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ASPE NEW YORK CITY CHAPTER

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

<http://www.aspenyc.org>

MAY MEETING INFORMATION

Topic: Design Considerations to Promote
Occupant Comfort & Sustainability in
Commercial Heat Pump Water Heating

Speaker: Kevin Brace

Sponser: Dellon Sales

PDH CREDITS PROVIDED

Date: May 6th, 2026

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

Time: Dinner Served: 5:30pm

Technical: 5:30-6:30pm

Social: 6:30-8:00pm



If you wish to receive only digital copies of the newsletter please email nycaspenewsletter@gmail.com.

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A Message

FROM THE PRESIDENT



My fellow ASPE NYC Members,

I'm sure you'll join me in welcoming the trend of warming weather as we SPRING into the next season. We anticipate planning a few more events that take advantage of the nicer outdoors, so be on the lookout for email blasts with exciting information in the coming months!

Later this year, we will return to Wind Watch Golf & Country Club for the annual ASPE/ASSEGolf Outing on Monday, August 10th ! More details will be distributed as they're finalized.

This fall, ASPE will be heading to Oklahoma City for our bi-annual Convention and Expo! Mark your calendars for October 9 th to 14th , as this event is a great way for members to learn about products in the industry, network with peers, and earn CEUs. Visit <https://expo.aspe.org/> for more information!

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 our next Chapter Meeting on Wednesday, May 6th ! Same great time, same great place.

Yours in ASPE,
Sean Mooney, CPD



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.

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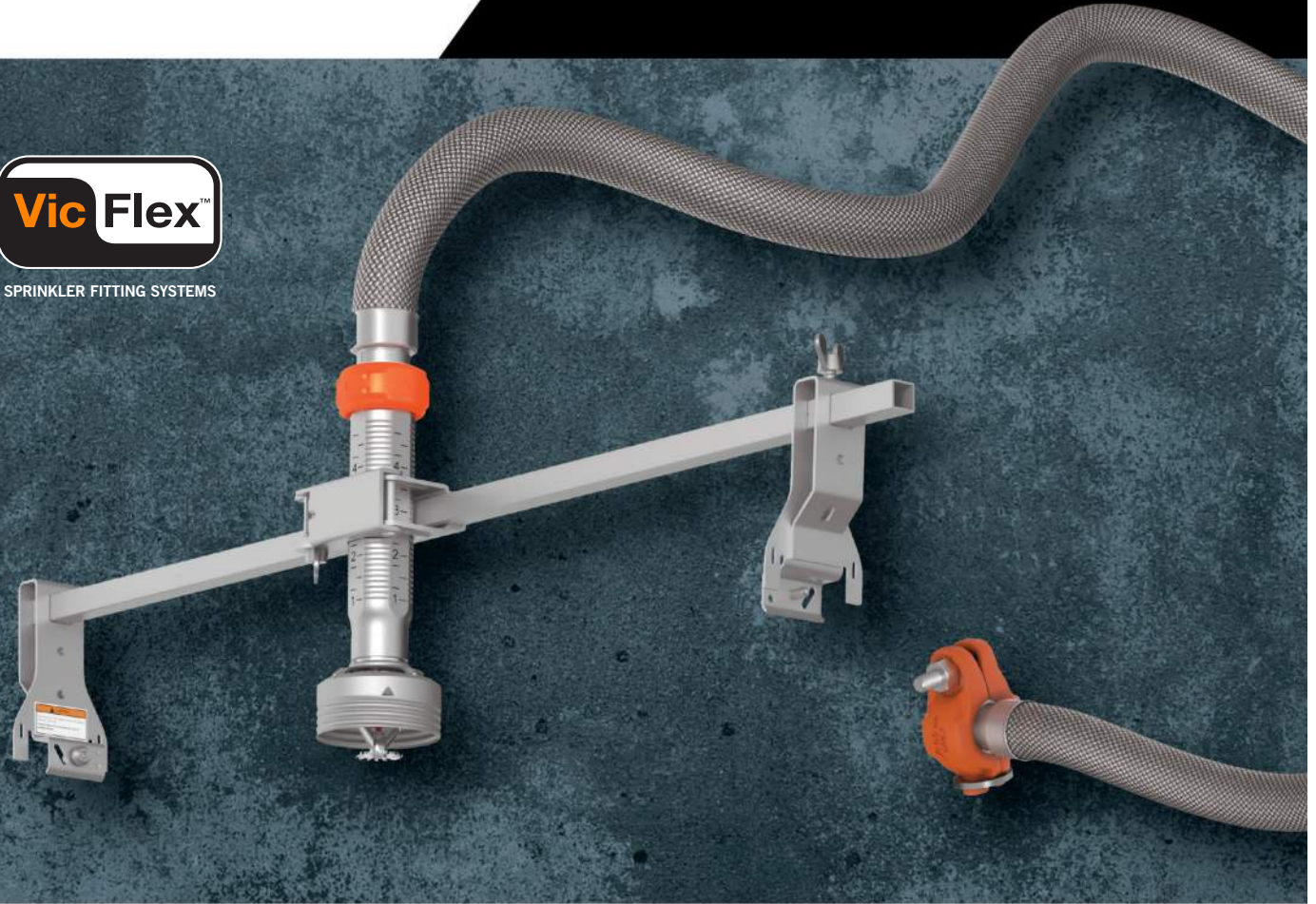
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**FRANK
SMITH**

