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AMERICAN SOCIETY OF SANITARY ENGINEERING ILLINOIS CHAPTER

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**THIS MONTHS ISSUE PAYS TRIBUTE TO OUR FELLOW BROTHERS
AND SISTERS OF THE CHICAGO CHAPTER OF ASPE.**



The Chicago Chapter is affiliated with Region 5 which includes Wisconsin, St. Louis, Omaha, Minnesota, Oklahoma, Kansas City, Lubbock High Plains, Houston, Dallas Ft. Worth, Central Texas, Central Illinois, Arkansas, and Manitoba Canada.

About ASPE

The American Society of Plumbing Engineers (ASPE) is the international organization for professionals skilled in the design, specification and inspection of plumbing systems. ASPE is dedicated to the advancement of the science of plumbing engineering, to the professional growth and advancement of its members and the health, welfare and safety of the public.

The Society disseminates technical data and information, sponsors activities that facilitate interaction with fellow professionals, and, through research and education, expands the base of knowledge of the plumbing engineering industry. ASPE members are leaders in innovative plumbing design, effective materials and energy use, and the application of advanced techniques throughout the world.

Worldwide Membership ASPE was founded in 1964 and currently has over 6,000 members. Internationally, ASPE members are located in the United States, Canada, Asia, Mexico, South and Central America, the South Pacific, Australia, Europe, Africa, Caribbean and the Middle East. They represent an extensive network of experienced engineers, designers, contractors, code officials, manufacturers, and manufacturer representatives interested in advancing their careers, their profession, and the industry. ASPE is at the forefront of technology. In addition, ASPE represents members and promotes the profession among all segments of the construction industry.

ASPE Chapters All members belong to ASPE worldwide and have the opportunity to belong to and participate in one of the 60+ state, provincial, or local chapters throughout the U.S. and Canada. ASPE chapters provide the major communication links and the first line of services and programs for the individual member. At chapter functions, members can network with others who represent all segments of the plumbing engineering, design, construction, and services industry. Chapters produce newsletters, conduct monthly technical meetings, and provide opportunities for education, professional development, and information sharing to help the membership stay abreast of current trends, code changes, and technologies in the plumbing engineering profession.

Membership Communication: Communication with the membership is enhanced through the Society's news site, [ASPE Pipeline](#), and its biweekly e-newsletter.

Members and ASPE Committees also communicate directly with each other via our online community, [ASPE Connect](#).

Continuing Education ASPE offers a variety of ways for members to learn about new technologies, gain new skills, and earn continuing education units (CEUs) through [ASPE Education](#), including webinars, workshops, and other on-demand and live events.

Technical Publications The Society maintains a comprehensive publishing program, spearheaded by the profession's basic reference text, the *Plumbing Engineering Design Handbook*. The *Plumbing Engineering Design Handbook*, published in four volumes, encompasses 50+ chapters providing comprehensive details of the accepted practices and design criteria used in the field of plumbing engineering. ASPE's published library of professional technical manuals and handbooks includes the *Domestic Water Heating Design Manual*, *Engineering Plumbing Design*, and *The Plumbing Engineering and Design Handbook of Tables*, the only plumbing reference tool of its kind. Visit our [Bookstore](#) to see our entire library of technical publications.

Convention & Expo and Tech Symposium The Society hosts biennial Conventions on even-numbered years and Tech Symposium on odd-number years for professional plumbing engineers, designers, and contractors to improve their skills, learn original design concepts, and make important networking contacts to help them stay abreast of current trends, codes, and technologies. In conjunction with each Convention is the Expo, the largest gathering of plumbing engineering and design products, equipment, and services. Everything from pipes to pumps to fixtures, from compressors and computers to consulting services is on display to allow engineers and specifiers to view the newest and most innovative design materials available to them. In addition, the Society conducts a number of one- and two-day technical and professional development seminars in conjunction with our Chapters.

Certified in Plumbing Design ASPE sponsors a national certification program for engineers and designers of plumbing systems, which carries the designation "Certified in Plumbing Design" or CPD. The certification program provides the profession, the plumbing industry, and the general public with a single, comprehensive qualification of professional competence for engineers and designers of plumbing systems. The CPD, designed exclusively by and for plumbing engineers, tests hundreds of engineers and designers at centers throughout the United States annually. Created to provide a single, uniform, national credential in the field of engineered plumbing systems, the CPD program

is not in any way connected to any state-regulated Professional Engineer (PE) registration.

