

tyco
Water



Tyco Water – the heart of the water industry

As our global climate changes, the community is now focused more than ever on preserving and securing our most precious resource; water.

No other company servicing the water industry provides the degree of excellence, experience and innovation that Tyco Water offers to its customers.

From design and training to pipe construction, Tyco Water provides integrated solutions for the water industry across a diverse range of applications from potable and recycled water to the management of waste waters.

Tyco Water's unmatched level of expertise means we can help you meet community expectations of high quality water supplies with solutions that are cost-effective, environmentally sound and built to service generations well into the future.

Tyco Water – helping the water industry secure our most precious resource.

History

Tyco Water's position as Australia's premier manufacturer and supplier of pipeline systems is built on more than a century of commitment to the country's water industry.

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Back in 1896 the then Premier of Western Australia, Sir John Forrest, launched the seemingly impossible task of building the longest water pipeline in the world – stretching 560 kilometres from Perth to the water starved goldfields of Coolgardie.

Pivotal to that pipeline's success was Mephan Ferguson's development of new pipe manufacturing technology in Australia. As those first 'locking bar' pipes rolled off the production line, Tyco Water's pioneering tradition was born – a tradition which has continued from our predecessor to the Tyco Water of today.

Tyco Water is now a division of Tyco Flow Control, a key plank in the global company Tyco International Limited.

Over the past decade the company has expanded to become a diverse organisation offering a complete suite of services to the engineering industry.

In 1999, Tyco Water, formerly known as Tubemakers Water, was acquired by Tyco Flow Control, further enhancing its reputation as the country's leading supplier of steel and ductile iron pipes. Then in 2000, Tyco Water Plastic Pipeline Systems was created following the acquisition of two leading manufacturers.

The result was the formation of the country's only full service pipeline company specialising in steel, ductile iron and plastic pipeline system products.

Tyco Water's manufacturing operations now extend across the country and provide Tyco with the capacity and technology to meet any project requirement.

Ductile iron pipes are manufactured in Sydney, New South Wales, while the company's plastic pipe division finds its home in Melbourne, Victoria. Tyco Water's steel pipeline plants are located near Brisbane, Queensland as well as in Melbourne, Victoria and Perth, Western Australia.

Meanwhile, ductile iron fittings and valves are manufactured in Currumbin on Queensland's Gold Coast, while stainless steel couplings and clamps are manufactured in Tyco Water's facility in Wangarratta, Victoria.

This breadth of experience means that, like Mephan Ferguson more than a century ago, Tyco Water remains at the leading edge of pipeline technology.



Golden Pipeline installation techniques



SINTAKOTE – fusion bonded polyethylene coating



Casting Ductile Iron pipe

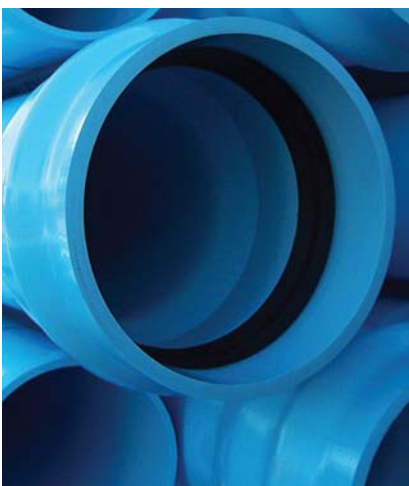


Cement Mortar Lining



Dedicated employees, superior products

Overview



Rubber ring joint PVC pipe

Never before has the security of water supplies been such an important global issue. At the forefront of the global industry, Tyco Water's strong commitment to innovation is matched by its products and expertise capable of meeting any water infrastructure challenge.

Our products

Tyco Water provides an ever-increasing range of pipeline services including ductile iron, steel and plastic pipeline systems, along with a full range of components needed for the construction and ongoing maintenance of pipeline infrastructure.

Over the past 100 years Tyco Water has developed an intimate understanding of what customers need to deliver a pipeline system that is not just built to last, but built on time and on budget.

Our service is based on a deep commitment to research and development, with our staff offering ongoing technical support for customers. Tyco Water's professional team of scientists, metallurgists and polymer chemists also ensures our products are at the cutting edge of pipeline design.

Our services

The Tyco Water Services team provides ongoing pipeline support covering everything from pipe repairs and renovation to complete pipeline replacement. No matter what the pipeline requirement, Tyco Water is the first port of call to assist with project management, starting from the design phase through to pipeline commissioning.

