

American Society of Sanitary Engineering

An Explanation of the Co-Existence of the ASSE 1016-1996 and ASSE 1016-2005 Standards

- ASSE 1016-1996 - *Performance Requirements for Individual Thermostatic, Pressure Balancing, and Combination Pressure Balancing and Thermostatic Control Valves for Individual Fixture Fittings*
- ASSE 1016-2005 - *Performance Requirements for Automatic Compensating Valves for Individual Showers and Tub/Showers Combinations*
- ASSE 1069-2005 - *Performance Requirements for Automatic Temperature Control Mixing Valves*
- ASSE 1070-2004 - *Performance Requirements for Water Temperature Limiting Devices*

As product listings were granted to 1016-1996, the question raised was “how can an in-line device be installed where the user can not adjust temperature and allows further mixing of hot and cold water downstream of the device” provide the bather with thermal shock protection? Additional standards were needed to cover these requirements.

Depending on the application, a product listed to ASSE 1016-1996 could be used in applications requiring the mixing of hot and cold water. However, it was never the intent to negate the thermal shock protection that the standard had provided the user/bather. Therefore, the publication of ASSE 1016-2005, ASSE 1069-2005, and ASSE 1070-2004 were developed for a wider range of clearly defined applications.

The three standards were approved by the ASSE Board of Directors on the following dates:

ASSE 1016-2005	January 2005
ASSE 1069-2005	January 2005
ASSE 1070-2004	February 2004

When ASSE 1016-2005, 1069-2005 and 1070-2004 were approved, the ASSE Board of Directors and the ASSE Seal Control Board agreed to the following provisions to allow the manufacturer’s time to transition their products from the ASSE 1016-1996 to the appropriate new standards.

- **February 7, 2007:** The ASSE Seal Control Board approved the acceptance of applications for new listings to ASSE 1016-1996 until 12/31/2007 as long as an application, including a test report, to 1069-2005 or 1070-2004 was also submitted. ***This extension has now been closed and no new applications for new listings to 1016-1996 will be accepted.***
- **November 4, 2007:** The ASSE Seal Control Board, approved to maintain all ASSE 1016-1996 listings until January 1, 2010. ***After this date, all listings to ASSE 1016-1996 will be removed.***

Individual shower or tub/shower applications:

- A product that provides both scald protection and thermal shock protection is required.
- A 1016-1996 or 1016-2005 listed product can be used for this application ***provided there is no further mixing of water downstream of the device.***
- **An in-line device cannot be used.**
- The outlet temperature adjustment is easily made by the user without either special knowledge or tools.

For gang shower applications (individual stations):

- A product that provides both scald protection and thermal shock protection is required.
- Individually, a 1016-1996 or 1016-2005 listed product can be used for the application ***provided there is no further mixing of water downstream of the device.***
- **An in-line device cannot be used.**

- In this application the user **does** control the outlet temperature

For gang shower applications, single temperature, multiple shower heads (two or more):

- A 1069-2005 listed product can be used for this application ***provided there is no further mixing of water downstream of the device.***
- In this application the user **does not** control the outlet temperature.

For applications where an in-line device is required to temper the water supply to a lavatory faucet, kitchen faucet or bathtub only fill valve:

- A product which provides scald protection only can be used.
- A 1016-1996, 1070-2004 or a 1016-1996/1070-2004 dual listed product could be used for this application.
- In this application, further mixing of water downstream of the device ***is allowed.***

It should be noted that where exemplified applications of the devices that are certified to the various standards above are mentioned, such examples are just that, examples. Model and state codes govern when, where and, in some cases, how a certified device may be used. Currently the 2009 writings of the UPC and IPC model codes specifically mandate applications for ASSE-1016 2005, ASSE 1070-2004 and ASSE 1069-2005 devices.

Remember: If a product is dual listed to ASSE 1016-1996 and either ASSE 1069-2005 or ASSE 1070-2004, the ASSE 1016-1996 listing will be removed after January 1, 2010 and only the listing to either ASSE 1069-2005 or ASSE 1070-2004 will remain in effect.

Definitions

As contained in the 1016-1996 Standard:

User: An individual who can adjust the outlet water temperature at the point of use while he or she is in contact with the outlet water.

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February 9, 2009