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PIPE LINE NEWS



DECEMBER 2025
VOLUME 51 ISSUE 05

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YOU'RE INVITED TO JOIN US
AT NJ ASPE'S

HOLIDAY *Party*

DECEMBER

WEDNESDAY

17

AT 5:00 PM

2023

IL CASTELLO'S
81 MAIN STREET, WOODBRIDGE, NJ 07095

Come and celebrate with us!



From the President's Desk



As the year comes to a close, we want to take a moment to wish our members, partners, and friends a very happy holiday season. December is a time to reflect on the accomplishments of the past year, celebrate the connections we've made, and look ahead with excitement for what's to come. We are grateful for your continued support, involvement, and dedication to our community. May this holiday season bring you joy, peace, and time well spent with family and friends. We wish you a safe, relaxing holiday and a healthy, successful New Year.



Samantha Miccio
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IN CASE YOU MISSED IT...

ASPE New Jersey hosted a lively and highly attended Battle of the PEXes debate at this month's chapter meeting. Members and guests gathered for an interactive discussion comparing leading PEX systems, industry trends, and real-world applications.

The evening featured two fantastic debaters: Brian from Uponor and Dan from Viega, who each brought strong technical insight, product knowledge, and a bit of friendly competition. Their back and forth sparked great questions from the audience and highlighted the importance of material selection, installation best practices, and long-term system performance.

A special thank you goes to Jeff Beeden, our Vice President Technical, for moderating the debate. Jeff kept the conversation balanced, engaging, and informative, ensuring attendees walked away with valuable takeaways they can apply in the field.

Between the debate and the chapter updates shared during our monthly meeting, the night served as a perfect blend of education, networking, and professional development. We're grateful to everyone who attended and contributed to making the event a success.

We look forward to seeing you at our next ASPE NJ gathering!





IN CASE YOU MISSED IT
ASPE NYC & NJ AYP
MINI GOLF EVENT
November 13th







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Membership Updates



**Thanks to each of you for being part of this journey.
Let's keep the momentum rolling!**

Renewals: Thank you to everyone who has renewed their membership recently! Your continued involvement keeps our chapter strong and vibrant.

Multi-Chapter Affiliation: Did you know that for only \$80 more per chapter, you can join as many chapters as you would like? The New Jersey Chapter proudly has 35 multi-chapter members!

Upcoming Member Events: Don't forget to mark your calendars for our upcoming meetings & events. These are great ways to connect, learn, and grow together.



A CALL TO ACTION FROM THE VP Membership



As your VP of Membership, I want to remind you that ASPE is more than a professional organization; it's your platform for growth, connection, and leadership in the plumbing engineering industry. Whether it's exclusive technical resources, unmatched networking opportunities, or career development through certification and education, your ASPE membership is your competitive edge. Let's keep building a stronger, more innovative community together.

Know a colleague who could benefit? Invite them to join us today!

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Why Getting Involved with ASPE Early Pays Off

Whether you are just starting out or well into your plumbing engineering career, one of the most valuable investments you can make in your professional growth is getting involved early. For many members, joining ASPE is the first step, but the real benefits come from showing up, participating, and making connections that last well beyond a single meeting.

The plumbing engineering industry thrives on collaboration. Every project, no matter the scale, is built on relationships between engineers, designers, manufacturers, and contractors.

Attending chapter meetings, volunteering on committees, or participating in a technical tour provides you with access to peers who share your interests, challenges, and career goals. These connections often lead to mentorship, job opportunities, and friendships that can shape your entire career path.

ASPE also provides a platform to develop leadership and technical skills outside of your day-to-day work. Serving on a committee, helping to organize an event, or presenting a topic builds confidence, enhances communication skills, and increases visibility within the industry. These are qualities that employers value highly.

The earlier you start, the more you gain. Students and new professionals who attend regularly find themselves recognized by name, introduced to experienced engineers, and quickly woven into the professional community. Those connections can make all the difference when it is time to find your first job, explore a new role, or seek advice on a complex design.

Our chapter continues to grow because of the members who step up, get involved, and share their expertise. The takeaway is simple: your career growth is proportional to the effort you put into learning, networking, and leading. ASPE is a platform that amplifies all three. The more you engage, the more valuable your membership becomes, not just for your career, but for the projects, teams, and communities you impact.