Business Development Manager,
Commercial/Mechanical — Metro NY

BUILT FROM THE TRADE. BACKED BY VICTAULIC.

Frank began working in his family's plumbing business at age 10, which sparked a lifelong career in piping systems and mechanical infrastructure.

Since 2016, he has partnered with engineers and design professionals to support pipe, valve, and fitting specifications—guiding product selection decisions, solving technical challenges, and moving designs from concept through construction.

Since joining Victaulic in December 2025, Frank continues to collaborate with engineers, developers, and building owners to deliver innovative piping solutions backed by technical expertise.



Have a question or need specification support? Get in touch.

Frank.Smith@Victaulic.com | 732-267-8210

Scan QR code to add Frank's contact information to your phone

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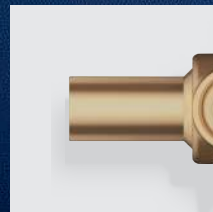
ADDITIONAL CONNECTIONS



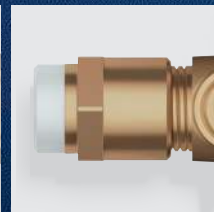
1/2" PEX crimp inlets



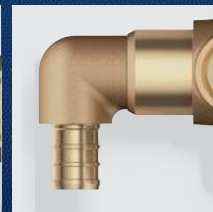
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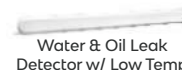
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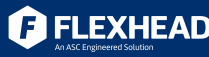


