

# COMBINATIONS

## TECHNICAL DATA

### SINTAKOTE® STEEL PIPELINE SYSTEMS



Steel Mains Steel Pipeline System is available across a full size range and can be tailor-made to suit specific design parameters.

Combinations are multiple fittings, joined at the manufacturing facility, to reduce on-site assembly, welding and reinstatement. The limitation on 'Combined Fittings' is determined by overall dimensions for transport purposes.

The fabricated fitting is 100% non-destructively tested and complies to AS 1579.

SINTAKOTE is the recommended coating for pipe and fittings for the Steel Mains Steel Pipeline System and complies to AS 4321. Alternative coatings are available where reduced operating life of the pipeline is permissible.

Cement Mortar Lining (CML) is the recommended lining for the Steel Pipeline System pipe and fittings and complies to AS 1281. Alternative lining systems are available where required.

Special considerations to the jointing and the pipeline system's capabilities need to be confirmed with Pentair prior to proceeding with design.

- Consult the Steel Mains Steel Pipeline Systems Design manual for design information
- Check with Steel Mains on material availability prior to placing orders

### GENERAL APPLICATION

Steel Mains Combinations for Steel Pipeline Systems are suitable for use with potable water and waste water in above and below ground applications.\*

For special application requirements, beyond what is specified in this datasheet, please contact Steel Mains.

\*Only applies to Steel Mains recommended coating and lining systems. Please consult the design manual for further details.