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The Knowledge Exchange

Article #5 ASSE Standard –1005



Check back each month as our Education Chair, Nick Azmo dives into one of the 49 ASSE Standards. Find the previous articles located in our previous newsletters.

Education Chair: Nick Azmo
education@newjerseyasse.org



Welcome back to the “Knowledge Exchange,” where in this month we take a look at Performance Requirements for Backflow Prevention Requirements for Drain Valves on Water Heaters, or better known as the ASSE 1005 Standard. And please accept my apologies for the recent delay in submitting articles to our chapter newsletter. The demands of a very busy period have unfortunately delayed my writing schedule. I appreciate your patience and am pleased to provide the latest article now.

An Introduction to the ASSE Standards:

In the world of plumbing and water safety, few organizations have had as significant an impact as the American Society of Sanitary Engineering (ASSE). Established over a century ago, ASSE develops product performance standards designed to protect public health and ensure the safe distribution of water. From backflow prevention devices to water temperature controls, ASSE standards form the backbone of safe, reliable plumbing systems across residential, commercial, and industrial settings.

At its core, the purpose of any ASSE standard is to establish consistent criteria that plumbing products must meet to function safely and effectively. We, as engineers, contractors, and code enforcement people, have been given guidelines through the Standards, and it is up to us to make sure we use these properly.

These standards are not just technical guidelines; they are essential tools used by manufacturers, engineers, and by code officials to ensure that plumbing components perform as intended. By setting minimum performance and safety benchmarks, ASSE helps reduce the risk of contamination, scalding, and other plumbing-related hazards. After all, their motto is: “Prevention Rather Than Cure”

ASSE 1005 – Performance Requirements for Water Heater Drain Valves.

In our fifth series, we’re going to talk about Performance Requirements for Backflow Prevention Requirements Water Heater Drain Valves, the ASSE-1005 Standard. Who even knew they had developed a standard for this, and it is specifically directed for the $\frac{3}{4}$ ” size.

As a reminder, this standard only applies to water heaters that are required to have a $\frac{3}{4}$ ” rain valve to come with the water heater. Six-gallon water heaters do not require drain valves to be included with the water heater; this standard only applies to those that manufacturers include with the heater.

Purpose & Scope

The core function of the water heater drain valve, which is typically located at the bottom of the tank, is to allow for periodic draining and flushing of the water tank. As all of you know, this maintenance is essential to remove build-up sediment scale, which helps to:

- **Improve Efficiency:** The sediment acts as an insulator, reducing the water heater’s ability to efficiently transfer heat.
- **Extend the Lifespan of the Water Heater:** Removing corrosive sediment helps prevent premature tank failure.
- **Facilitate Repairs:** Draining the tank is necessary before certain repairs or replacements.

The ASSE 1005 Standard ensures that the drain valve performs this function reliably over the expected life of the water heater. It applies to drain valves intended for the use of both “Tank-Type” and “Storage Tanks” within the domestic hot water system.

The Knowledge Exchange

Article #5 ASSE Standard –1005



Key Performance Requirements

The specific test procedures and criteria are detailed in the full standard, but the main performance requirements generally focus on ensuring the valve is robust, strongly built, corrosion-resistant, and functions correctly under typical operating conditions. These requirements often include:

- **Durability & Operating Cycle Testing:** The valve must be able to endure a specified number of open-and-close cycles without leaking or mechanical failure. This simulates the required lifetime of the product and its use during routine maintenance.
- **Pressure Resistance:** The valve must be able to withstand the maximum allowable working pressure of the water heater system without failure or leakage.
- **Temperature Resistance:** The valve must operate reliably and maintain its structural integrity when exposed to high temperatures found inside the water heater. Often up to 210° F for relief valves, through the drain valve itself is typically designed for less extreme operational temperatures.
- **Material & Corrosion Resistance:** The materials used for the drain valve, particularly those in contact with water, must be corrosion-resistant. The standard often specifies that the valve must be corrosion-resistant metal, such as brass and other approved alloys, to prevent degradation from the minerals and corrosive elements in the water.

In conclusion, The ASSE 1005 Standard elevates the drain valve from a simple fitting to a critical, certified component. Its rigorous testing ensures this device is engineered for maximum reliability and durability, guaranteeing the long-term, safe operation and maintainability of every water system, giving us peace of mind for any hot water installation.