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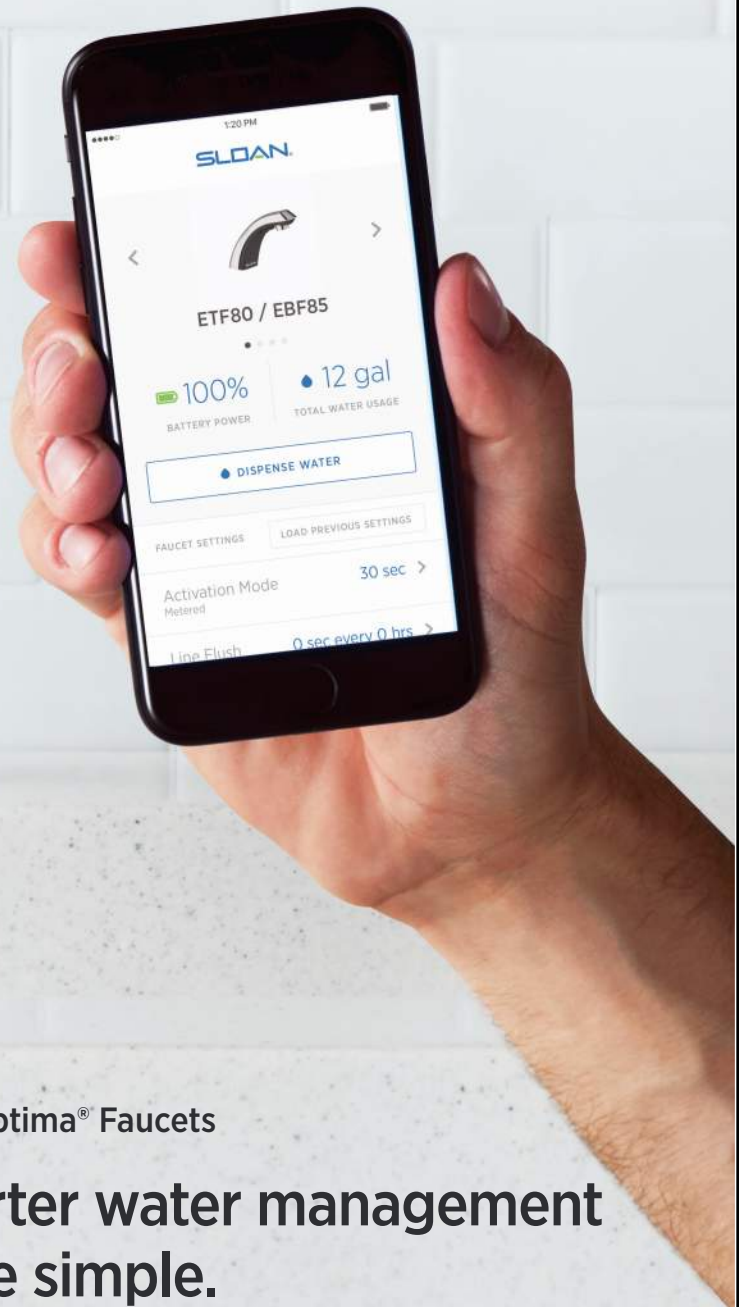
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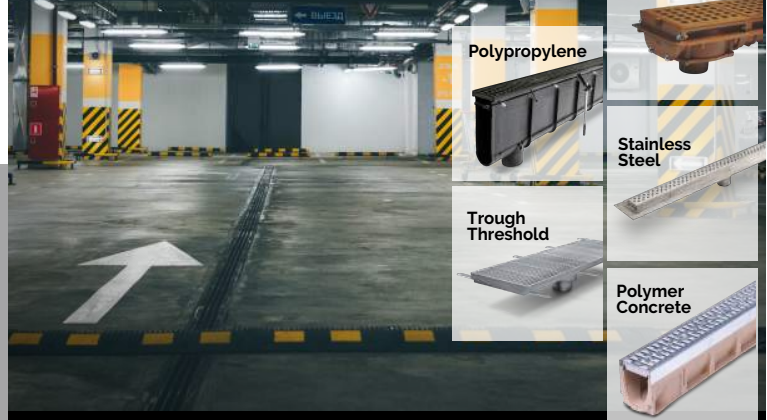
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Minimizes Bacteria Growth

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APPLICATIONS.

- New construction or retrofit applications
- High flow and low flow applications
- Incoming city water and domestic hot water systems
- Filters sized to limit clean pressure drop to <2 psid