### TECHNICAL DATA

#### Size Range

114mm to 2500mm diameter

#### Operating Pressures

Maximum 3500kPa

#### Maximum Velocities

6m/s for cement lined fittings

#### Operating Temperatures

-40°C to 70°C

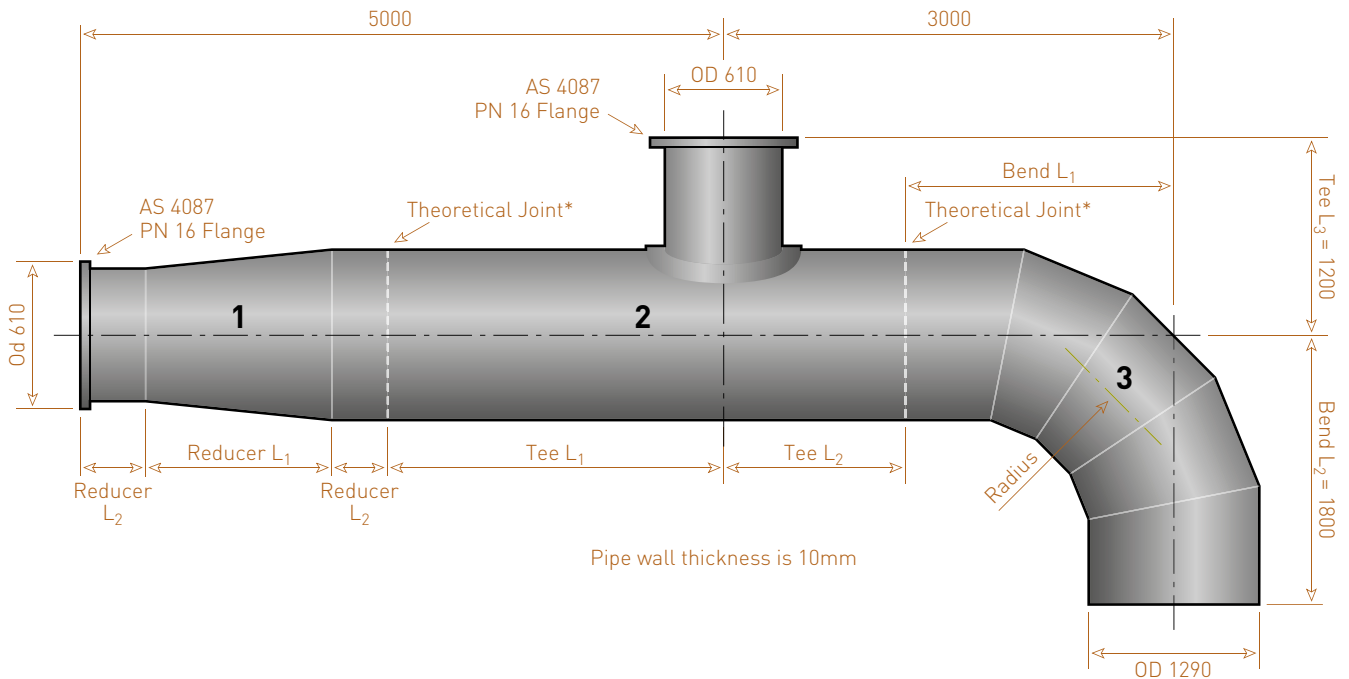
#### Certifications

AS/NZS ISO 9001

AS/NZS 4020

AS 1579 Standards Mark

## IDENTIFICATION OF COMBINATIONS



## TYPICAL SPECIFYING SEQUENCES FOR A STEEL MAINS COMBINATION FITTING

### FITTING N°1 - REDUCER

Refer to Steel Mains Reducers datasheet.

1	Reducer type	Concentric
2	End type	Flange-Plain <sup>1</sup>
3	Pressure	PN 16
4	Large diameter	1290mm
5	Wall thickness	10mm
6	Small diameter	610mm
7	External coating	SINTAKOTE
8	Internal lining	Cement mortar lining
9	Reducer length	4.5 x (1290-610) = 3060mm
10	Tail lengths L <sub>2</sub>	End 'B' = 150mm End 'A' = 200mm

REDUCER IDENTIFICATION:

**YRCP11C90A610SC**

### FITTING N°2 - TEE

Refer to Steel Mains Tees datasheet.

1	Tee type	Branch tee
2	Pressure	PN 16
3	End type	Plain1-Plain <sup>1</sup> -Flange
4	Diameter (pipe)	1290mm
5	Wall thickness	10mm
6	Branch diameter	610mm
7	External coating	SINTAKOTE
8	Internal lining	Cement mortar lining
9	Length 1 (L <sub>1</sub> )	Not required <sup>2</sup>
	Length 2 (L <sub>2</sub> )	Not required <sup>2</sup>
	Length 3 (L <sub>3</sub> )	= 1200mm

TEE IDENTIFICATION:

**YT1PP1C90A610SC**

### FITTING N°3 - BEND

Refer to Steel Mains Bends datasheet.

1	Number of cuts	4
2	End type	Plain <sup>1</sup> -Plain
3	Radius	1.8 x diameter
4	Diameter	1290mm
5	Wall thickness	12mm
6	External coating	SINTAKOTE
7	Internal lining	Cement mortar lining
8	Angle	90 degrees
9	Length (L <sub>1</sub> )	Not required <sup>2</sup>
	(L <sub>2</sub> )	= 1800
10	Pressure	PN 16

BEND IDENTIFICATION:

**YB4PPF1290BSCSC**

A benefit of factory manufactured Combination Fittings is that 'Theoretical Joints' are not required. This results in both reduced cost and site work for our customers.

Notes. 1. Theoretical Joints are specified as plain ends.  
2. Theoretical joints generally do not require dimensioning.



### STEEL MAINS PROPRIETARY LIMITED

125-127 PATULLOS LANE, SOMERTON, VICTORIA 3062 / WWW.STEELMAINS.COM  
PHONE +61 (0)3 9217 3110 / EMAIL MARKETING@STEELMAINS.COM

All Steel Mains trademarks and logos are owned by Steel Mains Proprietary Limited. All other brand or product names are trademarks or registered marks of their respective owners. Because we are continuously improving our products and services, Steel Mains reserves the right to change specifications without prior notice. SMCOMTD0515 © 2015 Steel Mains Proprietary Limited. All Rights Reserved.