

# Puriton<sup>®</sup> Barrier pipe system

For drinking water  
applications.

**PRICE LIST**  
**NOVEMBER 2020**



**RADIUS**  
*Systems*



# PURITON® BARRIER PIPE

## A tried and tested barrier pipe system for new homes on brownfield sites

Developments in polyethylene pressure pipelines have made it possible to combine polyethylene (PE) with other materials, like aluminium, which possesses excellent barrier properties. With governments encouraging the redevelopment of brownfield land for new homes, there was a need for a new polyethylene pipeline solution that would ensure the protection of our drinking water against soil contaminants found in brownfield sites.

### **What are brownfield sites?**

Brownfield sites are areas of land or premises which were previously used for farming, industrial or commercial purposes, but have subsequently become unoccupied, derelict or contaminated.

The regeneration and development of these types of sites into housing, warehouses or factories is encouraged by governments to protect the green belt, minimise urban sprawl and make better use of disused land.

### **Puriton®, the 21st century pipe system for contaminated land**

Specifically developed to offer water companies, developers and builders of new housing, warehouses or industrial buildings an engineered barrier pipe solution, Puriton® is a cutting-edge pipe and fittings system, which does exactly that: safeguards potable water against soil contaminants by incorporating impermeability with flexibility.

A multi-layer composite structure pipe, Puriton® combines the unique characteristics of PE with the exceptional barrier properties of aluminium (Al). The pipe is lightweight, flexible, corrosion resistant and easy to install, without the need to wrap the finished joints.

The Puriton® pipe can be joined using our comprehensive range of fittings, specially developed to give you the assurance of a safe and durable solution that protects your drinking water.



## Features and Benefits

- Multi-layer pipe construction PE-Al-PE
- Brown stripes denote a multi-layer pipe
- Full barrier pipe system
- Combines the flexibility of polyethylene with the barrier properties of aluminium
- Safeguards drinking water quality
- Easy to handle, flexible and lightweight
- End load resistant system
- Installation cost savings - no requirement for thrust blocks
- No requirement to post-wrap the joints
- Suitable for most common installation techniques
- Suitable for new and replacement drinking water supply systems



## Approvals



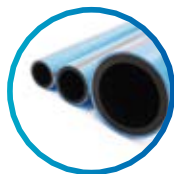
KM 597648  
KM 672956

- PE pipe material approved for use in drinking water supply - diameters 90 to 180 mm.
- WRAS - PE80 pipe material.
- WRAS - Redman™ fittings.
- WRAS - plastic mechanical fittings 25 to 63 mm.
- BS EN 12201-3 (KM 597648) - Puriton® electrofusion fittings.
- KIWA UK Approved Product in compliance with UK Water Supply Regulations - tapping tees.
- BS 8588:2017 (KM 672956) - Puriton® pipe.

## Approved jointing methods

- BS 8588 (KM 672956)
  - Puriton® plastic mechanical fittings.
  - Redman™ fittings.
  - Puriton® electrofusion fittings.
  - Puriton® gunmetal tapping tees.
  - Butt-fusion in accordance with WIS 4-32-08.

# Puriton® pipe



## Puriton® service pipe

Service pipe construction PE80-AI-PE80  
- SDR11: maximum operating pressure 12.5 bar

Diameter mm	SDR	Product code				Price per m
		6 m	25 m	50 m	100 m	
25	11	-	-	XQ2528	-	£7.95
32	11	-	-	XQ2535	-	£10.25
63	11	XQ2568	XQ2570	XQ2571	XQ2572	£28.10



## Puriton® mains pipe

Mains pipe construction PE100-AI-PE100  
- SDR11: maximum operating pressure 16 bar  
- SDR17: maximum operating pressure 10 bar

Diameter mm	SDR	Product code				Price per m
		6 m	12 m	50 m	100 m	
90	11	XQ0125	XQ0126	XQ0128	XQ0129	£35.25
90	17	XQ0143	XQ0145	XQ0146	XQ0147	£30.40
110	11	XQ0233	XQ0235	XQ0236	XQ0237	£43.36
110	17	XQ0251	XQ0253	XQ0254	XQ0255	£40.37
125	11	XQ0287	XQ0289	XQ0290	XQ0291	£60.47
125	17	XQ0305	XQ0307	XQ0308	XQ0309	£45.58
160	11	XQ0458	XQ0460	XQ0461	XQ0462	£76.28
160	17	XQ0476	XQ0478	XQ0479	XQ0480	£55.71
180	11	XQ0530	XQ0532	XQ0534	XQ0535	£80.77
180	17	XQ0550	XQ0552	XQ0554	XQ0555	£60.78

