

Expertise on Tap

From design to final commissioning tests and beyond, Radius can provide the support and engineering services required. Our team of expert engineers and technicians are able to provide assistance throughout design, construction, commissioning and future connections. Rest assured that Radius meets the highest industry standards. We are fully compliant with European and International manufacturing and construction standards.

RadiusPLUS is the on-site services division of Radius Systems, and provides the equipment and resources for jointing and testing. In addition, a range of fully-welded under-pressure connections are also uniquely available via RadiusPLUS. The teams are fully qualified and accredited to the most stringent industry standards.



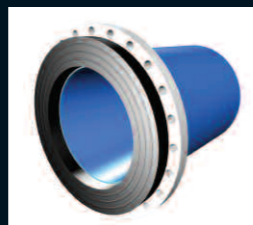
Environmental issues

We take great care to minimise the environmental impact of our operations as well as that of our clients. Our award winning polyethylene recycling programme collects excess PE pipe waste from site using the same transport that delivers the pipes and fittings - thus reducing road transport requirements. Material collected from sites is reprocessed in to general purpose products.

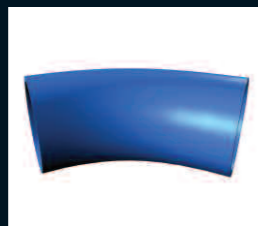
Comprehensive Fittings Range



Coupler
Available up to and including 10mm (16 bar operating pressure)



PE100 Stub Flange Assembly Fully end load resistant across the diameter range



PE100 Swept Bends
11 1/2°, 22 1/2°, 45° and 90°
Contact us for other angles



PE100 Mitred Bends
11 1/2°, 22 1/2°, 45° and 90°
Contact us for other angles



Metallic Bends
Available in both steel and ductile iron



PE100 Tees
Equal tees for either butt fusion jointing or a flanged connection



Branch Saddle Connections
Flanged outlets available (dn 150mm outlet)



Metallic Tees
Range in both steel and ductile iron



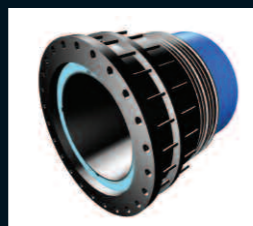
PE100 Reducers
A comprehensive range of reducers is available



Metallic Reducers
Available in both steel and ductile iron



AquaGrip
Available to meet full range of diameters and wall thicknesses



LinerGrip
To suit any thin walled liners (all diameters)

Choose Radius with confidence

- A proven track record of success and innovation that spans five decades
- An ongoing commitment to product development and testing ensures Radius customers have access to leading edge products and techniques
- Fully accredited and compliant with industry standards worldwide
- We deliver innovative solutions that stand the test of time and reduce long term maintenance costs
- Full service support from the design stage onwards through the entire lifecycle of the pipeline

Contact us

If you would like to find out more about our services and discuss your specific requirements, simply call us on +44 (0)1773 582 329 or email sales@radius-systems.com

Whatever your needs: we're ready to address the challenge.



Pioneers in PE Pipe Technologies

Head Office and Export Sales:

Radius Systems Ltd
Radius House, Berristow Lane, South Normanton
Nr Alfreton, Derbyshire, DE55 2JJ, UK

t: +44 (0)1773 811 112
f: +44 (0)1773 812 343

Northern Ireland and Republic of Ireland Sales:

Radius Systems Ltd
Scarva Road Industrial Estate, Banbridge,
Co Down, BT32 3QD, UK

t: +44 (0)28 406 69999
f: +44 (0)28 406 69996
e: salesir@radius-systems.com

UAE and GCC Sales:

Radiusenaat Piping and Fittings LLC
P.O. Box 93278, ICAD Business Hub B401
Mussafah, Abu Dhabi, UAE

t: +971 (0)2 550 7153
f: +971 (0)2 550 7152
e: salesme@radiusenaat.com



Leading edge large diameter pipeline solutions

Leading edge large diameter pipeline solutions

The planning, design and construction of strategic large diameter pipelines is a complex and demanding operation: the need for high quality yet cost effective solutions has never been greater.

Radius Systems is able to provide the materials and support required to deliver these key industry drivers.

