NSF/ANSI 14 – 2007

Plastics piping system components and related materials

2 Normative references

The following documents contain requirements that, by reference in this text, constitute requirements of this Standard. At the time of publication, the indicated editions were valid. All of the documents are subject to revision, and parties are encouraged to investigate the possibility of applying the recent editions of the documents indicated below. It is the responsibility of the user of this Standard to determine the acceptance of the referenced standards to the application and requirements of the local jurisdictions.

2.1 Normative references for plastic pipe and related components

ASME A112.4.14-2004. Manually Operated, Quarter-Turn Shutoff Valves for Use in Plumbing Systems


ASME A112.18.1-2005/CSA B125.1-05. Plumbing Supply Fittings

ASME A112.18.6-2003. Flexible Water Connectors

ASSE No. 1050-2002. Performance Requirements for Stack Air Admittance Valves for Sanitary Drainage Systems

ASSE No. 1051-2002. Performance Requirements for Individual and Branch Type Air Admittance Valves for Sanitary Drainage Systems


ASTM D 2239-03. Standard Specification for Polyethylene (PE) Plastic Pipe (SIDR-PR) Based on Controlled Inside Diameter

American Society of Mechanical Engineers (ASME), Three Park Avenue, New York, NY 10016-5990

American Society of Sanitary Engineering (ASSE) for Plumbing and Sanitary Research, 901 Canterbury Road, Suite A, Westlake, OH 44145-7201

American Society for Testing Materials (ASTM) 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959
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ASTM D 2447-03. Standard Specification for Polyethylene (PE) Plastic Pipe, Schedules 40 and 80, Based on Outside Diameter


ASTM D 2683-04. Standard Specification for Socket-Type Polyethylene Fittings for Outside Diameter-Controlled Polyethylene Pipe and Tubing

ASTM D 2729-03. Standard Specification for Poly(Vinyl Chloride) (PVC) Sewer Pipe and Fittings

ASTM D 2737-03. Standard Specification for Polyethylene (PE) Plastic Tubing


ASTM D 3034-06a, Standard Specification for Type PSM Poly(Vinyl Chloride) (PVC) Sewer Pipe and Fittings

ASTM D 3035-06a, Standard Specification for Polyethylene (PE) Plastic Pipe (DR-PR) Based on Controlled Outside Diameter


ASTM D 3350-06. Standard Specification for Polyethylene Plastics Pipe and Fittings Materials

ASTM D 3517-06b. Standard Specification for Fiberglass (Glass-Fiber-Reinforced Thermosetting-Resin) Pressure Pipe

ASTM D 4066-01a. Standard Classification System for Nylon Injection and Extrusion Materials (PA)


ASTM F 437-06a, Standard Specification for Threaded Chlorinated Poly(Vinyl Chloride) (CPVC) Plastic Pipe Fittings, Schedule 80


ASTM F 439-06a, Standard Specification for Socket-Type Chlorinated Poly(Vinyl Chloride) (CPVC) Plastic Pipe Fittings, Schedule 80


ASTM F 480-06b2. Standard Specification for Thermoplastic Well Casing Pipe and Couplings Made in Standard Dimension Ratios (SDR) SCH 40 and SCH 80


ASTM F 794-03. Standard Specification for Poly(Vinyl Chloride) (PVC) Profile Gravity Sewer Pipe and Fittings Based on Controlled Inside Diameter


ASTM F 1055-98e1. Standard Specification for Electrofusion Type Polyethylene Fittings for Outside Diameter Controlled Polyethylene Pipe and Tubing


ASTM F 1282-063. Standard Specification for Polyethylene/Aluminum/Polyethylene (PE-AL-PE) Composite Pressure Pipe


ASTM F 1336-072. Standard Specification for Poly(Vinyl Chloride) (PVC) Gasketed Sewer Fittings


ASTM F 1483-05. Standard Specification for Oriented Poly(Vinyl Chloride), PVCO, Pressure Pipe

