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ASPE NEW YORK CITY CHAPTER

PO BOX 293, GRAND CENTRAL STATION, NY, NY 10163

<http://www.aspenyc.org>

**OCTOBER
MEETING
INFORMATION**

Topic: Oil/Sand Separators, Solids Interceptors, Chemical Waste Tanks

Speaker: Trent Sorenson

Sponser: Edwards, Platt, & Deely

PDH CREDITS

Date: October 1st, 2025

Location: The Tailor Public House & Kitchen - 505 8th Avenue

Time: Dinner Served: 5:30pm

Technical: 5:30-6:30pm

Social: 6:30-8:00pm



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A Message

FROM THE PRESIDENT



My fellow ASPE NYC Members,

What a way to start our 50th year as a chapter! We had over 100 people attend last month's chapter meeting and are happy to see such active members. Let's keep the momentum rolling into October, when we will also be formally celebrating our chapter's 50th Anniversary!

We are also excited to announce that on Thursday, October 9th, the ASPE NYC Chapter will officially be celebrating its 50th Anniversary with a dinner cruise! Please join us in celebrating this historic year as we cruise around the City that we engineer with food, drinks, and friendly faces. This event is open to **ASPE NYC Members** in good standing and their spouses/significant others! Please attend in Business attire.

The following timeline will be strictly adhered to; please be punctual!

6:00pm: Boarding & Cocktail Hour begins on the Majesty at Pier 81, W 41st St NY, NY 10036

6:30pm: Strict departure

6:30pm-9:30pm: Sightseeing Cruise, including the Statue of Liberty

10:00pm: Return to Pier 81

10:00pm-11:00pm: Dockside Afterparty

!!There is limited space available for this event!!

Permitted attendance of ASPE NYC Members and their ONE guest only, no exceptions.

Please use the following link to RSVP: <https://forms.gle/8bAqygxwnzeKc2kL7>

Also in October is our Women of ASPE Breast Cancer Walk! On Sunday, October 19th, from 9am-12pm, WOA NYC will be meeting at the Beethoven Monument in Central Park to walk a 4 Mile route supporting breast cancer research. Be sure to RSVP to region1woa@gmail.com, and include your shirt size to receive a free t-shirt when signing up (while supplies last)!

As our chapter continues to host appealing events and AI becomes more advanced, it's important to stay vigilant of phishing scams and remember the contact information for our board. Board members will only reach out to you via the emails/phones listed on the cover sheet, and official chapter communications will only come from ny.aspe@gmail.com, nycaspenewsletter@gmail.com, or postmaster@mg.aspenyc.org. We are thankful to have such an engaged chapter, and we appreciate your diligence to keep it safe!

We look forward to seeing you all at our next Chapter Meeting on October 1st ! Same great time, same great place.

Yours in ASPE,
Sean Mooney, CPD

ASPE NYC 50th Anniversary Cruise

Thursday, October 9th, 2025

World Yacht Events—The Majesty
Pier 81, W 41st St, New York, NY 10036

Details

Business attire

Limited space available

Open to ASPE NYC Members in good standing and their
significant others!

Schedule

6:00 p.m. Boarding and Cocktail Hour begin on the Majesty at Pier 81

6:30 p.m. Strict departure

6:30–9:30 p.m. Sightseeing Cruise, including the Statue of Liberty

10:00 p.m. Return to Pier 81

10:00–11:00 p.m. Dockside Afterparty



RSVP here by October 7, 2025

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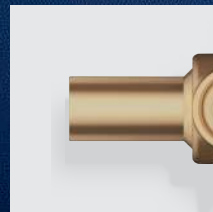
ADDITIONAL CONNECTIONS



1/2" PEX crimp inlets



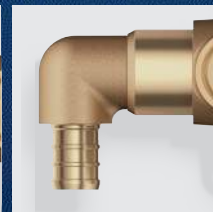
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The Statue of Liberty is depicted in a grayscale, slightly desaturated style. She is holding a large, black industrial pipe in her right hand. The pipe has white text on it: "USA CH" and "PIPE". The background is a faded, high-angle view of the New York City skyline, with various skyscrapers visible. The overall aesthetic is industrial and gritty.