Tyco Water also conducts nationally accredited training for operators involved in the installation process to ensure the highest level of quality is maintained.

Our commitment to the community

Whether it be through minimising disruptions to residents during pipeline repairs or using recycled materials in our pipeline products, Tyco Water is committed to both the community and the environment.

Our commitment to the community is evident in the care we take to look after our 1,300 Australian employees predominantly employed in manufacturing roles. We also purchase almost all of our materials and support services from other Australian companies – and if possible, from local companies near to each manufacturing site.

As part of our commitment to the environment, we have embarked on water and energy efficiency campaigns at all of our main facilities. Where possible, such as with Tyco Water's Ductile Iron Pipeline Systems, we recycle significant quantities of scrap steel to manufacture new pipes, fittings, valves and couplings.

Over the past 100 years we have developed an intimate understanding of what customers need to deliver a pipeline system that is not just built to last, but built on time and on budget.



Loading DN1000 SINTAKOTE steel pipe



Installing DN600 Ductile Iron pipe



Corrosion Protection – Blueboss, loose polyethylene sleeving

Products

Ductile Iron Pipeline Systems

Toughness, ease of installation and a proven track record have long made Ductile Iron Pipeline Systems the industry standard for a wide range of applications. Tyco Water's TYTON® ductile iron systems are renowned worldwide for their capacity to cope with the most adverse operating conditions.

The inherent properties of ductile iron, combined with easy to apply anti-corrosion systems, mean these pipes can provide solutions for every imaginable condition encountered in a water supply system, along with many other pipeline applications. As a result, ductile iron pipelines are used for transporting not just water, but drainage, effluent, and slurries ... just to name a few uses.

These pipes provide engineers with the opportunity to design a pipeline to cope with all operating conditions including flow requirements, operating pressure, external loads and the risk of damage during transport and installation.

The fact these pipes are available in sizes ranging from DN80 to DN750 – and include a full range of pipes, fittings, valves and other components – makes them highly adaptable.

Tyco Water's commitment to innovation has meant that over the past four decades the TYTON Ductile Iron Pipeline Systems have continued to evolve, incorporating a range of advancements from the raw materials to manufacturing and to handling and installation.

As a result, the TYTON 2100 Series features a groundbreaking range of products and services guaranteed to deliver results for your project.

These innovations include:

TYTONXCEL®

This new concept in ductile iron pipe introduces new pressure classes PN20 and PN35 to meet the ever-evolving needs of the water industry. The result is an increase in efficiency and cost savings without sacrificing the renowned performance capabilities of ductile iron pipes.

TYTONXTREME®

This product can handle the toughest environments. From gravity sewers to industrial waste management, TYTONXTREME can easily cope with extremes of pH, high pressure and persistent abrasion.

TYTONXTEND®

When it comes to dealing with everything from mine subsidence to ground movements, this product is without equal. Based on the unbeatable TYTON pipe joint, TYTONXTEND features an extended throat socket that allows for unpredictable ground strain in both axial and rotational movement.

TYTON-LOK®

This product is the key to fast-tracking design and construction of ductile iron pipelines. TYTON-LOK provides you with the resources to deal with the challenges of weak soils and tight deadlines while also delivering cost savings.

BLUEBOSS®

Using high-impact sleeves remains the most effective means of controlling corrosion on ductile iron pipes – and BLUEBOSS raises the bar yet again. This new generation product combines toughness with a higher resistance to UV radiation to create a protective pipe barrier for a lifetime.

HYDROLINE®

From cement to newly developed polymeric coatings, this family of linings protects and enhances the bore of ductile iron pipe systems.

CENTURY PLUS II®

Nothing has the capacity to set back a pipeline project more than the installation process. A combination of unskilled installation and poor quality assurance can spell the early demise of a pipeline project. But CENTURY PLUS II combines a range of products and services to ensure this phase of any project runs smoothly.

Tyco Water is making a significant contribution to environmental protection by producing its ductile iron pipes and fittings from 100 per cent scrap steel.

In fact, over the past 40 years, Tyco Water's Yennora ductile iron pipe plant has recycled more than 2.5 million tonnes of scrap and waste steel – that's enough to fill 2,000 football fields. The result has been 55,000 kilometres of iron pipe which has been produced from recycled materials and laid in more than a dozen countries around the globe.

Steel Pipeline Systems

It is hard to go past steel pipelines when it comes to strength, flexibility and the capacity to deal with difficult conditions – which is why steel has been the cornerstone of water projects for more than a century.

