>63</td>
<td>63.4</td>
<td>1.5</td>
<td></td>
</tr>
<tr>
<td>75</td>
<td>75.5</td>
<td>1.6</td>
<td></td>
</tr>
<tr>
<td>90</td>
<td>90.6</td>
<td>1.8</td>
<td></td>
</tr>
<tr>
<td>110</td>
<td>110.7</td>
<td>2.2</td>
<td></td>
</tr>
<tr>
<td>125</td>
<td>125.8</td>
<td>2.5</td>
<td></td>
</tr>
<tr>
<td>140</td>
<td>140.9</td>
<td>2.8</td>
<td></td>
</tr>
<tr>
<td>160</td>
<td>161</td>
<td>3.2</td>
<td></td>
</tr>
<tr>
<td>180</td>
<td>181.1</td>
<td>3.6</td>
<td></td>
</tr>
<tr>
<td>200</td>
<td>201.2</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>225</td>
<td>226.4</td>
<td>4.5</td>
<td></td>
</tr>
<tr>
<td>250</td>
<td>251.5</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>280</td>
<td>281.7</td>
<td>9.8</td>
<td></td>
</tr>
<tr>
<td>315</td>
<td>316.9</td>
<td>11.1</td>
<td></td>
</tr>
<tr>
<td>355</td>
<td>357.2</td>
<td>12.5</td>
<td></td>
</tr>
<tr>
<td>400</td>
<td>402.4</td>
<td>14</td>
<td></td>
</tr>
<tr>
<td>450</td>
<td>452.7</td>
<td>15.6</td>
<td></td>
</tr>
</tbody>
</table>

Pipe Specification - Data Table

<table>
<thead>
<tr>
<th>Standard Dimensional Ratio (SDR)</th>
</tr>
</thead>
<tbody>
<tr>
<td>21</td>
</tr>
<tr>
<td>17</td>
</tr>
<tr>
<td>13.6</td>
</tr>
<tr>
<td>9</td>
</tr>
<tr>
<td>7.4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>W/T Max (mm)</th>
<th>I/D Min (mm)</th>
<th>Mass Ave. (kg/m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td>20.3</td>
<td>1.2</td>
</tr>
<tr>
<td>33</td>
<td>32.3</td>
<td>1.3</td>
</tr>
<tr>
<td>41</td>
<td>40.4</td>
<td>1.4</td>
</tr>
<tr>
<td>50</td>
<td>50.4</td>
<td>1.4</td>
</tr>
<tr>
<td>63</td>
<td>63.4</td>
<td>1.5</td>
</tr>
<tr>
<td>75</td>
<td>75.5</td>
<td>1.6</td>
</tr>
<tr>
<td>90</td>
<td>90.6</td>
<td>1.8</td>
</tr>
<tr>
<td>110</td>
<td>110.7</td>
<td>2.2</td>
</tr>
<tr>
<td>125</td>
<td>125.8</td>
<td>2.5</td>
</tr>
<tr>
<td>140</td>
<td>140.9</td>
<td>2.8</td>
</tr>
<tr>
<td>160</td>
<td>161</td>
<td>3.2</td>
</tr>
<tr>
<td>180</td>
<td>181.1</td>
<td>3.6</td>
</tr>
<tr>
<td>200</td>
<td>201.2</td>
<td>4</td>
</tr>
<tr>
<td>225</td>
<td>226.4</td>
<td>4.5</td>
</tr>
<tr>
<td>250</td>
<td>251.5</td>
<td>5</td>
</tr>
<tr>
<td>280</td>
<td>281.7</td>
<td>9.8</td>
</tr>
<tr>
<td>315</td>
<td>316.9</td>
<td>11.1</td>
</tr>
<tr>
<td>355</td>
<td>357.2</td>
<td>12.5</td>
</tr>
<tr>
<td>400</td>
<td>402.4</td>
<td>14</td>
</tr>
<tr>
<td>450</td>
<td>452.7</td>
<td>15.6</td>
</tr>
</tbody>
</table>

**Key**

- O/D = Outer Diameter
- I/D = Internal Diameter
- W/T = Wall Thickness
- KG/M = Weight per metre

**Notes**

1. The minimum wall thickness was set to e=1.8mm
2. The mass has been calculated taking the average density of 960kg/m³. In case of using deviating densities, the mass has to be corrected proportionally. The wall thickness has been calculated as the nominal size plus half the tolerance specified.
Peak Pipe Systems can manufacture and supply the following polyethylene pipe sizes in blue and black. If the size or SDR you require is not listed below please contact us and we would be happy to discuss your requirements further.

**Key**  ✓ Can manufacture  ✗ Cannot manufacture

<table>
<thead>
<tr>
<th>Outside Diameter (mm)</th>
<th>SDR 41 Black</th>
<th>SDR 33 Black</th>
<th>SDR 26 Black</th>
<th>SDR 21 Black</th>
<th>SDR 17 Black</th>
<th>SDR 17 Blue</th>
<th>SDR 13.6 Black</th>
<th>SDR 11 Black</th>
<th>SDR 11 Blue</th>
<th>SDR 9 Black</th>
<th>SDR 9 Blue</th>
<th>SDR 7.4 Black</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td>✗ ✓ ✓</td>
<td>✗ ✓ ✓</td>
<td>✗ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
</tr>
<tr>
<td>25</td>
<td>✗ ✓ ✓</td>
<td>✗ ✓ ✓</td>
<td>✗ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
</tr>
<tr>
<td>32</td>
<td>✗ ✓ ✓</td>
<td>✗ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
</tr>
<tr>
<td>40</td>
<td>✗ ✓ ✓</td>
<td>✗ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
</tr>
<tr>
<td>50</td>
<td>✗ ✓ ✓</td>
<td>✗ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
</tr>
<tr>
<td>63</td>
<td>✗ ✓ ✓</td>
<td>✗ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
</tr>
<tr>
<td>75</td>
<td>✗ ✓ ✓</td>
<td>✗ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
</tr>
<tr>
<td>90</td>
<td>✗ ✓ ✓</td>
<td>✗ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
</tr>
<tr>
<td>110</td>
<td>✗ ✓ ✓</td>
<td>✗ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
</tr>
<tr>
<td>125</td>
<td>✗ ✓ ✓</td>
<td>✗ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
</tr>
<tr>
<td>140</td>
<td>✗ ✓ ✓</td>
<td>✗ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
</tr>
<tr>
<td>160</td>
<td>✗ ✓ ✓</td>
<td>✗ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
</tr>
<tr>
<td>180</td>
<td>✗ ✓ ✓</td>
<td>✗ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
</tr>
<tr>
<td>200</td>
<td>✗ ✓ ✓</td>
<td>✗ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
</tr>
<tr>
<td>225</td>
<td>✗ ✓ ✓</td>
<td>✗ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
</tr>
<tr>
<td>250</td>
<td>✗ ✓ ✓</td>
<td>✗ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
</tr>
<tr>
<td>280</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
</tr>
<tr>
<td>315</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
</tr>
<tr>
<td>355</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
</tr>
<tr>
<td>400</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
</tr>
<tr>
<td>450</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
</tr>
</tbody>
</table>
Peak Pipe Systems operate in a range of market sectors, including but not limited to the following:

- Landfill
- Geothermal
- Ducting
- Anaerobic Digestion
- Biomass
- Hydro
- Rainwater Harvesting
- Irrigation
- Pumping Applications
- Ice Rinks