NEW YORK CAST IRON CITY

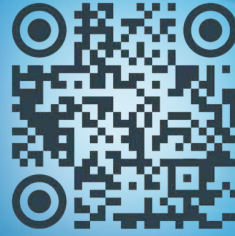
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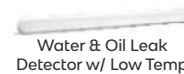
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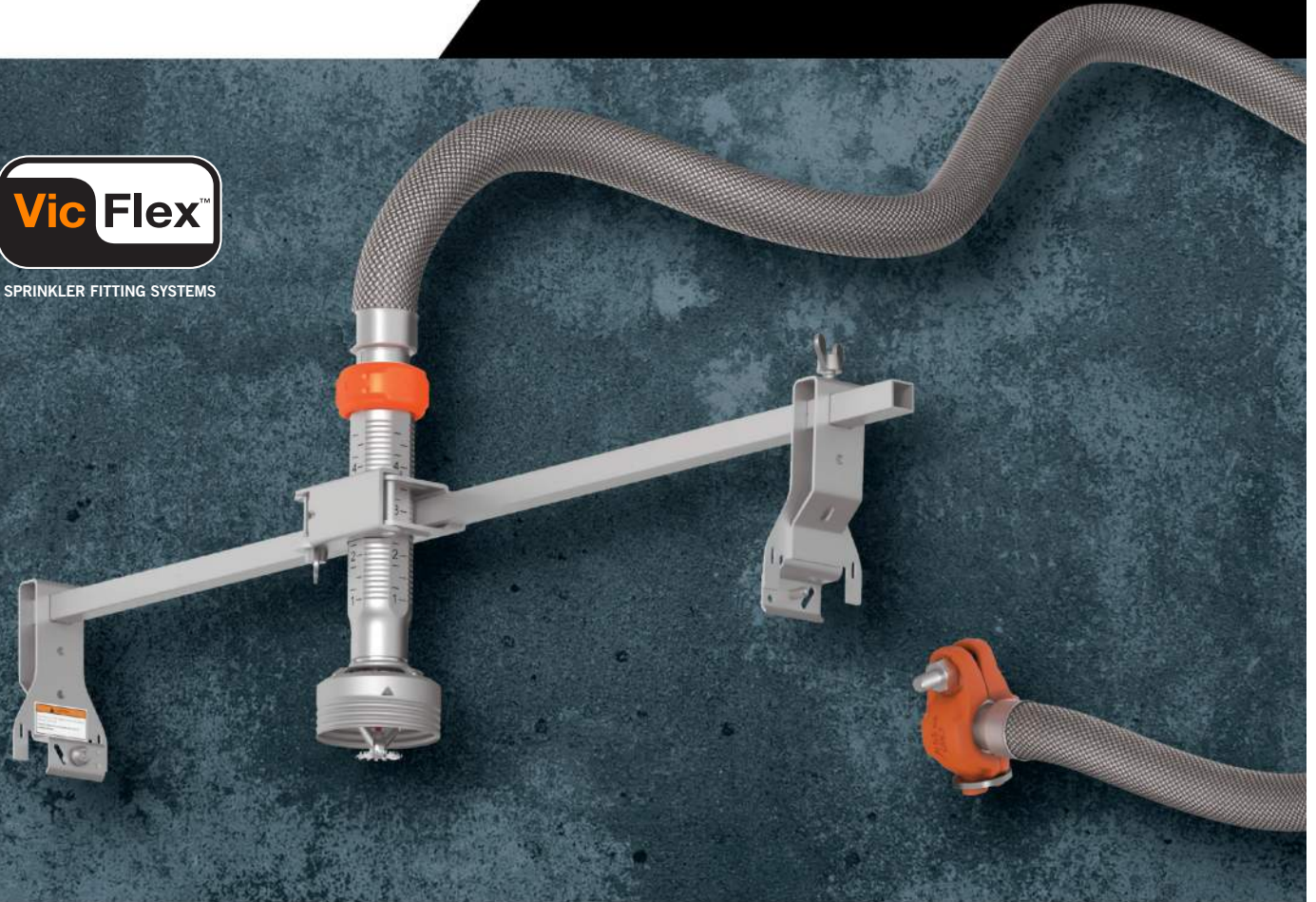
