



**NSF International**  
Special Engineered Specification  
NSF SE 15685

# Residential Refrigerator Icemaker Supply Lines





## SPECIFICATIONS FOR A SPECIAL ENGINEERED (SE) PRODUCT

### SE 15685

#### Residential Refrigerator Icemaker Supply Lines

##### 1. Purpose:

This specification defines the product specific requirements for ¼" OD Residential Refrigerator Icemaker Supply Lines, which comply with the requirements of ASME A112.18.6/CSA B125.6 with a modification of the defined flow rate for the pressure drop test. This specification allows for a 0.5gpm flow rate which is typical of residential refrigerator icemakers rather than the 1 gpm flow rate assigned to this category covering residential and commercial applications. The pressure drop requirements may be a limiting factor in the overall length of these supply lines. By using the 0.5gpm flow rate, longer lengths of supply lines may be used which allow for residential refrigerators to be cleaned and serviced.

##### 2. Scope of Specification:

The scope of this specification is to outline the requirements and test methods for in-plant quality control testing, marking, materials, coatings, dimensions, impulse testing, hydrostatic burst test, and pressure drop test on the Residential Refrigerator Icemaker Supply Lines. This specification covers residential refrigerator icemaker supply lines used under continuous pressure and accessible locations.

##### 3. Application:

Residential Refrigerator Icemaker Supply Line are potable water products. This specification covers residential refrigerator icemaker supply lines used under continuous pressure and accessible locations. This specification covers use in the United States and does not apply to products certified for use in Canada.

##### 4. Reference Documents:

ASME A112.18.6/CSA B125.6-2009 Flexible Water Connectors

NSF Standards:

NSF Standard 14- 2015 Plastic Piping System Components and Related Materials

NSF Standard 61- 2015 Drinking Water Systems Components – Health Effects

##### 5.0 Performance Requirements:

5.1 – Residential Refrigerator Icemaker Supply Lines shall comply with the impulse testing requirements of ASME A112.18.6/CSA B125.6, Section 5.2.

5.2 – A Hydrostatic burst test shall be performed on connectors at 180° F and shall meet the minimum requirements identified in ASME A112.18.6/CSA B125.6, section 5.3.

5.3 – Connectors shall meet or exceed the pressure drop requirements specified in ASME A112.18.6/CSA B125.6, Section 5.4 using a flow rate of 0.5gpm.

##### 6.0 Materials

6.1 – Material Evaluation – Residential Refrigerator Icemaker Supply Lines shall ASME A112.18.6/CSA B125.6, Section 4.1.1 including the requirements of NSF/ANSI Standard 61.

6.2 – Coatings – Coatings used on Residential Refrigerator Icemaker Supply Lines shall comply with the requirements of ASME A112.18.6/CSA B125.6, Section 4.2.

6.3 – Connections shall meet ASME A112.18.6/CSA B125.6, Section 4.3.

##### 7.0 Product Marking

7.1 – Product marking shall be applied in such a manner that it remains legible under normal handling and installation conditions.

7.2 – Product marking, at a minimum shall consist of the following:

- NSF® pw SE
- All marking requirements of Section 6 of ASME A112.18.6/CSA B125.6.



**8.0 In-Plant Q.C. Requirements:**

The following tests are to be performed per Table 26 of NSF/ANSI Standard 14. These tests shall be performed per Section 5 of this document.

**Table 26 – Flexible water connectors**

Test	Frequency		
	Tubing	Fittings	Complete assembly
dimensions <sup>1</sup>	2 h	—	—
wall thickness (insert)	—	24 h	—
compression rings	—	24 h	—
all other required insert dimensions	—	weekly	—
thread gauge	—	24 h	—
insert length	—	weekly	—
thread length <sup>2</sup>	—	(see footnote 2)	—
coatings	annually	annually	annually
impulse testing	annually	annually	annually
hydrostatic burst pressure	weekly	weekly	weekly
pressure drop test	annually	annually	annually
product standard	ASME A112.18.6/CSA B125.6		
<sup>1</sup> Dimensions shall be verified against the manufacturer's design specifications as applicable.			
<sup>2</sup> Thread length is only required to be verified at the time a new tool is "qualified" or when new or repaired thread cores are made.			