Tyco Water's Steel Pipeline Systems come in a range of sizes and can be tailored to meet any project. From 100 to 2500 mm in diameter, the pipes can be made with wall thickness of 3 to 25 mm. Steel pipes can also be produced up to 13.4 metres in length, helping you reduce installation time and the number of joints required.

It is in the long term where Tyco Water's steel pipes really come into their own. Not only can they cope with increased capacity if required in the future, but these pipes retain their strength for generations.

Just one look at the steel pipelines still operating today after a century of service offers a testament to steel's enduring reliability.

Completing Tyco Water's Steel Pipeline Systems is a huge range of fittings made to order, including simple bends, tees, reducers and complex valve systems – all manufactured to meet strict engineering requirements.

Tyco Water uses unrivalled SINTAKOTE® technology which makes these products ideal for projects where low maintenance and long service life are required.

SINTAKOTE is a fusion bonded polyethylene coating system that provides steel pipes with unparalleled corrosion protection in even the most strenuous environments. Tyco Water developed this system in conjunction with Australian water authorities to address concerns about previously used and inadequate corrosion protection systems.

SINTAKOTE is regarded as world leading technology.

These pipes match perfectly with the patented SINTAJOINT® system that makes pipeline construction as effortless as it is durable. This system is based on a simple rubber ring joint that not only provides a perfect seal, but allows for up to three degrees of movement in the event of ground movement or slight changes in direction.

Without the need to weld, pipeline projects using the SINTAJOINT system enjoy significantly reduced construction timelines.

In cases where there is heightened concern about pipeline movement, Tyco Water's SINTALOCK® system allows for the construction of a fully restrained pipe system, which requires just one external weld.

Both systems can withstand significant pressure, with SINTAJOINT rated to 5.0MPa.

Tyco Water also provides a wide range of internal steel pipe linings to meet any requirement. While the fusion bonded SINTALINE® system is ideal for more aggressive fluids and waste applications, cement mortar linings provide a low cost alternative capable of reaching a service life in excess of 100 years.

Plastic Pipeline Systems

Our ongoing commitment to research and innovation has seen Tyco Water Plastic Pipeline Systems (TWPPS) emerge as a leading global player in this field.

TWPPS manufactures and distributes both Eurapipe and Plaspipe products to meet many pipeline system requirements.

Central to the ongoing success of the Eurapipe range has been the development of new innovations in the large bore ABS pressure piping systems.

ABS PIPE SYSTEMS

ABS is considered one of the toughest and most secure thermoplastic piping systems on the market today. TWPPS produces a huge range of ABS products for an ever increasing number of applications.

As TWPPS's DURA-FLO® range of ABS is robust and secure, you will find it in the mining, chemical processing, industrial, mechanical services, water and waste water treatment industries, where it has been successfully used for many years, in a large variety of applications. These include chemical dosing, chilled water, condenser water, grey water, potable water and slurries. With its use of a true cold welding system, DURA-FLO can be easily installed and is commonly used both above and below ground.

To meet market demands for chilled water piping systems, TWPPS developed the K-flo range of pre-insulated ABS piping systems. K-flo utilises the same security and robustness as the DURA-FLO system. This allows for easy and rapid installation of pre-insulated ABS piping systems even in harsh and arduous conditions.

The Strata-flo ABS bore casing system offers the correct combination of mechanical strength, impact strength, corrosion resistance and lightweight, all-round toughness that is required in such an application. This thermoplastic piping system has a strong track record in some of the most difficult environments on the planet, while remaining a cost-effective solution.

ABS-con is a lead and halogen free thermoplastic conduit system. ABS-con has been successfully used in many aggressive markets where harsh UV and/or environmental conditions exist. This system is extremely strong, is corrosion resistant and will outlast the competition in treacherous weather conditions. The halogen-free nature of ABS-con also allows it to be used when a high Green Star rating is required.

CHEM-FLO®

If a pipeline system is required to transport material that is highly corrosive, abrasive, hot and environmentally sensitive, CHEM-FLO provides the solution. This system combines the structural strength of a steel outer layer with a chemical and corrosion resistant plastic coated bore. Also available is the CHEM-FLO-PLUS® range featuring enamel or glass linings for additional protection in extreme applications.

PVC

Tyco Water caters for the irrigation, water and plumbing sectors with the time-tested PVC-U piping system that has been successfully used across Australia for more than 40 years. Plaspipe offers the Plas-flo range of PVC-U pressure pipes and fittings to meet this demand.