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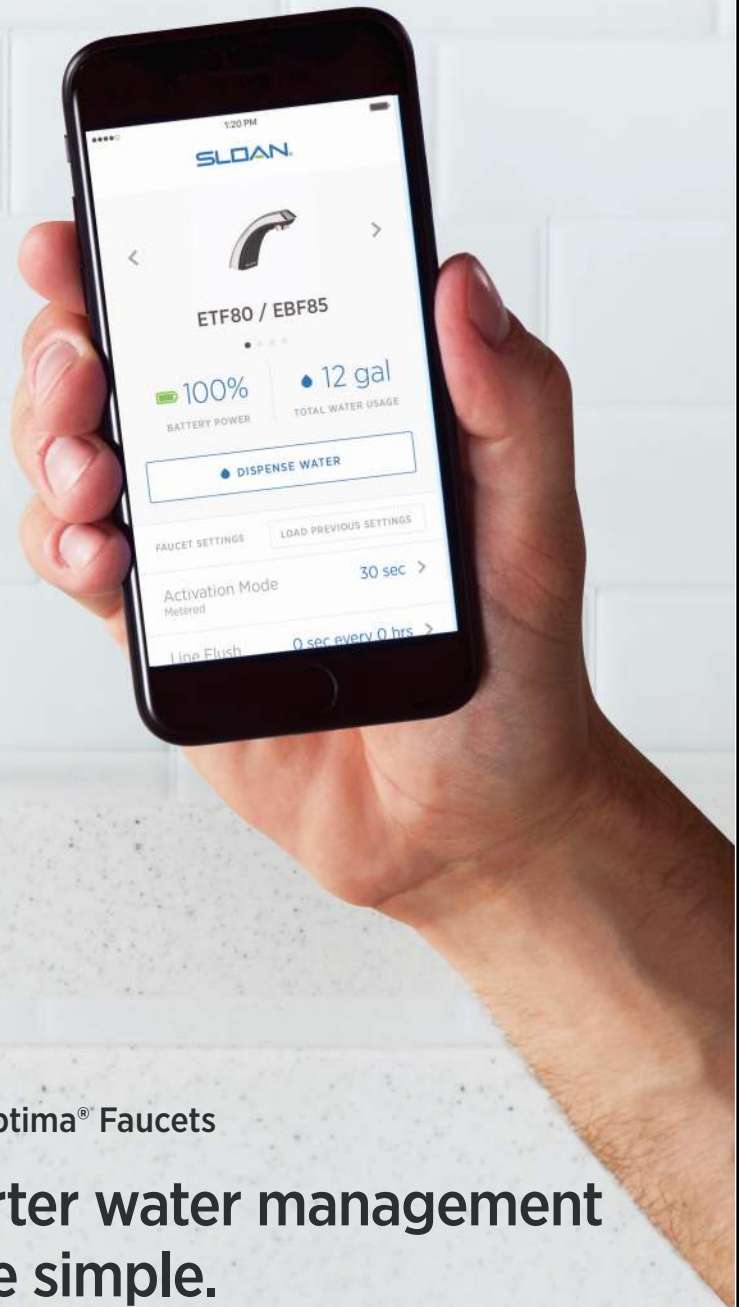
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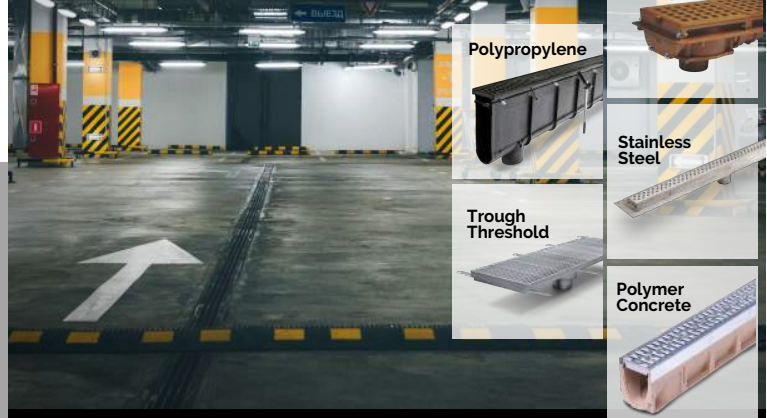
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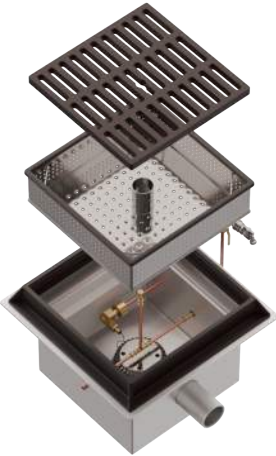
