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CIRC 450

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**President: Robb A Risani, PE, CPD**

ARUP , 77 Water St., NY, NY 10005  
T: (212) 896-3000 E: robb.risani@arup.com

**Vice President Technical: Sean Mooney, LEED GA, CPD**

Bard,Rao+Athanas Consulting Engineers, 105 Madison Ave., NY, NY 10016  
T: (212) 840-0060 E: SMooney@brplusa.com

**Vice President Legislative: Joseph Tagliaferro, PE**

Bard,Rao+Athanas Consulting Engineers, 105 Madison Ave., NY, NY 10016  
T: (646) 205 -7243 E: jtagliaferro@brplusa.com

**Vice President Membership: Steve Ryback**

Woods & Jaye Sales 33-09 37th Ave., LIC, NY 11101  
T: (718) 786-8260 E: Steve.Ryback@WJNY.com

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E: srachiele@optonline.net

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ARUP , 77 Water St., NY, NY 10005  
T: (212) 896-3000 E: esteban-c.rolدان@arup.com

**Corresponding Secretary: Daniel Blatto**

Dellon Sales, 5 Albertson Ave, Albertson NY 11507  
T: (516) 660-5582 E: danielblatto@dellonsales.com

**ASPE Young Professional: Edbin Gonzalez-Calderon, PE**

Collado Engineering, 445 Hamilton Ave. Suite 608 White Plains, NY 10601  
T: (914) 315-7682 E: Egonzalez@collado-eng.com

**Social Chair/ASPE Young Professional: Sasha Fernandez**

Dellon Sales, 5 Albertson Ave, Albertson NY 11507  
T: (516) 592-3293 E: sashaf@dellonsales.com

**ASPE/ASSE & Affiliate Liaison: Steve Ryback**

Woods & Jaye Sales 33-09 37th Ave., LIC, NY 11101  
T: (718) 786-8260 E: Steve.Ryback@WJNY.com

**Women of ASPE Liaison Region 1: Catherine Filibes-Massih**

Platsky Companies, 298 Montrose Road, Westbury, NY 11590  
T: (914) 356-0407 E: cfmassih@platsky.com

**Newsletter Editor & Webmaster: Robb A Risani, PE, CPD**

E: nycaspenewsletter@gmail.com E: ny.aspe@gmail.com

**ASPE NEW YORK CITY CHAPTER**

PO BOX 293, GRAND CENTRAL STATION, NY, NY 10163  
<http://www.aspenyc.org>

**JUNE  
MEETING  
INFORMATION**

Topic: New Innovations in Medical Gas Piping  
Speaker: Mathis Carlson  
Sponser: Omegaflex

Date: June 4th, 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



**If you wish to receive only digital copies of the newsletter please email [nycaspenewsletter@gmail.com](mailto:nycaspenewsletter@gmail.com).**

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# A Message

## FROM THE PRESIDENT



Members of the NYC Chapter,

As I am writing this message, I am looking forward to the long Memorial Day Weekend, whilst honoring and remembering those who gave their all for our freedom.

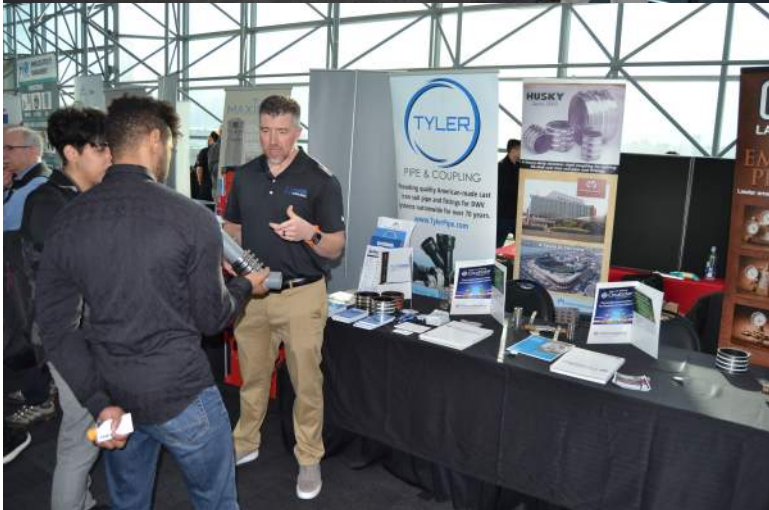
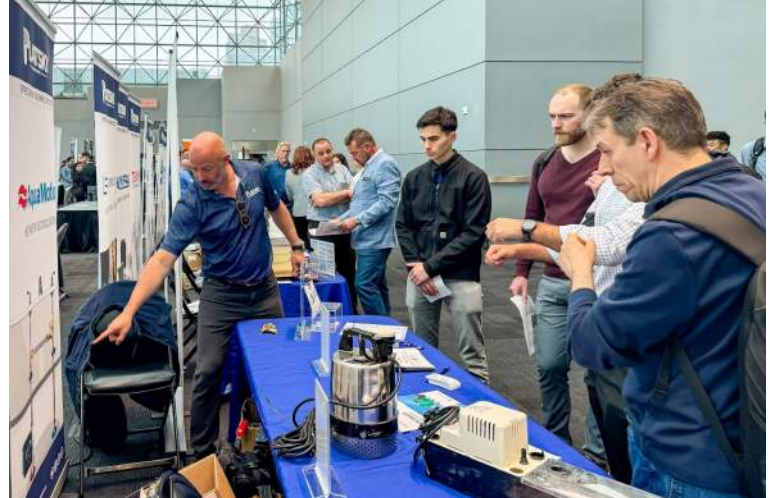
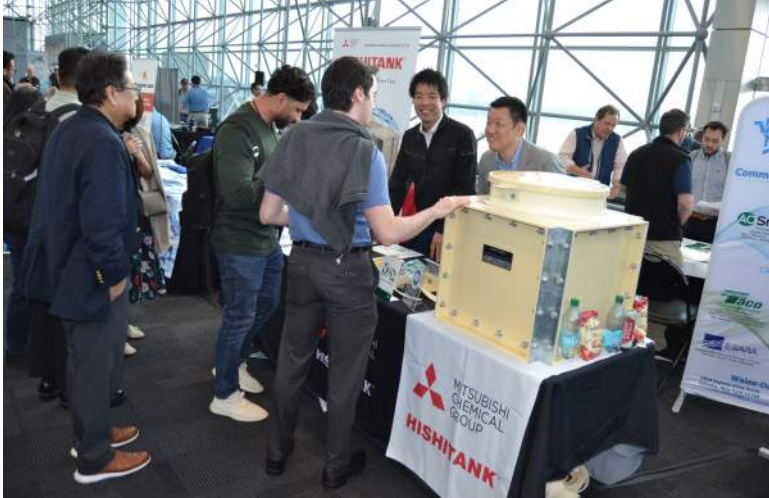
It is bittersweet that after 4 years, this 40th message from the president will be my last. I think we have accomplished many great things in these past four years. We returned from Covid a better and stronger chapter becoming the largest chapter in the history of the society, becoming the first chapter to 403 and never looking back.

