

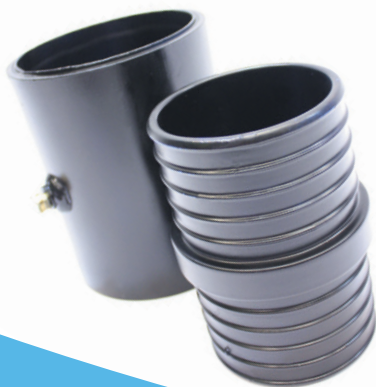
Redman™ Fittings

Hydraulic Compression Fittings

Redman Fittings by Radius Systems

The Redman fittings are a unique and innovative solution to quickly and easily connect polyethylene pipes for potable and non-potable water applications. Suitable for all polyethylene water pipes, as well as Radius Systems' Puriton and selected barrier pipes used for the transportation of potable water in contaminated land, the Redman fittings joint can be made in all weather conditions even with water in the pipeline.

Simple to install with little pipe preparation, the joint is made by pressurising the outer shell of the fitting using a dedicated hydraulic pump. Once made, the Redman fitting provides a 'fit and forget' end-load-bearing joint. Available in diameters 63mm to 180mm, the Redman fittings offer a full corrosion resistant alternative to existing polyethylene pipe jointing methods.



Features & Benefits

- Quick and easy to install
- The Redman joint requires no nuts, bolts or rubber seals
- A fit and forget system
- Minimal pipe preparation required for jointing
- Can be installed in wet and submerged conditions
- End load bearing jointing system
- Excellent chemical resistance
- Coated for maximum corrosion protection
- Suitable for use in contaminated land environments
- Simple hand pump for joint pressurisation
- Biodegradable hydraulic oil used for joint pressurisation
- Rilsan coated insert for the safe conveyance of potable water

Approvals

- WRAS approved (certificate number 1311068)
- Rilsan coating approved for use with drinking water



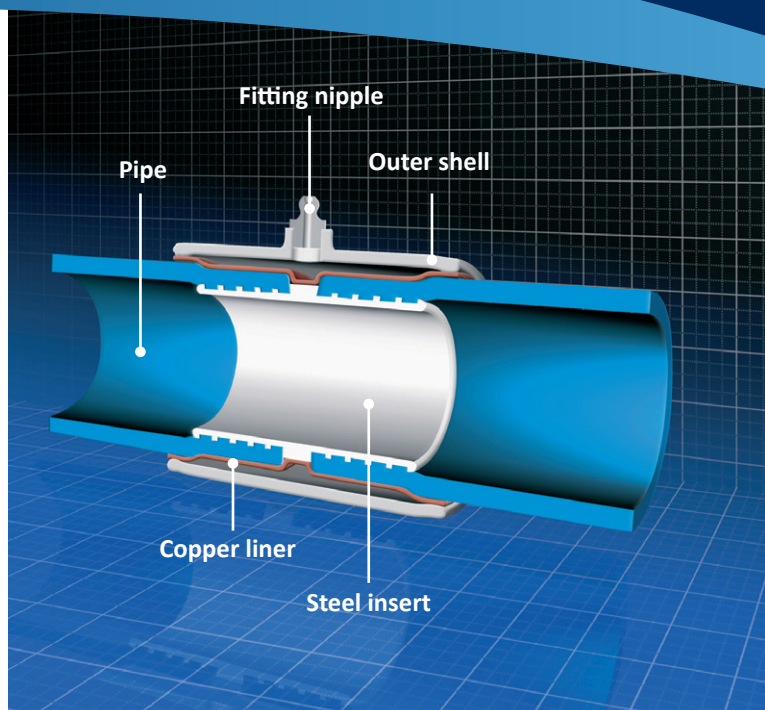
Innovative Fitting Solution

The Redman fitting consists of 2 components: a steel insert which fits into the pipe ends to offer support and pull out resistance to the pipe and an outer shell which, when pressurised, forms a permanent joint by deforming the polyethylene pipe onto the insert.

The Redman insert is coated with an electrostatically applied polymeric powder, which provides a corrosion barrier approved for use with drinking water. The outer shell is protected with a corrosion resistant coating.

Once the fitting is in place, the joint is made by pressurising the outer shell using a specially designed hand pump. Biodegradable hydraulic oil is pumped through the nipple on the outer shell, filling the annular void between the steel and the integral copper liner. The increasing hydraulic pressure compresses the copper liner onto the polyethylene pipe, which in turn forces the pipe onto the insert.

The unique design and circumferential profiling of the insert ensures that the pipe will not disengage from the fitting during system operation, overcoming the need to install concrete anchor blocks and providing confidence of an end-load-resistant system.



Cut-away section of a Redman coupler