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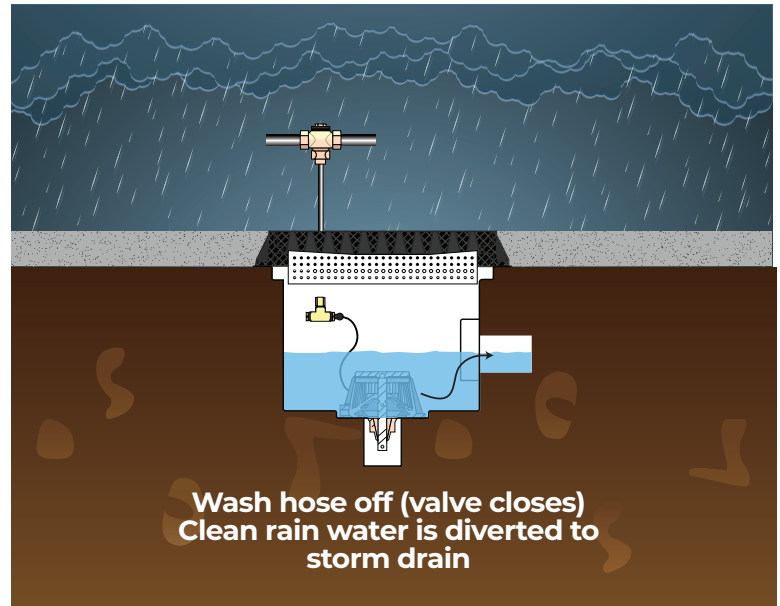
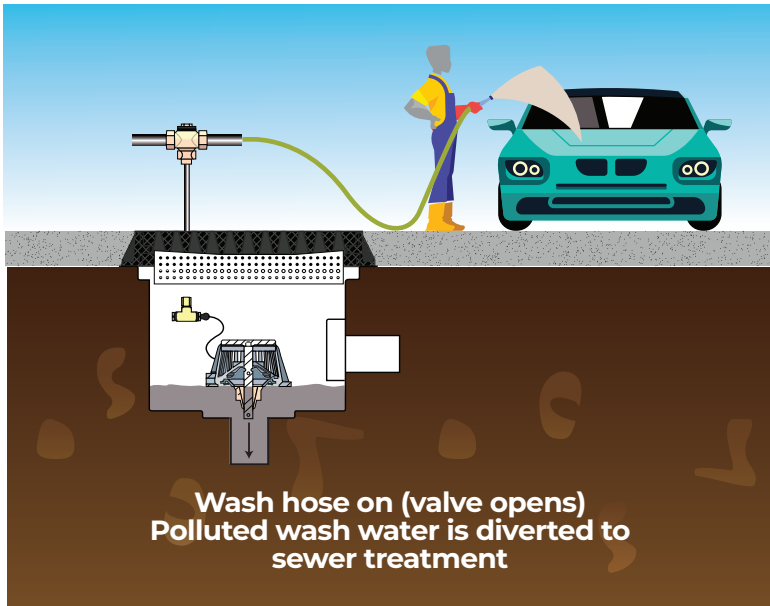
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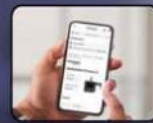
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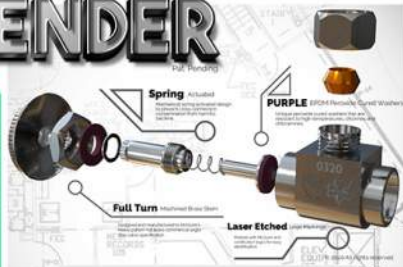