Codes and Legislation The Society maintains liaisons with all plumbing industry and engineering-related organizations, as well as provides code and representative liaisons with various federal, state, and local governmental agencies and departments. ASPE code and legislative liaisons are members of the coordinating committees for the many organizations promulgating national model codes and, when appropriate, coordinate code and legislative representation at the state and local level.

Industry Affiliations In 2011, ASPE became a Full member of the World Plumbing Council, an organization dedicated to uniting the worldwide plumbing industry to advance plumbing education and research and to ensure the public's health, safety, and welfare through safe water and sanitation practices. ASPE also is a member of the Plumbing Efficiency Research Coalition, which was created to conduct research projects that will support the development of water-efficient plumbing products and systems. **ASPE Education & Research Foundation:** The ASPE Education & Research Foundation, established in 1976, is the only independent, impartial organization involved in plumbing engineering and design research. The science of plumbing engineering affects everyone . . . from the quality of our drinking water to the conservation of our water resources to the building codes for plumbing systems . . . our lives are impacted daily by the advances made in plumbing engineering technology through the Foundation's research and development.

The Beginning

In the United States in the mid-1900s, plumbing engineering was an indistinct branch of the overall mechanical engineering industry. The reason for this was the lack of a national, unified voice for plumbing engineers and designers, although most other segments of the engineering industry had their own representation. The American Society of Civil Engineers and the American Society of Mechanical Engineers were founded in the 1800s, and in 1959, the American Society of Heating and Air-Conditioning Engineers and the American Society of Refrigerating Engineers merged to form the American Society of Heating, Refrigerating, and Air-Conditioning Engineers. A minor segment of the American Society for Sanitary Engineering was comprised of plumbing system designers, but no specific association dedicated exclusively to plumbing engineers existed.

In early 1964, a Los Angeles-area manufacturer representative, Arnold "Bogey" Bogart, who specialized in air-conditioning products, took on a line of plumbing products. In his search for more information on plumbing systems, he could not find a convenient source of reference material for plumbing design or a place where engineers, designers, manufacturer representatives, contractors, and local officials involved in plumbing engineering and design met on a regular basis. After discussing the matter with Donald F. Dickerson of John Kerr Associates, Bogart contacted approximately 50 plumbing engineers and designers in the Los Angeles area about the possibility of starting an organization for plumbing engineers.

On April 8, 1964, the first organized meeting was held in the office of John Kerr Associates, with approximately 35 people in attendance; John Kyzivat was Acting President for control of the meeting. After a two-hour session, a temporary Interim Committee was established, called the Charter Executive Committee, consisting of the following members: Donald Dickerson (President), Edward Saltzberg, Eugene Handel, Horace Yeh, Jess Donovan, Al Stromerson, and Herbert Berger.

Around the same time, a plumbing design organization was being formed in New York City, led by Vince Pantuso. The Charter Executive Committee contacted Pantuso about merging the efforts of the two organizations; unfortunately, no agreement could be negotiated, and the Los Angeles group decided to go its own way. Therefore, the Charter Executive Committee drafted plans for formal organization.

With the assistance of a local attorney, Luis Graham, Saltzberg undertook the duty of drafting bylaws and a slate of interim officers to form the American Society of Plumbing Engineers. The officers elected at a July 1, 1964 meeting were as follows:

President: Donald F. Dickerson (John Kerr and Associates)
1st Vice President: Horace Yeh (Albert C. Martin and Associates)
2nd Vice President: Edward Saltzberg (Michael C. Maroko and Associates)
3rd Vice President: Chuck Bailey (Daniel, Mann, Johnson, and Mendenhall)
Administrative Secretary: Eugene Handel (Hellman and Lober Engineers)
Treasurer: Richard Owens (Welton Becket and Associates)
Corresponding Secretary: Ken Gader (Albert C. Martin and Associates)

On September 18, 1964, the original meeting attendees reconvened and voted in the bylaws and slate of officers, and the American Society of Plumbing Engineers

was officially registered and incorporated. The interim board held office from July 1, 1964 through October 7, 1965. The first official Society Board of Directors was elected on October 7, 1964:

President: Donald F. Dickerson (John Kerr and Associates)
1st Vice President: Horace Yeh (Albert C. Martin and Associates)
2nd Vice President: Edward Saltzberg (Michael C. Maroko and Associates)
3rd Vice President: Richard Owens (Welton Becket and Associates)
Administrative Secretary: Eugene Handel (Hellman and Lober Engineers)
Treasurer: Richard H. Drenke (John Kerr and Associates)
Corresponding Secretary: Wayne H. Jensen (Albert C. Martin and Associates)

