



**American Water Works  
Association**

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**ANSI/AWWA C906-15**  
(Revision of ANSI/AWWA C906-07)

**AWWA Standard**

# Polyethylene (PE) Pressure Pipe and Fittings, 4 In. Through 65 In. (100 mm Through 1,650 mm), for Waterworks

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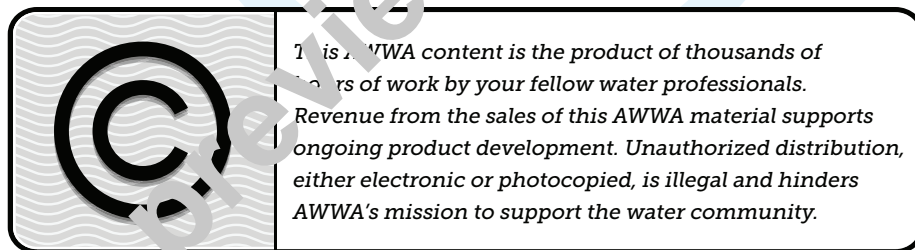
## AWWA Standard

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# Foreword

*This foreword is for information only and is not a part of ANSI\* /AWWA C906.*

## **I. Introduction.**

I.A. *Background.* This standard describes outside diameter (OD) controlled polyethylene (PE) pressure pipe and fittings in diameters ranging from 4 in. through 65 in. (100 mm through 1,650 mm) for use primarily in the construction and rehabilitation of water distribution and transmission systems.

This document describes pipes and fittings made from PE materials with standard PE material designation codes PE 2606, PE 2706, PE 2708, PE 3608, PE 3708, PE 3710, PE 4608, PE 4708, and PE 4710. Pipes are classified in accordance with pipe dimension ratios (DRs) ranging from 7.0 to 32.5. The resultant combinations of PE material designation codes and DRs yield pipe with pressure classes (PCs) ranging from 40 to 333 psig (276 to 2,300 kPa) for water, wastewater, and reclaimed water at 80°F (27°C) and lower temperatures. PC ratings are reduced for higher service temperatures. See AWWA Manual M55 for information about the use of PE pipe at higher service temperatures. Consult with PE pipe manufacturers about use of PE pipe with different disinfectant types and concentrations.

Three standard pipe-diameter systems are described, as follows:

- Inch OD in accordance with iron pipe size (IPS) system (ANSI B36.10).
- Inch OD equivalent to ductile-iron pipe OD (DIOD) in accordance with the ductile-iron pipe sizing system (ANSI/AWWA C150/A21.50).
- Metric OD equivalent.

This standard also includes provision for specifying pipe with custom diameters, wall thicknesses, and dimension ratios.

I.B. *History.* In 1984, the Standards Committee on Thermoplastic Pressure Pipe appointed a subcommittee to prepare a standard covering 4 in. (100 mm) and larger diameter polyethylene (PE) pressure pipe and fittings. The first proposed draft was submitted to the Thermoplastic Pressure Pipe Committee by letter ballot in May 1986.

The Thermoplastic Pressure Pipe Committee was subsequently dissolved, and its standards responsibilities were divided between two new AWWA standards committees: the PVC Pressure Pipe and Fittings Committee and the Polyolefin Pressure Pipe and Fittings Committee. The Polyolefin Pressure Pipe and Fittings Committee

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