

**tyco**  
*Water*

**ECO**  
S E R I E S  
DUCTILE IRON PIPELINE SYSTEMS

*your pipeline partner*

# ECO SERIES

The ECO Series is the latest in a number of exciting developments that will take TYTON ductile iron pipeline systems well beyond the 21st century.

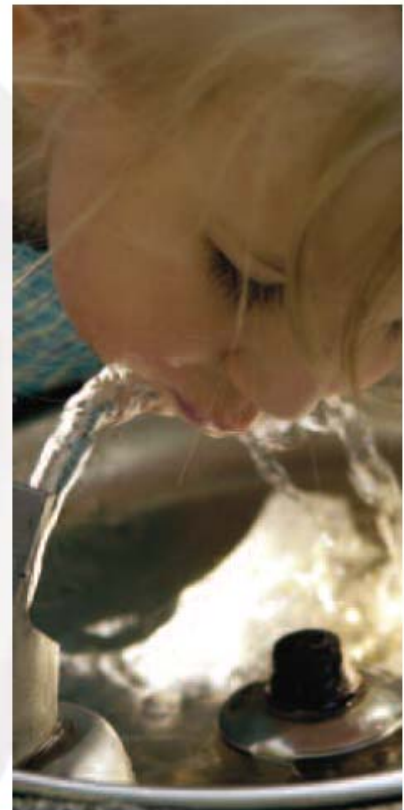
Over the past 40 years, there have been many significant developments in TYTON Ductile Iron Pipeline Systems covering the full spectrum of materials, manufacturing, quality assurance, products, services, feedback systems, design, distribution, along with handling & installation.

The ECO Series packages a range of products and services, which are new or have significant enhancements. For example, production improvements focused on statistical process control have yielded greater consistency in all product attributes.

The result? Clearly defined, differentiated pipe classes designed to meet evolving water industry needs.

## TYTONXCEL

Driven by pressure classification, TYTONXCEL is an exciting new concept in ductile iron pipe design reflecting state-of-the-art manufacture and evolving water industry needs.



By introducing pressure classes PN20 and PN35, TYTONXCEL provides efficiency gains and cost savings without sacrificing the time proven superior performance capabilities associated with ductile iron pipeline systems. TYTONXCEL delivers ...

- ... Increased bores • increased flows • reduced head loss • lower pumping costs,
- ... Decreased mass • more pipes per truck • faster laying
- ... Increased efficiency • reduced cost • more savings



## TYTONXTREME

Gravity sewers are one of the toughest environments in the water game.



H<sub>2</sub>SO<sub>4</sub> is a dark master. Other industries offer similar nasties, all handled by TYTONXTREME, including the extremes of pH and abrasion. It also carries extremes of pressure, from positive to negative, sealing in the nasties and keeping out infiltration. Peerless!

in axial and rotational movement. The pipeline's integrity is preserved and that vital water or sewer line remains uncompromised.

late commissioning and the nightmare of weak soils that cannot bear any pressure.

All these challenges can be overcome with the TYTON-LOK restrained joint system. TYTON-LOK is the key to fast track design and construction of ductile iron pipeline systems.

## BLUEBOSS®

Sleeving is the most cost effective means of corrosion control\*. Continued improvements including the move to



Linear  
Low Density  
Polyethylene,  
CENTURY PLUS and

## TYTON-LOK

Would you like to eliminate thrust blocks? ... realise construction savings in time and materials?

## TYTONXTEND

When it comes to mine subsidence, embankment slippage, soil settlement or ground movements, TYTONXTEND



is without comparison. Based on the quintessential TYTON® pipe joint, TYTONXTEND incorporates an extended socket throat, accommodating erratic and unpredictable ground strain



Imagine ... negotiating crowded service trenches, meeting impossible deadlines for hydrotesting, avoiding

\* 'Polyethylene Encasement - Effective, Economical Protection for Ductile Iron Pipe in Corrosive Environments.' Ductile Iron Pipe Research Association, POLYTECH 2000

PIQS, have bolstered its reputation. Enter BLUEBOSS, the new generation of LPS. Formulated with metallocenes, BLUEBOSS is tougher, with higher tensile and impact strength combined with higher resistance to ultra violet radiation. This latest system offers even more security for ductile iron pipelines in creating an environment to stifle corrosion. An environment for a lifetime!