The term of office was for one year, and at the end of the year, the following second Board of Directors was elected:

President: Donald F. Dickerson (John Kerr and Associates)
1st Vice President: Claude Yost (A.C. Martin and Associates)
2nd Vice President: Edward Saltzberg (Michael C. Maroko and Associates)
3rd Vice President: Larry Smith (Gilbert J. Comeau and Associates)
Secretary: Bruce Matthewson (Tharaldson, Matthewson, Argabright and Doby)
Treasurer: Richard V. Drenke (John Kerr and Associates)
Corresponding Secretary: Raymond Durazo (Stanley Pomerantz and Associates)

In 1965, a call for a logo design was sent out to all ASPE members. The Society received various submittals of a humorous vein, such as a "plumbing friend" and "half a toilet seat" with the acronym below each of them. On the last day for submittals, Richard Regalado Jr. submitted a proposed logo, and it was adopted. The logo was designed with the following symbols representing the various aspects of the plumbing engineering field. The letters ASPE were superimposed over a slide rule (representing engineering), laid over a triangle (representing design/drafting) over the end of a pipe (representing sales representatives and contractors), with a blue block background (representing a blueprint).

By 1966 the total membership had grown sufficiently to warrant the creation of local chapters, and the bylaws were modified. At the annual

business meeting, the Los Angeles Chapter was officially created, and the chapter board was elected, with Ed Saltzberg as president.

Only July 19, 1967, the national Board of Directors retained the services of Harry Kerman (Conventions West Inc.) to assist in the planning and execution of the first ASPE Convention & Engineered Plumbing Exposition, which was held in Los Angeles at the Ambassador Hotel Conventional Center on September 11-15, 1968.

Technical Activities

From ASPE's inception, organizing and disseminating technical information regarding plumbing system design has been of prime importance. The first active project of the Society in its early years was the development and introduction of a plumbing engineering program at the university level—first implemented at UCLA in 1966.

The need for a single, codified reference text on engineered plumbing systems was also an early priority of the Society, and in 1964 the first volume of the ASPE Data Book was presented by the Data Book Committee (Joseph Pulici, Chair) in loose-leaf binder format. In 1974, the Data Book was put into a single, bound volume, and in 1978 the reference text was split into two volumes: Volume 1, Fundamentals of Plumbing Design, and Volume 2, Special Plumbing Systems Design. In 1980, ASPE entered a new phase of technical information publishing with the production of single-topic handbook, *Solar Energy Systems Design*.

Throughout the early years of the Society, the need for a professional journal devoted primarily to engineers of plumbing systems was consistently seen. Following lengthy discussions, a commercial magazine publisher was contracted to produce *The American Plumbing Engineer*, which first appeared in March 1968. In 1973, the publication was renamed *Plumbing Engineer*, which was then declared the official publication of the Society. When the publishing company encountered editorial and corporate problems in 1979, the publication was transferred to a Chicago-based publishing firm. In 1981, the Society inaugurated an internal newsletter, *ASPE Board Review*, to establish a direct link between the national leadership and the individual member; not technical in nature, the Board Review carried news of and about the members and the Society and was distributed exclusively to members.

Technical Research

While the Data Book Committee continued to develop and disseminate existing technical knowledge, a separate Research Committee was established to further the effort to expand the existing technology. Realizing the full scope of the task, the Society formally established, in 1976, a separate ASPE Research Foundation, with past ASPE President George V. Runkle as President of the Foundation Board of Directors. With the stated purpose of encouraging research projects and new technical papers, the Foundation sought to expand the horizon of the profession and shortly saw the completion of its first two sponsored projects: a pipe size analysis conducted at Stevens Institute of Technology (1979) and an analysis of reduced-size venting design by mechanical engineer Edward Brownstein (1978).

Technical Education

Technical education also received high priority from the earliest days of the Society. From the first Convention in 1968, a major portion of the time has been devoted to technical programming. In all chapter meetings, a technical speaker is included, and in 1980 the Society initiated a series of technical seminars, including topics such as solar energy systems, corrosion control, and hydraulic fire sprinkler systems.