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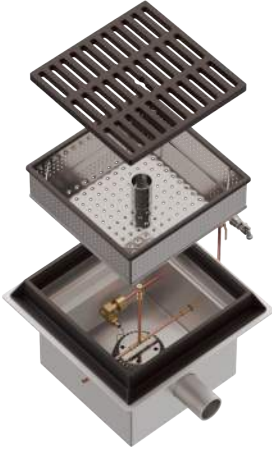
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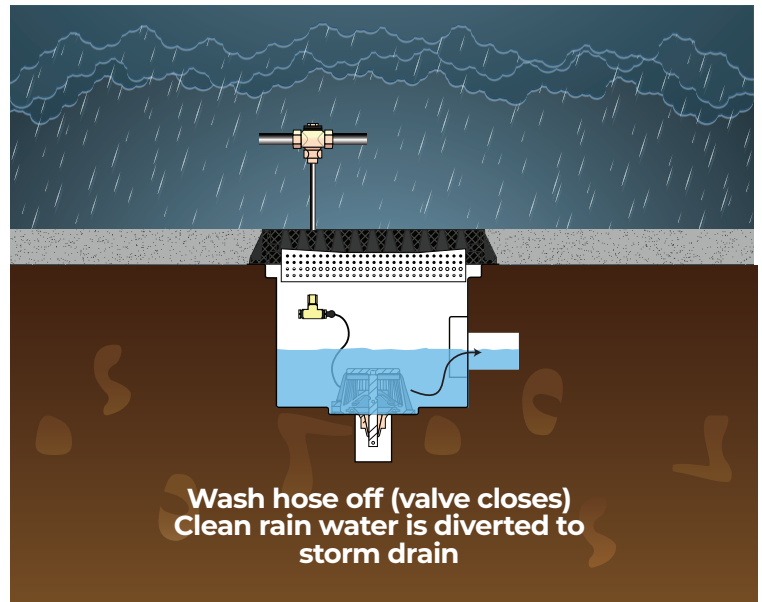
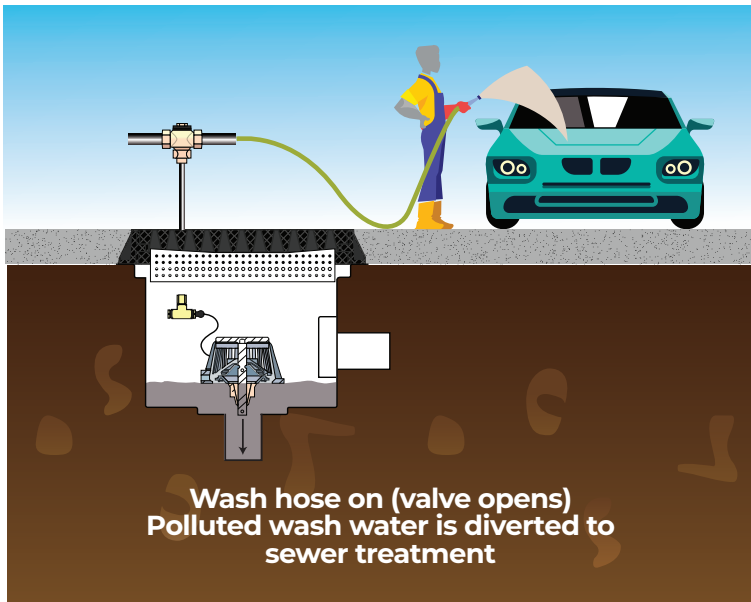
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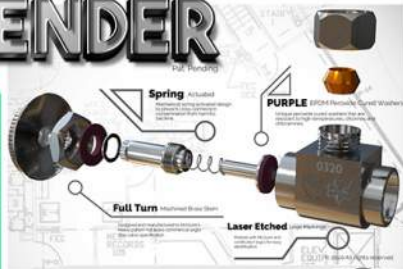
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Bladder tanks are typically suited for larger, industrial systems and are serviceable, whereas diaphragm tanks are common in smaller applications and are usually replaced entirely if they fail. The key to the tank's operation is a flexible butyl barrier that separates the stored water from the captured pressure control air cushion. This barrier, a replaceable bladder or fixed diaphragm, allows the water to be contained within the bladder preventing corrosion and potential water logging.

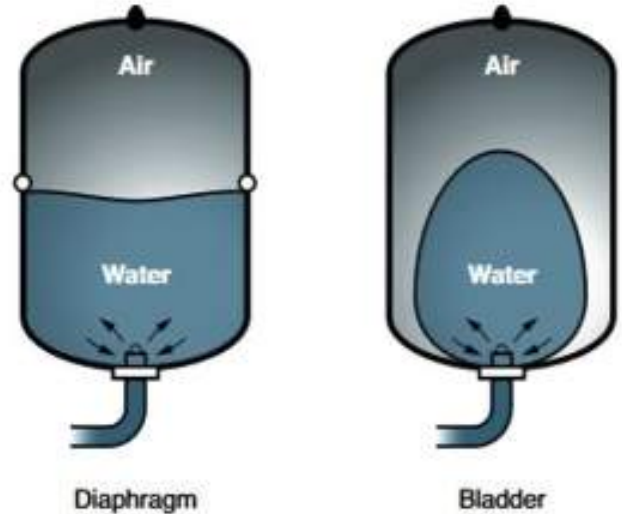
The tank is typically installed on the cold-water supply to a water heater, on the return side of a hydronic system or on the discharge side of a water booster system. For booster systems, the tank will partially fill and empty between pump runs which allows the pumps to take a break and reduce short cycling, helping with system longevity.

While they can be installed horizontally, vertical installation is often preferred to reduce stress on connections. The tanks usually come pre-charged to a specific pressure but can be increased or decreased to fix your specific system requirement.

