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ASPE NEW YORK CITY CHAPTER

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

<http://www.aspenyc.org>

F E B R U A R Y M E E T I N G I N F O R M A T I O N

Topic: Rainwater Harvesting Systems

Speaker: Ray Lynady

Sponser: Highmark

Date: February 5th, 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



Members of the NYC Chapter,

It was great to see everyone at the first meeting of the 2025! It was cold that night and as I write this we are going through a deep freeze and have just had the first significant snow fall of the year. I hope it warms up soon!

2025 will be an exciting year for the New York City Chapter as we will be celebrating our 50th anniversary in October! Hopefully it will be as exciting and memorable as our 40th was!

I would like to draw attention to a new initiative, this Engineers Week, where we will be starting recognizing engineers that are active in promoting MEP Engineering to the next generation. Please see page 5 for more information.

The ASPE 2025 ASSE 6060 Workshop will be held March 20-23 in Rosemont (Chicago), Illinois, registration will open soon.

Every two years we hold elections for the board of the NYC chapter. The next election will be in June 2025, for the 2025-2027 board. You do not have to be an existing board member to run for a position. The board provides a suggested roster for each position but there are write-ins for each role. If you are interested, please contact a current board member. We are also looking for individuals who are interested in being involved as ASPE Young Professional's (AYP), which is an appointed liaison position. If you are interested please contact a current board member.

Every two years we hold a Plumbing and Fire Protection Exposition in the Spring. We will providing more information on this event that will be held this spring! Past information from 2023 can be found here: [https://aspenyc.org/Plumbing Fire Protection Exposition](https://aspenyc.org/Plumbing_Fire_Protection_Exposition)

Save the date for the 2025 ASPE Tech Symposium, which will be held in Orlando, FL September 24-28. For more information please check out: <https://aspe.org/2025-aspe-tech-symposium/>

We are looking for engineers to present on their favorite topics and specializations. Please don't be shy, your expertise will help inform and educate our engineering community. Please send any suggestions, topics, or ideas to ny.aspe@gmail.com.

Additionally, if anyone has any suggestions regarding ways to make our chapter better, or if there are any questions, please reach out to us via the email address above.