ASTM F 1488-03. Standard Specification for Coextruded Composite Pipe

ASTM F 1498-00e1. Standard Specification for Taper Pipe Threads 60° for Thermoplastic Pipe Fittings


ASTM F 1807-07a. Standard Specification for Metal Insert Fittings Utilizing a Copper Crimp Ring for SDR9 Cross-linked Polyethylene (PEX) Tubing


ASTM F 1974-04. Standard Specification for Metal Insert Fittings for Polyethylene/Aluminum/ Polyethylene and Cross-linked Polyethylene/Aluminum/Cross-linked Polyethylene Composite Pressure Pipe

ASTM F 2080-05. Standard Specification for Cold-Expansion Fittings with Metal Compression Sleeves for Cross-linked Polyethylene (PEX) Pipe


ASTM F 2159-05. Standard Specification for Plastic Insert Fittings Utilizing a Copper Crimp Ring for SDR9 Cross-Linked Polyethylene (PEX) Tubing

ASTM F 2262-05a. Standard Specification for Cross-linked Polyethylene/Aluminum/Cross-linked Polyethylene Tubing OD Controlled SDR9

ASTM F 2306-05. Standard Specification for 12 to 60 in. [300 to 1500 mm] Annular Corrugated Profile-Wall Polyethylene (PE) Pipe and Fittings for Gravity-Flow Storm Sewer and Subsurface Drainage Applications


ASTM F 2434-05a. Standard Specification for Metal Insert Fittings Utilizing a Copper Crimp Ring for SDR9 Cross-linked Polyethylene (PEX) Tubing and SDR9 Cross-linked Polyethylene/Aluminum/Cross-linked Polyethylene (PEX-AL-PEX) Tubing

ASTM F2623-07. Standard Specification for Polyethylene of Raised Temperature (PE-RT) SDR Tubing

AWWA C900-07b. Polyvinyl Chloride (PVC) Pressure Pipe, and Fabricated Fittings, 4 in Through 12 in (100 mm Through 300 mm), for Water Transmission and Distribution

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6 American Water Works Association (AWWA), 6666 West Quincy Avenue, Denver, CO 80235
AWWA C901-02. Polyethylene (PE) Pressure Pipe and Tubing, ½ in (13 mm) Through 3 in (76 mm), for Water Service

AWWA C904-06. Cross-Linked Polyethylene (PEX) Pressure Pipe, 1/2 In. (12mm) Through 3 In. (76 mm), for Water Service

AWWA C905-97. Polyvinyl Chloride (PVC) Pressure Pipe and Fabricated Fittings, 14 in Through 48 in (350 mm Through 1,200 mm)

AWWA C906-07. Polyethylene (PE) Pressure Pipe and Fittings, 4 in (100 mm) Through 63 in (1,575 mm), for Water Distribution and Transmission

AWWA C907-04. Injection-Molded Polyvinyl Chloride (PVC) Pressure Fittings for Water – 4 in Through 12 in (100 mm Through 300 mm)

AWWA C909-02. Molecularly Oriented Polyvinyl Chloride (PVCO) Pressure Pipe, 4 IN through 12 IN. (100 MM through 600 MM), for Water Distribution

AWWA C950-07. Fiberglass Pressure Pipe

CSA B125-01. Plumbing Fittings

CSA B137.1-052. Polyethylene Pipe, Tubing, and Fittings for Cold Water Pressure Services

CSA B137.3-052. Rigid Polyvinyl Chloride (PVC) Pipe for Pressure Applications

CSA B137.4-052. Polyethylene Piping Systems for Gas Services

CSA B137.5-052. Cross-linked Polyethylene (PEX) Tubing Systems for Pressure Applications

CSA B137.6-052. CPVC Pipe, Tubing, and Fittings for Hot and Cold Water Distribution Systems

CSA B137.8-052. Polybutylene (PB) Piping for Pressure Applications

CSA B137.9-052. Polyethylene/Aluminum/Polyethylene Composite Pressure Pipe Systems