I will be tallying up the votes from the election and a separate announcement email will be going out announce the new 2025-2027 board. As this is our 50th anniversary year and we are planning a special event in October to celebrate, a public Elected Board of Directors Oath of Office will be planned for that special event.

I would also like to thank our sponsors and everyone that attended the 2025 NYC ASPE Plumbing and Fire Protection Exposition on May 15th. It was a fantastic event! Please see the pictures below and on the next page.

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





For more information please reach out to:  
 Mike Ford  
 Leader, Engineering & Commercial Plumbing Mechanical  
 732-628-6367

American Standard

DXV

GROHE

INAX

PART OF LIXIL

grohe.us

## GROHSAFE 3.0 PRESSURE BALANCE VALVE WITH INTEGRATED DIVERTER

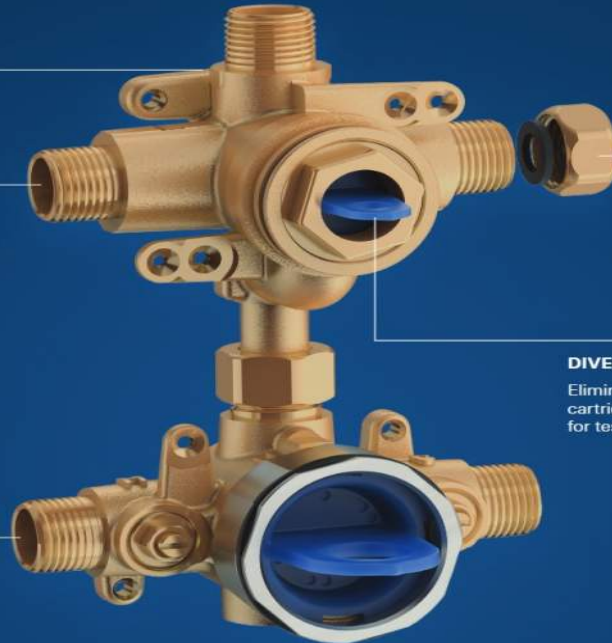
new

### FLAT BACK

Easy & solid installation allows the valve to be mounted flush with the cross brace

### ALIGNED INLETS & OUTLETS

Eliminates potential for misaligned piping & rough-in mistakes from different cross brace depths



### 2-WAY & 3-WAY CONVERTIBLE

Use same valve body for both 2-way & 3-way applications

### DIVERTER TEST CAP

Eliminates need to remove cartridge during installation for testing & flushing lines



### DynaClean Wiper Spring

DYNACLEAN, our exclusive, self-cleaning technology, cleans the refill orifice with every flush, and helps prevent valve run-on. The integral wiper spring keeps the orifice clear of debris and mineral build-up for improved performance and less maintenance.

### EvoLast Diaphragm

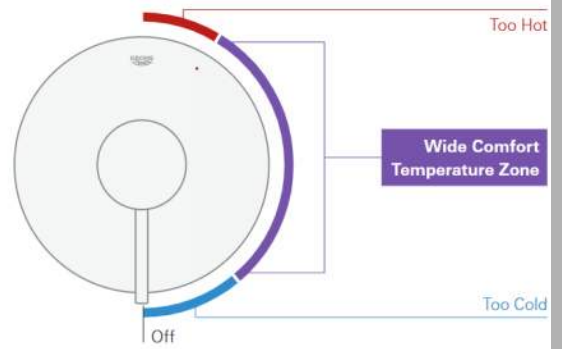
EVOLAST, a premium, chlorine-resistant diaphragm material delivers consistent performance and resists premature deterioration and failure.

### EASY RETROFIT, ENHANCED PERFORMANCE

Ultima Flush Valves are easy to retrofit in place of most popular piston and diaphragm flush valves. The industry standard rough-in dimensions allow for an easy switch.

Ultima Diaphragm Assemblies can be installed in diaphragm flush valves from other major manufacturers, making it easy to improve performance and ensure reliability in existing applications.

### GROHSAFE 3.0 PRESSURE BALANCE VALVE



Thermostatic 1070\_TMV



Selectronic Cast

Selectronic Gooseneck

Selectronic IC

Innsbrook Selectronic

Serin Deck Mount

Serin Wall Mount

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

Thanks for turning to black and red for decades. We're proud to be part of your incredible city. Without you, NYC wouldn't be the same, and neither would we.