# Mechanical fittings

## 25 - 63mm



### Couplers

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Diameter	Pack quantity	Product code	Price
mm			each
25	1	XR5244	£9.38
32	1	XR5245	£12.37
63	1	XR5251	£44.08



### Equal tees

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Diameter	Pack quantity	Product code	Price
mm			each
25	1	XR5247	£14.09
32	1	XR5248	£17.85
63	1	XR5253	£61.88



### 90° elbows

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Diameter	Pack quantity	Product code	Price
mm			each
25	1	XR5249	£9.86
32	1	XR5250	£14.09
63	1	XR5252	£43.72

# Mechanical fittings

## 25 - 63mm



### Reducers

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Diameter mm	Pack quantity	Product code	Price each
32 x 25	1	XR5246	£15.81
63 x 25	1	XR5257	£40.01
63 x 32	1	XR5254	£46.96



### End caps

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Diameter mm	Pack quantity	Product code	Price each
25	1	XR5261	£8.88
32	1	XR5262	£12.20



### Male adaptors

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Diameter mm	Pack quantity	Product code	Price each
25 x 3/4"	1	XR5235	£5.77
32 x 3/4"	1	XR5236	£8.21
32 x 1"	1	XR5237	£8.35
63 x 1 1/2"	1	XR5258	£27.54
63 x 2"	1	XR5259	£27.54



## Female adaptors

Diameter mm	Pack quantity	Product code	Price each
25 x 3/4"	1	XR5240	£6.58
32 x 3/4"	1	XR5241	£7.90
32 x 1"	1	XR5242	£7.94
63 x 2"	1	XR5260	£30.92



# Redman™ fittings

## 63 - 180mm



### Couplers

Diameter mm	Pipe SDR	Pack quantity	Product code	Price each
63	11	1	RE0001	£78.06
90	11	1	RE0002	£109.27
90	17	1	RE0009	£109.27
110	11	1	RE0003	£160.71
110	17	1	RE0010	£160.71
125	11	1	RE0004	£249.63
125	17	1	RE0005	£244.73
160	17	1	RE0007	£327.68
180	11	1	RE0008	£349.40
180	17	1	RE0047	£342.52



### Repair couplers

Diameter mm	Pipe SDR	Pack quantity	Product code	Price each
63	11	1	RE0065	£188.26
90	11	1	RE0064	£211.95
90	17	1	RE0067	£211.95
110	11	1	RE0066	£275.30
110	17	1	RE0069	£275.30
125	17	1	RE0071	£326.85
160	17	1	RE0078	£560.62
180	17	1	RE0080	£721.54





## 90° elbows

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Diameter mm	Pipe SDR	Pack quantity	Product code	Price each
63	11	1	RE0011	£167.09
90	11	1	RE0012	£274.05
90	17	1	RE0013	£274.05
110	11	1	RE0014	£299.62
110	17	1	RE0015	£299.62
125	17	1	RE0017	£382.38
160	17	1	RE0019	£561.88
180	17	1	RE0021	£715.17



## 45° elbows

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Diameter mm	Pipe SDR	Pack quantity	Product code	Price each
63	11	1	RE0032	£160.49
90	11	1	RE0033	£271.87
90	17	1	RE0034	£271.87
110	11	1	RE0035	£298.37
110	17	1	RE0036	£298.37
125	17	1	RE0038	£372.25
160	17	1	RE0040	£595.05
180	17	1	RE0045	£689.82

# Redman™ fittings

## 63 - 180mm



### Flange adaptors NP16

Diameter mm	Pipe SDR	Pack quantity	Product code	Price each
63 x DN50	11	1	RE0073	£120.63
63 x DN80	11	1	RE0083	£155.81
90 x DN80	11	1	RE0074	£158.84
90 x DN80	17	1	RE0075	£158.84
110 x DN100	11	1	RE0076	£176.38
110 x DN100	17	1	RE0077	£176.38
125 x DN100	11	1	RE0084	£257.30
125 x DN100	17	1	RE0079	£247.04
160 x DN150	17	1	RE0081	£308.80
180 x DN150	11	1	RE0087	£382.38
180 x DN150	17	1	RE0089	£374.86



### Adaptors

Diameter mm	Pipe SDR	Pack quantity	Product code	Price each
63 x 1 1/2" BSPF /2" BSPM	11	1	RE0123	£87.01

# Electrofusion fittings

## 90 - 180mm



### Couplers

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Diameter mm	Pack quantity	Product code	Price each
90	1	WA0210	£11.30
110	1	WA0211	£18.45
125	1	WA0212	£20.68
160	1	WA0214	£34.78
180	1	WA0215	£38.55