To properly size a tank, you will need to know the system operating pressure, volume of water and temperature differential. You can refer to the ASPE Plumbing Design handbook, Volume 2, Chapter 6, for help on volume calculations. Your local expansion tank representative can also help you with sizing and selecting a tank that is the right fit for your system.

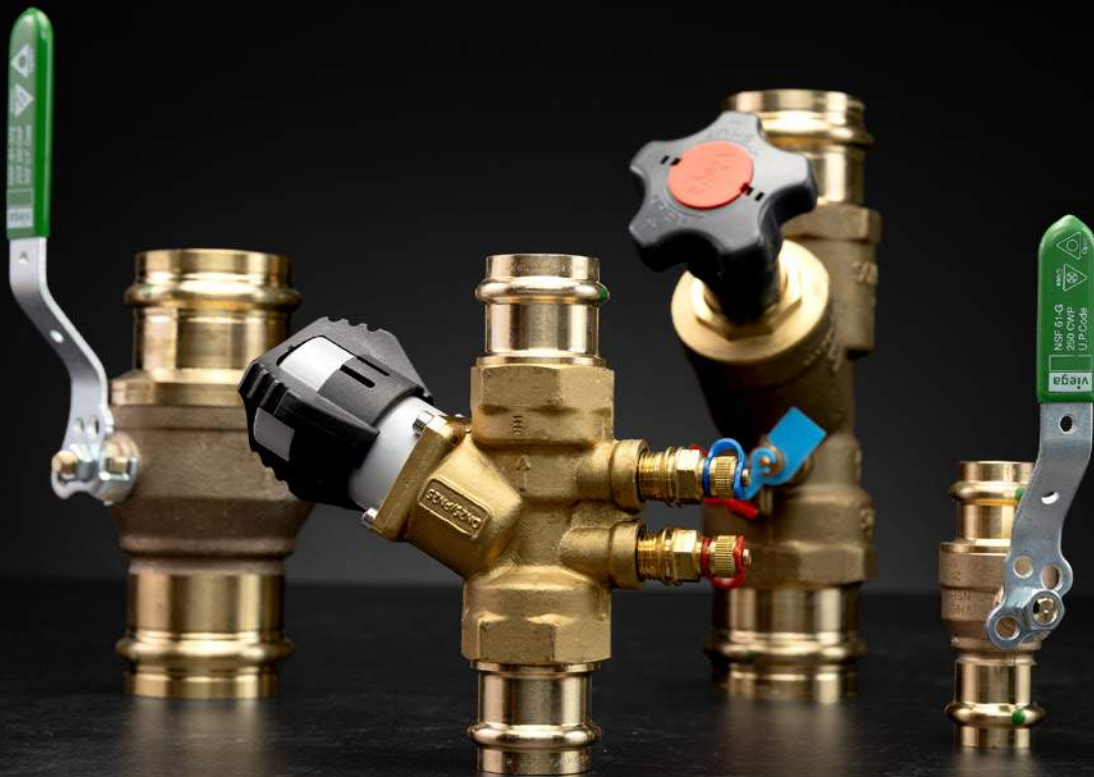
Another device that helps with water expansion and pressure issues is a water hammer arrestor. They prevent loud banging noises and pipe damage caused by sudden pressure surges by using a sealed air cushion and a piston to absorb the shock wave produced when fast-moving water in pipes is abruptly stopped, preventing damage to fittings and preventing leaks. They are best installed on the supply lines for appliances that use quick-closing valves, such as dishwashers, washing machines, ice makers and on supply lines feeding toilets with flushometers.