**CHARLOTTE**  
PIPE AND FOUNDRY COMPANY

# EDMUND D. WALLACE MEMORIAL ASSE/ASPE JOINT GOLF CLASSIC

MONDAY, AUGUST 11, 2025



HAMLET WIND WATCH  
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HAUPPAUGE, N.Y. 11788  
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ALL-INCLUSIVE GOLF  
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\* **PLAYER CAP @ 128 GOLFERS** \*  
DINNER & COCKTAIL HOUR ONLY  
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HOLE SPONSOR  
\$200.00 (PER HOLE)  
HALFWAY HOUSE SPONSOR  
\$1,500.00 EACH  
BEVERAGE CART SPONSOR  
\$1,500.00 EACH



There will be Closest-to-the-Pin and Longest Drive prizes. We look to all in the manufacturing community to please contribute promotional items for the door prize give-aways during dinner. Any items to be handed-out at the outing shall be sent **PRIOR** to the day of the outing so that they may be distributed at the sign-in before the start of the classic.

### Tentative Schedule

Check-In .....9:30 a.m.  
Brunch .....11:30 a.m.  
Shotgun Start .....1:00 p.m.  
Cocktail Hour .....6:00 p.m.  
Dinner & Prizes .....7:00 p.m.  
Note: Subject to Change!!

**REGISTRATION CUT-OFF  
DATE IS JULY 28<sup>TH</sup> !!!**

**PAYMENT MUST BE RECEIVED WITH THE  
GOLFERS' NAMES! NO NAMES WILL BE  
ADDED WITHOUT PAYMENT!!!!**

Make Checks Payable to: NY Chapter, Inc. of the A.S.S.E.  
Mail Checks to: Charles Magnelli, 6204 Fredd ILL Jr. Court, Pearl River, NY 10965  
For Credit Card Payment, Email registration to Tom, [tlentine@holby.com](mailto:tlentine@holby.com). Fees will apply  
Email registration with names to Eric, [eric.sawinski@wsp.com](mailto:eric.sawinski@wsp.com)  
For additional information, please call Charles Magnelli at 646-477-061

Name: \_\_\_\_\_ Firm: \_\_\_\_\_

Address: \_\_\_\_\_ Zip: \_\_\_\_\_

Tel: \_\_\_\_\_ Fax: \_\_\_\_\_ Number of Golfers: \_\_\_\_\_ (Provide names below)

GOLF & DINNER \_\_\_\_\_ DINNER ONLY \_\_\_\_\_ HOLE SPONSOR \_\_\_\_\_ HALFWAY HOUSE \_\_\_\_\_ BEVERAGE CART \_\_\_\_\_

**IMPORTANT: LIST GOLFERS' NAMES!! (use separate sheet if necessary)**

- |          |          |
|----------|----------|
| 1) _____ | 5) _____ |
| 2) _____ | 6) _____ |
| 3) _____ | 7) _____ |
| 4) _____ | 8) _____ |

**We must have all the golfers' names in order to organize our shotgun start time!**

# RELIABILITY & STRENGTH.



AMERICA'S MOST TRUSTED,  
HIGH-PERFORMANCE,  
HEAVY-DUTY COUPLING.

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performance. Trust the proven leader.  
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Instagram: @appliedht  
Facebook: appliedheattransfer  
LinkedIn: applied-heat-transfer  
Website: www.appliedht.com

## APPLIED HEAT TRANSFER

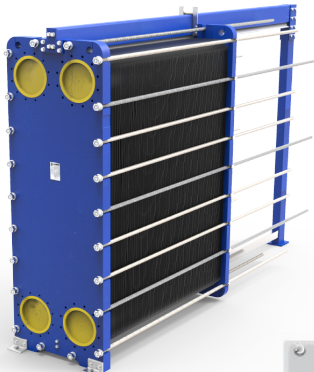
## APPLIED PUMP & SERVICE



Commercial Heating,  
gas-fired boilers,  
domestic water heaters  
and commercial  
pool heaters.  
Sales and service



ECM, Inline, Base  
mounted, Split case,  
Booster packages for tank  
and suction fill, Scot &  
American Marsh



AHRI Certified Gasketed,  
Braze and Welded  
Plate Heat Exchangers.  
Double wall domestic  
hot water generators.  
Full insulation kits  
and drip trays



Indirect water heaters.  
Domestic water heaters  
with storage. Pre-packaged  
and clean steam systems.  
Boiler feed systems.



Sump and Sewage systems,  
complete sub-rig assemblies,  
quick removal, grinders,  
slicers, and submersible  
pumps. PLC controls.  
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Dry-well and de-watering  
pumps.



Packaged commercial pump  
systems for boosters, HVAC  
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NFPA & FM Approved. Full  
controls included.

APPLIED HEAT TRANSFER IS PROUD TO BE CERTIFIED ENTERPRISE MBE BY NYS, NYC, PORT AUTHORITY AND SCA

24/7 Pump Service & Support

24/7 Boiler & Heater Service



# ARE YOU RESPONSIBLE FOR DESIGNING MEDICAL GAS SYSTEMS?



## ASSE 6060



**August 11-15, 2025**

The final exam shall be completed by 1PM on August 15<sup>th</sup>.



**8:00AM - 5:00PM**

Instruction shall be 32 hrs from Mon-Thurs. Exam shall be proctored on Friday morning.



**\$3,200**

Includes: NFPA 99 Code Book, Daily Continental Breakfast, Lunch and ASSE 6060 MGTC Credential

**HOTEL REGISTRATION IS NOT INCLUDED**



**Hampton Inn**

7637 NY-96  
Victor, NY 14564

If you are responsible for designing medical gas systems, read on to see why you should take this class!

**Joe Elward**

**ASSE 6020, 6030, 6035, 6040, 6060  
607-661-9178**

**01**

### **Growing Healthcare Industry**

The healthcare industry is growing rapidly and designing a facility that meets code requirements and owner preferences will be made easier after completion of this course.

**02**

### **Code Requirements**

With the recent release of NFPA 99 2024, the ASSE 6060 is now one of the approved credentials for medical gas designers responsible for the sizing, selection, layout, and more for medical gas and vacuum systems.