Best Regards,
Robb Risani, P.E., CPD

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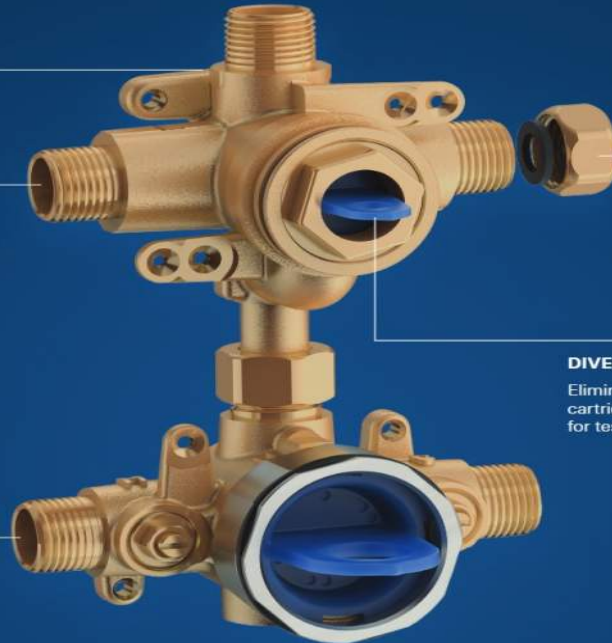
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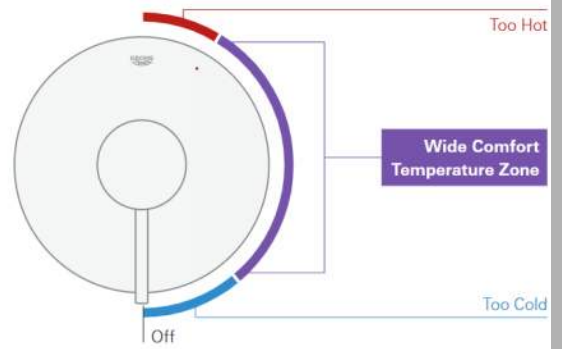
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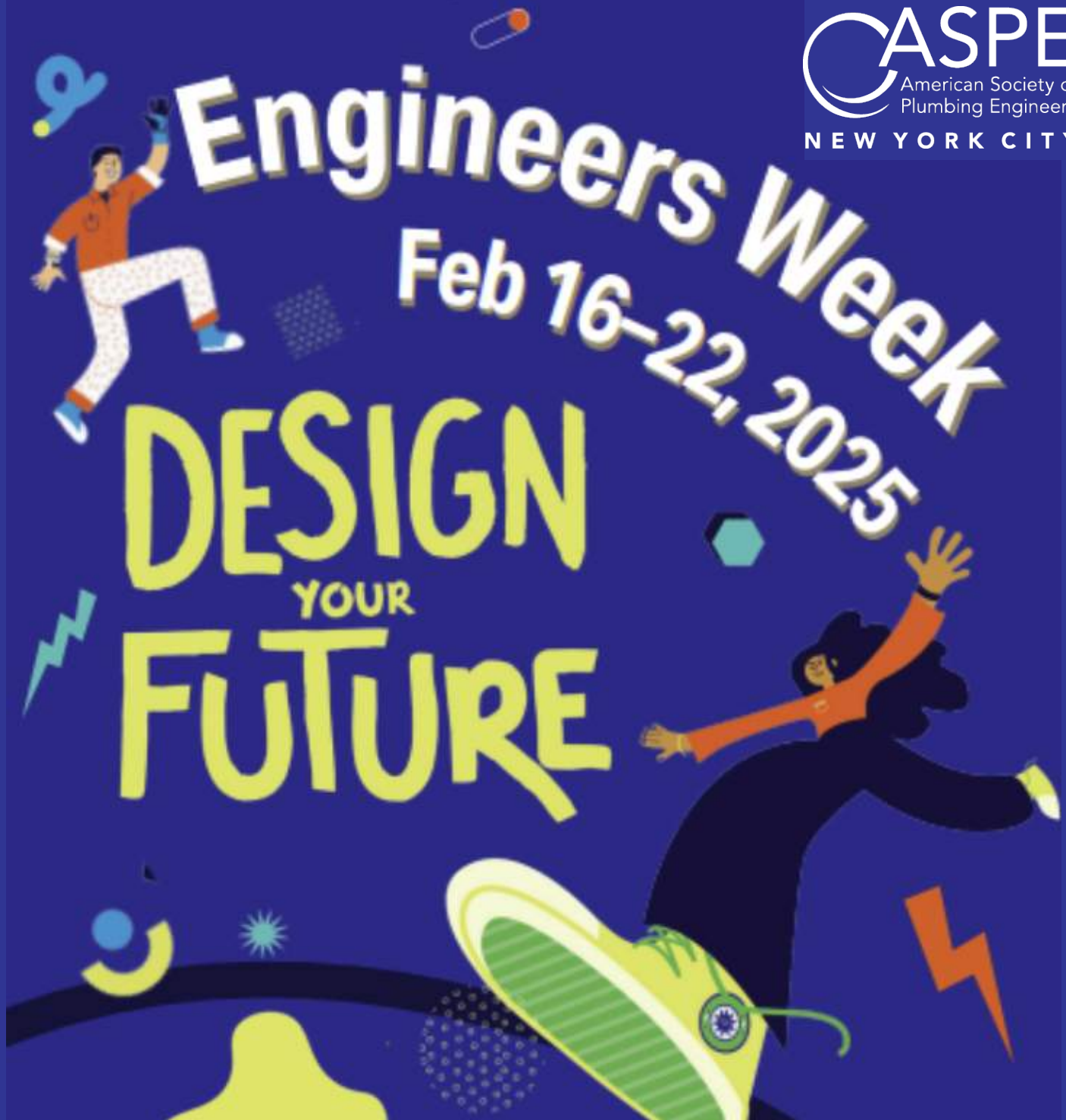
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We are looking to **recognize members** and their peers who are active in **promoting MEP Engineering** to the **next generation!** Send us (ny.aspe@gmail.com) info, **by February 9th**, on who you think should be **acknowledged** for their efforts. A few individuals will be selected for a **special appreciation event!**