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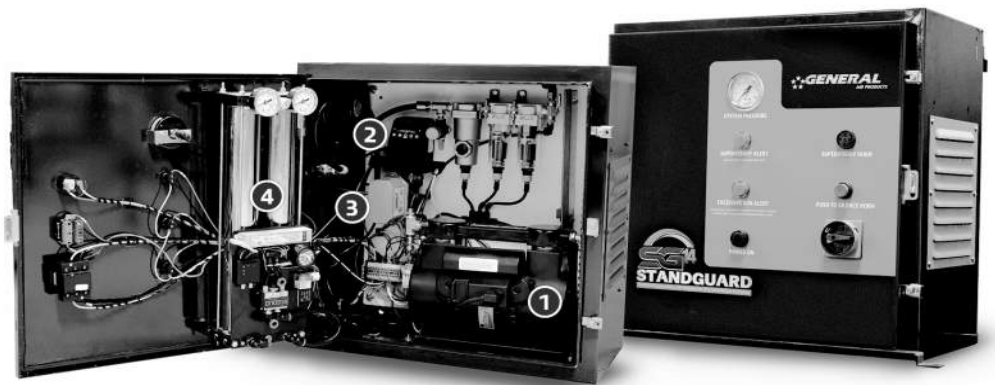
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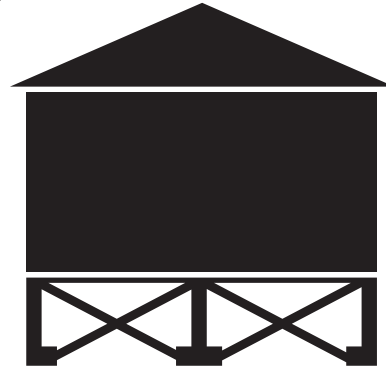
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APRIL MEETING MINUTES

The April meeting was initiated by Steve and began with the Pledge of Allegiance, after which, several announcements were made. There is a Tri-State ASPE Game Night on Friday, April 24th at the Viega Experience Center in Long Island City. Sean Dabroski announced an upcoming tour of the New Croton Reservoir in the spring. Details on the date of the tour and how to register will be announced in the future. There will be a New York Aquarium family day in the summer. Details on the date will be announced in the future. The ASPE summer golf outing will be on Monday, August 10th. The Fishing Trip will be on Saturday, September 26th.

Technical Presentation: ASPE 99 – 2024 Code Updates by Nikita Patel

The presentation opened with a historical overview of NFPA 99, highlighting the events that led to the development of unified standards for medical gas and healthcare facility systems. Early incidents involving cross-connections and system failures, including documented cases in Pennsylvania, Ontario, Oregon, Texas, and Ohio, demonstrated the risks associated with inconsistent standards and lack of independent verification. Historically, contractors often performed their own inspections, and oversight varied widely among jurisdictions, resulting in fragmented requirements across multiple codes and standards. The development of NFPA 99 and the ASSE 6000 series was driven by the need for improved clarity, consistency, and completeness, as well as a shift toward third-party verification and standardized qualifications for personnel involved in medical gas system design, installation, inspection, and maintenance.

Nikita reviewed the evolution of credentialing under the ASSE 6000 series, including roles such as installers, inspectors, verifiers, maintenance personnel, and designers, emphasizing the importance of specialized qualifications in ensuring system safety and compliance. It was noted that NFPA 99 adoption varies by jurisdiction, with different states and local authorities enforcing different editions of the code, which has direct implications for design and compliance strategies.

The presentation reviewed the rewording of the “grandfather clause” under Section 1.3.2.3. The revised language allows continued use of existing systems that do not comply with current code requirements unless the Authority Having Jurisdiction determines that the system poses a distinct hazard to life. While the change is subtle, it broadens the allowance for continued operation of noncompliant systems and places increased emphasis on risk evaluation by the AHJ.

Updates to definitions within the code were also discussed. The definition of anesthetizing locations has been revised to incorporate levels of anesthesia directly into the definition rather than distributing this information across multiple sections. While this does not change technical requirements, it alters how users interpret and navigate the code. The definition of the essential electrical system has also been modified, and the concept of an “alternate power source” has been removed, allowing for greater flexibility in acceptable power sources beyond traditional generators. Additionally, definitions related to manufactured assemblies and manufactured rough-in assemblies now recognize that such systems may be constructed in multiple components, which has implications for testing and certification procedures.

One of the most significant changes highlighted in the presentation was the removal of restrictions that previously limited general anesthesia and deep sedation to Category 1 spaces. Under the 2024 edition, these procedures may now be performed in spaces of any category, provided that an appropriate risk assessment is conducted. This represents a major shift in code philosophy, placing greater responsibility on facility-specific risk assessment rather than prescriptive space classification requirements.

Nikita then addressed changes related to source equipment. Clarifications have been made regarding enclosure requirements for motor driven equipment, improving code readability without substantially changing intent. Updates to medical air systems include the allowance of medical air use in simulation centers, reflecting current industry practices. Additionally, new requirements mandate that each air dryer include a downstream sample port to facilitate troubleshooting, distinct from patient-side sampling points used for compliance testing.