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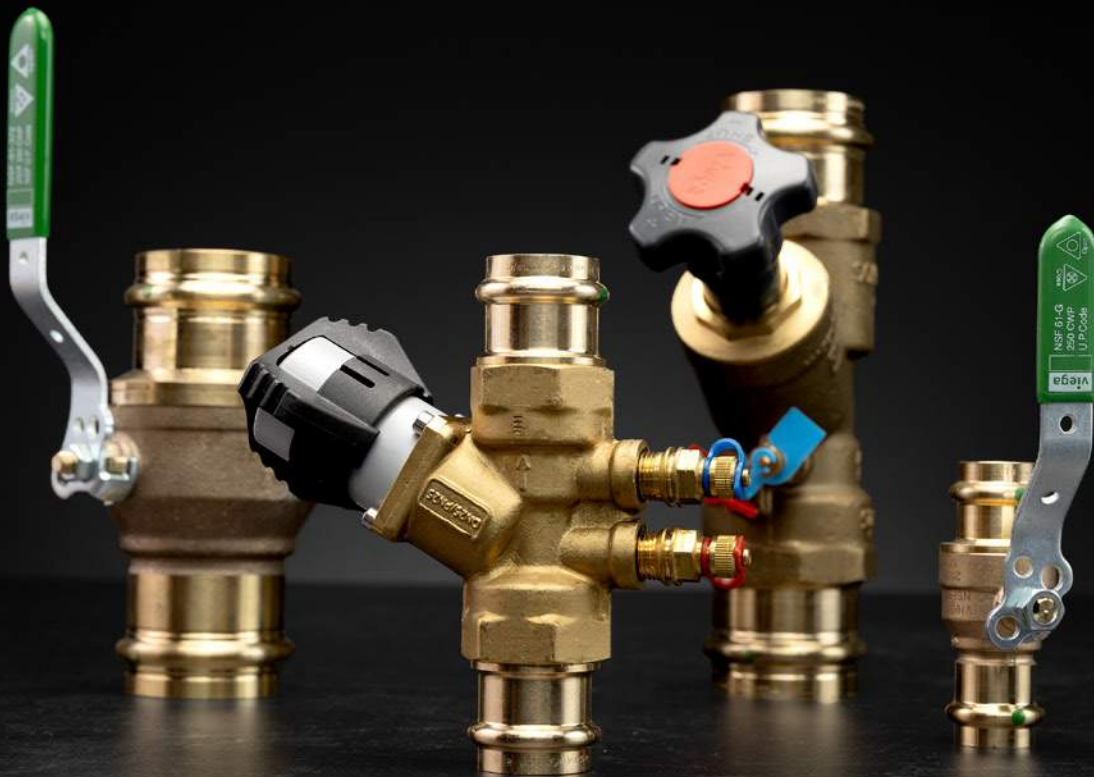
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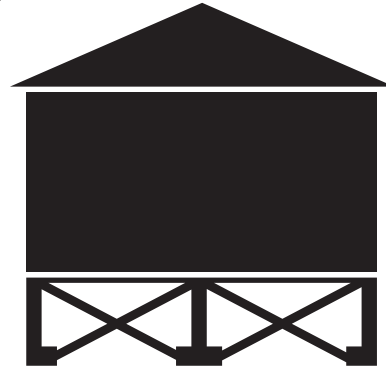
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Dear NYC ASPE Members,

Hopefully by now you've had a chance a drop by the Code Corner to see what its about. In case you haven't, this is a place to get an update into what's happening with discussions of the plumbing code committee. You have an opportunity to participate, NYC ASPE members can email me their concerns regarding particular code sections and the associated language which they believe needs to be discussed during code committee meetings.

Best Regards, Vinny Rotoli

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SEPTEMBER MEETING MINUTES

The September meeting was initiated by Steve and began with the Pledge of Allegiance, after which, several announcements were made. Members were cautioned about the increasing prevalence of phishing attempts. Steve urged everyone to verify email senders carefully and confirm through another communication methods before clicking on links or providing information. Event reminders included the Fishing Trip on September 21st, the ASPE Tech Symposium from September 24th to the 28th in Orlando, Florida, the NYC Chapter 50th Anniversary Dinner Cruise on October 9th, and the WOA Breast Cancer Walk in Central Park on October 19th. Steve also reminded attendees to follow ASPE on social media for updates on chapter activities and events.

Technical Presentation: Scald Awareness by Scott Hamilton

Scott introduced the topic of scald awareness in domestic hot water systems. He explained that plumbing professionals face two persistent risks when designing and maintaining hot water systems. The first is the threat of scalding, which occurs when water is delivered at temperatures capable of causing thermal injury. The second is the growth of Legionella bacteria, which proliferates in tepid or improperly controlled water. Balancing these two risks is challenging because measures that reduce one hazard can worsen the other. Scald prevention requires cooler water at the fixture, while Legionella prevention requires higher storage and distribution temperatures. Codes and standards attempt to balance these risks, but practical application often requires careful system design and monitoring.

Scott presented statistics underscoring the magnitude of the scalding problem. Nearly 25% of all scald burns among children are caused by hot tap water, with bathrooms being the most common site of injury. Of these cases, 42% cover more than 10% of the child's body surface, indicating widespread and severe burns rather than localized injuries. Tragically, an average of 12 children under age 14 die annually from scald burns, with nearly all fatalities occurring in children under the age of 4. The elderly population is similarly at risk, with thinner skin that burns more quickly and slower reflexes that delay escape from hot water exposure. Together, these statistics demonstrate that both the youngest and oldest members of society are disproportionately harmed, making scald prevention a pressing issue in residential, healthcare, and institutional settings.

To provide a foundation, Scott reviewed important definitions. An automatic compensating valve is designed to mix hot and cold water while automatically maintaining a set outlet temperature, even as supply pressures or inlet temperatures fluctuate. These devices are defined under **ASSE 1016** and include three types: pressure-balancing (Type P), which responds to changes in inlet pressure; thermostatic (Type T), which responds to changes in outlet temperature; and combination thermostatic/pressure-balancing (Type T/P), which offers both safeguards. Scalding was defined as a burn injury from hot water exposure of sufficient duration, while thermal shock was described as the sudden and unexpected change in water temperature that can lead to dangerous physical reactions such as slips and falls.

Scott identified several system-level problems that often contribute to unsafe water delivery. One common issue involves low-flow showerheads. Before 1992, showerheads often operated between 3 and 7 gpm. The EPA reduced this maximum to 2.5 gpm in 1992, and the New York City Plumbing Code further limits showerheads to 2.0 gpm at 80 psi. Retrofitting older non-compensating valves with modern low-flow heads can result in unsafe water temperature fluctuations because many of those valves were not designed to function at reduced flow rates.

