



Puriton®

Barrier pipe & fittings system

The barrier pipe system of choice for your new or replacement drinking water supply, Puriton® is a cutting edge solution for the safe distribution of drinking water through contaminated land.

Designed to provide a high level of protection against soil contaminants commonly found in brownfield sites, Puriton® is a multi-layer composite structure pipe, which combines the unique characteristics of polyethylene (PE) with the exceptional barrier properties of aluminium (Al).

Lightweight, flexible and corrosion resistant, the Puriton® system is easy to install, without the need to post-wrap the finished joints. The pipe can be joined using most industry standard installation techniques with our comprehensive range of electrofusion and mechanical fittings, which have been specifically developed to give you assurance of a safe and durable solution which provides protection to your drinking water through contaminated land.

Benefits of the Puriton® system

- 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

- Polyethylene pipe material approved for use in drinking water supply
- WIS 4-32-19 (KM 592372)
 - 25 to 63 mm PE80 pipe
 - 90 to 180 mm PE100 pipe
- BS EN 12201-3 (KM 597648)
 - Electrofusion fittings 90 to 180 mm
- WRAS
 - PE material for 25 to 63 mm pipe



WIS 4-32-19 (KM 592372) Puriton® jointing methods

- Puriton® electrofusion fittings
- Butt-fusion in accordance with WIS 4-32-08 and Radius Systems' installation guide
- Puriton® plastic mechanical fittings
- Puriton® gun metal tapping tees
- Redman™ fittings

Puriton® range at a glance

Description	Diameter	Maximum pressure	Material(s)	Joining
Service pipe				
	<ul style="list-style-type: none"> • 25, 32, 63 mm 	<ul style="list-style-type: none"> • 12.5 bar - SDR11 	<ul style="list-style-type: none"> • PE80 • Aluminium 	<ul style="list-style-type: none"> • Puriton® mechanical fittings • Redman™ fittings (63 mm) • Tapping tee (63 mm) • Spigot fitting (63 mm)
Mains pipe				
	<ul style="list-style-type: none"> • 90, 110, 125, 160, 180 mm 	<ul style="list-style-type: none"> • 10 bar - SDR17 • 16 bar - SDR11 	<ul style="list-style-type: none"> • PE100 • Aluminium 	<ul style="list-style-type: none"> • Electrofusion fittings • Redman™ fittings • Spigot fittings • Tapping tee
Mechanical fittings				
	<ul style="list-style-type: none"> • 25, 32, 63 mm 	<ul style="list-style-type: none"> • 12.5 bar 	<ul style="list-style-type: none"> • Polypropylene 	<ul style="list-style-type: none"> • Puriton® service pipe
Electrofusion fittings				
	<ul style="list-style-type: none"> • 90, 110, 125, 160, 180 mm 	<ul style="list-style-type: none"> • 16 bar 	<ul style="list-style-type: none"> • Polyethylene 	<ul style="list-style-type: none"> • Puriton® mains pipe
Redman™ fittings				
	<ul style="list-style-type: none"> • 63 mm • 90, 110, 125, 160, 180 mm 	<ul style="list-style-type: none"> • 12.5 bar • 16 bar 	<ul style="list-style-type: none"> • Steel insert • Steel and copper outer shell 	<ul style="list-style-type: none"> • Puriton® service pipe (63 mm) • Puriton® mains pipe
Tapping tees				
	<ul style="list-style-type: none"> • 63 - 180 mm x 25 mm • 63 - 180 mm x 32 mm 	<ul style="list-style-type: none"> • 12.5 bar • 12.5 bar 	<ul style="list-style-type: none"> • Gun metal body • Polypropylene outlet 	<ul style="list-style-type: none"> • Puriton® service pipe (63 mm) • Puriton® mains pipe
Spigot fittings				
	<ul style="list-style-type: none"> • 63 mm PE80 - SDR11 • 90 mm PE100 - SDR11 • 90 - 180 mm PE100 - SDR17 	<ul style="list-style-type: none"> • 12.5 bar • 16 bar • 10 bar 	<ul style="list-style-type: none"> • Polyethylene with stainless steel insert 	<ul style="list-style-type: none"> • Puriton® service pipe (63 mm) • Puriton® mains pipe