Significant discussion was dedicated to Waste Anesthetic Gas Disposal (WAGD) systems, particularly the introduction of oxygen monitoring as a method for controlling oxygen concentration hazards. Continuous monitoring is now permitted, with alarm activation required at an oxygen concentration of 23.6%. However, the code does not prescribe specific corrective actions, leaving design engineers to determine appropriate mitigation strategies. Challenges associated with this approach include sensor placement, operation under variable pressure conditions, contamination from oil, and the inefficiencies associated with dilution methods. While technically feasible, these solutions introduce design complexity and operational considerations that must be carefully evaluated.

Additional updates to source equipment include revised discharge requirements for smaller WAGD systems, allowing direct discharge to the exterior without requiring connection to a common system. The code also introduces provisions for anesthetic gas recovery systems, which are permitted when installed in conjunction with WAGD systems, provided they can be bypassed to maintain system functionality. sustainability.

These systems represent emerging technology aimed at reducing waste and improving sustainability.

Nikita also reviewed pipeline equipment updates in detail. Changes include revised signage requirements, allowing placement near doors and removing the requirement for “No Smoking” signage in non-smoking facilities. Updates to flexible pigtail pressure ratings align NFPA 99 with other standards by increasing allowable pressures. The reintroduction of auxiliary connections reflects lessons learned during the COVID-19 pandemic, where system flexibility proved critical. Valve classification and placement within medical gas systems were also reviewed, including source, main line, riser, service, and inline valves, each serving distinct isolation and operational functions within the distribution system.

Further updates address manufactured assemblies and testing protocols, recognizing that certain components may be factory-tested while others require field verification. Labeling requirements for hoses have been revised to reflect manufacturer- recommended replacement intervals rather than installation dates, improving lifecycle maintenance practices. Additionally, terminology updates related to dielectric fittings provide clearer guidance on acceptable fitting design and performance.

Design and testing considerations were a major focus of the presentation. Updates to the Maximum Allowable Quantities (MAQ) table clarify allowable gas storage limits within healthcare facilities and restore flexibility that had been constrained by previous references to NFPA 55. The code now allows exceedance of MAQ limits when supported by an approved risk assessment, reinforcing the growing emphasis on performance-based design. Clarifications were also provided regarding the applicability of these limits to bulk storage systems versus smaller patient use cylinders.

Additional design updates include the incorporation of CGA M-1 as a mandatory reference for cryogenic fluid systems and the establishment of allowable pressure loss criteria within medical gas pipelines. The code now defines allowable pressure loss as 10% of the starting pressure, including for vacuum systems, which introduces additional complexity in system design due to variability in pump performance and elevation effects. Standard pressures for certain systems, such as instrument air, have also been expanded to allow greater flexibility.

Nikita also addressed requirements for system designers under ASSE 6060, emphasizing that medical gas systems must be designed by qualified individuals meeting established competency standards or other qualifications accepted by the healthcare facility. The role of the Responsible Facility Authority (RFA) was discussed, including new requirements for emergency planning related to packaged gas sources, focusing on access and protection considerations.

Emerging topics included the addition of a new section addressing cryogenic liquid withdrawal and piping systems. While currently limited in detail, this section establishes a framework for future development and code expansion. Updates to Chapter 15, which governs dental systems, include requirements for compressor room design, vacuum system filtration and exhaust, piping materials, testing procedures, and manifold room construction. Notably, the requirement for WAGD systems in dental applications involving general anesthesia has been removed.

The presentation concluded with a question and answer session from the audience.



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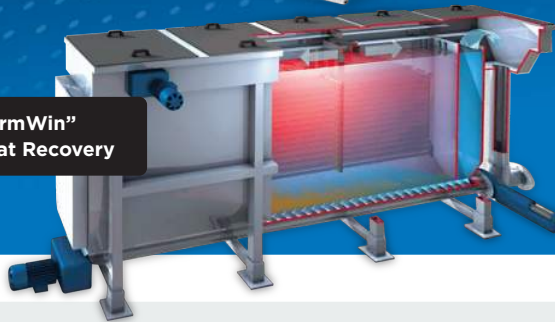
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