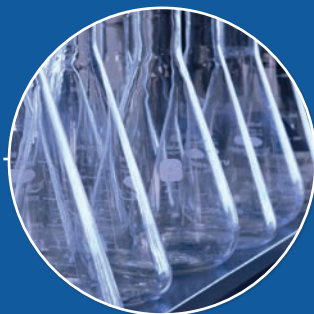




*NSF International Standard /
American National Standard*

NSF/ANSI 359 - 2011

Valves for Crosslinked
Polyethylene (PEX) Water
Distribution Tubing Systems



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for Plastics —

Valves for crosslinked polyethylene (PEX) water distribution tubing systems

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Foreword²

The purpose of this Standard is to establish minimum physical and performance requirements for valves for crosslinked polyethylene (PEX) water distribution tubing systems. These criteria were established for the protection of public health and the environment.

The physical and performance requirements in this standard apply to in line-valves for use in radiant heating system and hot and cold water cross linked polyethylene (PEX) distribution systems which are compliant with the requirements identified in ASTM F877 for PEX tubing systems. Valves meeting these requirements are rated for a minimum 100 psi at 180° F. This standard is supplemental to ASTM F877 and is intended to identify additional requirements specific for valves. The components covered by this standard are intended for use in residential and commercial, hot and cold, potable water distribution systems as well as sealed central heating, including under-floor heating systems.

This Standard was developed by the task group within the NSF Joint Committee on Plastics using the consensus process described in NSF Standards Development Policies and accredited by ANSI.

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NSF/ANSI Standard
for Plastics —

Valves for crosslinked polyethylene (PEX) water distribution tubing systems

1 General

1.1 Purpose

This Standard establishes the minimum physical and performance requirements for in-line valves used with cross-linked polyethylene (PEX) systems. Establishment of these criteria provide for the protection of public health and the environment.

1.2 Scope

This Standard applies to in line-valves for use in radiant heating systems, and hot and cold water cross linked polyethylene (PEX) distribution systems which are compliant with the requirements identified in ASTM F877 for PEX tubing systems. Valves meeting these requirements are rated for a minimum 100 psi (0.69 MPa) at 180° F (82° C). This Standard is supplemental to ASTM F877 and identifies additional requirements specific for valves. This Standard covers components intended for use in residential and commercial, hot and cold, potable water distribution systems; and sealed central heating, including under-floor heating systems. This Standard excludes supply stops and fixture fittings (faucets).

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.

ANSI/ISA-75.01.01 – Flow Equations for Sizing Control Valves³

ASME A112.14.4 – Manually Operated, Quarter-Turn Shutoff Valves for Use in Plumbing Systems⁴

ASME B1.20.1 – Pipe Threads, General Purpose, Inch⁴

ASME B16.22 – Wrought Copper and Copper Alloy Solder Joint Pressure Fittings⁴

³ The International Society of Automation (ISA), 67 Alexander Drive, P.O. Box 12277, Research Triangle Park, NC 7709 <www.isa.org>.

⁴ American Society of Mechanical Engineers (ASME), Three Park Avenue, New York, NY 10016-5990 <www.asme.org>.