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 No1 - Reducer
Refer to Steel Mains Reducers datasheet.
1 Reducer type Concentric
2 End type Flange-Plain
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 L2 End 'B' = 150mm End 'A' = 200mm

Fitting No2 - Tee
Refer to Steel Mains Tees datasheet.
1 Tee type Branch tee
2 Pressure PN 16
3 End type Plain-Plain - Flange
4 Diameter (pipe) 1290mm
5 Wall thickness 10mm
6 Branch diameter 610mm
7 External coating SINTAKOTE
8 External lining Cement mortar lining
9 Length 1 (L1) Not required
10 Length 2 (L2) Not required
11 Length 3 (L3) = 1200mm
12 Pressure PN 16

Fitting No3 - Bend
Refer to Steel Mains Bends datasheet.
1 Number of cuts 4
2 End type Plain-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 1 (L1) Not required
10 Length 2 (L2) = 1800
11 Pressure PN 16

Reducer Identification: YRCP11C90A610SC
Tee Identification: YT1PP1C90A610SC
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.