

TEES

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.

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

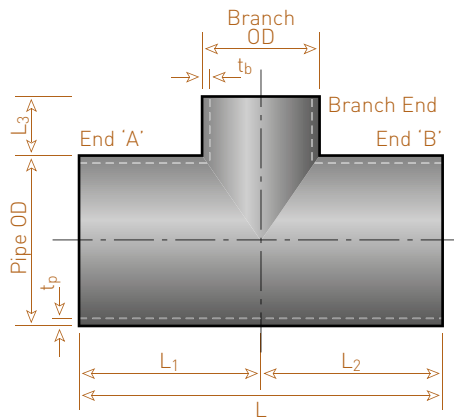
Certifications

AS/NZS ISO 9001

AS/NZS 4020

AS 1579 Standards Mark

IDENTIFICATION OF TEES



Steel fitting	Tee	Tee type	End 'A' type	End 'B' type	Branch end type	Main pipe diameter mm	Wall thickness	Branch diameter mm	Coating	Lining	
Y	T	1	P	P	P	960	5	273	S	C	
Tee type		Diameters		External coating				Internal coating			
1	Tee - 1600 KPa	From	To	S	Sintakote			C	Cement mortar		
2	Tee - 2100 KPa	<999	0	999	U	Uncoated			S	Sintakote	
3	Tee - 3500 KPa	Axx	1000	1099	P	Painted			U	Uncoated	
5	Invert tee - 1600 KPa	Bxx	1100	1199	G	Galvanised			P	Painted	
6	Invert tee - 2100 KPa	Cxx	1200	1299	X	Special coating ³			G	Galvanised	
5	Invert tee - 3500 KPa	Dxx	1300	1399					X	Special coating ³	
X	Special ¹	Exx	1400	1499					D	Cement mortar + Sealcoat	
		Fxx	1500	1599					X	Special coating ³	
		Gxx	1600	1699							
		Hxx	1700	1799							
		Ixx	1800	1899							
		Jxx	1900	1999							
		Kxx	2000	2099							
		Lxx	2100	2199							
		Mxx	2200	2299							
		Nxx	2300	2399							
		Oxx	2400	2499							
		Pxx	2500	2599							
		Wall thickness									
		5	5mm wall								
		6	6mm wall								
		8	8mm wall								
		A	10mm wall								
		B	12mm wall								
		C	16mm wall								
		D	20mm wall								
End types											
P	Plain end										
S	Slip-in joint - SO ⁴										
T	Slip-in joint - SP ⁵										
R	Rubber ring joint - SO ⁴										
U	Rubber ring joint - SP ⁵										
B	Ball & Socket										
A	Ball & Socket ball										
X	Coupling end										
C	AS2129-Table C										
D	AS2129-Table D										
E	AS2129-Table E										
F	AS2129-Table F										
H	AS2129-Table H										
1	AS4087-PN16										
2	AS4087-PN21										
3	AS4087-PN35										
X	Special end type ²										

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 external coating of the tee. SINTAKOTE® is the recommended external coating

8 - Internal lining

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



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