Codes & Standards Involvement

In its early years, ASPE was active with the major code-writing organizations, maintaining an active liaison with such bodies as the International Association of Plumbing and Mechanical Officials and Code Administrators (now IAPMO) and the International Conference of Building Officials (now ICC). Further, for several years the Society worked as co-sponsors with the National Association of Plumbing-Heating-Cooling Contractors to develop and produce the National Standard Plumbing Code.

In addition to working with code-writing organizations, the Society provided input to several national agencies and committees such as the American National Standards Institute (ANSI) Committees A112, A117.1, and A40, the National Metric Council, and several agencies of the National Bureau of Standards (particularly the Center for Building Technology) for which ASPE provided a U.S. representative for the joint US/USSR working committee on building standards.

2023 list of Officers/Board Members and meeting locations and time

Region 5 Chicago chapter meetings are on the third Thursday of each month at 5:30 PM at LaVilla Restaurant, Chicago, IL, or Westwood Tap Schaumburg, IL, or Venuti's Addison, IL.

Chapter President: Scott Jagodzinski CPD, GPD

Chapter Vice President, Technical: Christopher Paul Rohan CPD

Chapter President, Legislative: Christopher Joseph Winnie P.E., CPD

Chapter Vice President, Membership: Justin Wroblewski CPD

Chapter Treasurer: Jason R. Romano

Chapter Administrative Secretary: Philip Boyce Traynor CSP

Chapter Corresponding Secretary: Eric James Cottrell

Chapter Affiliate Liaison/Resource Enhance: Darren Rich

Chapter Newsletter Editor: Jeffery Thomas Gallagher CPD

Chapter Education Chair: Mark G. Mannarelli

American Society of Plumbing Engineers

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Rosemont, IL. 60018

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ASSE Product Standards (April 2023)

STD	Edition	Title
1001	2021	Atmospheric Type Vacuum Breakers
1002	2020	ASSE 1002-2020/ASME A112.1002-2020/CSA B125.12-20 Anti-Siphon Fill Valves
1003	2020	Water Pressure Reducing Valves for Domestic Water Distribution Systems
1004	2017	Backflow Prevention Requirements for Commercial Dishwashing Machines
1008	2020	Plumbing Aspects of Residential Food Waste Disposer Units
1010	2021	Water Hammer Arresters
1011	2017	Hose Connection Vacuum Breakers
1012	2021	Backflow Preventers with Intermediate Atmospheric Vent
1013	2021	Reduced Pressure Principle Backflow Prevention Assemblies
1014	2020	Backflow Prevention Devices for Hand-Held Shower
1015	2021	Double Check Backflow Prevention Assemblies
1016	R2021	ASSE 1016-2017/ASME A112.1016-2017/CSA B125.16-17 (R2021) Automatic Compensating Valves for Individual Shower & Tub/Shower Combinations
1017	2010	Temperature Actuated Mixing Valves for Hot Water Distribution Systems
1018	R2021	Trap Seal Primer Valves - Potable Water Supplied
1019	R2016	Wall Hydrant with Backflow Protection and Freeze Resistance
1020	2020	Pressure Vacuum Breaker Assembly
1022	2021	Backflow Preventer for Beverage Dispensing Equipment
1023	2020	Electrically Heated or Cooled Water Dispensers
1024	R2021	Dual Check Backflow Preventers
1030	2021	Positive Pressure Reduction Devices for Sanitary Drainage Systems
1032	R2021	Dual Check Valve Type Backflow Preventers for Carbonated Beverage Dispensers, Post Mix Type
1035	2020	Laboratory Faucet Backflow Preventers
1037	2020	ASSE 1037-2020/ASME A112.1037-2020/CSA B125.37-20 Pressurized Flushing Devices for Plumbing Fixtures
1044	R2020	Trap Seal Primer - Drainage Types and Electronic Design Types
1047	2021	Reduced Pressure Detector Backflow Prevention Assemblies
1048	2021	Double Check Detector Backflow Prevention Assemblies
1049	2021	Individual and Branch Type Air Admittance Valves for Chemical Waste Systems
1050	2021	Stack Air Admittance Valves for Sanitary Drainage Systems
1051	2021	Individual and Branch Type Air Admittance Valves for Sanitary Drainage Systems
1052	2016	Hose Connection Backflow Preventers
1053	R2023	Dual Check Backflow Preventer Wall Hydrants - Freeze Resistant Type
1055	2020	Chemical Dispensing Systems with Integral Backflow Protection
1056	R2021	Spill Resistant Vacuum Breaker
1057	2012	Freeze Resistant Sanitary Yard Hydrants with Backflow Protection
1060	R2021	Outdoor Enclosures for Fluid Conveying Components
1061	2020	Push-Fit Fittings
1062	R2021	Temperature Actuated, Flow Reduction (TAFR) Valves for Individual Supply Fittings
1063	R2021	Air Valve and Vent Inflow Preventer
1064	2020	Backflow Prevention Assembly Field Test Kits
1066	2022	Individual Pressure Balancing In-Line Valves for Individual Fixture Fittings
1069	2020	Automatic Temperature Control Mixing Valves
1070	2020	ASSE 1070-2020 / ASME A112.1070-2020 / CSA B125.70-20 Water Temperature Limiting Devices
1071	R2021	Temperature Actuated Mixing Valves for Plumbed Emergency Equipment
1072	2020	Barrier Type Floor Drain Trap Seal Protection Devices
1079	R2021	Dielectric Pipe Union
1081	R2020	Backflow Preventers with Integral Pressure Reducing Boiler Feed Valve and Intermediate Atmospheric Vent Style for Domestic and Light Commercial Water Distribution Systems
1082	2021	Water Heaters with Integral Temperature Control Devices for Hot Water Distribution Systems
1084	R2023	Water Heaters with Temperature Limiting Capacity
1085	R2023	Water Heaters for Emergency Equipment
1086	2022	Reverse Osmosis (RO) Water Efficiency – Drinking Water
1087	2022	Commercial and Food Service Water Treatment Equipment Utilizing Drinking Water
1090	2020	Drinking Water Atmospheric Water Generators (AWG)
1093	R2023	Pitless Adapters, Pitless Units, and Well Caps
1098	2021	Vacuum Toilet Assemblies and Galley Waste Disposal Units on Passenger Aircrafts
1099	2022	Pressurized Water Tanks