**03**

### **Engaging the Facility AHJ**

As Designers and Engineers, I'm sure you've been asked to make decisions for a project that are the responsibility of the owner. This course helps you navigate those conversations to avoid bearing that responsibility as the designer.

**04**

### **Professional Growth**

With this credential, you can seamlessly transition into medical gas design with minimal support from supervisors, helping you become a true medical gas design expert

**05**

### **Class + Credential**

Unlike other companies hosting this course, this class hosted by Sherman Engineering will include both the course led by Mark Allen, as well as the course exam, proctored by MGTC.

**REGISTER**



SPRINKLER FITTING SYSTEMS



# FLEX TO FIT YOUR NEEDS

## SERIES VS2 STANDARD COVERAGE SPRINKLER

The only flexible, UL Listed K5.6 Standard Coverage sprinkler enabling no equivalent length calculations past the branch line.

- ✓ Built to simplify or eliminate hydraulic calculations
- ✓ One assembly with one field connection
- ✓ Reduced pipe preparation and field work

| K5.6 | Quick & Standard Response

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**For More Information Visit: Rheem Commercial Water**  
Where you will find links to Submittals, Revit Drawings, and  
Sizing Sites for all Brands of the Rheem Family.

Contact your Dellon Sales rep  
for all your Rheem inquiries.

[JonR@dellonsales.com](mailto:JonR@dellonsales.com)

516-398-9552

[AndrewCartoun@dellonsales.com](mailto:AndrewCartoun@dellonsales.com)

917-873-3951

Need help with your current  
project? Contact our Application  
Engineer Team by visiting:  
Rheem Application Engineer  
Request Form

## Constellation™ Lavatory System

- Constellation offers **high-level designs**, elevating the look of the space to bring that residential aesthetic into the commercial environment.
- Coordinated designs and pre-built **bundles help to simplify specifying and pricing**.
- Innovative handwashing stations are **easy to clean, install, and maintain**. The system has lockable doors that make components underneath the deck easily accessible.
- Constellation touchless faucets and soap dispensers feature **advanced sensor technology that deliver reliable, responsive actuation**.
- Thoughtfully designed with **ample dry space** where water splash is kept off you and your belongings.

Constellation Lavatory System

Kohler Commercial 2024 Line Book  
(Full Product Portfolio)



CR2  
Commercial  
Riser (can  
be ordered  
separately)

Adjustable  
Pressure  
Relief  
Valve

# BACKED INTO A CORNER?

**THE FCA2 FLOOR CONTROL  
ASSEMBLY FITS JUST RIGHT**

The Model FCA2 is cULus Listed in all sizes and FM Approved in 2"-8". The FCA2 is designed for optimal configuration for any installation scenario. **With 360° rotation of each modular component**, this versatile assembly adjusts to the trickiest corners.

All the components required for a complete floor control assembly. Available in sizes from 1¼"-8".

**One PO.  
One Box.  
One Installation.**

Potter Water  
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Explosion-  
proof and  
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Test & Drain  
available in  
K-factors  
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G Check  
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Grooved  
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Streamline™  
flexible drain  
(ordered  
separately)



Model  
FCA2 Floor  
Control  
Assembly

FCA2 Bulletin #625  
CR2 Bulletin #624

# Reliable®

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Discover the lasting reliability of T&S. From hose reels to sensor faucets, lab equipment to high-end fixtures, T&S offers all the plumbing products you need, with reliability built in. Contact your representative today to learn how T&S can outfit any facility, or visit [tsbrass.com](http://tsbrass.com).



T&S plumbing products represented in New York by: Woods & Jaye Sales Co. Inc. - 718-786-8260

## Temperature Control AND High Temperature Safeguard! "... And the two shall be as ONE."

A safe, reliable hot water system is a marriage between mechanical components and a control system with built-in safeguard protection. The ETV-Plus includes everything you need:

- 3-Way Stainless Steel Electronic Tempering Valve and Actuator that meets the California lead-free standards.
- Temperature Monitoring Control- High Temperature Safeguard with Solenoid Valve
- Remote Communication capability via Internet or BACnet

### Safety that Endures

When the mixing valve sensor detects an overly high supply water temperature, the ETV-Plus signals the solenoid valve located in the hot water supply line to close, shutting off hot water supply to the system. It also triggers an alarm to notify personal and enacts a manual reset requirement so that the valve will not re-open until the problem is resolved.



With remote communications capability (via the Internet or BACnet) these alarms and other control points can be seen and accessed via the internet or an energy Management System.

These interactive components build a foundation for long-term safety.



# Intelligent optical flame detection

Our portfolio of intelligent flame detectors are embedded with cutting-edge technology, ensuring rapid and accurate responses to fire threats while minimizing false alarms. These detectors are designed to protect high-risk environments, including aircraft hangars, oil and gas facilities and other hazardous settings.



### VSF300 Explosion-Proof Intelligent Video Flame Detector

Detects an n-heptane (gasoline) fire at 200' and JP4 (kerosene-gasoline blend jet fuel) at 300'.



### VSF303 UV/IR Flame Detector

Responds to hydrocarbon liquid fuel and gas fires at 128' in under 5 seconds.



### VSF301 Explosion-Proof Visual Flame Detector

Processes live video images to detect the characteristic properties of flames visually.



### VSF303 Explosion-Proof Multi-Spectrum IR Flame Detector

Detects a hydrocarbon liquid fuel and gas fires at at 200' within five seconds.



### VSF303H Multi-Spectrum IR Flame Detector

Respond to hydrogen fires at 131' with an average response time of only two to five seconds.



### VSF3008 Flame Simulator

Produces a unique flame pattern recognized by the VSF30X product line. The detectors in turn initiate a full alarm function.