Many of you will be gifting dishwashers this holiday season to your significant others. In January's article, we will address ASSE 1006 Standard – Plumbing Requirements for Residential use (Household) Dishwashers.



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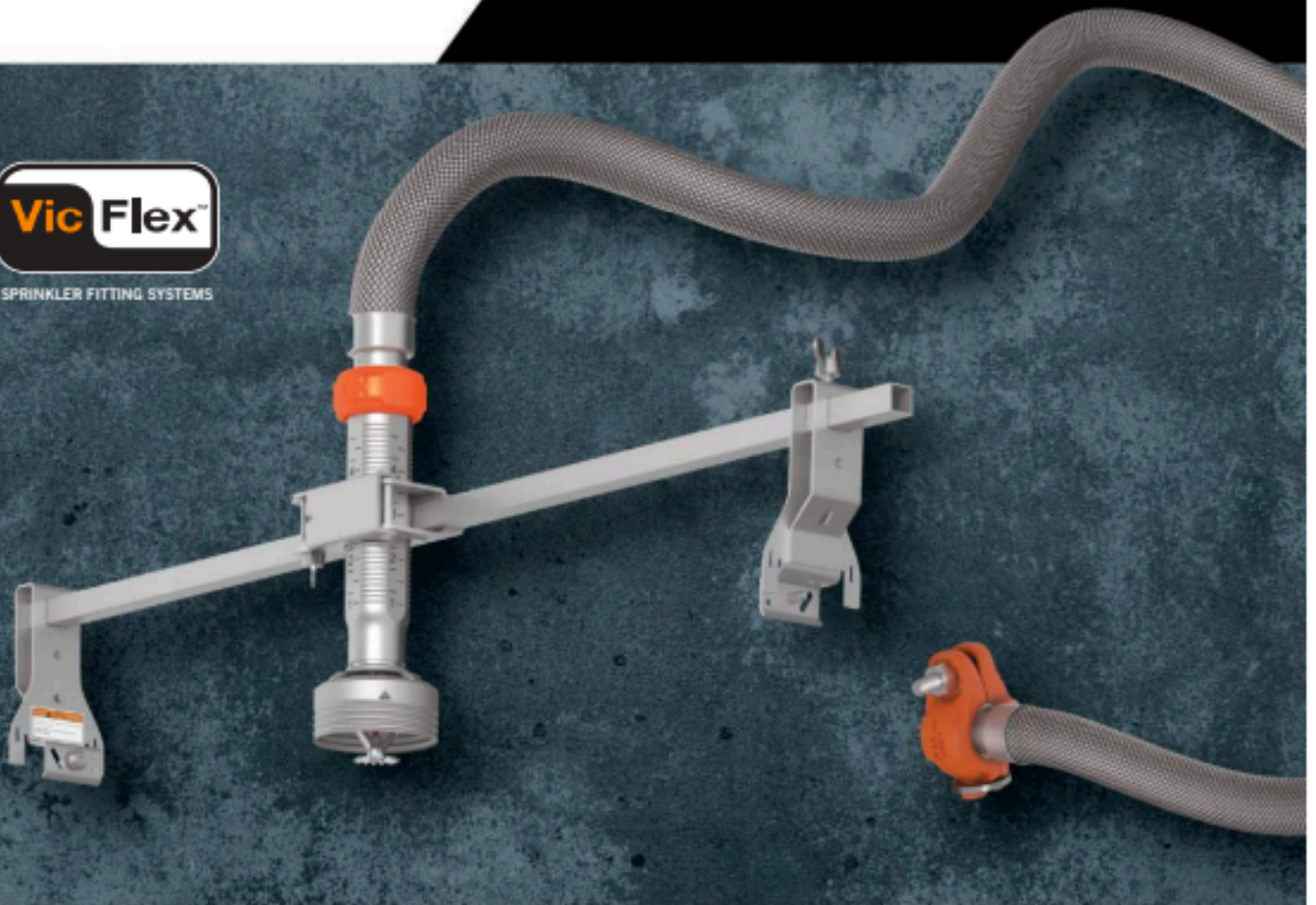
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Legislative News



The New Jersey State League of Municipalities is a non-partisan, non-profit voluntary association, founded in 1915, to further enhance the ability of New Jersey's municipal governments to represent their constituents by:

- Acting as a forceful advocate for New Jersey's municipalities before the State and federal governments.
- Serving as a definitive information clearinghouse and providing educational opportunities for elected and appointed officials.
- Providing networking opportunities and forums for discussions and sharing of mutual concerns.

