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ANSI/AWWA C223-19
(Revision of ANSI/AWWA C223-13)

AWWA Standard

Fabricated-Steel and Stainless-Steel Tapping Sleeves

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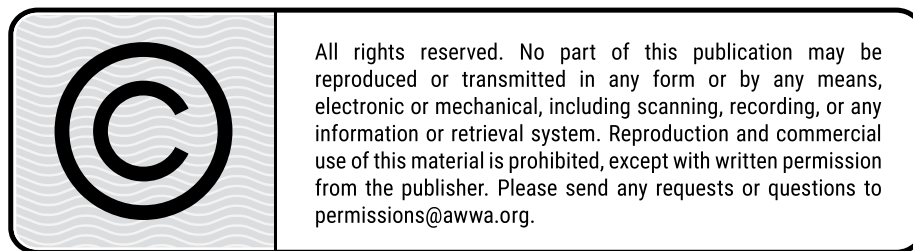
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Committee Personnel

The Steel Water Pipe Manufacturers Technical Advisory Committee (SWPMTAC) Task Group for AWWA C223, which reviewed and revised this standard, had the following personnel at the time:

Phillip Ray, *Chair*

E. Bird, Smith-Blair Inc., Texarkana, Ark.
S. Bradberry, Ford Meter Box Company, Pell City, Ala.
R.R. Collins, JCM Industries Inc., Nash, Tex.
B. Dix, Felker Brothers Corp., Marshfield, Wis.
C. Dodson, Smith-Blair Inc., Texarkana, Ark.
J. Grocki, Nickel Institute, Enfield, Conn.
G. Hines, Mueller Company, Cleveland, Tenn.
M. Langenhan, Total Piping Solutions Inc., Olean, N.Y.
A. Lemke, Romac Industries, Bothell Wash.
M. Levine, Performance Coupling, National City, Calif.
S. Morrison, Victaulic, Atlanta, Ga.
E. Nunes, Krausz Industries, Ocala, Fla.
D. Piontek, Total Piping Solutions Inc., Olean, N.Y.
R.N. Satyarthi, Baker Coupling Company Inc., Los Angeles, Calif.
P. Ray, JCM Industries Inc., Nash, Tex.
J. Reinheimer, Robar Industries LTD, Surrey, B.C.
M. Zimmerle, Cascade Waterworks Mfg. Co., Yorkville, Ill.

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

John H. Bambei Jr., *Chair*
Dennis Dechant, *Vice Chair*
John Luka, *Secretary*

General Interest Members

S.A. Arnaout, * Stantec, Dallas, Tex.
J.H. Bambei Jr., Bambei Engineering Services, Arvada, Colo.
R.J. Card, Lockwood Andrews & Newnam Inc., Houston, Tex.

* Alternate

R.L. Coffey, HDR Engineering Inc., Omaha, Neb.
R.L. Gibson, Freese and Nichols Inc., Fort Worth, Tex.
M.D. Gossett,* HDR Engineering Inc., Denver, Colo.
M.B. Horsley,* Horsley Engineering LLC, Overland Park, Kan.
R. Issa,* AECOM, McKinney, Tex.
R.A. Kufaas, Norske Corrosion & Inspection Services Ltd., Surrey, B.C.
J.L. Mattson, Corrosion Control Technologies, Sandy, Utah
A. Murdock, Jacobs Engineering Group, Salt Lake City, Utah
R. Ortega,* Aurora Technical Services, Houston, Tex.
E.S. Ralph,† Standards Engineer Liaison, AWWA, Denver, Colo.
A.E. Romer, AECOM, Orange, Calif.
J.R. Snow, Stantec, Denver, Colo.
A.M. Stanton, Black & Veatch, Los Angeles, Calif.
W.R. Whidden, Woolpert, Winter Park, Fla.

