



**American Water Works
Association**

Dedicated to the World's Most Important Resource®

ANSI/AWWA C302-16
(Revision of ANSI/AWWA C302-11)

AWWA Standard

Reinforced Concrete Pressure Pipe, Noncylinder Type

Effective date: Jan. 1, 2017.

First edition approved by AWWA Board of Directors Sept. 4, 1951.

This edition approved June 19, 2016.

Approved by American National Standards Institute Aug. 10, 2016.



This is a preview. [Click here to purchase the full publication.](#)

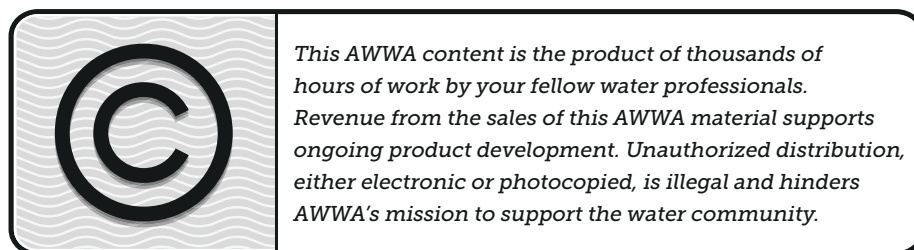
AWWA Standard

This document is an American Water Works Association (AWWA) standard. It is not a specification. AWWA standards describe minimum requirements and do not contain all of the engineering and administrative information normally contained in specifications. The AWWA standards usually contain options that must be evaluated by the user of the standard. Until each optional feature is specified by the user, the product or service is not fully defined. AWWA publication of a standard does not constitute endorsement of any product or product type, nor does AWWA test, certify, or approve any product. The use of AWWA standards is entirely voluntary. This standard does not supersede or take precedence over or displace any applicable law, regulation, or code of any governmental authority. AWWA standards are intended to represent a consensus of the water industry that the product described will provide satisfactory service. When AWWA revises or withdraws this standard, an official notice of action will be placed on the first page of the Official Notice section of *Journal – American Water Works Association*. The action becomes effective on the first day of the month following the month of *Journal – American Water Works Association* publication of the official notice.

American National Standard

An American National Standard implies a consensus of those substantially concerned with its scope and provisions. An American National Standard is intended as a guide to aid the manufacturer, the consumer, and the general public. The existence of an American National Standard does not in any respect preclude anyone, whether that person has approved the standard or not, from manufacturing, marketing, purchasing, or using products, processes, or procedures not conforming to the standard. American National Standards are subject to periodic review, and users are cautioned to obtain the latest editions. Producers of goods made in conformity with an American National Standard are encouraged to state on their own responsibility in advertising and promotional materials or on tags or labels that the goods are produced in conformity with particular American National Standards.

CAUTION NOTICE: The American National Standards Institute (ANSI) approval date on the front cover of this standard indicates completion of the ANSI approval process. This American National Standard may be revised or withdrawn at any time. ANSI procedures require that action be taken to reaffirm, revise, or withdraw this standard no later than five years from the date of publication. Purchasers of American National Standards may receive current information on all standards by calling or writing the American National Standards Institute, 25 West 43rd Street, Fourth Floor, New York, NY 10036; 212.642.4900; or emailing info@ansi.org.



ISBN-13, print: 978-1-62576-200-9

eISBN-13, electronic: 978-1-61300-402-9

DOI: <http://dx.doi.org/10.12999/AWWA.C302.16>

All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopy, recording, or any information or retrieval system, except in the form of brief excerpts or quotations for review purposes, without the written permission of the publisher.

Copyright © 2017 by American Water Works Association
Printed in USA

Committee Personnel

The AWWA Standards Subcommittee on ANSI/AWWA C302, which reviewed and developed this standard, had the following personnel at the time:

Terri A. Tovey, *Chair*

S.A. Arnaout, Forterra Pressure Pipe Inc., Dallas, Texas	(AWWA)
H.H. Bardakjian, Consulting Engineer, Glendale, Calif.	(AWWA)
G.A. Davidenko, Northwest Pipe Company, Saginaw, Texas	(AWWA)
W.C. Duke, Bureau of Reclamation, Denver, Colo.	(USBR)
T.A. Tovey, CH2M, Bellevue, Wash.	(AWWA)

The AWWA Standards Committee on Concrete Pressure Pipe, which reviewed and approved this standard, had the following personnel at the time of approval:

Wayne R. Brunzell, *Chair*
Richard I. Mueller, *Secretary*

User Members

K.A. Danley, Des Moines Water Works, Des Moines, Iowa	(AWWA)
W.C. Duke, Bureau of Reclamation, Denver, Colo.	(USBR)
N.D. Faber, San Diego County Water Authority, Escondido, Calif.	(AWWA)
J.A. Fleming,* Standards Council Liaison, Greater Cincinnati Water Works, Cincinnati, Ohio	(AWWA)
J.C. Gehrig,† Tarrant Regional Water District, Fort Worth, Texas	(AWWA)
J.G. Grunow, Louisville Water Company, Louisville, Ky.	(AWWA)
D.H. Marshall, Tarrant Regional Water District, Fort Worth, Texas	(AWWA)
N.A. Wigner, Los Angeles Department of Water and Power, Los Angeles, Calif.	(AWWA)

General Interest Members

H.H. Bardakjian, Consulting Engineer, Glendale, Calif.	(AWWA)
G.E.C. Bell, HDR Engineering Inc., Claremont, Calif.	(AWWA)
W.R. Brunzell, Brunzell Associates Ltd., Skokie, Ill.	(AWWA)

* Liaison, nonvoting

† Alternate

B.C. Coltharp, Freese and Nichols Inc., Fort Worth, Texas	(AWWA)
D. Dechant, Dechant Infrastructure Services, Aurora, Colo.	(AWWA)
F.S. Kurtz,* Standards Engineer Liaison, AWWA, Denver, Colo.	(AWWA)
S.A. McKelvie,† HDR Engineering Inc., Boston, Mass.	(AWWA)
J.J. Roller, CTL Group, Skokie, Ill.	(AWWA)
A.E. Romer, AECOM, Orange, Calif.	(AWWA)
T.A. Tovey, CH2M, Bellevue, Wash.	(AWWA)
A.W. Tremblay, Tipp City, Ohio	(AWWA)
M.S. Zarghamee, Simpson Gumpertz & Heger Inc., Waltham, Mass.	(AWWA)

Producer Members

S.A. Arnaout, Forterra Pressure Pipe Inc., Dallas, Texas	(AWWA)
G. Bizien,† Forterra Pressure Pipe Inc., St. Eustache, Que., Canada	(AWWA)
K.M. Brown, Vianini Pipe Inc., Somerville, N.J.	(AWWA)
G.A. Davidenko, Northwest Pipe Company, Saginaw, Texas	(AWWA)
M. DeFranco,† DECAST Ltd., Utopia, Ont., Canada	(AWWA)
V. DeGrande,† Ameron Water Transmission Group, Rancho Cucamonga, Calif.	(AWWA)
B.D. Keil,† Northwest Pipe Company, Draper, Utah	(AWWA)
R.I. Mueller, American Concrete Pressure Pipe Association, Orange, Calif.	(ACPPA)
J. Olmos, Ameron Water Transmission Group, Rancho Cucamonga, Calif.	(AWWA)
J.A. Tully, DECAST Ltd., Utopia, Ont., Canada	(AWWA)

* Liaison, nonvoting

† Alternate