

# Specification Guide

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**Product Group:** Pipex Pipe Systems

**Product Type:** Chemsafe – Single Contained

**Specification:** PX-PS-CS-02

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## Pipex Chemical Drainage Piping Systems

Pipex chemical piping systems for the transmission of foul and surface water, corrosive fluids and gas as well as venting applications; dual contained pipe is available for more corrosive and secure containment applications. Pipe packages are available for a large range of industrial applications both above and below ground and available in a range of thermoplastic materials to provide the necessary temperature and corrosion resistant properties. Pipe and fittings sizes range from 110 outside diameter through to 450mm outside diameter, please refer to Fiber Glass Systems (FGS) CAD details for the complete range sizes.

Bespoke pipe systems are factory prefabricated wherever possible to significantly reduce site installation time.

Fully welded, chemically resistant, bio-secure pipe packages improve flow characteristics due its smooth internal bore. Faster flow velocities allow for shallower gradients whilst maintaining self-cleansing properties.

## Pipe Detail Drawings

CAD detail drawings based on the consultants' drainage design will be submitted by FGS for approval by the client. Drawings details will indicate pipe outside diameter, nominal bore, fall and the itemised factory welded prefabricated units.

## Thermoplastic Materials of Construction

Pipex chemical pipework packages are manufactured from a range of thermoplastics to provide the necessary temperature and chemical resistant properties, including:

Homopolymer Polypropylene Din 8077 & 8078

HDPE Din 8075 & 8074

PVDF ISO 10931

Please contact us for project specific design information.

## Methods of Construction

Thermoplastic welding in accordance with BSEN12814-1:2000

Testing of welded joints of thermoplastics semi-finished products.

Welding personal to have undertaken the thermoplastic welding test and obtained FGS thermoplastic welding certification to BSEN12814-1:2000.

## British Standard Specification

Dimensions to be BS4991:1978 - Din 8077 & 8078 Part 1. Materials to BS EN 1852.

## Testing

Prefabricated units are to be tested at the works place of prefabrication and associated test certificates issued. Testing of stacks and branch waste pipe work to be in accordance with air testing procedures. As defined in BS 8301 & BS 5572. Pipe work to be tested in accordance with manufactures recommendations a method statement shall be submitted for approval prior to testing.

## Site Jointing

We can supply field service operatives to perform the site welded joints. Options for site joints include butt fusion, socket fusion, electro fusion, 'O' ring socket and mechanical couplings. Contact us for correct method of jointing.

## Installation

The system is supplied to site as itemised prefabricated spools. Where required a detailed drawing of the pipe work arranged will be issued, locating the position of the itemised spools.

Please refer to the FGS Standard Operating Instruction SOI - PXT - 30 for below ground installation and SOI - PXT - 21 for above ground installation.

## Operation and Maintenance

When installed to FGS installation instructions the piping system will operate with minimum maintenance.

Due to the nature of the thermoplastic construction materials the pipe and fittings will resist the build-up of Fats, Oils and Greases (FOG). If rodding is required use polypropylene rods. The pipe system can be jetted as per WRc jetting standard.

If alterations to the pipe work system are required us will be contacted to discuss the procedure.

## Product Options Available

### Dual Contained Chemical Drainage Piping Systems

Suitable for more corrosive applications and where an increased level of containment security is required, contact FGS for further information.

### Chemical Pressure Piping Systems

Available up to and including 800mm diameter, specialist manufacturing methods provide a higher working pressure for the pipe work system. Contact FGS for further information.

## Laboratory Waste pipe Systems

Specialist range of small-bore pipe and fittings. Contact us for further information.

## For Technical Assistance please contact:

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