

American Society of Sanitary Engineering

A History of ASSE Standards 1016, 1069 and 1070

When the ASSE 1016-1996 standard was updated from the 1988 writing, its title was changed from “Individual Thermostatic, Pressure Balancing and Combination Control Valves for Bathing Facilities” to “Individual Thermostatic, Pressure Balancing and Combination Pressure Balancing and Thermostatic Control Valves for Individual Fixtures”. The scope remained the same. A new section was added, Section 1.1 Application which replaced the former Section 1.2 Purpose. In doing so specific reference to “...control valves for bathing facilities...” was replaced with “...control valves for individual fixtures...”

Throughout the most recent three revisions of the standard, 1988, 1996 and 2005, the term “user” , “Bather or Bather’s Attendant” has remained a constant in the purpose or application sections of these standards. As seals were granted for products listed to the ASSE 1016-1996 standard, the question raised was: “How can an in-line device installed where the user can not adjust temperature and allows further mixing of hot and cold water downstream of the device provide the bather in a shower tub/shower application the level of protection intended in the ASSE 1016-1996 standard?” 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. From this, ASSE surmised that one standard’s scope to encompass all of these applications and still provide adequate health and safety requirements to protect the consumer was not being upheld; therefore one “catch all” standard was not sufficient.

In part, the following criteria was utilized to develop ASSE 1016-2005, ASSE 1069-2005, ASSE 1070-2004:

1. Does the application require scald protection only (Further mixing of hot or cold water downstream of the device is allowed)?
2. Does the application require thermal shock protection (Further mixing of hot or cold water downstream of the device **is not** allowed)
3. What is the degree of hazard in the application (lavatory, shower, etc)?

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 - *Performance Requirements for Automatic Compensating Valves for Individual Showers and Tub/Showers Combinations* **January 2005**

ASSE 1069-2005 - *Performance Requirements for Automatic Temperature Control Mixing Valves* **January 2005**

ASSE 1070-2004 -*Performance Requirements for Water Temperature Limiting Devices* **February 2004**

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