“WORKING WELL WITH OTHERS”

I anticipate we all can remember a time years ago when our Societies, Unions, Organizations, Programs etc. began. We all look back with the understanding of how our fore fathers had the ambition taking on the task of starting out and understanding where we were headed in the future. What those meeting were like in the beginning is what I speak of all the time now. **“Working Well With Others”**. The fore fathers had to meet not only with those in their specific trade but with other that needed to be included on the education of what was to be included in building their organization. It occurred to me that a simple reference on what was to be noted on the startup was not quit enough information to begin at a meeting, they needed more information from others. Imagine how many meetings they had to have before they had to present it to their specific State for acceptance to become a Bill to a Law to a Statute. Here is how that process would have taken place in the early days. After a Bill was introduced in either the Senate or the House of Representatives it is passed by that chamber of origin, it is engrossed and forwarded as An Act to other chambers for consideration. When passed by the other chamber, it was documented and forwarded to the President. The Act shall be approved by the President or if vetoed, then two-thirds of the Senate and the House of Representatives.

The terms Act, Law and Statute are interchangeable. After approval Statutes are forwarded to the Law Revision Counsel in the House for review in preparation for printing and dissemination to the public. **“Working Well With Others”** to move things forward step by step is the way organizations become bigger and bigger. Before any organization moves forward with business they shall create a set of By-Laws designed for their specific needs. This process will take some doing from the Board Members, and possibly an attorney. A great additions to our programs is when women became interested, and were welcomed with open arms.

United States Sanitary Commission

Following the First Battle of Bull Run, volunteers from the Women's Central Association of Relief (WCAR) of New York witnessed the government's lack of sanitation and medical supplies. WCAR President Henry W. Bellows had traveled to Washington, D.C., intending to discuss matters regarding his organization. Meeting with Secretary of War Simon Cameron shortly after Bull Run, he instead discussed creating a Washington, D.C. organization that would provide advice and assistance to the Union military regarding medical care and general welfare. The organization would become the U.S. Sanitary Commission, approved by President Abraham Lincoln on June 13, 1861.

The U.S. Sanitary Commission, the only civilian-run organization recognized by the federal government, would serve as the focal point for civilian assistance to the military. U.S. Sanitary Commission volunteers advised on the physical and mental health of the military, assisted in the organization of military hospitals and camps, and aided in the transportation of the wounded. They distributed medical supplies, food, and clothing where needed. All of this was accomplished at no cost to the government, thanks to donations and fundraising activities.