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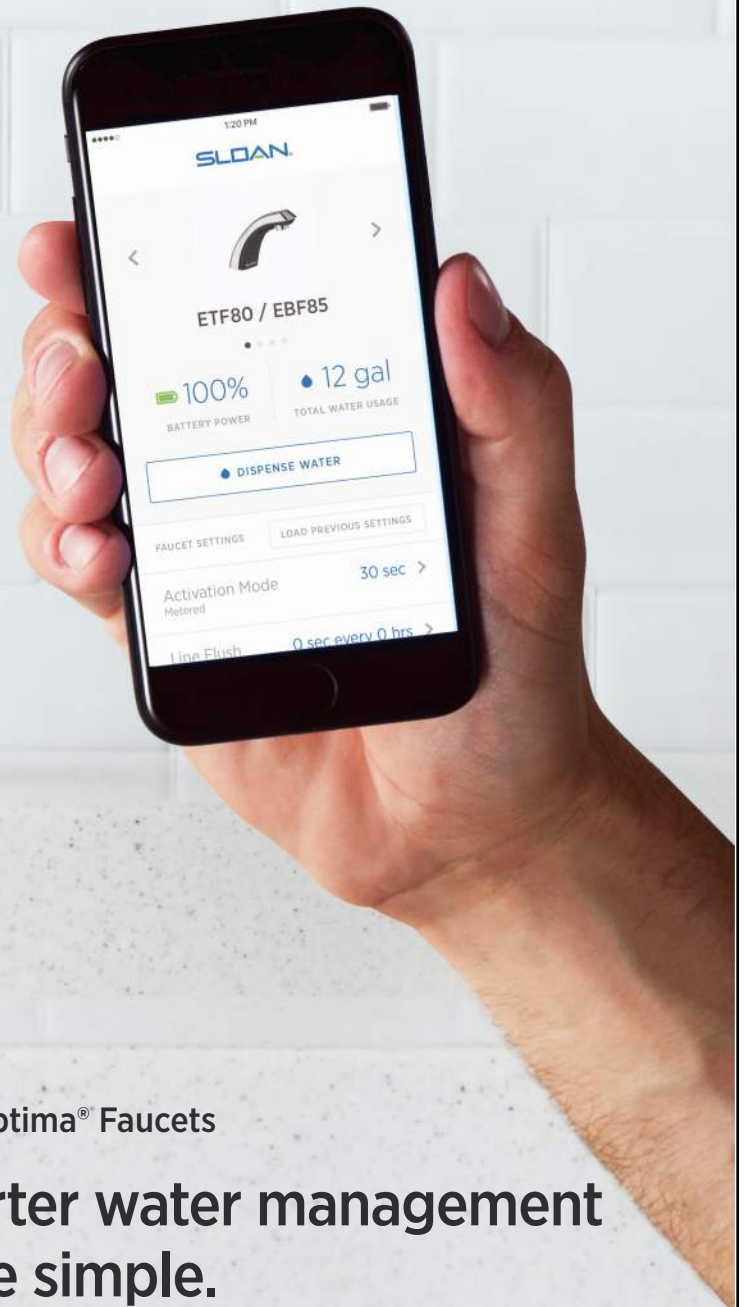
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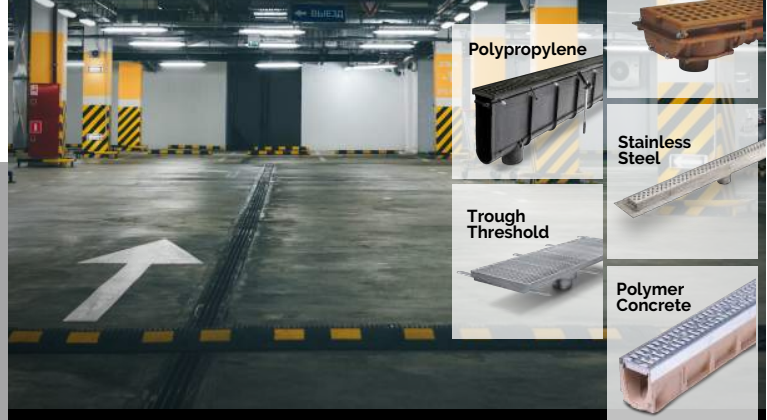
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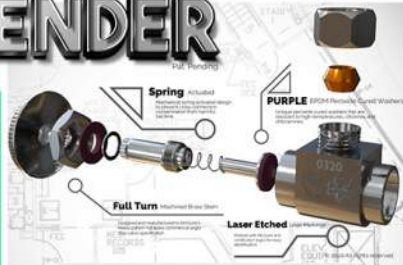
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Vapor Corrosion Inhibitors Outperform 98 % Nitrogen in Mil Loss Testing