Plaspipe's Tuf-flo PVC-M pipe has been developed to supply a tougher and more ductile PVC pipe. Tuf-flo is a co polymer of PE and PVC-U which combines the excellent ductility of PE with the superior strength of PVC-U.

PVC pipes are lightweight, corrosion resistant and easily installed. They can be joined by means of either cold solvent welding or rubber ring jointing.

Pipeline Components

Producing world class steel, ductile iron and plastic pipes is just one part of the Tyco Water story. Tyco Water also produces a comprehensive range of fittings needed to complete any pipeline system.

Tyco Water's facility at Currumbin on the Gold Coast produces ductile iron fittings, valves and hydrants. Our acquisition of WANG Industries has meant the company can supply a complete range of stainless steel products ranging from clamps to couplings.

Tyco Water's commitment to innovation ensures these integral pipeline components not only add to the long-term durability and endurance of pipeline systems, but deliver significant cost savings for your project.

AUSLITE® pipeline fittings

These ductile iron fittings are lightweight, compact and environmentally friendly. Manufactured for high strength and impact resistance, the fittings are also encapsulated with thermally bonded coating for long-life operation. AUSLITE ductile iron fittings are ideally suited for use with ductile iron, PVC-U, PVC-M and PVC-O pipes.

Resilient seated gate valves

Tyco Water has played an active role in the design of resilient seated gate valves in Australia. Our comprehensive range, from DN80 to DN600, is in accordance with AS2638.2 and is guaranteed to perform under pressure and to withstand anticipated operation conditions.

SUREFLOW PLUS® spring hydrant valves

These valves are designed and manufactured to AS3952 and allow for direct full bore access to water pipelines for firefighting purposes. Access is gained by the attachment of a standpipe to the hydrant lugs. This hydrant can also be used to provide an entry and exit point for scouring swabs.

READYTAP® connectors

The READYTAP system provides for complete installation of house services at the time of pipeline construction, minimising the need for future drilling and tapping. These connectors are ductile iron fittings for high strength and impact resistance and are coated in Rilsan Nylon 11 for corrosion resistance.

VARI-GIB® couplings

VARI-GIB non-restrained mechanical couplings are manufactured to WSA 105 and provide an effective method for connecting pipes with equal or unequal diameters. These couplings are compatible with most pipe types and are predominantly used in a maintenance situation where a burst or damaged pipeline is repaired by the cut out and replace method. VARI-GIB couplings are suitable for drinking water, waste water and gas applications.

EZIGIB® couplings

Winner of the 2005 Australian Industry Design Award, these non-restrained mechanical couplings are manufactured to AS/NZS4998D and are predominantly used in similar maintenance situations to the VARI-GIB. EZIGIB provide a fast, effective method for connecting pipes with the same or different outside diameters. The couplings can be installed without the need to disassemble, significantly reducing installation time.

Streetware

Tyco Water's valve and hydrant boxes are constructed from recycled plastic and use high strength ductile iron lids and base plates. Lightweight and easy to transport, this assembly can be used in place of old, heavy concrete surrounds or cast iron boxes.

Services



SINTAKOTE steel pipes awaiting installation on the Bendigo to Ballarat pipeline



Large diameter sluzice valves featuring fusion bonded epoxy coating



Tyco Water's employees ensure care is taken when loading your pipes

Tyco Water Services

More than just the country's leading producer of complete pipeline systems, Tyco Water is a one-stop-shop for ongoing pipeline support. We offer a complete suite of pipeline renovation and service solutions that can solve any pipeline infrastructure problem.

These solutions range from initial investigations through to repairs, general maintenance, coatings, valve and fitting replacements, leak repairs and even full pipeline replacements.

That process is made easier through Complete Tapping Services (CTS), which provides Tyco Water with the capacity to tap into everything from water and sewer mains to irrigation and industrial gas pipelines while still under pressure. That means pipeline repairs and renovations can be made with minimal disruption to normal operations.

Tyco Water's CTS technology has been adopted globally and is fully approved by water agencies in Australia and New Zealand.

Meanwhile, repairs to non-pressurised pipes can be easily made with Tyco Water Services' helically wound thermoplastic lining.

Our services include:

In situ pipe lining

This service is ideal for repairing unsound or damaged pipelines. Tyco Water's highly durable and effective Permaline, Sideliner and PermaPatch systems all provide solutions for damaged pipes without the need to embark on costly and disruptive excavation works to fix pipeline problems.

