

American Society of Sanitary Engineering
PRODUCT (SEAL) LISTING PROGRAM



ASSE STANDARD #1061 - REVISED: 2011
Performance Requirements for Push-Fit Fittings

MANUFACTURER: _____

CONTACT PERSON: _____ E-MAIL: _____

ADDRESS: _____

LABORATORY FILE NUMBER: _____

MODEL # TESTED: _____

MODEL SIZE: _____

ADDITIONAL MODELS REPORT APPLIES TO: _____

ADDITIONAL MODEL INFORMATION (i.e. orientation, series, end connections, shut-off valves): _____

DATE MODELS RECEIVED BY LABORATORY: _____

DATE TESTING BEGAN: _____

DATE TESTING WAS COMPLETED: _____

IF MODELS WERE DAMAGED DURING SHIPMENT, DESCRIBE DAMAGES: _____

PROTOTYPE OR PRODUCTION: _____

General information and instructions for the testing engineer:

The results within this report apply only to the models listed above.

There may be items for which the judgment of the test engineer will be involved. Should there be a question of compliance with that provision of the standard, a conference with the manufacturer should be arranged to enable a satisfactory solution of the question.

Should disagreement persist and compliance remain in question by the test agency, the agency shall, if the product is in compliance with all other requirements of the standard, file a complete report on the questionable items together with the test report, for evaluation by the ASSE Seal Board. The Seal Board will then review and rule on the question of compliance with the intent of the standard then involved.

Documentation of material compliance must be furnished by the manufacturer. The manufacturer shall furnish to the testing agency, a bill of material which clearly identifies the material of each part included in the product construction. This identification must include any standards which relate thereto.



SECTION 1

1.0 General

1.1 Application

Does this application apply to push-fit fittings intended for domestic or commercial applications for potable water distribution systems or hydronic heating systems?

Yes No

1.2 Scope

Do the fittings submitted for testing conform to the products described in this standard?

Yes No

1.2.1 Description

Identify the tubing material on which these fittings can be used:

- PEX Tube
- Copper
- CPVC
- PE-RT

1.2.2 Size or size range that was submitted for testing: _____ inches (_____ mm) to _____ inches (_____ mm)

1.2.3 Minimum Pressure

What is the working pressure as noted by the manufacturer?

_____ psi (_____ kPa)

Minimum Temperature Range

What is the temperature range as noted by the manufacturer?

Minimum: _____ °F (_____ °C)

Maximum: _____ °F (_____ °F)

SECTION II

2.0 Test Specimens

2.1 Were fittings of each type by size on which approval is being sought submitted for evaluation?

Yes No

Identify the types of tubing to be used in this evaluation:

- PEX Tube
- Copper
- CPVC
- PE-RT

Were any integral push-fit connectors in plumbing devices submitted for evaluation?

Yes No

Identify each device: _____

2.2 Were assembly and installation drawings and other data which are needed to enable a testing agency to determine compliance with this standard submitted with the fittings?

Yes No



SECTION III

3.0 Performance Requirements and Compliance Testing

NOTE: ALL REQUESTS FOR MEASUREMENT OF PRESSURE, TEMPERATURE, DISTANCE, TIME, ETC. ARE TO BE SHOWN TO AT LEAST ONE (1) DECIMAL POINT.

3.1 Hydrostatic Sustained Pressure Test for Fittings with an Elevated Temperature or Pressure Rating

Describe the test assembly and joints which were used for the test:

Was each joint fully purged of air? Yes No

Temperature of conditioning medium: _____ °F (_____ °C)

Test assembly was conditioned for: _____ hour(s)

Pressure in test assembly was increased to: _____ psi (_____ kPa)
for _____ hour(s)

Was each assembly in complete compliance with the criteria of Section 3.1? Yes No

(use a separate sheet for each size)

3.2 Mechanical Separation Test

Describe the test assembly and joints which were used for the test:

Assembled fittings and tubing was conditioned at: _____ °F (_____ °C)
for _____ hour(s) in water
or _____ hour(s) in air

A longitudinal test load of: _____ lbf (_____ N)
was applied for: _____ hour(s)

Test assembly was immersed in water at: _____ °F (_____ °C)
and pressurized with: _____ psi (_____ kPa)
at _____ psi (_____ kPa)

Were there any signs of leakage? Yes No

Pressure was increased to: _____ psi (_____ kPa)

Were there any signs of leakage? Yes No

Was each assembly in complete compliance with the criteria of Section 3.2? Yes No



3.3 Hydrostatic Rupture Test for Fittings with an Elevated Temperature or Pressure Rating
Describe the test assembly and joints which were used for the test:

Assembly #1 was tested in accordance with ASTM D 1599 at a temperature of: _____ °F (_____ °C)
A pressure of: _____ psi (_____ kPa)
was applied to assembly #1 for: _____ seconds

Assembly #2 was tested in accordance with ASTM D 1599 at a temperature of: _____ °F (_____ °C)
A pressure of: _____ psi (_____ kPa)
was applied to assembly #2 for: _____ seconds

Were the test pressures applied to assemblies #1 and #2 equal to or greater than the test pressures specified in ASTM F 877? Yes No

Was there any loss of pressure due to leakage or damage to the fitting components or failure of the tube at the joint during the tests? Yes No

3.4 Bending Test (PEX and PE-RT Tubing 1" CTS and Smaller Only)
Describe the test assembly and joints which were used for the test:

Fittings were assembled on a length of tubing (not from a coil): _____ inches (_____ mm)