Learn more about our Alarm and Detection Portfolio by visiting [vikinggroupinc.com](http://vikinggroupinc.com) or by scanning the QR code.

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A WATTS Brand



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With Our Industry-Leading Experts.

Earn CE Credits in Person or Through Live Webinars.

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INDUSTRY-LEADING SUSTAINABILITY

BEST-IN-CLASS INFECTION CONTROL



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From the company that introduced digital hot water control to the world comes the only truly digital solution for safe, healthy domestic hot water.

Exclusively from Armstrong, Armada<sup>SM</sup> is one solution that does it all. Armada<sup>SM</sup> combines the power of Armstrong's exhaustive knowledge and expertise with our industry-leading hot water technology, tools and software to address the critical elements of your water management plan.

Armstrong's products are designed to work together or individually, allowing us the flexibility to engineer every Armada<sup>SM</sup> solution to meet the toughest requirements.

Find your digital solution for healthy hot water at: [armstronginternational.com/armada](http://armstronginternational.com/armada)

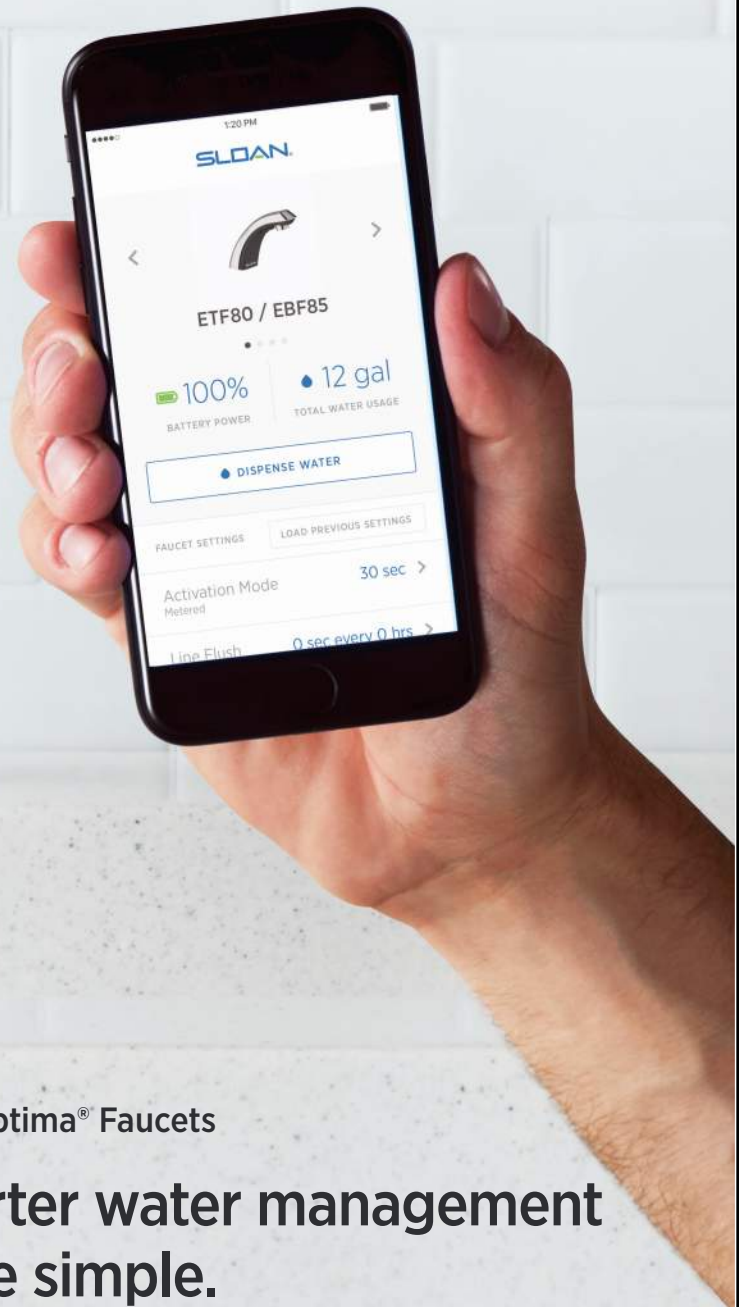
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**SLOAN**  
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The new Optima® Control Box provides standardized components, multiple power options and quick-connect technology.

## Sloan Optima® Faucets

# Smarter water management made simple.

Meet the revamped Optima Faucets from Sloan. Quite possibly the most innovative water management system on the market, there are fewer parts and more standardized components, helping to reduce installation and maintenance by 50% or more. Paired with our intuitive Sloan Connect® App, you can manage faucets wirelessly without ever getting your hands dirty.

Call Sloan representatives Edwards, Platt & Deely at 631.253.0600.  
Visit [sloan.com/optima-faucets](http://sloan.com/optima-faucets) to learn more.



Download the Free Sloan Connect App for iOS and Android.

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**Hydrotek International Inc.**

Sensor Faucets, Non-Diaphragm Flush Valves & Showers (Eliminates Run-On with Superior Piston Design)  
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**Kusel Equipment Co.**

Stainless Steel Drainage Products  
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Heating Manifolds & Modular Hydronic Assemblies  
[www.phpinc.us](http://www.phpinc.us)



**Precision Plumbing Products**

Water Hammer Arrestors, Laundry & Ice Maker Utility Boxes, Trap Priming Systems, Pressure Balance Valves & Access Doors  
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# WOODS & JAYE

MANUFACTURERS' REPRESENTATIVE



SCAN FOR RIGHTSPEC® SIZING GUIDE



SCAN FOR JEV SUBMITTAL

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### BUILT FOR CHALLENGING ENVIRONMENTS

