Committee Personnel

The AWWA Standards Committee on Water Service Line Fittings, which reviewed and approved this standard, had the following personnel at the time of approval:

Savas C. Danos, Chair

General Interest Members

T. Arnbrister, Nisqually Tribe, Rainier, Wash. (AWWA)
J.W. Hellums, Booth Hellums and Associates LLC, Lake Charles, La. (AWWA)
T.J. Moulton, Emco Corp., Mississauga, Ont. (AWWA)
E.S. Ralph,* Standards Engineer Liaison, AWWA, Denver, Colo. (AWWA)
R.A. Waggenspack, Owen & White Inc., Baton Rouge, La. (AWWA)

Producer Members

M. Anderson, Ford Meter Box Company Inc., Wabash, Ind. (AWWA)
L.W. Fleury, Mueller Group, Smithfield, R.I. (AWWA)
B.J. Haas,† A.Y. McDonald Manufacturing Company, Dubuque, Iowa (AWWA)
D.W. Humes,† Mueller Company, Decatur, Ill. (AWWA)
C. Shanks, † Ford Meter Box Company Inc., Wabash, Ind. (AWWA)
D. Stark, Cambridge Brass, Cambridge, Ont. (AWWA)
S. Tefft, A.Y. McDonald Manufacturing Company, Dubuque, Iowa (AWWA)

User Members

S.C. Danos, Littleton Water Department, Littleton, Mass. (AWWA)
R.J. Dudas, Orange County Utilities, Orlando, Fla. (AWWA)
R.J. Krol, South Bend Water Works, South Bend, Ind. (AWWA)
A.S. Tong, East Bay Municipal Utility District, Oakland, Calif. (AWWA)

* Liaison, nonvoting
† Alternate
## Contents

All AWWA standards follow the general format indicated subsequently. Some variations from this format may be found in a particular standard.

<table>
<thead>
<tr>
<th>SEC.</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Foreword</strong></td>
<td></td>
</tr>
<tr>
<td>I</td>
<td>Introduction................................ vii</td>
</tr>
<tr>
<td>I.A</td>
<td>History........................................ vii</td>
</tr>
<tr>
<td>I.B</td>
<td>Acceptance...................................... viii</td>
</tr>
<tr>
<td>II</td>
<td>Special Issues.................................. ix</td>
</tr>
<tr>
<td>II.A</td>
<td>Lead Fittings................................... ix</td>
</tr>
<tr>
<td>III</td>
<td>Use of This Standard............................. ix</td>
</tr>
<tr>
<td>III.A</td>
<td>Products Intended for Waterworks Applications........................ x</td>
</tr>
<tr>
<td>III.B</td>
<td>Purchaser Options and Alternatives......................... x</td>
</tr>
<tr>
<td>III.C</td>
<td>Modification to Standard.......................... x</td>
</tr>
<tr>
<td>IV</td>
<td>Major Revisions................................. x</td>
</tr>
<tr>
<td>V</td>
<td>Comments........................................ xi</td>
</tr>
</tbody>
</table>

### Standard

#### 1 General

1.1 Scope ........................................... 1
1.2 Purpose ........................................ 2
1.3 Application........................................ 2

#### 2 References .................................. 2

#### 3 Definitions .................................. 3

#### 4 Requirements ................................. 4

4.1 Materials ....................................... 4
4.2 General Design .................................. 5
4.3 Detailed Design .................................. 5
4.4 End Connections ................................ 9
4.5 Fabrication ..................................... 14

#### 5 Verification ................................. 15

5.1 Inspection ....................................... 16
5.2 Testing .......................................... 16
5.3 Basis for Rejection............................... 16

### Delivery

6.1 Marking ......................................... 16
6.2 Packing and Shipping............................. 16
6.3 Affidavit of Compliance........................... 17

### Appendixes

A Collected Standards for Service Line Materials................................... 19
B Field Testing........................................ 25
C Installation......................................... 27

### Figures

1 Curb Valve Heads ................................... 7
2 Standard AWWA Corporation Stop Inlet Thread .................. 11
3 Coupling Nut for Use With Flared Copper Service Tube, Types K and L.......................... 12
4 Outlet End of Corporation Stop Showing Increased-Size NPT External Threads and Internal Driving Threads.......................... 12
5 Flared Fitting End Showing Threads for Use With Flared Copper Service Tube.......................... 12
<table>
<thead>
<tr>
<th>Table</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>Outlet End of Corporation Stop Showing Special-Purpose Coupling Threads and Internal Driving Threads</td>
</tr>
<tr>
<td>7</td>
<td>Meter Coupling Nut</td>
</tr>
<tr>
<td>8</td>
<td>Meter Flange</td>
</tr>
</tbody>
</table>

**Tables**

1. Maximum Drill Sizes for Installation of Corporation Stops in Service Clamps or Saddles With a Drilling Machine | 6 |
2. Maximum Overall Body Dimensions for Corporation Stops For Use With Tapping Machine | 6 |
3. Curb Valve Head Dimensions | 7 |
4. Fitting Thread for Use With Flared Copper Service Tube | 9 |
5. Coupling Nut for Use With Flared Copper Service Tube | 10 |
6. Corporation Stop Outlet Special-Purpose Coupling Threads | 10 |
7. Standard AWWA Corporation Stop Inlet Threads and Corresponding Internal Threads for Saddles | 11 |
8. Tapered External Iron Pipe (NPT) Threads for Outlet End of Corporation Stops | 13 |
9. Internal Driving Thread for Corporation Stops | 13 |
10. Meter Coupling Nut | 14 |
11. Meter Flanges | 15 |
A.1 Dimensions, Weights, and Tolerances in Diameter and Wall Thickness for Nominal or Standard Copper Water Tube Sizes | 20 |
A.2 Dimensions, Weights, and Tolerances for Standard Sizes of Seamless Red Brass Pipe | 22 |
A.3 Standard Weights and Dimensions of Welded and Seamless Steel Pipe | 23 |