### 45° elbows

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Diameter mm	Pack quantity	Product code	Price each
90	1	WA3318	£26.99
110	1	WA3319	£35.00
125	1	WA3320	£48.38
160	1	WA3322	£104.99
180	1	WA3323	£112.33



### 90° elbows

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Diameter mm	Pack quantity	Product code	Price each
90	1	WA3347	£25.93
110	1	WA3348	£34.46
125	1	WA3349	£42.33
160	1	WA3351	£104.99
180	1	WA3352	£112.33

# Electrofusion fittings

## 90 - 180mm



### Equal tees

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Diameter mm	Pack quantity	Product code	Price each
90	1	WA2210	£36.16
110	1	WA2211	£46.65
125	1	WA2212	£61.63
160	1	WA2214	£101.61
180	1	WA2215	£134.51



### Reducers

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Diameter mm	Pack quantity	Product code	Price each
110 x 90	1	WA4286	£38.02
125 x 90	1	WA4289	£36.51
125 x 110	1	WA4291	£60.43
160 x 110	1	WA4294	£64.39
180 x 125	1	WA4297	£67.24

# Off-take connections



## Tapping tees

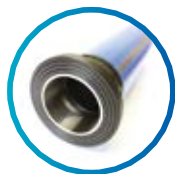
Diameter mm	Pack quantity	Product code	Price each
63 x 25	1	XR5111	£97.69
90 x 25	1	XR5112	£106.77
110 x 25	1	XR5113	£106.77
125 x 25	1	XR5114	£106.77
160 x 25	1	XR5115	£137.87
180 x 25	1	XR5116	£137.87
63 x 32	1	XR5117	£113.24
90 x 32	1	XR5118	£120.43
110 x 32	1	XR5119	£120.43
125 x 32	1	XR5120	£120.43
160 x 32	1	XR5121	£150.17
180 x 32	1	XR5122	£150.17



## Ferrule adaptors

Diameter mm	Pack quantity	Product code	Price each
25 x 3/4"	1	XR5055	£41.53

# Fabricated fittings



## Flange adaptors NP16

Diameter mm	Pipe SDR	Pack quantity	Product code	Price each
63 x DN80	11	1	XR0290	£197.68
90 x DN80	11	1	XR0291	£230.80
90 x DN80	17	1	XR0300	£219.76
110 x DN100	11	1	XR0310	£303.47
110 x DN100	17	1	XR0303	£252.90
125 x DN100	11	1	XR0311	£409.49
125 x DN100	17	1	XR0301	£341.24
160 x DN150	11	1	XR0312	£528.75
160 x DN150	17	1	XR0304	£440.62
180 x DN150	11	1	XR0313	£595.01
180 x DN150	17	1	XR0302	£495.84



# Tooling



## C ring wrenches

Pipe diameter mm	Pack quantity	Product code	Price each
25 - 32	1	XR4998	£9.94
63	1	XR4999	£49.70



## Hydraulic pump

Description mm	Pack quantity	Product code	Price each
Redman™ fittings hydraulic pump	1	XR0211	POA



## Biodegradable hydraulic oil

Description mm	Pack quantity	Product code	Price each
Hydraulic oil for Redman™ pump 5 litres	1	XR0212	£50.80





## Tapping tee key

Description	Pack quantity	Product code	Price
mm			each
3/8" T key	1	XR0215	£28.82





# Radius Systems

Radius Systems are a market leader in the innovation and manufacture of plastic pipe systems for the utilities and construction industries. With extensive research and development at the heart of our products and systems, we take care of the entire pipe life cycle - from design and manufacture through to live connections and rehabilitation. We strive to improve industry practices, with good health and safety policies at the forefront of our philosophy of 'getting it right first time'. Our continuous customer inspired research and development, combined with successful customer partnerships represent our total dedication to the plastic piping industry.

- **Manufacturing facilities** With 2 production sites in the UK, we have complete control over quality and the ability to meet our customers' expectations.
- **Innovative approach** We are leaders in our field with a history of research and new product development. Practicality, durability and adaptability are all high on our agenda to meet our clients' needs.
- **Flexible product and service provision** Our comprehensive range of services is designed to fit the variable demands of our clients' developments in pipes, fittings, training and support services.
- **Reliability and safety** With 50 years experience in pipe design and manufacture, our clients know that they can count on us to meet not just their product and service needs, but also their delivery and safety requirements.
- **Great customer service** We have a dedicated Customer Services team to answer queries from our customers in the UK and overseas. Our service is not just about the delivery of products - contact our team if you have a product or installation enquiry or a post-delivery query.

For more information please visit our website.  
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