TO: Joint Committee on Plastics and RV Plumbing Components

FROM: Kevin Kalakay, Chairperson

DATE: July 28, 2022

SUBJECT: Proposed revision to NSF/ANSI 359: *Valves for Cross-linked Polyethylene (PEX) Water Distribution Tubing Systems* (359i5r1)

Revision 1 of NSF/ANSI 359, issue 5 is being forwarded to the Joint Committee for consideration. Please review the proposal and **submit your ballot by August 18, 2022** via the NSF Online Workspace <www.standards.nsf.org>.

Please review all ballot materials. When adding comments, please include the section number applicable to your comment and add all comments under one comment number whenever possible. If you need additional space, please use the attached blank comment template in the reference documents and upload online via the browse function.

Purpose

This ballot will update the Normative References in NSF/ANSI 359.

Background

The normative references section of NSF/ANSI 359 is being updated, including updated editions of referenced standards, as well as updated boilerplate language.

This issue paper was presented at the 2022 Joint Committee on Plastics and Recreational Vehicle Plumbing Components annual meeting, and a motion to send the language to ballot was approved there.

If you have any questions about the technical content of the ballot, you may contact me in care of:

Kevin Kalakay
Chair, Joint Committee on Plastics and RV Plumbing Components
c/o Jason Snider
Joint Committee Secretariat
Tel: (734) 418-6660
Email: jsnider@nsf.org

[Note – the recommended changes to the standard which include the current text of the relevant section(s) indicate deletions by use of ~~strikeout~~ and additions by gray highlighting. Rationale statements are in *italics* and only used to add clarity; these statements will NOT be in the finished publication.]

NSF/ANSI Standard
for Plastics —

Valves for Cross-linked Polyethylene (PEX) Water Distribution Tubing Systems•

•
•
•

2 Normative references

~~The following documents contain provisions that, through reference, constitute requirements of this NSF Standard. All documents are subject to revision, and parties are encouraged to investigate the possibility of applying the recent editions of the documents indicated below.~~

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. The most recent published edition of the document shall be used for undated references.

ANSI/ISA-75.01.01-2012 – ~~*Flow Equations for Sizing Control Valves*~~ *Industrial-Process Control Valves - Part 2-1: Flow Capacity - Sizing Equations For Fluid Flow Under Installed Conditions*[1]

~~ASME A112.14.4~~ ASME A112.4.14-2017/CSA B125.14-2017 – *Manually Operated, ~~Quarter-Turn Shutoff~~ Valves for Use in Plumbing Systems*[2]

ASME A112.18.1-2018 Plumbing Supply Fittings

ASME B1.20.1 - 2013 – *Pipe Threads, General Purpose, Inch*[2]

ASME B16.22 - 2018 – *Wrought Copper and Copper Alloy Solder Joint Pressure Fittings*[2]

ASTM B858-06 (2012) – *Standard Test Method for Ammonia Vapor Test for Determining Susceptibility to Stress Corrosion Cracking in Copper Alloys*[3]

[1] The International Society of Automation (ISA). 67 Alexander Drive, P.O. Box 12277, Research Triangle Park, NC 77091 <www.isa.org>.

[2] American Society of Mechanical Engineers (ASME). Three Park Avenue, New York, NY 10016-5990 <www.asme.org>.

[3] American Society for Testing Materials (ASTM). 100 Barr Harbor Drive, West Conshohoken, PA 19428-2959 <www.astm.org>.

ASTM D2846M-19a. *Standard Specification for Chlorinated Poly(Vinyl Chloride) (CPVC) Plastic Hot and Cold Water Distribution Systems*[5]

ASTM D6394-21a. *Standard Specification for Sulfone Plastics (SP)*[5]

ASTM F877-20. *Standard Specification for Crosslinked Polyethylene (PEX) Plastic Hot and Cold Water Distribution*[5]

ASTM F1498-08(2020). *Standard Specification for Taper Pipe Threads 60° for Thermoplastic Pipe and Fittings*[5]

ASTM F1807-19b. Standard Specification for Metal Insert Fittings Utilizing a Copper Crimp Ring for SDR9 Cross-linked Polyethylene (PEX) Tubing and SDR9 Polyethylene of Raised Temperature (PE-RT) Tubing[5]

~~ASTM F1865. *Standard Specification for Mechanical Cold Expansion Insert Fitting With Compression Sleeve for Cross-linked Polyethylene (PEX) Tubing*[5]~~

Rationale: Withdrawn by ASTM in 2018

ASTM F1960-21. *Standard Specification for Cold Expansion Fitting with PEX Reinforcing Rings for Use with Cross-linked Polyethylene (PEX) and Polyethylene of Raised Temperature (PE-RT) Tubing*[5]

~~ASTM F1961. *Standard Specification for Metal Mechanical Cold Flare Compression Fittings with Disc Spring for Cross-linked Polyethylene (PEX) Tubing*[5]~~

Rationale: Withdrawn by ASTM in 2018

ASTM F2080-19. Standard Specification for Cold-Expansion Fittings With Metal Compression-Sleeves for Cross-Linked Polyethylene (PEX) Pipe and SDR9 Polyethylene of Raised Temperature (PE-RT) Pipe[5]

ASTM F2159-21. *Standard Specification for Plastic Insert Fittings Utilizing a Copper Crimp Ring for SDR9 Cross-linked Polyethylene (PEX) Tubing and SDR9 Polyethylene of Raised Temperature (PE-RT) Tubing*[5]

ASTM F2434-19. *Standard Specification for Metal Insert Fittings Utilizing a Copper Crimp Ring for SDR 9 cross-linked Polyethylene (PEX) Tubing and SDR9 Cross-linked Polyethylene/Aluminum/Cross-linked Polyethylene (PEX-AL-PEX) Tubing*[5]

ASTM F2735-21. *Standard Specification for Plastic Insert Fittings for SDR9 Cross-linked Polyethylene (PEX) and Polyethylene of Raised Temperature (PE-RT) Tubing*[5]

ASSE 1061-2020. *Performance Requirements for ~~Removable and Non-Removable~~ Push-Fit Fittings*[4]

NSF/ANSI 14. *Plastic Piping System Components and Related Materials*

NSF/ANSI 61. *Drinking Water Systems Components – Health Effects*

[4] American Society of Sanitary Engineering (ASSE) for Plumbing and Sanitary Research, 901 Canterbury Road, Suite A, Westlake, OH 44145-7201 <www.asse.org>.