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

Tees are generally manufactured from pipe depending on diameter and wall thickness required.

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 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 Tees 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
SPECIFYING TEES

1 - Tee type
Determine type: branch tee, invert branch (scours).
Note: Angle of tee branches is 90 degrees. For angle tees see ‘Angle Tees’

2 - Pressure
Determine the pressure requirements for the tee - PN rating, e.g.
PN 16 - equivalent to 1600KPa, 16 Bar or approximately 160 metres of head

3 - End type
Specify the end types ('A' and 'B') and the branch end:
- Plain
- RRJ Spigot
- RRJ Socket
- Flange, etc.
Specify paint system for flanges, if applicable. Inorganic zinc paint is included as standard

4 - Diameter
Specify the outside steel shell diameter of main pipe - Pipe OD, normally to suit the pipeline diameter

5 - Wall thickness
Determine the wall thickness of the main pipe (normally to suit the pipe wall thickness) - \( t_p \) (stress concentration factors need to be taken into consideration)

6 - Branch diameter
Specify the outside steel shell diameter of branch - Branch OD

7 - External coating
Specify the outside coating of the tee. SINTAKOTE® is the recommended external coating

8 - Internal coating
Specify the internal lining of the tee. Cement mortar lining is the recommended internal lining

9 - Length
Specify the length series:
- Length 1 (L1)
- Length 2 (L2)
- Length 3 (L3 - branch height)

10 - Additional component
Adding any additional fittings component to the tee - refer to the Steel Mains Steel Fittings ‘Combinations’ datasheet