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White Paper

Better Corrosion Protection for Dry and Pre-Action Fire Sprinkler Systems - Vapor Corrosion Inhibitors Outperform 98 % Nitrogen in Mil Loss Testing

December, 2024

Abstract

Dry and pre-action fire sprinkler systems face unique challenges from internal corrosion, which can compromise their performance and service life. While high-purity nitrogen has long been used to mitigate these effects, Vapor Corrosion Inhibitors (VCIs) are now being tested for application in fire protection systems. This study compares compressed air, 98% nitrogen, and VCIs over 12 months, demonstrating VCIs significantly reduce corrosion—up to 7x more effectively than nitrogen and 34x more than air—offering a proven, reliable solution for the Fire Sprinkler Industry.

Fire Protection Air Supply Codes & Standards Updates for 2025 - Reference Guide



Air Supplies

- **8.2.7.5.2** – Where an air compressor is dedicated for the sprinkler system, the air compressor shall be listed for fire protection
- **8.2.10.2** – The nitrogen generator shall be capable of supplying and maintaining at least 98 percent nitrogen concentration throughout the system at a minimum leakage rate of 1.5 psi (0.1 bar) per hour.

Vapor Corrosion Inhibitors

- **8.2.11.1** – The vapor corrosion inhibitor shall be from a listed assembly permanently installed in accordance with the manufacturer's instructions.
- **8.2.11.2** – The vapor corrosion inhibitor equipment shall be maintained in accordance with Chapter 32 and the manufacturer's instructions.
- **8.2.11.3** – A means of verifying vapor concentration shall be provided for each system.
- **16.4.2.5** – Where conditions are found or are known to exist that contribute to unusual corrosive properties, the owner(s) shall notify the sprinkler system installer and a plan shall be developed to treat the system using at least one of the following methods:
 - (7) Use a listed vapor corrosion inhibitor delivery system sized and installed in accordance with the manufacturer's instructions.



Friction Loss and C Value

- **28.2.4.8.1** – Pipe friction loss shall be calculated in accordance with the Hazen-Williams formula with C values from Table 28.2.4.8.1 as follows:
 - (16) In new systems, an increased C value of 120 shall be permitted where a vapor corrosion inhibitor is provided in accordance with 8.2.11

Changes to NFPA 14 for Standpipe Systems

Supervisory Air

- **8.3.2.1.1** – All dry standpipe system piping shall be supervised with supervisory air.
- **8.3.2.2.5.1** – The compressed air supply shall be from a source available at all times
- **8.3.2.2.5.2** – The air supply shall have a capacity capable of restoring normal air pressure in the system within 30 minutes