Assembly was conditioned in water at a temperature of: _____ °F (_____ °C)
for _____ hour(s)

Was the assembly installed in a test set-up per Figure 1? Yes No

Was the assembly bent per the instructions of Section 3.4.2? Yes No

A hydrostatic pressure of: _____ psi (_____ kPa)
was applied to the assembly using water at a temperature of: _____ °F (_____ °C)
for a test period of : _____ minutes

Was there any leakage from the assembly? Yes No

3.5 Bending Test with Rigid Tubing
Describe the test assembly and joints which were used for the test:

Was the assembly installed in a test set-up per Figure 2? Yes No

The test load was applied at a distance of: _____ ft (_____ m)

The total applied load was: _____ lbf (_____ N)



A hydrostatic internal pressure of pressure of : _____ psi (_____ kPa)
 was applied for: _____ hour(s)
 with water at: _____ °F (_____ °C)
 Was there any leakage or weeping from the device on test or the connections to the device?
 Yes No

3.6 Hydraulic Shock (Water Hammer) Test

Describe the test assembly and joints which were used for the test:

The assembly was mounted in a system with a water pressure of:
 _____ psi (_____ kPa)

The assembly was subjected to a hydraulic shock once every
 _____ seconds
 for _____ cycles
 with ambient water at: _____ °F (_____ °C)

Each cycle shall consist of a sudden increase in pressure within
 _____ seconds
 to _____ psi (_____ kPa)
 and a return to atmospheric pressure.

Was there any indication of leakage, damage or separation from the tubing? Yes No

SECTION IV

4.0 Materials

4.1

4.1.1

Were all copper alloys in contact with the potable water less than 56% copper (Cu) by weight and have a lead (Pb) content 8% or less by weight? Yes No

Were there copper alloys in contact with the potable water that contained more than 15% zinc (Zn)? Yes No

If yes, what was the depth of dezincification when tested in accordance with ISO 6509?
 _____ μm

Was the test sample subjected to a test solution of 9.5 pH per ASTM B 858? Yes No

The exposure time of the test sample in the pH solution was: _____ hours

Were there any signs of stress corrosion cracking? Yes No

4.1.2 Did all components of the fitting in contact with potable water comply with the applicable requirements of NSF/ANSI 61? Yes No

4.1.3 Were all ferrous materials used at a minimum of stainless steel series 300 complying with the requirements of ASTM A 240? Yes No

4.1.4 The elastomer test specimens were tested per ASTM A 240 D 6284 for _____ hours
 at _____ °F (_____ °C)
 in a solution containing: _____ ppm
 total chlorine.



Upon completion of the testing:

- 1.) Was there a change in volume greater than 30%? Yes No
2.) Was there a change in durometer type A hardness greater than 6? Yes No

Were there any sulfur-cured elastomeric materials used in this device? Yes No

4.2 Adapter / Transition Fitting Connections

Were all fitting connections in compliance with Sections 4.2.1, 4.2.2, 4.2.3, 4.2.4 and 4.2.5 of this Standard? Yes No

4.3 Marking Instructions

Fittings were marked with the following information: _____

How were the markings applied? _____

4.4 Were installation instructions packaged with the fittings? Yes No



TESTING AGENCY: _____

ADDRESS: _____

PHONE: _____ FAX: _____

TEST ENGINEERS: _____

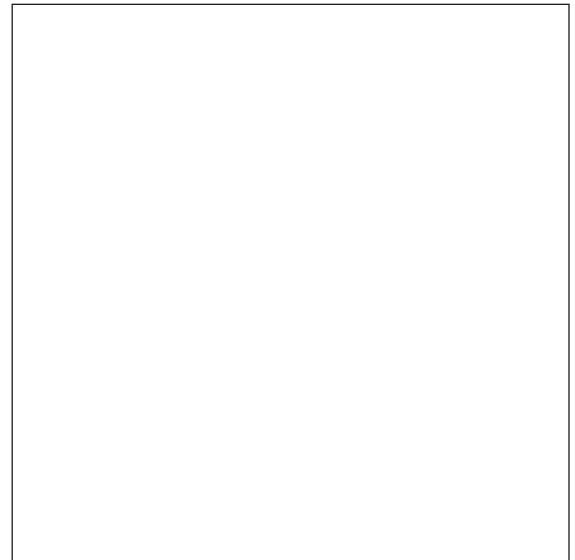
We Certify that the evaluations are based on our best judgements and that the test data recorded is an accurate record of the performance of the device on test.

SIGNATURE OF THE OFFICIAL OF THE AGENCY: _____

TITLE OF THE OFFICIAL: _____ DATE: _____

SIGNATURE AND SEAL OF THE REGISTERED PROFESSIONAL ENGINEER SUPERVISING THE LABORATORY EVALUATION:

SIGNATURE: _____



PE SEAL

*To insert images into document (PE seal and signatures)

Adobe Acrobat Pro users: At the top of the page, go to: Tools > Advanced Editing > TouchUp Object Tool. Once you have selected TouchUp Object Tool, right click within the document and select Place Image. Choose the image you want to place (PE seal or signature) and then select Open. Once the image is in the document, move and re-size the image accordingly. Save and send to ASSE.

Adobe Reader users: Adobe Reader does not allow users to place images into the document. You must print this completed document and then sign and stamp the PE seal by hand. You may then send the completed document to ASSE via fax or mail, or you can scan the completed document and send via e-mail.

COMMENTS: