

ANGLE 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.

Angle 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 Angle 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

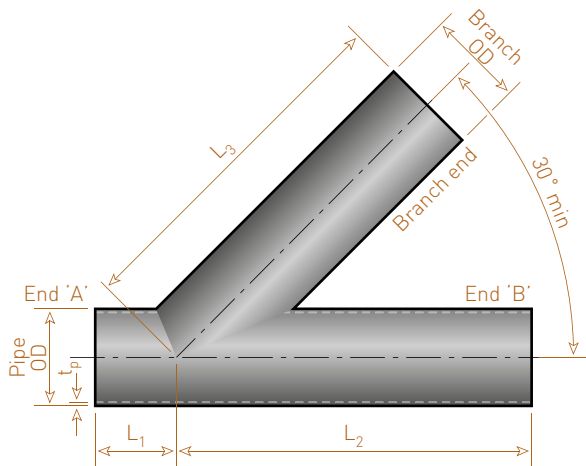
Certifications

AS/NZS ISO 9001

AS/NZS 4020

AS 1579 Standards Mark

IDENTIFICATION OF ANGLE TEES



Steel fitting	Angle tee	Tee type	End 'A' type	End 'B' type	Branch end type	Main pipe diameter mm	Main pipe wall thickness	Branch diameter mm	Coating	Lining	
Y	A	1	P	P	P	960	5	273	S	C	
Tee type		Diameters		External coating							
1	Tee - 1600 KPa	From	To	S	Sintakote						
2	Tee - 2100 KPa	<999	0	999	U	Uncoated					
3	Tee - 3500 KPa	Axx	1000	1099	P	Painted					
X	Special ¹	Bxx	1100	1199	X	Special coating ³					
End types											
P	Plain end									Internal coating	
S	Slip-in joint - SO ⁴									C	
T	Slip-in joint - SP ⁵									S	
R	Rubber ring joint - SO									U	
U	Rubber ring joint - SP	Kxx	2000	2099					P		
B	Ball & Socket - SO	Lxx	2100	2199					D		
A	Ball & Socket ball	Mxx	2200	2299					X		
X	Coupling end	Nxx	2300	2399							
C	AS2129-Table C	Oxx	2400	2499							
D	AS2129-Table D	Pxx	2500	2599							
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										
Wall thickness											
5	5mm wall										
6	6mm wall										
8	8mm wall										
A	10mm wall										
B	12mm wall										
C	16mm wall										
D	20mm wall										

SPECIFYING ANGLE TEES

1 - 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

2 - 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

3 - Diameter

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

4 - 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)

5 - Branch diameter

Specify the outside diameter of branch - Branch OD

6 - External coating

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

7 - Internal lining

Specify the internal lining of the angle tee. Cement mortar lining is the recommended internal lining

8 - Length

Specify the length series:

- Length 1 (L_1)
- Length 2 (L_2)
- Length 3 (L_3 - branch height)

9 - Angle

Specify the angle in degrees of the branch. The minimum angle is 30 degrees $\pm 1^\circ$ measured at the end of the tee

10 - Additional component

Adding any additional fittings component to the angle tee, refer to Steel Mains Steel Fittings Combinations datasheet



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