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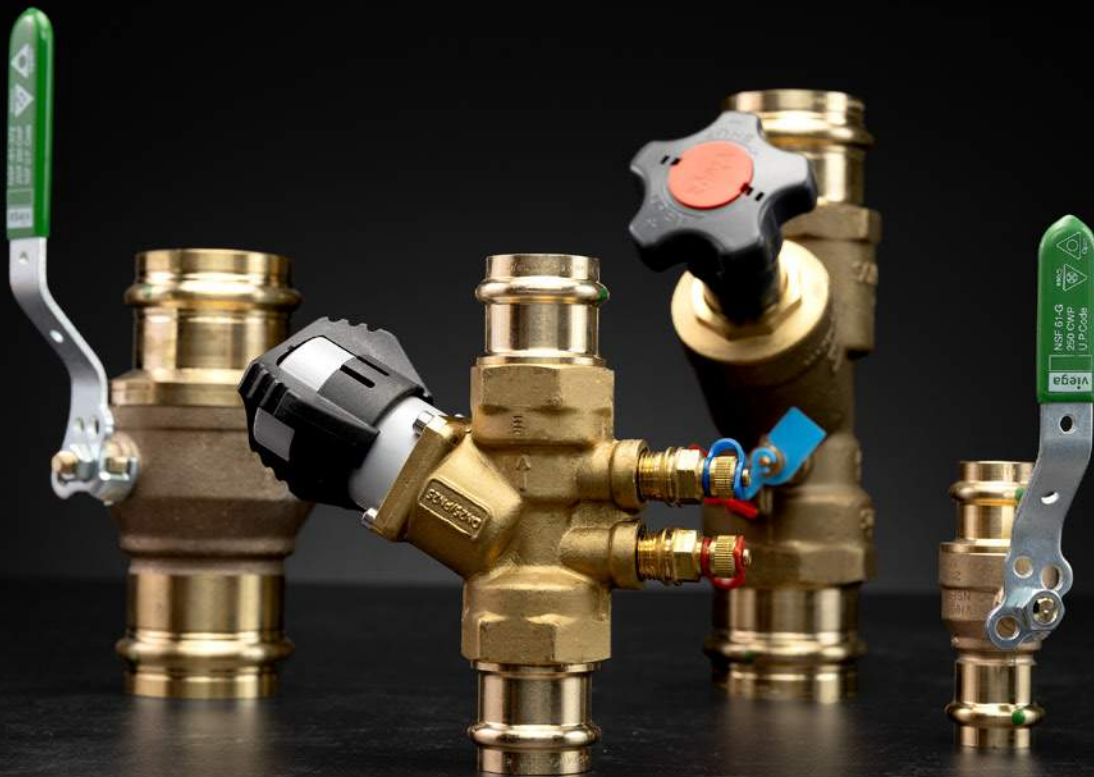


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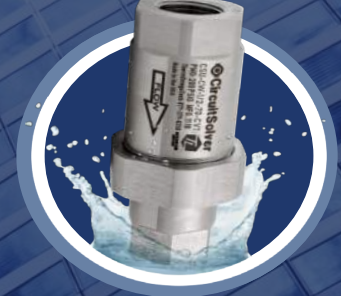
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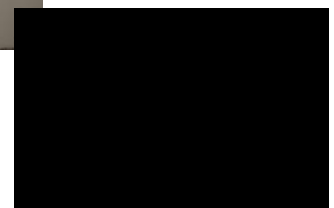
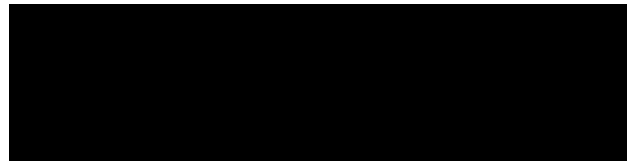
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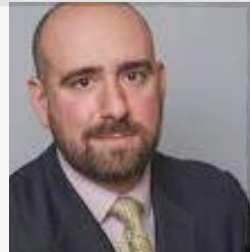
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Dear NYC ASPE Members,

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

Email: rotoliv@vfreengineering.com



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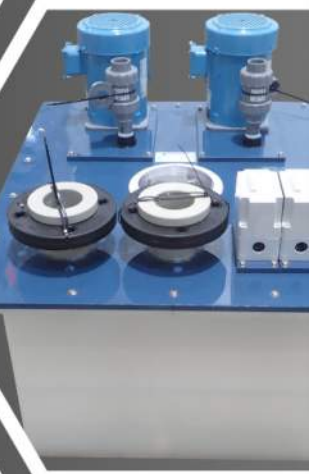
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JANUARY MEETING MINUTES

Steve opened the meeting by wishing everyone a happy new year and welcoming them to the first meeting of 2025. Next, ASSE Board members took the floor to share their upcoming event announcements for 2025, which will include the annual Golf Outing.

Next, Catherine Filibes-Massih of WOA announced that the group is working on a half day event that will happen in June, and will be coordinated with WOA on the National Level; more details will be provided in the upcoming meetings.

Final announcements by Steve included the upcoming ASSE 6060 Medical Gas Design Class which will take place from March 20th to the 23rd, in Rosemont Chicago. Anyone interested in this course can find out more information at aspe.org.

Finally, before the commencement of the presentation, Steve reiterated the effort that our presenters put into each meeting and asked that they be given the quiet and attentiveness they deserve.

Technical Presentation: “Hydronic & Thermal Expansion Control” by Kenneth Rutherford

Kenneth delivered a comprehensive presentation on the role of expansion tanks in managing pressure within hydronic heating, cooling, and potable water systems. The discussion encompassed the design, functionality, and advancements in expansion tank technology, emphasizing products from Amtrol.