Pipe coatings

Tyco Water Services provides a complete range of pipeline coating and painting offerings, from cement mortar lining of water mains to the painting of above ground pipes, fittings and other pipeline infrastructure.

PANEL LOK®

This unique patented PVC-U system is a cost-effective option for internally rehabilitating pipes ranging in size from 750 mm to 3,000 mm. The spirally formed lining system bonds with the existing pipe and is a proven performer in the renovation of a range of pipe systems, including sewers, irrigation pipelines and tunnel linings.

Smaller pipes can be similarly renovated using the TwinLok PVC-U system.

Pipeline replacement

If entire pipes need to be replaced Tyco Water Services offers a range of products to complete the job with minimal cost and disruption to the community.

Pipebursting is an effective option for replacing and upsizing pipes ranging in diameter from 100 mm to 600 mm. The existing

pipe is simply broken up and displaced into the surrounding soil before being replaced by a new pipe section.

Sliplining on the other hand sees the insertion of a smaller pipe within the existing pipeline and is effective for pipes ranging in size from 150 mm to 3,000 mm.

Tyco Water Services also offers a full range of civil works services focusing on open cut repairs and complete pipeline installations.

Pipeline inspection and condition assessment

Tyco Water Services offers a comprehensive range of options to identify any structural or technical problems within the pipeline system.

Tyco Water employs a full range of CCTV 'tractors' that travel inside a wide range of pipe types, providing a visual and data based analysis of the pipeline system.

Sonar surveys, on the other hand, provide a complete analysis of the pipes with ongoing medium to high water levels, allowing an accurate assessment of the extent of debris below the surface.

Laser profiling can also be used in concert with CCTV to provide an accurate location of any deformities in existing pipelines.

Pipeline cleaning

Tyco Water also provides a range of pipeline cleaning services, including high pressure cleaning trucks for all pipe sizes and chemical grouting that works to prevent problematic leaks and infiltrations into sewers and other pipeline systems.

Projects

Australian Projects

Tyco Water – securing Australia’s water supplies

Tyco Water has an enviable reputation as Australia’s premier pipeline supplier. Our reputation has been built on not just a commitment to innovation and new technology, but also our commitment to deliver outstanding service to clients in both the corporate and government sectors.

Our company’s track record stands alone. Think of a major water infrastructure project over the past few decades, and chances are Tyco Water has had a lead role.

Among the key projects Tyco Water has rolled out are:

South East Queensland Water Grid

As Queensland battled the worst drought on record, the State Government launched one of the largest water infrastructure projects in Australian history to secure water supply for the State’s south-east corner. The heart of the Water Grid has a complex network of pipeline projects produced with the help of Tyco Water. The company has produced steel pipes for key pipeline infrastructure, including the Western Corridor Recycled Water Scheme, the Southern Regional Water Pipeline, and the infrastructure associated with the Gold Coast desalination plant. To meet the strict timelines for these projects, Tyco Water introduced a 24-hour shift at its Wacol production plant west of Brisbane and literally produced hundreds of kilometres of steel pipe in record time.

Burdekin to Moranbah Pipeline

The 260-kilometre long Burdekin to Moranbah Pipeline in northern Queensland stands as one of the largest engineering feats in Australian pipeline history – and Tyco Water has been a key player in the project. Needed to secure water supplies, and in turn jobs and export dollars, this pipeline has provided a lifeline to the drought ravaged Bowen Basin coal industry. With its strong history in delivering results on major projects, the State-owned corporation SunWater selected Tyco Water to produce pipes, fitting and valves for this multi-million dollar project. Once again, Tyco Water ramped up its production to meet tight deadlines, delivering more than 3,000 truckloads of pipe for the project.

Olympic Dam

Western Mining Corporation’s Olympic Dam mine at Roxby Downs in South Australia is among the world’s largest copper and uranium mines. Such a large facility requires staggering amounts of water to service not just the mine, but the associated community – a problem not helped by the fact that the closest reliable source of groundwater is over 200 kilometres away. Tyco Water assisted in securing water supply by providing over 300 kilometres of pipe over the past decade. In that time Tyco Water has not just produced the necessary pipes, but has also taken on a design, construction and project management role.