Governor Conditionally Vetoed Bills Concerning Code Enforcement

On Thursday, Governor Murphy conditionally vetoed two pieces of legislation concerning code enforcement that the League advocated against. A-5130/S-4128 would require an enforcing agency to conduct an inspection of construction in a specified time window, and A-5264/S-4100 would require the establishment of an automated platform to expedite construction code approval of applications to install residential solar energy systems.

A-5130/S-4128 would require an enforcing agency to give written notice, within 24 hours of a construction inspection request, to the property owner or person responsible for the work, stating the 2.5-hour period when the inspection will occur. The bill would allow the owner or person responsible for the work to file a complaint against the enforcing agency or code inspector if the enforcing agency fails to perform an inspection within the stated timeframe.

The League opposes this legislation and has expressed concerns to the sponsor that the recruitment, training, and retention of Code Enforcement Officers has been an ongoing challenge for local governments that has continued to get worse. Additionally, the lack of resources makes the 2.5-hour period nearly impossible.

The Governor's conditional veto proposed modifications that would expand the 2.5-hour window to 4 hours and amendments to exempt municipalities in which DCA acts as the local enforcing agency and the DCA enforcement system.

A-5264/S-4100 would create a "State Smart Solar Permitting Platform" developed and implemented by DCA that would be available to local enforcing agencies, private plan-review and inspection agencies, and solar-panel contractors 24 hours a day, to review applications to install residential solar panels for compliance with the State Uniform Construction Code (UCC) and instantly release permits for applications determined to comply with the UCC. The bill would require local enforcing agencies to allow individuals to submit permit applications through the Smart Platform or to adopt an alternative automated solar permitting platform that meets the bill's requirements. Local enforcing agencies that elect to use the Smart Platform would be obligated to reduce their fees for permits to install residential solar projects. Additionally, DCA would be required to fully implement the Smart Platform within 12 months of enactment, provide training opportunities to local enforcing agencies on the Smart Platform, and adopt rules and regulations implementing the bill's requirements.

Legislative News



The League opposes this legislation and has expressed concerns to the sponsor that the legislation is overly burdensome in an area of local government that is already challenging with resources. Additionally, concerns were raised regarding the plan approval process and ensuring that UCC compliance is intact. The Governor's conditional veto proposes that the DCA stipulate requirements for the Smart Platform in a Request for Proposal that includes requiring the automated system to use the UCC as the basis for compliance review and to issue approval for only code-compliant plans and documents, which local enforcing agencies will use during inspections to ensure proper solar panel installation. In addition, the automated system must issue permits to construct a residential solar energy system only upon confirmation that the application was submitted by a licensed contractor, licensed architect, or licensed engineer and that licensed professionals prepare the application materials, as required by the UCC, that are within their discipline under relevant law or regulation. The Smart Platform must also be able to make timely updates necessary to conform with changes to the UCC and other applicable State laws. DCA should also consult with the Board of Public Utilities and the Office of Innovation during the RFP process and the implementation of the selected platform.

If the Legislature concurs with the Governor's recommendation, the League will provide updates as necessary.

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2025-2026 NJ ASPE MEETING & EVENT SCHEDULE

Meeting Date	Topic	Time & Location
TBD DECEMBER	Holiday Party	Il Castellos 81 Main Street Woodbridge, NJ 07095
Wednesday January 7 th , 2026	2026 ASRAE/ASPE/MCA JOINT RECEPTION	Galloping Hill Caterers 1085 Galloping Hill Rd. Union, NJ 5pm-8pm
Wednesday January 21 st , 2026	2025-26 Technical Meeting 04: Hydraulic Calculation & Design of Sprinkler Systems in Revit	12pm-1pm Virtual Lunch Meeting
Wednesday February 18 th , 2026	2025-26 Technical Dinner Meeting 05: NFPA & The different haazard classifications Speaker: Karl Wiegand, P.E.	Il Castellos 81 Main Street Woodbridge, NJ 07095
Wednesday March 18 th , 2026	2025-26 Technical Dinner Meeting 06: Expansion Tank Sizing Tabletop Sponsor: Amtrol	Il Castellos 81 Main Street Woodbridge, NJ 07095
Wednesday April 15th, 2026	2025-26 Technical Dinner Meeting 07: Venting Speaker: Dan O’Gorman, CPD	Il Castellos 81 Main Street Woodbridge, NJ 07095
Wednesday May 20 th , 2026	2025-26 Technical Dinner Meeting 08: Sprinklers & Fire Protection Speaker: Sam Schwander	Il Castellos 81 Main Street Woodbridge, NJ 07095
Thursday May 21 st 2026	NJ ASPE 35 th Annual Golf Outing	New Jersey National GC 579 Allen Rd, Basking Ridge NJ 07920