Purpose of Expansion Tanks

Expansion tanks are essential components in closed water heating and cooling systems. They absorb the increased water volume resulting from thermal expansion, thereby maintaining system pressure within safe limits and preventing potential damage to system components.

Purpose of Expansion Tanks

Manage hydronic and thermal expansion in HVAC and potable water systems. Ensure consistent system pressure to prevent issues such as spillage, noise, corrosion, and system inefficiency.

Hydronic Expansion Tanks

Design and Function: Use a pre-charged air cushion separated from system water, following Boyle's Law to maintain equal air and water pressures. Diaphragm and bladder tank designs prevent relief valve activation and eliminate spillage. Hydronic expansion tanks are designed to control pressure in closed hydronic heating and cooling systems. These tanks are available in diaphragm, partial acceptance bladder, and full acceptance bladder designs, accommodating system sizes ranging from 6.4 gallons (24 liters) to 3,963 gallons (15,000 liters). They are effective at maintaining positive pressure in a wide variety of HVAC systems.

Tank Sizing Factors: Account for expanded water volume, tank gas compression, and system pressure and temperature variations.

Thermal Expansion Tanks for Potable Water Systems

In potable hot water systems, thermal expansion tanks are designed to control pressure buildup which will occur due to the change in temperature of the water. As water is incompressible, when it is heated, an additional volume of water is created which must be stored somewhere. In commercial domestic water systems, there is usually a backflow prevention device in the water supply which prevents that additional volume of water from travelling anywhere past the backflow preventer. Thus, the thermal expansion tank is used to absorb the additional volume of water, in order to prevent excessive pressure buildup that can damage the piping or components. Thermal expansion tanks are available in diaphragm, partial acceptance bladder, and full acceptance bladder designs, with sizes ranging from 2 gallons (7.6 liters) to 528 gallons (2,000 liters). They offer maximum working pressures up to 300 PSIG (21 bar), effectively protecting water heaters and other plumbing fixtures while saving energy and money.

Maintenance and Air Management

Air Elimination: Proper air elimination is crucial for maintaining system efficiency and longevity. Issues with traditional compression tanks include air-bound radiation, sludge, and efficiency loss. New technologies like tangential and micro-bubbler air separators effectively remove air from systems, reducing maintenance requirements and improving performance.

Advancements in Legionella Protection

New tank designs feature Legionella-suppressive liners, incorporating silver-ion compounds for bacterial reduction. This innovation offers protection against Legionella, E. coli, and Staph for the tank's lifespan. These liners have been tested to JIS Z 2801 standards for the reduction of said diseases, aligning with ASHRAE 188 anti-Legionella guidelines. This advancement enhances the safety and quality of potable water systems.

Considerations for Tank Sizing

Sizing Tools: Accurate sizing of expansion tanks is vital for optimal performance. Many manufacturers provide selection tools to assist in determining the appropriate tank size based on system parameters, ensuring effective pressure control and system protection.

- **HVAC Systems:**
 - Consider antifreeze concentration, system content, and pressure-temperature variations.
- **Potable Water Systems:**
 - Factor in source water pressure and temperature, water heater volume, and relief valve settings.
 - Air-Precharge of tank can be modified in the field, and should be set at the working pressure of the system

Members were thanked for their attentiveness and respect for the presenter, and are encouraged to visit aspencyc.org where the presentation is uploaded to or contact Kenneth Rutherford at kenneth.rutherford@wthg.com for more information.



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T: (631) 585-6800 F: (631) 585-6838

Edwards, Platt & Deely

368 Wyandanch Ave., North Babylon, NY 11703
T: (631) 253-0600 F: (631) 253-0303

www.epdreps.com

Elkay c/o Dellon Sales Company

5 Albertson Avenue, Albertson, NY 11507
T: (516) 625-2626 F: (516) 625-3030

Federal Pump

1144 Utica Ave., Brooklyn, NY 11293
T: (718) 451-2000 F: (718) 629-0367

G.A. Fleet Associates

55 Calvert St., Harrison, NY 10528
T: (914) 835-4000 F: (914) 835-1331

Geberit

2100 S. Clearwater Dr. Des Plaines, IL 60018
T: (847) 803-5000

www.geberitnorthamerica.com/home/

Harper Control Solutions Inc.