#### Spec Niles Large Volume Electric Power Water Heaters for Your Toughest Commercial Applications

- **EFFICIENT.** Meets the ASHRAE 90.1b standard for minimizing heat loss for big savings and operating efficiency.
- **ACCURATE.** Magnetic contactors with immersion thermostats. 120 volt control circuit with built-in transformer. Elements are thermostatically controlled in 54kW (max) increments for greater accuracy.
- **RELIABLE.** Copper-sheathed low watt density incoloy elements successfully resist the effects of prolonged high operating temperatures, hard water, acids, corrosion and thermal shock. Provides long life and reliable operation even under difficult conditions.
- **DURABLE.** Ultronium® glass is applied to the inside surface of the steel tank and fired to 1600°F for superior protection against corrosion. Magnesium anode protects against corrosion of the tank due to electrolysis.
- **TYPICAL SPEC.** Water heaters shall be Niles Steel Tank Electric Power Water Heater Series model number \_\_\_\_\_, with \_\_\_\_\_ gallons of storage capacity, rated at \_\_\_\_\_ kilowatts, \_\_\_\_\_ volts, \_\_\_\_\_ phase. Heater to be completely insulated and jacketed for vertical installation.

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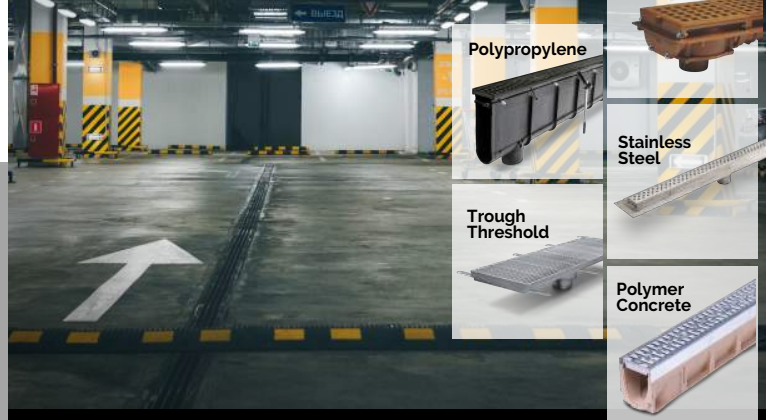
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Designed with The Contractor In Mind.



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Polypropylene

Stainless Steel

Trough Threshold

Polymer Concrete

From elegant shower drains to heavy-duty industrial drains, Woods and Jaye Sales, Co. can provide a full line of trench drain products to suit a wide variety of applications.



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- ✓ 20-year warranty
- ✓ Made in the U.S.A.
- ✓ Engineering available



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Learn about all MIRO rooftop support products [MIROIND.COM](http://MIROIND.COM)



### WHY MPAV/PALL FILTRATION SYSTEMS?

#### Simple, Compact, Durable Low-Cost Design

The MPAV/Pall filter housing design is extremely compact with no internal moving parts and nothing to fail other than replacing the cover gasket seal every few years.

#### Adjustable Filter Rating

The Pall filter rating can be easily adjusted (either finer or coarser) by installing elements with a different micron removal rating after each routine disposable filter element change-out.

#### Predictable Filtration Performance

MPAV/Pall filter cartridges have a known single-pass micron particle size removal rating that does not change while in service because they use a depth style filter media that is effective at capturing particles in a single-pass no matter their shape, unlike mesh strainer filter designs.

#### Minimizes Bacteria Growth

When Pall elements are changed every few months the housing can be easily flushed out, cleaned, and disinfected to eliminate any sludge deposits where bacteria can grow.



#### 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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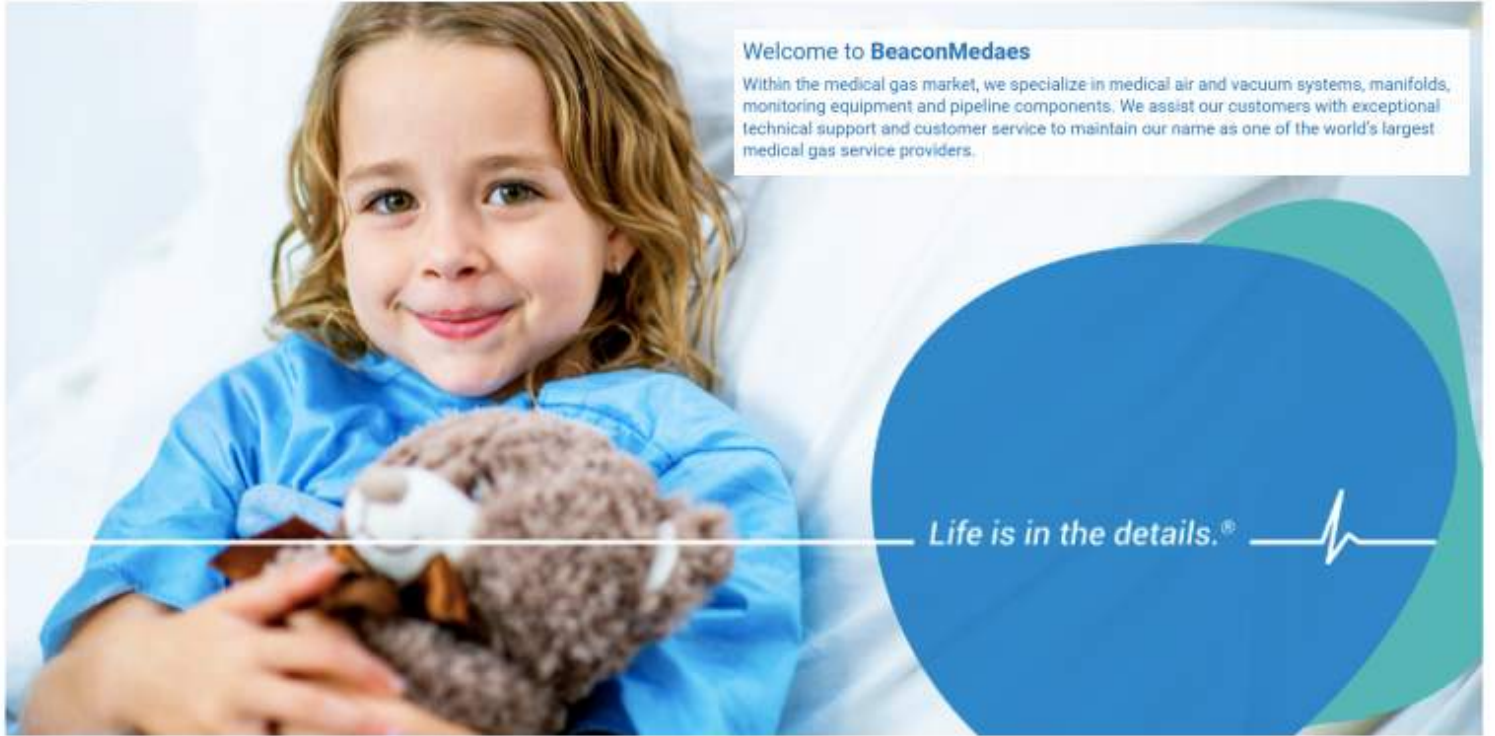
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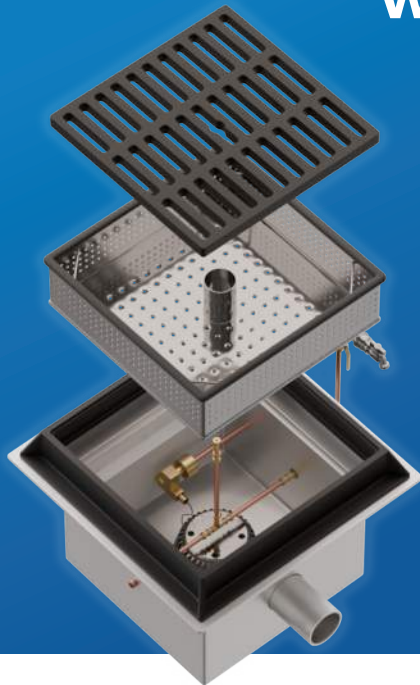