Life may drain you, but our chapter events will keep the flow going!

Life may drain you, but our chapter events will keep the flow going!

Meeting Date	Topic	Time & Location
Wednesday June 17 th , 2026	2025-26 Meeting 09: TBD Awards Ceremony/New Board of Directors Announced	TBD



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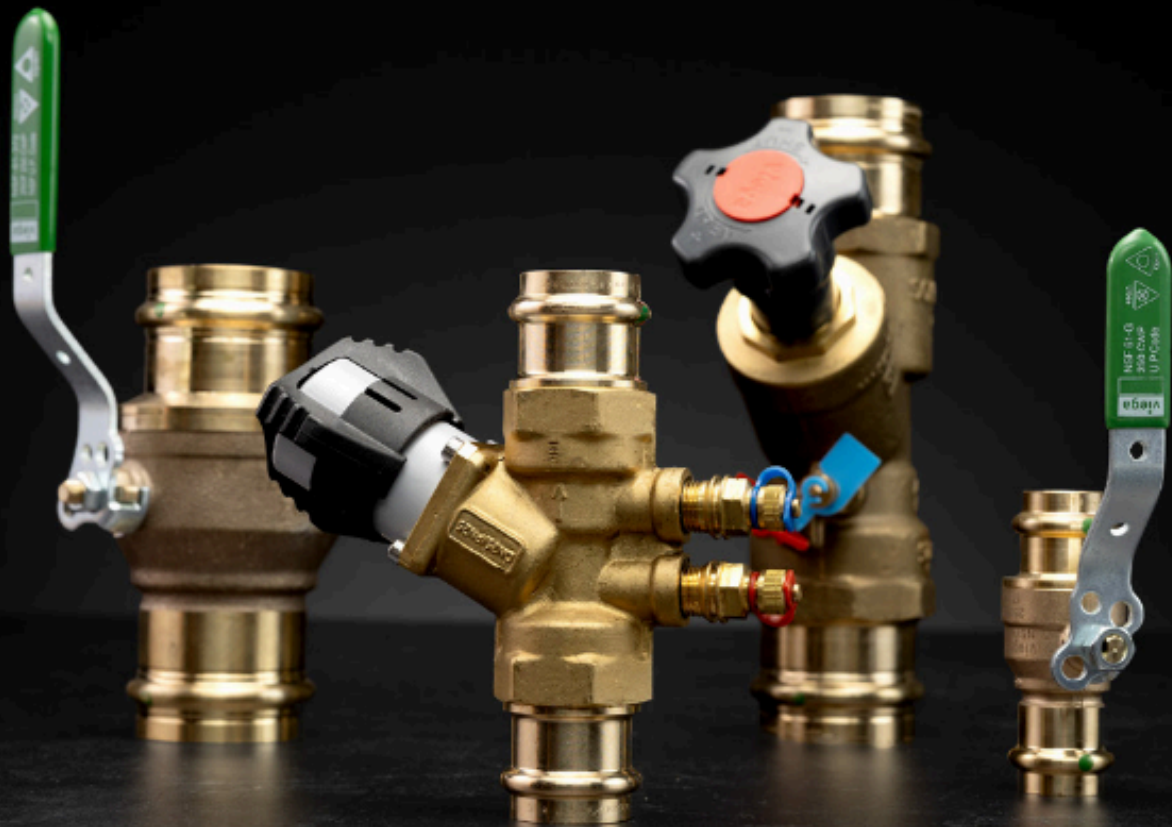
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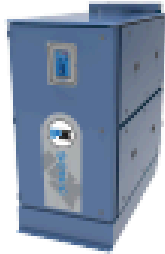
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