

SPOOLS

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.

Spools 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 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 Spools 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

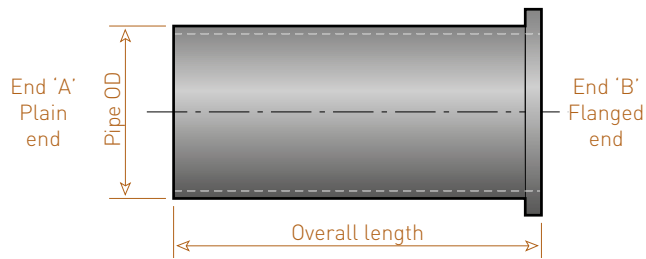
Certifications

AS/NZS ISO 9001

AS/NZS 4020

AS 1579 Standards Mark

IDENTIFICATION OF SPOOLS



Steel fitting	Spool	End 'A' type	End 'B' type	Pressure	Pipe diameter mm	Wall thickness	Length range mm	Coating	Lining	
Y	P	P	P	1	2 8 0	5	9 5 0 0	U	C	
End types					Diameters		Length			
P	Plain end				From To		From To			
S	Slip-in joint - SO				<999	0 999	<9999	0 9999		
T	Slip-in joint - SP				Axx	1000 1099	Axxx	10000 1999		
R	Rubber ring joint - SO ⁴				Bxx	1100 1199	Bxx	12000 12999		
U	Rubber ring joint - SP ⁵				Cxx	1200 1299	Cxx	13000 13999		
B	Ball & Socket - SO				Dxx	1300 1399	Dxx	15000 15999		
A	Ball & Socket ball				Exx	1400 1499	Exx	17000 17999		
X	Coupling end				Fxx	1500 1599				
C	AS2129-Table C				Gxx	1600 1699				
D	AS2129-Table D				Hxx	1700 1799				
E	AS2129-Table E				Ixx	1800 1899				
F	AS2129-Table F				Jxx	1900 1999				
H	AS2129-Table H				Kxx	2000 2099				
1	AS4087-PN16				Lxx	2100 2199				
2	AS4087-PN21				Mxx	2200 2299				
3	AS4087-PN35				Nxx	2300 2399				
X	Special end type ¹				Oxx	2400 2499				
					Pxx	2500 2599				
Reducer pressure					Wall thickness					
1	Spool - 1600 KPa				5	5mm wall				
2	Spool - 2100 KPa				6	6mm wall				
3	Spool - 3500 KPa				8	8mm wall				
					A	10mm wall				
					B	12mm wall				
					X	Special WT ²				
							External coating			
							S Sintakote			
							U Uncoated			
							P Painted			
							X Special coating ³			
							Internal coating			
							C Cement mortar			
							S Sintakote			
							U Uncoated			
							P Painted			
							D Cement mortar + Sealcoat			
							X Special coating ³			

SPECIFYING SPOOLS

1 - End type

Specify the end types ('A' and 'B') on the spool:

- Plain
- RRJ Spigot
- RRJ Socket
- Flange, etc.

Specify paint system for flanges, if applicable. Inorganic zinc paint is included as standard

2 - Pressure

Determine the pressure requirements for the spool

- PN rating, (e.g. PN 16
- equivalent to 1600KPa, 16 Bar or approximately 160 metres of head)

3 - Diameter

Nominate the outside steel shell diameter required (pipe diameter - OD)

4 - Wall thickness

Determine the wall thickness of the spool (normally to suit the main pipeline wall thickness)

5 - Length

Specify the overall length

6 - External coating

Specify the external coating of the spool. SINTAKOTE® is the recommended external coating

7 - Internal lining

Specify the internal lining of the spool. Cement mortar lining is the recommended internal lining

8 - Additional component

To add any additional fittings component to the spool, refer to Steel Mains Steel Fittings 'Combinations' datasheet

- 1 - Specify special end type requirements
- 2 - Specify wall thickness
- 3 - Specify special coating requirement details
- 4 - Socket
- 5 - Spigot



STEEL MAINS PROPRIETARY LIMITED

125-127 PATULLOS LANE, SOMERTON, VICTORIA 3062 / WWW.STEELMAINS.COM
PHONE +61 (0)3 9217 3110 / EMAIL MARKETING@STEELMAINS.COM

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