



Photo by Avery Skees

The Monthly Newsletter of ASPE HAMPTON ROADS



The Latest From Hampton Roads

# HAMPTON ROADS CHAPTER:

**MEETING TOPIC:** Decisions, Decisions - Comparing Project Delivery Approaches (there is more than one way to skin a cat!)

**PRESENTED BY:** E. Mitchell Swann, P.E

**WHEN:** Tuesday Jan 9th - ASHRAE/ ASPE MEETING

**WHERE:** Clark Nexsen: 4525 Main St, Suite 1400  
Virginia Beach, VA 23462

**COST:** \$20.00

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**Highland Tank**

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- solids interceptors
- oil/water separators
- filtration systems, and more

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# MESSAGE FROM THE PRESIDENT

*Shane Miller*

Decembers Chapter meeting we had a great turnout and as always JC Underwood did a fantastic job with his presentation on Legionella and pathogen control. It was a great follow up to last months presentation. We are still looking for tabletops for our meetings. If you are interested in having a tabletop at one of the next meetings, please reach out to Lisa Sprague at either [lsprague@clarknexsen.com](mailto:lsprague@clarknexsen.com) or (757) 961-7862. We also are still looking for newsletter ads. If you would like to place a newsletter ad you can contact Lisa about those as well. I would like to remind you all that we have polo shirts for our ASPE members. So please come to a meeting and pick them up. If you would like one of these nice polo shirts of your very own all you need to do is go to the ASPE website and join our Chapter. Once I see that you are a member of our Chapter you can get a free polo shirt of your very own.

## VICE PRESIDENT TECHNICAL

*Ghassan Abu Sultanah*

**NEXT MONTHS TOPIC:** Commercial Water Softening and Reverse Osmosis

**PRESENTED BY:** Brian Laird

**WHEN:** Thursday: Feb 8th

**WHERE:** Clark Nexsen: 4525 Main St, Suite 1400  
Virginia Beach, VA 23462

Contact me or any of the board members if you have a topic you would like to learn about or if you have a topic of interest to present.

We are looking for speakers for this years meetings. All months are currently open except for Sept, Oct & Nov. The Nov meeting is an ASPE, ASHRAE & VSHE meeting that will be held in the evening. So please contact me at [ghassan.abusultanah@clarknexsen.com](mailto:ghassan.abusultanah@clarknexsen.com) or call me at (757) 961-7752 or reach out to [Lsprague@clarknexsen.com](mailto:Lsprague@clarknexsen.com) (757) 961-7862. if you have a presentation you would like to do.

We would like to grow our meeting attendance and make things easier for our members to have as much access to the Chapter as possible. So, we would like to offer a virtual meeting to our members who have offices outside the Virginia Beach Area or find it tough to drive to Town Center for a meeting. Please just let Lisa Sprague know if you would like to attend the virtual option.

**Kemper Multi-Therm®** thermostatic balancing valves have been trusted for over 25 years. Packed with unique and innovative features, these compact thermostatic balancing valves offer unparalleled ingenuity, dependability, and trustworthiness.

**Thermal Disinfection**

Ability to manage high temperature disinfection practice is included.

**Thermal balancing cartridge**

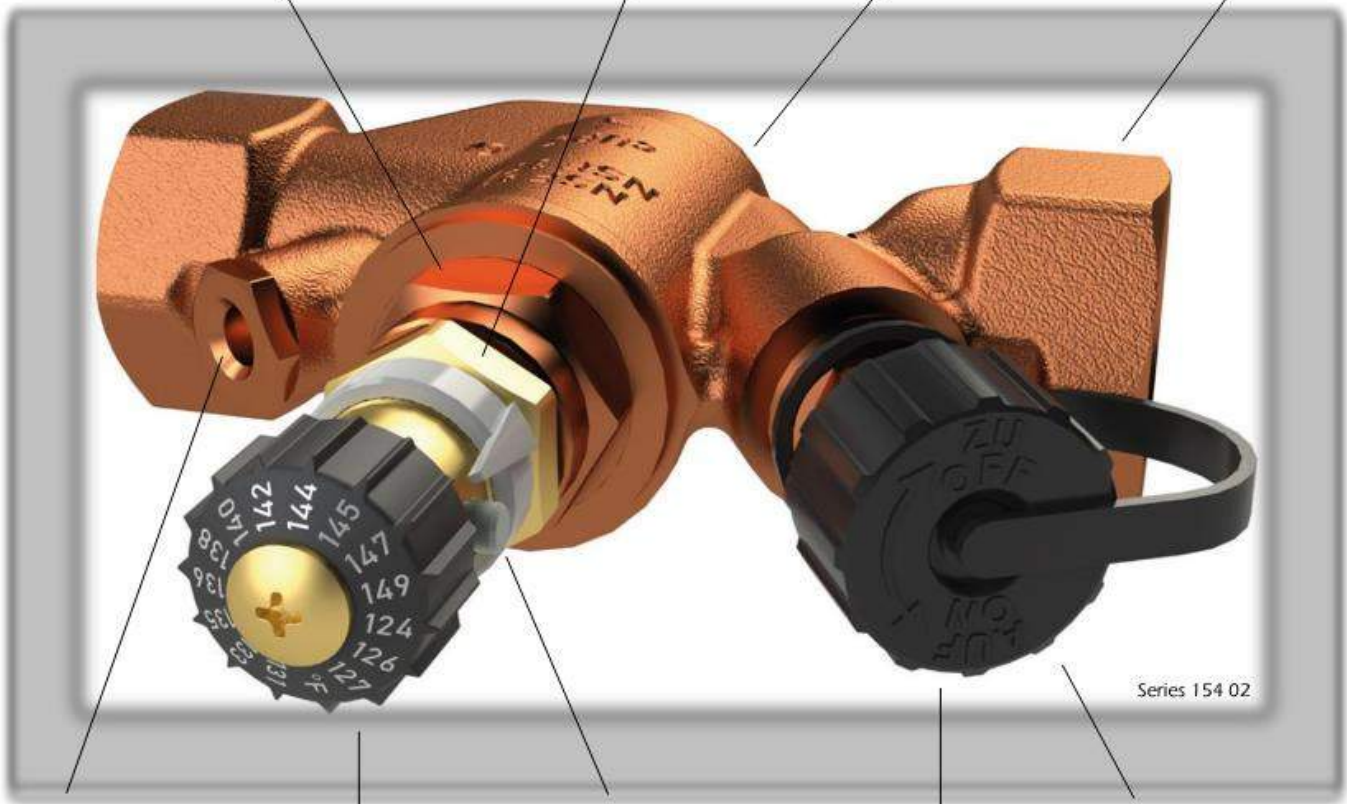
Replaceable or serviceable while valve body remains connected to piping.

**Bronze valve body**

Dezincified, lead free

**Insulation clam shell**

Option for quick & tidy installation.



**Available port**

This port can be used for a BMS temperature sensor probe.

**Locking dial**

Set screw locks in the temperature setting hidden under a protective cap.

**Built in isolation valve**

This feature stops the flow of water through the valve.

**Adjustable temperature dial**

This feature provides flexibility and allows for real-time adjustments to the HW return temperature setting.

**Integrated port**

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WATER CONTROL SYSTEMS



# VICE PRESIDENT MEMBERSHIP

*Joey Adams*

**JAN NEW MEMBERS**

**JAN MEMBERS**



Thank you to each and every member who encouraged a colleague to join the Hampton Roads ASPE Chapter this year. We had some growth and I am excited to continue and build on that growth in the 2022-2023 season! Be on the lookout for membership drive events in the Fall!

We want to create this incentive to continue our growth in the Chapter. For every member that joins the chapter, they will receive a Hampton Roads Polo shirt. The catch to receiving the shirt is coming to a chapter meeting to pick it up. You also must be a member of the Hampton Roads Chapter to receive the shirt NOT just an ASPE member.



Photo by Clark Nexsen



## EVERY SYSTEM



- Wet Flow Tested to Design Conditions—Guaranteed Performance
- ASPE Recognized 70% Redundancy for Energy Savings
- No-Flow shut down without the use of Hydropneumatic Tanks
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**AYP LIAISON**

*Jacob Otto*

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about our group!**





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-  Self-balancing
-  Daily self-cleaning feature
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-  Integral check valves available
-  Flow rates ideal for small to mid-sized design projects
-  Self-diagnostic
-  Digital electronic control with 2-line LCD display
-  Programmable temperature setpoint
-  Easy setup/easy error coding
-  Upon power failure, holds last set temperature to avoid thermal shock

### PROTON SERIES: MODEL FEATURES GUIDE

	Proton 1.0	Proton 2.0	Proton 2.5	Proton 3.0
Simple and intuitive user commissioning and setup	•	•	•	•
Alarms for when unit maintenance is required	•	•	•	•
User programmable set point range between 65 °F and 180 °F	•	•	•	•
Automatic hot/cold water shutoff upon cold/hot water inlet supply failure	•	•	•	•
Valve controls at time of no use: 0.0 GPM*	•	•	•	•
Single valves available in 1" to 3" valve outlet sizes	•	•	•	•
Manifold assemblies available in up to 6" valve outlet sizes	•	•	•	•
Enhanced controller with programmable disinfection mode		•	•	•
Three additional temperature probes (inlet hot, inlet cold, return temp.)		+	+	•
Five relay contacts that switch on during alarm states		+	+	+
Remote alerts to assist Maintenance and Service Personnel		+	+	+
Loss of power alert		+	+	+
Broken temperature probe alert		+	+	+
"Out of range" temperature alert (± 10 °F)		+	+	+
Motor connectivity and operation alert		+	+	+
Service required @90% full shuttle movement alert		+	+	+
Enhanced controller with BACnet MS/TP connection			•	•
Enhanced controller with Wi-Fi				•



\*When properly installed near the hot water source with a continuously operating recirculation pump

• Standard  
+ Optional

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**SPECIFICATION DRAINAGE**  
**(LIT-067)**



**CLPB-2022**  
**LIGHT COMMERCIAL PRODUCTS**  
**(LIT-048)**



**AD-2022-USA**  
**ACCESS DOORS CATALOG**  
**(LIT-043)**



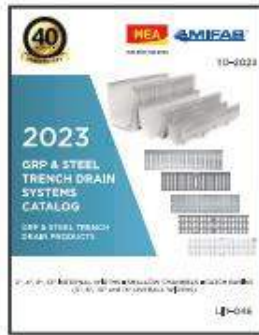
**BEECO-2022**  
**BACKFLOW PREVENTERS AND ACCESSORIES**  
**(LIT-071)**



**NH-2022-06**  
**NO HUB COUPLINGS CATALOG**  
**(LIT-044)**



**TDPC-2023**  
**POLYMER CONCRETE TRENCH DRAINS**  
**(LIT-076)**



**TD-2023**  
**GRP & STEEL TRENCH DRAIN SYSTEMS CATALOG**  
**(LIT-046)**



**TDSD-2023**  
**SHOWER DRAINS CATALOG**  
**(LIT-077)**



**TDSS-2023**  
**STAINLESS STEEL TRENCH DRAINS CATALOG**  
**(LIT-072)**



**ROOFGUARD-2020**  
**ROOFGUARD ROOF DOMES CATALOG**  
**(LIT-058)**



**C-PORT-2023**  
**ROOFTOP RUBBER SUPPORT PIPE SUPPORTS CATALOG**  
**(LIT-047)**



**DB-2022**  
**DIALYSIS BOXES CATALOG**  
**(LIT-070)**



**HYDROMAX-2020**  
**SIPHONIC DRAINAGE CATALOG**  
**(LIT-062)**



**INT-2023**  
**INTERCEPTORS & ACID NEUTRALIZATION TANKS CATALOG**  
**(LIT-095)**



**TSP-2022-08**  
**TRAP SEAL PRIMERS CATALOG**  
**(LIT-062)**



# ADVERTISE WITH YOUR LOCAL CHAPTER

A SPECIAL THANK YOU TO EVERYONE WHO HAS PLACED ADS THIS SEASON.

## NEWSLETTER AND WEBPAGE ADVERTISEMENT COSTS

### FULL PAGE NEWSLETTER (PER SEASON)

ASPE MEMBER \$375.00

NON-ASPE MEMBER \$450.00

### HALF PAGE NEWSLETTER (PER SEASON)

ASPE MEMBER \$275.00

NON-ASPE MEMBER \$350.00

### BUSINESS CARD NEWSLETTER (PER SEASON)

ASPE MEMBER \$75.00

NON-ASPE MEMBER \$150.00

## TABLETOP COSTS

### TABLETOPS - PER MEETING

ASPE MEMBER \$80.00

NON-ASPE MEMBER \$100.00

### TABLETOPS - YEARLY (SEPT THRU MAY)

ASPE MEMBER \$450.00

NON-ASPE MEMBER \$550.00



**OMNI SERIES**  
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Fully configurable heat pump system with 120-5000 gallon storage capacity and fully programmable controller



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- Simple 3 button interface
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- Two valve installation in parallel with one controller
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**Neptune EMX Electronic Mixing Valve Manifold Systems for Recirculation**

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- Pre-assembled / tested
- Standard and custom designs

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# ASPE Mentoring Program



## ASPE Mentoring Program

Connecting **ASPE members** who have a particular skill set with others who want to acquire the same skills to achieve their personal and professional goals.

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# WHAT IS A Plumbing Engineer?

**PLUMBING ENGINEERS** are a vital part of design/build construction teams for residential, commercial, and industrial facilities. They interact with other construction trades to provide building owners with efficient, functional, and sustainable plumbing systems that protect the health, welfare, and safety of the public and prevent environmental contamination.

## WHAT DO PLUMBING ENGINEERS DO?

**PLUMBING ENGINEERS** use the principles of fluid flow along with engineering calculations to design plumbing systems that transport fluids and gases throughout buildings. Those systems include:

$$S = \frac{rpm\sqrt{Q}}{NPSH^{0.75}}$$

$\times 2.31 - h_f$      $L_v + \frac{(P_n - V)}{\text{Specific gravity}}$



Domestic water systems



Wastewater



Fuel gas



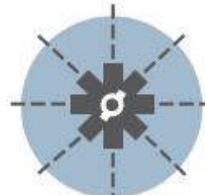
Medical gas & vacuum



Compressed air



High-purity water



Fire suppression



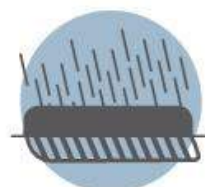
Chemical waste



Rain & stormwater systems



Venting



Site & building drainage



Water efficiency

## WHAT DOES THE PROFESSION ENTAIL?

*"The old adage that 'anyone can do plumbing' does not hold water anymore. A diversified and accomplished plumbing engineer is a valuable commodity in the design/build market."*



**PLUMBING ENGINEERS** are highly skilled individuals involved in many different aspects of the design/build process, including:

PLUMBING SYSTEM DESIGN	COMMISSIONING
PROJECT MANAGEMENT	CODE & STANDARD EXPERTISE
CONSTRUCTION ADMINISTRATION	FORENSIC & SUBSURFACE SYSTEM EVALUATION
BUILDING INFORMATION MODELING (REVIT)	COST ESTIMATION
PRODUCT & SYSTEM SPECIFICATION	PROBLEM SOLVING

## PROTECTING PEOPLE & THE ENVIRONMENT

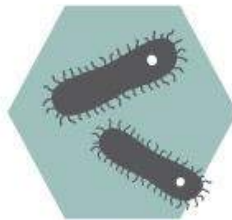
**PLUMBING ENGINEERS** help eliminate many of the threats that sicken people and harm the environment on a global scale by:



**Delivering** safe drinking water & sanitation systems



**Combating** groundwater contamination & depletion

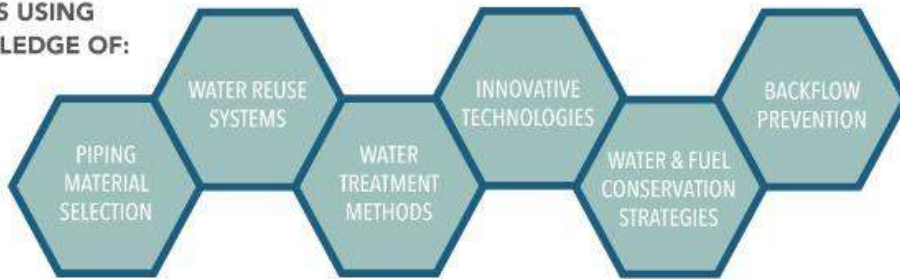


**Preventing** waterborne diseases



*"Through their designs, plumbing engineers affect every life."*

**THEY DO THIS USING THEIR KNOWLEDGE OF:**



## HOW TO LEARN MORE

The American Society of Plumbing Engineers (ASPE) is the only association dedicated to promoting the plumbing engineering profession and helping plumbing engineers advance in their careers. Our members have a wealth of knowledge and experience and are ready to help others learn more about the industry.



To discover ASPE and find local contacts, visit:

[aspe.org](http://aspe.org)



Connect with Us





# DURAGUARD® PRODUCT LINE



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SCHOOLS



HEALTHCARE

Public health and safety are a common concern. Targeted for commercial applications, Bemis has a comprehensive offering of seats with DuraGuard® Antimicrobial Built-In Seat Protection™ and STAY·TITE™.

## WHAT IS DURAGUARD?

DuraGuard is an antimicrobial property built into the toilet seat to inhibit the growth of bacteria. The active ingredient in DuraGuard is zinc pyrithione, a non-VOC (volatile organic compound), broad-spectrum, highly effective antimicrobial agent used to control mold, mildew, yeasts, fungi, algae, gram positive and negative bacteria. DuraGuard does not protect users or others against bacteria, viruses, germs, or other disease-causing organisms.

## WHAT IS STAY·TITE?

STAY·TITE Seat Fastening System™ anchors the toilet seat to the bowl by using a patented bolt design with a inned bushing and glass-illed nylon nut, eliminating the need to retighten the seat to the bowl after installation.

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The Joyce Agency

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Email: [cydney@thejoyceagency.com](mailto:cydney@thejoyceagency.com)

# TALK AROUND THE WATER COOLER

*Check-out these sites for interesting and educational topics & tools so you can stay in 'the know'!*



## ASPE PIPELINE

*Some recent excerpts:*

### [ASPE Committees A to Z: ASPE Young Professionals \(AYP\) Committee](#)

Hello ASPE friends! I'm happy to share an update from the ASPE Young Professionals (AYP) Committee with all of you as the Committee Chair and AYP Liaison to ASPE's Board of Directors. The AYP Committee has gone through several rounds of leadership since I became a member, and I'm very lucky to follow in their footsteps.....[More](#)

### [January 2024 Membership Matters: The State of ASPE Membership Entering 2024](#)

Most ASPE members probably are not aware of the ebbs and flows of ASPE Society ("ASPE National" to some of you), [Region](#), or Chapter membership numbers. Heck, most probably do not care as long as ASPE keeps giving them the benefits of membership: education, networking, credentialing, and access to code bodies, manufacturers, and new technology opportunities. If you are not a member, these alone should be reasons enough to make you want to join ASPE ([aspe.org/membership-global-community/join/](https://aspe.org/membership-global-community/join/)). If you didn't click right now, I will give you another chance later in this article.....[More](#)

### [What Plumbing Designers Need to Know About Selecting a Floor Drain](#)

Learn what factors need to be considered depending on the type of use and environmental conditions in nearby areas.

Floor drains are the most commonly used mode of drainage in buildings. The ubiquitous nature of this plumbing fixture makes it susceptible to negligence; hence, it is important to understand the options that are available to ensure proper performance.....[More](#)

### [January 2024 New Society Members](#)

Please help us welcome the following plumbing industry professionals who recently joined ASPE or affiliated with a new Chapter. If you are interested in becoming part of our great organization as well, visit [ASPE.org](https://aspe.org) to join today! .....[More](#)



# POWERS INNOVATIONS

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## INTELLISTATION® JR

IntelliStation® Jr. provides safe hot water consistently and on-demand for smaller applications than IntelliStation. It is also ASSE 1017 compliant, available in 3/4" through 2" sizes, and has a programmable temperature set-back/scheduling program that lowers water temperature when the building is unoccupied. Register the Jr. with the Watts OnSite mobile or web app for remote temperature control, monitoring, and visibility across locations and sublocations.

