

NSF International

Special Engineered Specification NSF SE 16636

Special Engineered Fittings, Appurtenances or Valves for use in Poly (Vinyl Chloride) (PVC) or Chlorinated Poly (Vinyl Chloride) (CPVC) Systems, Using Alternate Thread Dimensions

> The Public Health and Safety Company.™



SPECIFICATIONS FOR A SPECIAL ENGINEERED (SE) PRODUCT

NSF SE 16636

Special Engineered Fittings, Appurtenances or Valves for use in Poly (Vinyl Chloride) (PVC) or Chlorinated Poly (Vinyl Chloride) (CPVC) Systems, Using Alternate Thread Dimensions

1. Purpose:

This specification defines the product specific requirements for special engineered fittings, appurtenances, or valves used in PVC or CPVC Systems, which utilize thread dimensions that fall outside the scope of ASTM F1970.

2. Scope of Specification:

This specification identifies the application, reference documents, material requirements, testing requirements, product marking, and in-plant quality control testing for special engineered fittings, appurtenances, or valves used in PVC or CPVC Systems, which utilize thread dimensions that fall outside the scope of ASTM F1970.

3. Application:

Products meeting the requirements of this specification are for use in pressure applications.

4. Referenced Documents:

ASTM F1970 – Standard Specification for Special Engineered Fittings, Appurtenances or Valves for use in Poly (Vinyl Chloride) (PVC) or Chlorinated Poly (Vinyl Chloride) (CPVC) Systems

NSF/ANSI Standard 14 – Plastic Piping System Components and Related Materials

NSF/ANSI Standard 61 - Drinking Water System Components - Health Effects

5 Materials:

Materials used in the production of products meeting this specification shall comply with the material requirements as specified in ASTM F1970 section 4.

6. Testing Requirements:

6.1 – Products meeting this specification shall comply with the requirements as specified in ASTM F1970 section 5, with the exception of *Threaded Connections*.

6.2 – Threaded Connections – threads shall conform to the dimensional requirements specified by the manufacturer.

7. Workmanship, Finish, and Appearance

Products meeting this specification shall comply with the requirements as specified in ASTM F1970 section 6.

8. Potable Water Requirements

Products intended for contact with potable water shall be evaluated, tested and certified for conformance with NSF/ANSI Standard 61.

9. Product Marking:

Marking on the product shall be legible and permanent, and shall include the following:



- Manufacturers name or trademark.
- Material Designation
- Manufacturer's recommended pressure, and the temperature for which the pressure is applicable.
 For fittings intended to be used at 100 psi/180°F (hot water supply) the word HOT is acceptable rather than the pressure and temperature,
- Nominal size
- If the fitting is intended to be used only with certain SDR, Schedule, or pressure-class pipe within one of the standards given in ASTM F1970 section 1.1, marking shall indicate this.

Note: Fittings need only be marked with the schedule or SDR of the pipe with the highest pressure rating for which they are intended. All thinner-wall schedules and SDR's need not be marked on the fitting.

- Certification mark of the agency making the evaluation.
- The manufacturer's literature shall include assembly instructions which provide adequate information to achieve a connection which will meet the nominal pressure given in ASTM F1970 section 5.1.

10. In-plant Q.C. Requirements:

Products meeting this specification shall follow the Quality Assurance requirements for ASTM F1970 products in accordance with NSF/ANSI Standard 14.