1010 Washington Blvd, Stamford, CT 06901
T: (203) 964-1900 F: (203) 964-4900

www.HarperValves.com

Heat Timer Corp.

20 New Dutch Lane, Fairfield, NJ 07004
T: (973) 575-4004 F: (973) 575-4052

www.heat-timer.com

Highmark

49 W. 45th St., 6th Floor New York, NY 10036
T: (212) 920-4878

www.highmark.co

Holby Valve Co. Inc.

24 Ferdon Street, Newark, NJ 07105
T: (973) 465-7400 F: (973) 465-7475

www.holbyvalve.com

Isseks Bros.

298 Broome Street, New York, NY 10002
T: (212) 267-2688

www.isseks.com

Kohler

Joe Ghazarian
(215) 378-4903

joseph.ghazarian@kohler.com

Lawrence Lowy Associates

113 DeWitt St., Suite 203, Garfield, NJ 07026
T: (973) 772-9224 F: (973) 772-9226

Lixil (American Standard/Grohe)

Mike Ford
(732) 628-6367

michael.ford@lixil.com

LPI Controls

442 W 49th St, NY, NY 10019
T: (212) 244-8878

Mifab c/o Platsky

298 Montrose Road, Westbury, NY 11590
T: (516) 860-5813 F: (516) 333-9446

Metropolitan Industries, Inc.

37 Forestwood Dr. Romeoville, IL 60446
T: (815) 886-9200

[metropolitanind.com](http://www.metropolitanind.com)

Nibco Valve Co.

1516 Middlebury St., Elkhart, IN 46515-1167
T: (973) 886-5322 F: (574) 295-3307
www.nibco.com

Platsky Company

298 Montrose Road, Westbury, NY 11590
T: (516) 860-5813 F: (516) 333-9446

<https://platsky.com/>

Reliable Automatic Sprinkler Co. Inc.,

103 Fairview Park Drive, Elmsford, NY 10523
T: (800) 431-1588 F: (800) 848-6051

www.reliable sprinkler.com

Rheem c/o Dellon Sales

1100 Abernathy Rd, Suite 1700 Atlanta, GA 30328
<https://www.rheem.com/>

Rosenwach Tank Co. Inc.

43-02 Ditmars Blvd. 2nd Floor
Astoria, NY 11105

T: (718) 729-4900 F: (718) 482-0661

SCHOTT North America, Inc.

2 International Drive, suite 105
Rye Brook, NY 10573

T: (914) 831-2215 F: (914) 831-2368

Sloan, c/o Edwards, Platt & Deely

368 Wyandanch Ave., W Babylon, NY 11703
T: (631) 253-0600 F: (631) 253-0303

Synergy Process Solutions, LLC

4610 Entrance Drive Suite H
Charlotte, NC 28273

T: (704) 529-5442

www.pattonsmmedical.com

T&S Brass & Bronze

2 Saddleback Cove, P.O. Box 1088
Traveller's Rest, SC 26990-1088

T: (864) 834-4102 F: (864) 834-3518

www.tsbrass.com

Town & Country Plastics

10B Timber Lane, Marlboro, NJ 07746
T: (732) 780-5300 F: (732) 294-0001

www.tandcplastics.net

Viking Corp

Jim Dooley
(215)280-4764

jdooley@vikingcorp.com

Viega

9-03 44th Rd. Long Island City, NY 11101
T: (718) 308-6320

www.viega.us

Wales Darby Inc.

2910 Express Drive South, Islandia, NY 11749 T:
(631) 585-6800 F: (631) 585-6838

Wallace Eannace Associates

50 Newton Rd., Plainview, NY 11803
T: (516) 454-9300 F: (516) 454-9307

www.wea-inc.com

Watts, c/o Edwards, Platt & Deely

368 Wyandanch Ave., W. Babylon, NY 11703
T: (631) 253-0600 F: (631) 253-0303

Woods & Jaye Sales

33-09 37th Ave., LIC, NY 11101
T: (718) 786-8260 F: (718) 786-5393

sales@wjny.com www.wjny.com

Zurn, c/o Dellon Sales

5 Albertson Avenue, Albertson, NY 11507
T: (516) 625-2626 F: (516) 625-3030