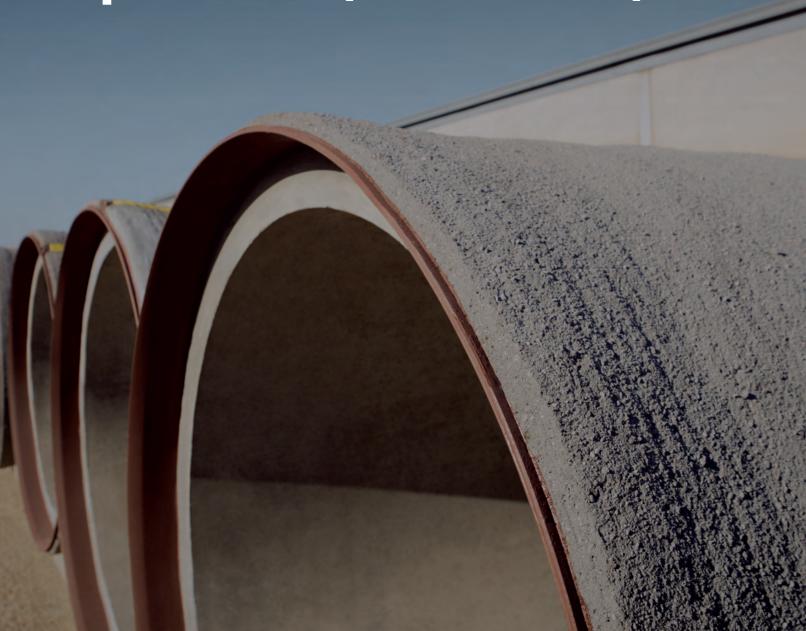


Prestressed Concrete Cylinder Pipe – Lined (AWWA C301)



engineered for your specific requirements • safely handles specified pressures & loads dependable O-ring gasket joints • economical & reliable

L-301

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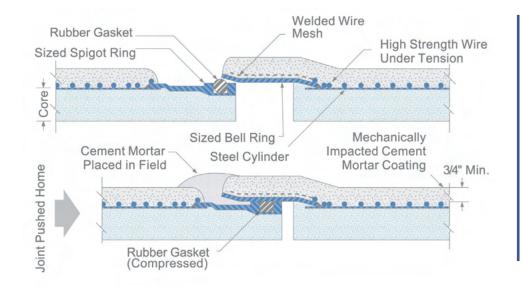
Concrete structures are prestressed when predetermined compressive stresses are applied to them to counter future tensile stresses as a result of expected loads.

In Prestressed Concrete Lined Cylinder Pipe (L-301), prestressing is achieved by helically wrapping, under measured tension and at uniform spacing, a high tensile-strength wire around the concrete-lined steel cylinder. This wire wrap places concrete core in compression, developing the pipe's ability to withstand combined loading of the specified hydrostatic pressure(s) and external load(s) with a safety factor comparable to other waterworks piping materials.

Concrete's high compressive strength and steel's high tensile strength are combined to form an elastic composite structure.

| AWWA C301 Pipe Data Sheet (For lined cylinder pipe made in U.S.) | | | | |
|--|---|-------------------------------------|------------------------------|-------------------------------|
| inside pipe diameter* | core thick- ness including cylinder | nom. outside diameter at bell | weight per lineal foot | standard laying length* |
| 16" | 1" | 22 1/2" | 120# | 20' - 24' |
| 18" | 1 1/8" | 24 3/4" | 150# | 20' - 24' |
| 20" | 1 1/4" | 27" | 175# | 20' - 24' |
| 24" | 1 1/2" | 31 1/2" | 230# | 20' - 32' |
| 27" | 1 11/16" | 35" | 285# | 20' - 32' |
| 30" | 1 ⁷ / ₈ " | 38 1/4" | 330# | 20' - 32' |
| 33" | 2 1/16" | 43 1/4" | 390# | 20' - 32' |
| 36" | 2 1/4" | 45" | 445# | 20' - 24' |
| 39" | 2 7/16" | 47" | 515# | 20' - 24' |
| 42" | 2 5/8" | 51 ¹/₄" | 575# | 20' - 24' |
| 48" | 3" | 58" | 725# | 16' - 20' |

Note: *Availability of diameters and laying lengths varies by location. Contact your sales representative for more information.



Joint Closure

The circular O-ring gasket manufactured by Thompson Pipe Group – Pressure provides a highly dependable positive joint seal. Made of high-quality synthetic rubber, extruded to exacting tolerances and measured volumetrically, the compressed gasket fills and is confined within an accurately shaped spigot groove.