

E-301 PRESTRESSED CONCRETE CYLINDER PIPE (AWWA C301) (U.S.)



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

In Prestressed Concrete Embedded Cylinder Pipe (E-301), prestressing is achieved by helically wrapping, under measured tension and at uniform spacing, a high tensile strength wire around the concrete core. This wire wrap places the concrete core and the embedded cylinder in compression, developing the pipe's ability to withstand specified hydrostatic pressures and external loads 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 structure. This feature allows the pipe to perform even if the design working loads are exceeded.

AWWA C301 Pipe Data Sheet (For embedded cylinder pipe made in U.S.)			
inside pipe diameter*	max. outside diameter at bell	weight per lineal foot	Standard laying lengths*
54"	64"	1010#	20'
60"	70 1/2"	1240#	20'
66"	78"	1500#	16'/20'
72"	84 1/2"	1780#	20'/24'
78"	90 1/2"	2060#	20'
84"	96 1/2"	2390#	20'
90"	103 1/2"	2540#	20'
96"	111"	2700#	16'/20'
102"	118"	2990#	16'/20'
108"	124"	3150#	16'/20'
114"	131"	3530#	16'/20'
120"	138"	3930#	16'/20'
126"	144"	4450#	12'
132"	151"	4550#	12'
138"	158"	4990#	12'
144"	164"	5350#	12'/16'

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

JOINT CLOSURE: TPG Pressure's circular O-ring gasket provides a highly dependable positive joint seal. Made of high-quality synthetic rubber, extruded to exacting tolerances and measured volumetrically, the gasket fits within an accurately shaped spigot groove.