Clare Valley

Providing a quality water supply for South Australia’s wine region communities, including Clare, Watervale, Mintaro and Leasingham, was the focus of the Clare Valley Water Supply system. The centrepiece of the project was an 80-kilometre pipeline that provides around 40 million litres of water to the region each day. With a view to deliver low cost and long service life, Tyco Water’s TYTONXCEL cement mortar lined ductile iron pipes were used throughout the project. The result is a water supply that not only supports the local communities, but has built economic growth across the region.

Stirling-Harvey Redevelopment Scheme

Perth, Western Australia, is the most isolated capital city in the world and faces unique challenges in meeting the infrastructure needs of a rapidly growing economy and population. To meet those demands, the Water Corporation of Western Australia launched the Stirling-Harvey Redevelopment Scheme that saw the construction of a major dam at Harvey, around 100 kilometres from Perth, which will be connected by pipeline to two other existing dams nearby. A trunk main 106-kilometre pipeline – built with Tyco Water’s steel pipeline system – now connects the new dam directly to the Perth suburb of Tamworth. Tyco Water’s SINTAKOTE steel pipe and fittings system were deemed ideal for the project, given the adverse and varied conditions the pipeline was required to traverse.

Our company's track record stands alone. Think of a major water infrastructure project over the past few decades, and chances are Tyco Water has had a lead role.



DN225 PVC pipe



Flange joint Steel fittings

International Projects

Tyco Water – taking Australian expertise to the world

Not only is Tyco Water regarded as Australia's premier supplier of pipeline systems, this Australian company has established a global reputation for excellence.

Over the past few years, Tyco Water has played a crucial role in a number of pipeline projects to help secure water supplies in some of the world's fastest growing economies and most difficult environments.

Those projects have been rolled out in a range of countries, including Singapore, Sri Lanka and the United Arab Emirates.

Sri Lanka

Tyco Water played a pivotal role in Sri Lanka's Integrated Water Supply Scheme for the Eastern Coastal Towns. This scheme brought much needed water to towns within the Ampara District. For this project, Tyco Water provided over 120 kilometres of ductile iron pipe, fittings, valves and accessories worth more than \$25 million.

The project saw Tyco Water form a close working relationship with both the Government of Sri Lanka and the National Water Supply and Drainage Board.

United Arab Emirates

Bringing water to this arid landscape will always be a challenge and Tyco Water has played a key role in a massive project to transport desalinated water from the capital Abu Dhabi to the eastern regions of the country. In total, Tyco Water has provided a staggering 13,000 SINTAKOTE steel pipes in more than 2,600 shipping containers for the project. The 12 metre, high-pressure pipes have been produced in Tyco Water's Australian plants in Perth and Brisbane and feature the peerless SINTAJoint rubber ring joint system that ensures a rapid installation process.

Singapore

The country of Singapore is now considered a global leader in the use of recycled water in order to supplement its water supply, traditionally pumped south from Malaysia. Tyco Water has assisted the Singapore government to build an ambitious network of pipes to transport treated water around the island. Tyco Water's Australian plants have produced more than 30 kilometres of large diameter SINTAPIPE® pipes for the project, at a cost of many millions of dollars.

Not only is Tyco Water regarded as Australia's premier supplier of pipeline systems, this Australian company has established a global reputation for excellence.



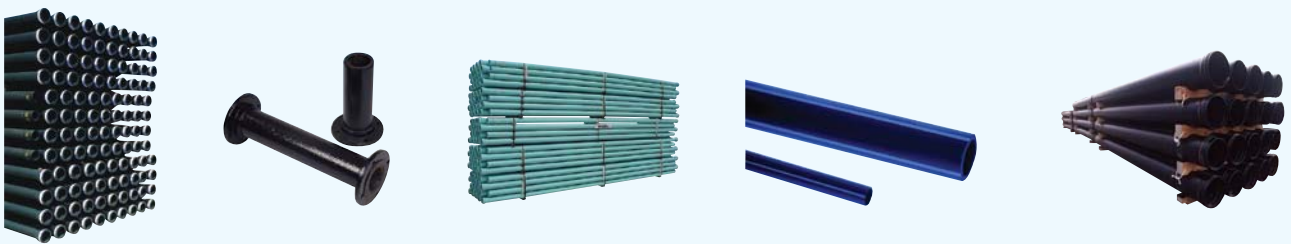
SINTAPIPE bound for Singapore NEWater projects



United Arab Emirates utilising the SINTAKOTE steel pipeline system

Products

Pipes



Fittings



Valves



Accessories



Customer Centre Locations

Adelaide

20 Taminga Street, Regency Park SA 5010
PO Box 644, Enfield Plaza SA 5085
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