CSA B137.10-052. Cross-linked Polyethylene/Aluminum/Crosslinked Polyethylene Composite Pressure Pipe Systems

CSA B137.11-052. Polypropylene (PP-R) Pipe and Fittings for Pressure Applications

CSA B181.1-062. ABS Drain, Waste, and Vent Pipe and Pipe Fittings

CSA B181.2-062. PVC Drain, Waste, and Vent Pipe and Pipe Fittings

CSA B181.3-062. Polyolefin Laboratory Drainage Systems

CSA B181.5-062. Coextruded ABS/PVC Drain waste and Vent Pipe

CSA B182.1-062. Plastic Drain and Sewer Pipe and Pipe Fittings

CSA B182.2-062. PVC Sewer Pipe and Fittings (PSM Type)


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7 Canadian Standards Association (CSA), 178 Rexdale Blvd., Etobicoke, Ontario, Canada M9W 1R3
DIN 8078-07. Polypropylene (PP) Pipes – PP-H (Type 1), PP-B (Type 2), PP-R (Type 3) – General Quality Requirements and Testing

DIN 16962-80. Parts 1 through 13, Pipe Joints and Elements for Polypropylene (PP) Pressure Pipelines, Types 1 and 2; Bends of Segmental Construction for Butt-welding, Dimensions

PPI TR-2-2007EB. PVC Range Composition Listing of Qualified Ingredients


2.2 Normative references for compounds and other materials


ASTM D 3350-06. Standard Specification for Polyethylene Plastics Pipe and Fittings Materials


ASTM D 4181-00. Standard Classification for Acetal (POM) Molding and Extrusion Materials


2.3 Other normative references


ASTM F 1216-07a. Standard Practice for Rehabilitation of Existing Pipelines and Conduits by the Inversion and Curing of a Resin-Impregnated Tube

ASTM F 2023-05. Test Method for Evaluating the Oxidative Resistance of Crosslinked Polyethylene (PEX Tubing and Systems to Hot Chlorinated Water

8 Deutsches Institut für Normung e. V. (DIN), Burggrafen-strasse 6, D-10787 Berlin, Germany
9 Plastics Pipe Institute, 1825 Connecticut Ave., NW Suite 680, Washington, DC, 20009
ASTM D 2837-04e1. Standard Test Method for Obtaining Hydrostatic Design Basis for Thermoplastic Pipe Materials or Pressure Design Basis for Thermoplastic Pipe Products


ASTM D 2992-06. Standard Practice for Obtaining Hydrostatic or Pressure Design Basis for Fiberglass (Glass-Fiber-Reinforced Thermosetting-Resin) Pipe and Fittings


Code of Federal Regulations, Title 21, Parts 1-99, Food and Drugs (Rev. 4/07)

Code of Federal Regulations, Title 21, Parts 100-169, Food and Drugs (Rev. 4/07)

Code of Federal Regulations, Title 21, Parts 170-199, Food and Drugs (Rev. 4/07)


ISO 12162:1995. Thermoplastics materials for pipes and fittings for pressure applications – Classification and designation – Overall service (design) coefficient

NSF/ANSI 60–2005. Drinking Water Treatment Chemicals – Health Effects


PPI TR-3-2007. Policies and Procedures for Developing Hydrostatic Design Basis (HDB), Pressure Design Basis (PDB), Strength Design Basis (SDB), and Minimum Required Strength (MRS) Ratings for Thermoplastic Piping Materials or Pipe

PPI TR-4-2007. PPI Listing of Hydrostatic Design Basis (HDB), Strength Design Basis (SDB), Pressure Design Basis (PDB) and Minimum Required Strength (MRS) Ratings for Thermoplastic Piping Materials or Pipe

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11 International Organization for Standardization (ISO), 1 rue de Varembé, Case postale 56, CH-1211, Geneve 20, Switzerland
12 Plastic Pipe institute, Inc. (PPI), 1825 Connecticut Ave. NW, Suite 680, Washington, DC 20009