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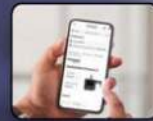
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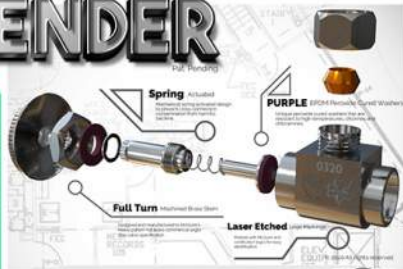
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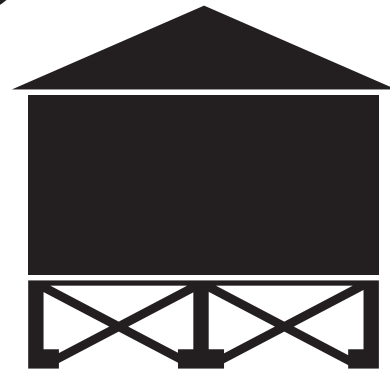


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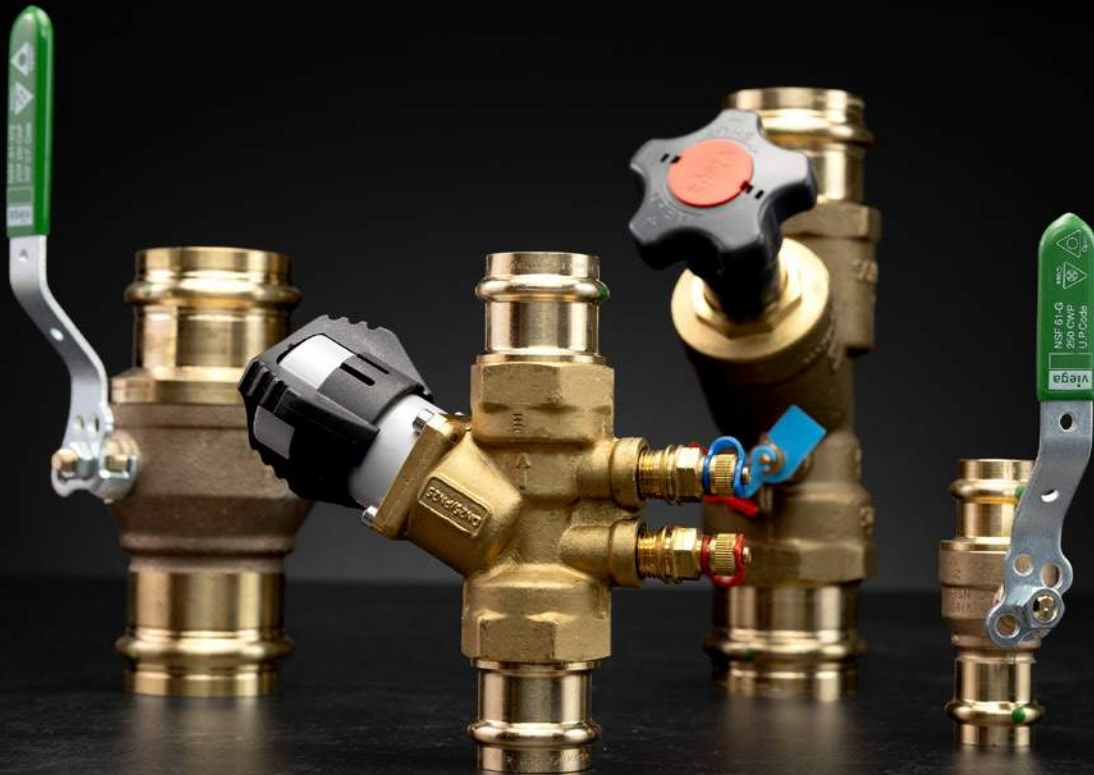


