

SINTAJOINT® STEEL PIPELINE SYSTEM

RUBBER RING JOINT PIPE FOR POTABLE WATER, RAW WATER, AND SEWAGE RISING MAIN APPLICATIONS



FEATURES

Extremely fast installation speeds

- Fastest pipe lay rates
- No additional joint corrosion protection required
- Sintakote® fusion bonded medium density polyethylene provides external corrosion protection in aggressive soils
- Electrically insulated joints
- Fully protected joint internally for aggressive fluids

Suitable for both buried and above ground installations, the Sintajoint Steel Pipeline System is primarily used for the transmission of pressure potable, raw water, wastewater and sewage rising mains

DESCRIPTION

The rubber ring joint eliminates welding and associated weld hole excavation

Field assembly is rapid – the easy, push-in joint and longer pipes of 12.2 or 13.37 metres effective length maximises laying rates and minimises construction costs. Sintajoint is also available in shorter lengths

No field heatshrink or sleeving. No application or reinstatement of cement mortar corrosion protection is necessary, either internally or externally

Joints can accommodate larger angular rotations of up to 3 degrees in both horizontal and vertical planes, while maintaining full seal pressures up to 4.25MPa, depending on diameter

The Sintajoint flexible steel pipeline system incorporates factory applied, total corrosion protection to ensure an extended trouble free service life

Due to its insulating properties, the joint is ideal for applications where induced current may be a design consideration. Cathodic protection is also available

COMPLETE PROTECTION

External barrier protection is achieved with Sintakote® fusion bonded medium density polyethylene in thicknesses ranging from 1.8 to 2.3mm dependent on pipe diameter

Full corrosion protection of the steel pipe is achieved by extending the Sintakote coating around both spigot and socket ends to underlap the cement mortar lining

Internally, a smooth, dense, centrifugally spun cement mortar lining provides active protection against corrosion

DEEP ENTRY SINTAJOINT

To accommodate abnormal angular rotation and axial displacements, rubber ring joints can be supplied with a modified socket profile featuring a deeper, wider throat

This joint is suited to mine subsidence areas where ground strain can be high, typically in the range of 3 to 7mm/m

TECHNICAL DATA

Size Range 324 to 1829mm

Wall Thickness Up to 12mm

Joint Deflection Up to 3°
depending on diameter

Rated Pressures Up to PN 42.5

Temperature Range -40° to 70°C

STANDARDS

AS 1579 - welded steel pipes and fittings for water and wastewater

AS 4020 - Water contact approval

AS 4321 - Fusion bonded medium density polyethylene coating and linings for steel pipes

AS1281 - Cement mortar lining of steel pipes

AS/NZS 1594 - Hot rolled steel flat products

“Best for straight runs, where high installation rates can be achieved”

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SINTAKOTE® EXTERNAL PROTECTION

Sintakote is a medium density black polyethylene coating applied directly to the steel pipe using a fusion bonding process

Sintakote is ideally suited to below ground applications, including sub-sea installations such as the protection of tubular steel wharf piling

With its excellent chemical and mechanical strength Sintakote should provide a 100 year buried pipe design life, when correctly installed. Sintakote is ideally suited to aggressive conditions such as acid sulfate soils

CEMENT MORTAR & CALCIUM ALUMINATE CEMENT LININGS

Internally a smooth, dense, high radial acceleration, centrifugally spun cement mortar lining provides active protection against corrosion. The high radial rotation and simultaneous vibration of Steel Mains cement mortar linings produces a very dense, smooth lining of extremely low permeability

The dense cement actively protects the carbon steel due to the chemistry at the cement and steel interface. This is achieved by creating a high pH environment, typically pH12 at the steel-mortar interface. A passive film is formed at the surface that inhibits oxidation of the pipe surface

Calcium Aluminate Cement Mortar Lining is used when conveying aggressive fluids in sewage and wastewater pipelines

SINTAPIPE® FOR AGGRESSIVE APPLICATIONS

Sintapipe incorporates Sintakote medium density fusion bonded polyethylene applied to both the external and the bore of steel pipes in conjunction with the Sintajoint rubber ring joint.

Sintapipe is ideal for aggressive water applications such as high CO₂, septic sewage, trade wastes and highly saline waters

Sintapipe can operate at temperatures up to 50°C



HOCKEY STICK SINTAJOINT PIPES

These Sintajoint pipes feature a rubber ring jointed socket offset at angles up to 15°. Coupled with the existing angular deflection of the joint—up to 3° depending on diameter—significant changes in direction can be effected by using several hockey sticks in sequence

THRUST BLOCKS

Steel Mains has a complete range of welded socket and spigot ended pipes and fittings to complement the Sintajoint Pipeline System

These special ended pipes and fittings enable welded restrained bends to be integrated into the Sintajoint pipeline system with minimum time and effort. This eliminates the need for on-site fabrication or using expensive and cumbersome thrust blocks



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