***Scan the QR Code below to access the Selexit Configuration Tool.***



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- Automatic membrane integrity verification

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- Point-of-Entry
- Point-of-Use
- Recirculation
- Supplemental Disinfectants



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- Holby Valves
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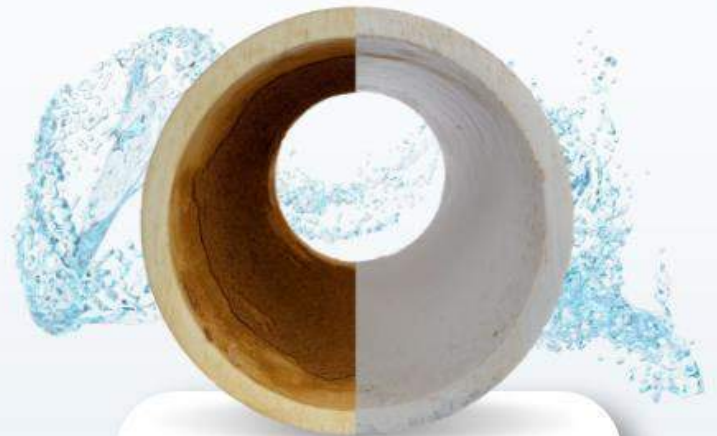
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Nanobubble Generators from Rapid Water Technologies remove and prevent the buildup of biofilm and other deposits in commercial and industrial water use.

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today!**



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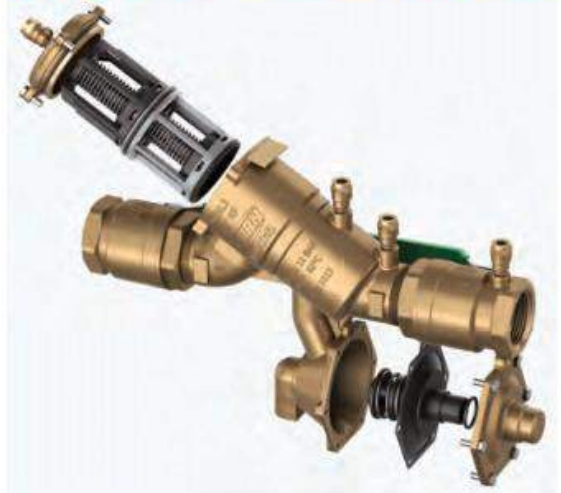


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Richmond Marketing Inc



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High-capacity Replacement Filter for Elkay Enhanced ezH2O® Bottle Filling Stations  
Tested and certified to NSF/ANSI 42 and 53, our 6,000-gallon filter reduces chlorine and odor, as well as contaminants, such as lead, cysts and particulates. The result is healthier, better-tasting drinking water.

**ELKAY**



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At Bradford White, we deliver the solutions you need to meet the needs of your customers. Our products are all built with quality and engineered for outstanding efficiency and performance.

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On every job, you'll get 24/7 technical support from our team to make sure the product you spec works perfectly for your customer's needs. On every job, our business is being there for your business. Scan the QR code below for our RightSpec Sizing Tools.

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**JOYCEAGENCY**  
MANUFACTURERS REPRESENTATIVE

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WATER HEATERS

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# EDUCATION STATION

Ryan Schalk

*If you are looking to earn the required CEU's and/or enhance your skills and knowledge then this is the site for you! Once you've landed on Educational Program & Tools page, simply point & click to gain access to a variety of ways to accomplish your goals.*

*<https://www.aspe.org/pipeline/category/education-opportunities/>*

## Registration Is Open for ASPE's 2024 In-Person MedGas Workshops

This year, ASPE's popular in-person MedGas Workshop will be held four times across the United States. Our workshop fulfills the training requirements for the ASSE 6060: Medical Gas Systems Designer professional certification, which is now included as a requirement for medical gas system designers in NFPA 99.....[More](#)

## Watts to Host ASPE-Accredited Webinar on Product Sustainability

Watts has announced "Product Sustainability: Critical Product Development Information to Keep up with a Changing Marketplace," an ASPE-accredited webinar worth 0.1 CEU.

The demand for companies to develop sustainable solutions is multiplying by the day. To accomplish this, it's important to understand what makes a product sustainable and how it can be applied.....[More](#)