Steel Mains Steel Pipeline System is available across a full size range and can be tailor-made to suit specific design parameters. Bifurcates are also known as Y-pieces. They are manufactured from fabricated plate and/or pipe depending on diameters required. The angle between branches is 45 degrees. 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 offered 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 Steel Mains 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 Bifurcates 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 mortar lined fittings

Operating Temperatures
-40°C to 70°C

Certifications
AS/NZS ISO 9001
AS/NZS 4020
AS 1579 Standards Mark
IDENTIFICATION OF BIFURCATES

SPECIFYING BIFURCATES

1 - Pressure
Determine the pressure requirements for the bifurcate - PN Rating (e.g. PN 16 - equivalent to 1600KPa, 16 Bar or approximately 160 metres of head)

2 - End type
Specify the end types ['A', 'B' and 'C'] - Flange, etc.
Specify paint system for flanges, if applicable. Inorganic zinc paint is included as standard

3 - Diameter
Nominate the outside steel shell diameter required for End 'A', normally to suit the main pipeline diameter

4 - Wall thickness
Determine the wall thickness of the main pipe (normally to suit the pipe wall thickness) - tp. (Stress Concentration factors need to be taken into consideration).

5 - Branch diameter
Nominate the outside steel shell diameter required for the branches for End "B" and End "C".

6 - External coating
Specify the external coating of the bifurcate. SINTAKOTE® is the recommended external coating

7 - Internal lining
Specify the internal lining of the bifurcate. Cement mortar lining is the recommended internal lining

8 - Length
Specify the length series:
- Length 1 (L1 - waist length)
- Length 2 (L2 - branch length)

9 - Additional component
To add any additional fittings component to the bifurcate, refer to Steel Mains Steel Fitting ‘Combinations’ datasheet