



# Prestressed Concrete Cylinder Pipe – Lined (AWWA C301)



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

1003 MacArthur Blvd. Grand Prairie, TX 75050 | 972.262.3600 | [www.thompsonpipegroup.com](http://www.thompsonpipegroup.com)

# L-301

## Prestressed Concrete Cylinder Pipe – Lined (AWWA C301)

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.