## HYDROLINE®

Hydroline is a registered name for a family of linings that protect and enhance the bore of ductile iron pipeline systems. They range from



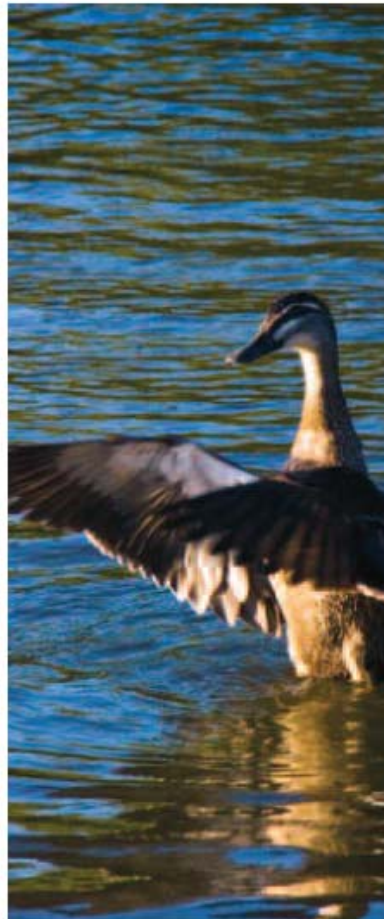
proven systems such as ordinary Portland cement and bituminous coatings to new developments such as calcium aluminate cement and polymeric coatings for aggressive conveyants.

The bottom line of these developments has been reduced costs, increased benefits and increased customer satisfaction.

Well, the story doesn't end there. We're more determined than ever to communicate our latest developments to our customers and see that the benefits flow on.

## CENTURY PLUS II

Installation is the life and death of a product. Unskilled installation exacerbated by poor Quality Assurance means the premature demise of a pipeline. Century Plus II is a powerful combination of Century Plus further reinforced by PIQS, a Pipeline Installation Quality System, and a public register of Century Plus accredited pipe layers. There is no equal in the water industry.





Quality Endorsed Company  
ISO 9001 Licensed  
SAI Global

## Standards

TYTONXCEL, TYTONXTREME and TYTONXTEND pipes are manufactured in accordance with AS/NZS 2280 and are StandardsMark

certified. The Tyco Water Yennora Manufacturing Facility is a Quality Endorsed Company licensed by SAI Global to ISO 9001.

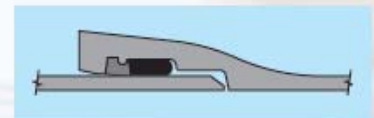
## ISO 14001

The Yennora Manufacturing Facility is also certified to ISO 14001 by SAI Global. The facility operates an environmental management system (EMS) on elements that it controls and influences. It implements, maintains and improves the EMS to ensure conformance with its own stated environmental policy.

Compliance with environmental laws and regulations is demonstrated and an external third party organisation certifies compliance with the Standard. ISO 14001 is an internationally recognised system for environmental management and is a key plank in Tyco Water's business management.

## TYTON pipe and TYTON fittings rubber ring joint

The TYTON rubber ring push-in joint is the most robust flexible pipe joint available. It features a single, specially shaped rubber gasket, in which the heel of hardened rubber locates and



anchors itself in the groove of the TYTON pipe socket. The rubber ring also has a sealing bulb of softer rubber, firmly bonded to the heel. This achieves the required seal against the inserted pipe spigot. This tried and proven jointing system has been used worldwide for more than 50 years.

## Striving for a greener future



Ductile Iron Pipeline Systems are a significant contributor to the sustainability of our environment. Both pipes and fittings are manufactured from 100% scrap steel. By turning this scrap into assets using less energy we're contributing to the minimisation of greenhouse gas emissions.



## Regional Marketing Offices

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## Features of Tyco Water's Ductile Iron pipes

- ✓ low VOC acrylic coating applied to the pipe
- ✓ all input metal is 100% recycled
- ✓ recycled scrap metal is locally sourced within Australia
- ✓ lightweight and easy to handle
- ✓ engineered to suite the application and materially efficient
- ✓ greater freight efficiencies
- ✓ larger pipe bores allowing more flow
- ✓ high G force lining giving a smooth pipe bore
- ✓ larger and smooth bore offers lower pumping costs
- ✓ made from high strength ductile iron
- ✓ can handle cyclic loads, surges & pressure transients
- ✓ allows efficient and shallower trench designs
- ✓ fast speed construction with rubber ring joints
- ✓ fast and efficient restrained joint products
- ✓ restraint joint products can eliminate concrete blocks
- ✓ long life and reliable pipeline system
- ✓ low lifecycle cost pipeline system solutions
- ✓ made in Australia by Australians for our conditions



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