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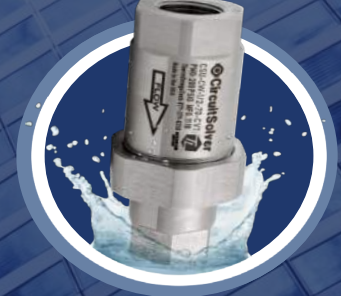
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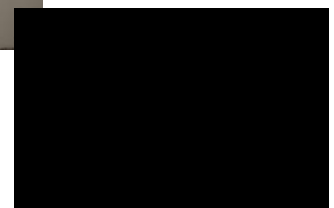
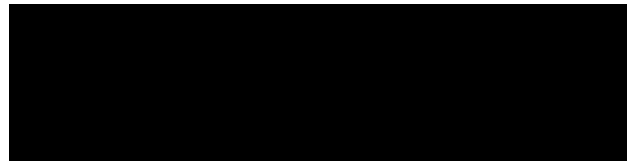
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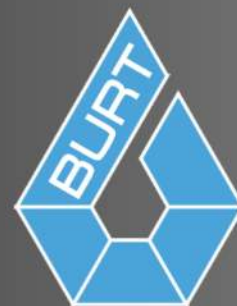
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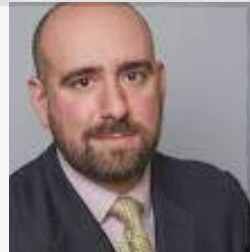
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## CODE CORNER



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](mailto:rotoliv@vfreengineering.com)



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# MAY MEETING MINUTES

The May meeting presentation was initiated by Sean and ASSE board, who welcomed everyone and gave updates about some upcoming events. Erick from ASSE reminded members of a couple of holidays coming up including May 9th as Military Spouse Day, May 11th as Mother's Day, May 22nd as Maritime Day, and May 26th as Memorial Day. Additionally, the ASSE/ASPE Golf outing will take place on August 11th. The start time has been set to 1 pm. Anyone interested must send payment in order to reserve their spots.

Next, Sean reminded everyone about the exiting 2025 ASPE Trade Show that will be taking place on May 15th at the Javitz center. Sean also opened the floor for the two candidates that are running for the NYC Chapter Correspondence Secretary: Frank Wu and Albert Misku. Both candidates gave great speeches indicating their passion for ASPE and desire to continue the work of the chapter. All members were reminded to send in their ballots for the upcoming election cycle of the ASPE NYC board. Finally, members were also reminded that the 2025 ASPE Symposium will be taking place this year from September 24th to the 28th, in Orlando, Florida.

## **Technical Presentation: Pneumatic Supplies for Dry and Preaction Systems by Sam Schwander**

Sam Schwander began the presentation with a rundown of the various pneumatic equipment used in fire sprinkler systems, including:

- Tankless air compressors (riser-mounted, without tanks),
- Tank-mounted compressors (floor and riser-mounted),
- Bare compressors (no switch, tank, or check valve),
- Nitrogen generators and high-pressure nitrogen cylinders.

## **Air Maintenance Devices (AMDs)**

Sam explained two types of AMDs:

- **Mechanical AMDs**, typically used with tank-mounted compressors, plant air systems, or nitrogen generators.
- **Compressor Control AMDs**, used with bare compressors, requiring pressure switches and gauge ports.

He emphasized the role of these devices in maintaining appropriate system air pressure and controlling airflow into the system.

**Nitrogen Supervision Cabinets:** Two configurations were presented:

Single-source cabinets and

Multi-source cabinets

These assemblies integrate control and supervision for nitrogen delivery systems.

Some of the critical NFPA requirements are:

- Air supply must be permanent and capable of restoring pressure in under 30 minutes.
- A check valve and shutoff valve must be installed in the supply line.
- Air source connection size must be at least ½ inch in diameter.

## **Compressed Air and AMD Use**

Dedicated compressors must be listed for fire protection. Systems with compressors producing less than 5.5 cubic feet per minute (cfm) at 10 psi may not require an air receiver or AMD. He cautioned against using incorrectly sized tankless compressors, which can prevent systems from tripping by keeping up with open sprinklers.

## Compressor Models and Performance

The session detailed several compressor models:

- **QRM2:** Available in tankless and tank-mounted versions, suitable for small to mid-size systems.
- **RRM and RTM:** Available in multiple configurations, with all RRM models producing under 5.5cfm at 10 psi.

Performance curves and system fill capacities were provided to guide proper sizing.

Sizing Criteria: Sam provided a formula and examples to calculate required compressor capacity based on system volume and desired pressure:  $CFM = (\text{System Gallons} \times \text{Required Pressure}) / 3298.7$

Dry/preaction system valves and their possible configurations were discussed:

Differential-style valves and low-pressure valves, using models such as FX and DDX-LP.

Preaction systems with electric, pneumatic, or hybrid actuation, including single- and double-interlock configurations.

Accelerators and Quick-Opening Devices: Accelerators enhance system response by rapidly venting air allowing valves to trip faster. Proper air stability is critical to their function.

Corrosion Inhibitors: The session concluded with a brief overview of vapor-phase corrosion inhibitors (VpCI®), which are compatible with both tank and riser-mounted air supplies. These are fully mechanical devices listed by UL and referenced in NFPA 13 (2025 edition).

Sam Schwander concluded by emphasizing the importance of matching system size, valve type, and compressor capacity to ensure code compliance and system reliability. He also reinforced the necessity of using listed equipment and performing proper calculations during system design.

Members were thanked for their attentiveness and respect for the presenter, and are encouraged to visit [aspenyc.org](http://aspenyc.org) where the presentation is uploaded to or contact Sam Schwander at [sschwander@reliablesprinkler.com](mailto:sschwander@reliablesprinkler.com) for more information.



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