Pressure variations in the system are another culprit. Everyday events such as a toilet flushing, a dishwasher or washing machine starting, or an irrigation pump cycling can cause sudden changes in supply pressure. Without proper balancing, these shifts are transmitted directly to fixtures, producing abrupt changes in water temperature. Storage water heaters also create challenges. Thermostats located near the bottom of tanks allow water stratification, meaning temperatures at the top may reach 155°F or higher even when the thermostat is set at

120°F. Users drawing from the top of the tank may therefore be exposed to unexpectedly high temperatures. Scott emphasized that the thermostats should not serve as the temperature limiting means for the purposes of code driven delivery temperatures.

Legionella growth conditions were also reviewed. Legionella can survive below 68°F but remain dormant. Between 68°F and 122°F they can actively grow, with the most favorable growth range between 95°F and 115°F. To disinfect and eliminate the bacteria, systems must reach temperatures between 158°F and 176°F for a sustained period. Cold water storage should be kept below 68°F whenever possible. This creates a dilemma: plumbing systems must be hot enough to suppress bacteria but tempered at delivery points to protect against scalds.



Scott offered a series of solutions and best practices. First, he stressed the importance of education. Building owners, operators, and maintenance staff must understand both the risks of scalding and the conditions under which Legionella thrives. Second, proactive monitoring is necessary. Instead of assuming systems operate safely, managers should routinely measure water temperatures at representative fixtures. Third, responsibility in equipment specification is critical. Professionals must specify mixing valves that meet the applicable ASSE standard and are rated for the intended application.

Scott reviewed of ASSE standards with regards to water temperature control devices. **ASSE 1016** covers automatic compensating valves for individual showers and tub-shower combinations, providing direct user protection at the point of use. **ASSE 1017** applies to temperature actuated mixing valves for hot water distribution systems, typically installed at or near the water heater, ensuring tempered water is supplied to the distribution network. **ASSE 1069** covers automatic temperature control mixing valves designed for gang showers and similar installations where the user does not have access to temperature adjustments. **ASSE 1070** specifies water temperature limiting devices for sinks, bidets, lavatories, and bathtubs, limiting outlet temperatures to reduce scald risk. **ASSE 1071** addresses temperature actuated mixing valves for plumbed emergency equipment, such as eyewash stations and drench showers, which must deliver tepid water in accordance with **ANSI Z358.1**.

Scott linked these standards to code requirements, highlighting New York City Plumbing Code provisions as examples. **Section 424.3** requires shower and tub-shower combination valves to be pressure-balancing, thermostatic, or combination valves in compliance with **ASSE 1016**. **Section 501.2.3** mandates the use of **ASSE 1017** mixing valves where water-heating systems are combined with space heating. **Section 424.4** mandates the use of **ASSE 1069** mixing valves for multiple (gang) showers supplied with a single-tempered water pipe. **Section 607.1.2** requires that tempered water be supplied through **ASSE 1070** devices, limiting temperatures to 110°F. Scott mentioned that there are mixing valves on the market that are listed in accordance with multiple standards, but it is important to realize that the listing is only applicable for the position/location the valve is installed in, in accordance to that respective standard.

In closing, Scott provided several examples of fixture installations and had the audience choose the correct mixing valve for the respective application. The session concluded with questions and answers from the audience.

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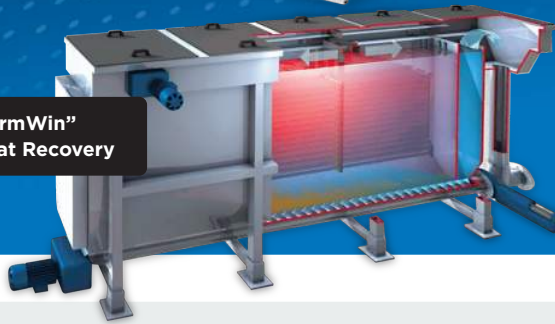
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