Forward thinking

Radius Systems has been providing polyethylene pipeline solutions for over five decades. Continual research and development ensures we are at the forefront of plastic pipe system technology. A track record of innovation has been instrumental to our success in providing pipeline solutions in over 100 countries.

Safety first

Ensuring the safety of all involved with our product is one of our core values. These principles are fundamental throughout the whole product life-cycle, from design to final commissioning.

All transportation and off-loading is undertaken by our teams and logistic partners, who are fully trained to handle large diameter pipes.

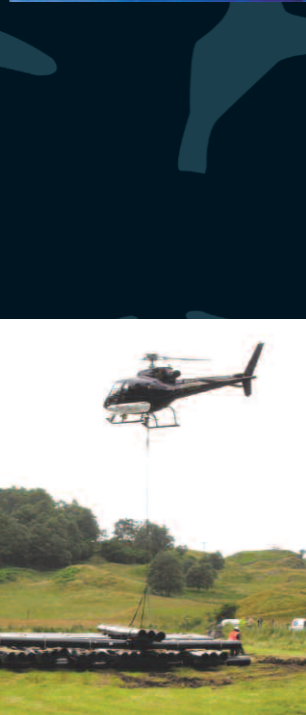
Our accredited training courses also allow us to share skills and give construction teams the ability to handle, install and maintain our range of large diameter pipeline systems safely and effectively.

Product longevity

Polyethylene is an inert material that is both flexible and robust.

This proven pipeline solution requires minimal ongoing maintenance and ensures maximum asset life without the need for expensive and vulnerable external protection systems.

Our large diameter pipe systems are proven to have a life expectancy extending into hundreds of years.



Choosing polyethylene

Large diameter polyethylene pipelines have been successfully installed throughout the world for many years.

Due to its attractive properties, PE is now the material of choice for many large diameter projects across the UK, Ireland and throughout the world. Already proven to be reliable and long lasting, modern manufacturing processes ensure that polyethylene is both easily accessible and cost effective.



Benefits of polyethylene at a glance

- Durable**
 Polyethylene is a hard wearing material that is resistant to surface abrasion and can cope with the rigors of ground movement.
- Jointless**
 Butt fusion technology allows the construction of seamless pipe strings. This method ensures pipe strength and integrity without the need for thrust blocks or expensive anchor systems.
- Flexible**
 Polyethylene pipes strings are extremely flexible (typical bending radius is 25 x pipe OD) and follow the natural contours of the ground. This can reduce or eliminate the need for bends and also minimise the in-trench labour requirement.
- Long lasting**
 Since its introduction, polyethylene has consistently proven its longevity both in the field and in the laboratory. PE is chemically resistant and unaffected by ground pH. It has a life expectancy far greater than more traditional materials, without the need for special linings or coatings.
- Functional**
 Polyethylene is an inert solid which is hydraulically smooth (Colebrook White 0.003). PE has proven itself over several decades to be an ideal material for transporting drinking water hygienically.
- Comprehensive fittings range**
 Extensive ranges of PE and metallic fittings are available to compliment this industry leading pipeline material.
- Tailor-made solutions**
 The use of PE allows the engineering consultant and contractor to optimise the design of the pipeline. This can be achieved by varying the wall thickness (SDR), pressure ratings and diameters along the length of a given pipeline to ensure the most economical solution.
- Maintenance free**
 The inherent properties of polyethylene ensure minimum operating expenditure and maximum asset life.

Large Diameter Pressure Ratings and Weights for PE100 (EN 12201 and EN 13244)

Diameter (mm)	SDR	Pressure Rating (bar)	Pipe weight per metre (kg)
710	26	6	58.7
	21	8	72.0
	17	10	87.8
800	13.6	12.5	108.0
	11	16	130.8
	26	6	74.6
900	21	8	91.4
	17	10	111.5
	13.6	12.5	137.1
1000	26	6	94.4
	21	8	115.7
	17	10	141.1
1100	13.6	12.5	173.5
	26	6	116.5
	21	8	142.8
1200	17	10	174.2
	26	6	141.0
	21	8	172.8
1300	17	10	210.8
	26	6	167.8
	21	8	205.7
1400	17	10	250.9

Standard pipe lengths are 6.0 metres, 12.0 metres and 13.5 metres. Please contact us if you require different lengths or non-standard tailor-made SDRs for specific hydraulic requirements