Producer Members

H.H. Bardakjian, Consultant, Glendale, Calif.
D. Dechant, Dechant Infrastructure Service, Aurora, Colo.
D. Dunker, Thompson Pipe Group, Grand Prairie, Tex.
W.B. Geyer, Steel Plate Fabricators Association, Lake Zurich, Ill.
B.D. Keil, Northwest Pipe Company, Draper, Utah
J.L. Luka, American SpiralWeld Pipe Company, Columbia, S.C.
R.D. Mielke,* Northwest Pipe Company, Raleigh, N.C.
G.F. Ruchti,* Consultant, Punta Gorda, Fla.
B. Simpson,* American Cast Iron Pipe Company, Birmingham, Ala.
C.C. Sundberg, Victaulic, Issaquah, Wash.

User Members

L. Adams, US Bureau of Reclamation, Denver, Colo.
G.A. Andersen, New York City Bureau of Water Supply, Little Neck, N.Y.
B. Cheng, Metro Vancouver, Burnaby, B.C.
B. Fountain, San Diego County Water Authority, San Diego, Calif.

* Alternate

† Liaison, non-voting

M. Garcia,^{*} Standards Council Liaison, Denver Water, Denver, Colo.
S. Hattan, Tarrant Regional Water District, Fort Worth, Tex.
P.K. Karna, Tacoma Water, Tacoma, Wash.
T.J. Jordan,[†] Metropolitan Water District of Southern California, La Verne, Calif.
M. Lobik, Springfield Water & Sewer Commission, Springfield, Mass.
K.R. Parbhoo, Los Angeles Department of Water & Power, Los Angeles, Calif.
T. Peng, Metropolitan Water District of Southern California, Los Angeles, Calif.
M. Turney,[†] Denver Water, Denver, Colo.

^{*} Liaison, non-voting

[†] Alternate

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Foreword

This foreword is for information only and is not a part of ANSI/AWWA C223.*

I. Introduction.

I.A. *Background.* Fabricated tapping sleeves are used to provide outlets on piping systems. They are made by several producers, and though details differ, all tapping sleeves provide similar features. They provide a means of attaching a tapping valve and tapping machine and a means of sealing onto or around the existing pipe.

Tapping sleeves are most often connected to tapping valves and therefore require an MSS SP-60 recess machined or cast into the design of the flange. This recess modifies the flange beyond the ANSI/AWWA C207/C228 Steel Pipe Flanges for Waterworks Service/Stainless-Steel Pipe Flanges for Water Service standards; however, flanges fabricated to ANSI/AWWA C207/C228 with an MSS SP-60 recess have been used successfully on tapping sleeves in the waterworks industry for more than 30 years. The use of an MSS SP-60 recess does not significantly affect the integral connection between the flange and the pipe/neck and is substantiated by more than 30 years of successful usage and service records of existing installations. To further substantiate the use of an MSS SP-60 recess in ANSI/AWWA C207/C228 flanges, the AWWA Stainless-Steel Pipe Committee conducted testing, performed a finite element analysis, and prepared a document of the findings on the integral flange connection. This document, titled “AWWA Steel Slip-On Ring Flange Pipe Insertion Analysis,” was presented to the AWWA Steel Pipe Committee on June 12, 2018, and a copy was included in the meeting minutes.

I.B. *History.* The first edition was approved by the Board of Directors on June 16, 2002. Subsequent editions were approved on June 24, 2007 and June 9, 2013. This edition was approved on Feb. 1, 2019.

I.C. *Acceptance.* In May 1985, the US Environmental Protection Agency (USEPA) entered into a cooperative agreement with a consortium led by NSF International (NSF) to develop voluntary third-party consensus standards and a certification program for direct and indirect drinking water additives. Other members of the original consortium included the Water Research Foundation, (formerly AwwaRF) and the Conference of State Health and Environmental Managers (COSHEM). The American Water Works Association (AWWA) and the Association of State Drinking Water Administrators (ASDWA) joined later.

* American National Standards Institute, 25 West 43rd Street, Fourth Floor, New York, NY 10036.