Led by an executive board overseeing inspectors and field agents, U.S. Sanitary Commission branches in larger cities coordinated the efforts of local aid societies. Some existing regional aid societies, including the WCAR, would serve under the U.S. Sanitary Commission. Not everyone liked the idea of taking orders from Washington. Some organizations continued to function more or less independently, such as the U.S. Christian Commission which provided relief to both sides. On July 4, 1865, the U.S. Sanitary Commission ended its work. The last official act was the publication of its history in 1866.



U.S. Sanitary Commission Lodge, 1863
Alexandria, Virginia

U.S. Sanitary Commission lodge at Convalescent Camp, Alexandria, Virginia, 1863.



**Jane Currie Blaikie Hoge
(1811-1890)**

Hoge was educated at the Young Ladies' College in Philadelphia. At age twenty, she married A. H. Hoge and lived in Pittsburgh before moving to Chicago. When the Civil War began, two of Hoge's sons enlisted, and Hoge engaged in relief work providing supplies. She was soon appointed as a sanitary agent to visit hospitals at Cairo and Mound City, Illinois, and St. Louis, Missouri, and report on their conditions to the U.S. Sanitary Commission. Hoge attended the 1862 Women's Council in Washington, D.C., where she and Mary A. Livermore were appointed associate managers of the Northwestern Sanitary Commission, a branch of the U.S. Sanitary Commission in Chicago. The two women worked together to organize the supply effort, traveled to oversee efforts in the field, and gave speeches to encourage the war effort.

In early 1863, Hoge left Chicago with a large amount of stores intended for Major General William T. Sherman's troops outside of Vicksburg. Instead, her ship, volunteers, and supplies were commandeered by Union Brigadier General Willis A. Gorman for use on his expedition up the White River in Arkansas. Later that spring, Hoge succeeded in taking a ship loaded with supplies to aid to the Union Army at Vicksburg. After the war, Hoge wrote a book, *The Boys in Blue*, about the everyday experiences of soldiers and also continued her charitable works.

MORE TO COME IN THE MAY 2023 NEWSLETTER

ASSE Illinois Chapter wishes to thank all of our sponsors for advertising in the monthly newsletter, which is sent to all the International Chapters of IAPMO/ASSE. We appreciate each and every one of you.

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In the spirit of friendship and cooperation, the Illinois Chapter of the American Society of Sanitary Engineering (ASSE) and the Plumbing Contractors Association of Greater Chicago (PCA) are both proud to represent and serve the skilled and dedicated professionals in our industry. To make up for a few advertisements that were missed in recent issues due to an unintentional oversight, our ASSE Chapter is pleased to run this expanded version of the PCA's ad.



PCA of Greater Chicago

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The *Plumbing Contractors Association* (PCA) represents and serves UA Local 130 signatory plumbing contractors in Chicago and Northern Illinois (17 counties) with quality resources, education, advocacy, safety, networking, and much more – led by a dedicated volunteer contractor board and a full-time staff.

The PCA (and *Plumbing Council*) provides our members with an array of practical services and benefits, so contractors can focus on best serving their customers. Since 1882, the PCA has shown that “none of us is as strong as all of us.” As the only local plumbing contractors’ association affiliated with and active in the National and State PHCC; MCAA; IMSCA; CISCO; and UAC, the PCA is a united voice for our industry.

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We would be happy to print your story in our newsletter, whether it be about your Military, family member attending college, anniversary, accomplishments, projects you are or have worked on, etc. pictures are always welcome.



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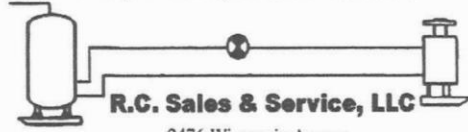
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RK 34-975XLC
Repair Kit for ¾"-1" 975XL

Kit Includes: (2) Check Poppet, 1st Check Spring, 2nd Check Spring, Relief Valve Spring, (2) Check Seat, (2) Check Seat O-Ring, Relieve Valve Seat, Relief Valve Seat O-Ring, Lube

Ames 7010046 – 2 ½"-10" Total Relief Valve Kit for a C/M 400/C500

Kit Includes: Complete RV with 36" Hose, RV O-Ring and Lube



Ames 7010097 – First Check Assembly 2 ½"-4" for Ames 2000/3000SS

Kit Includes: 1st Check Assembly, O-Ring and Lube

Ames 7010114 –Relief Valve Kit 2 ½" -10" for 4000SS RP and 5000SS RPDA

Kit Includes: Complete Relief Valve Assembly, Relief Valve O-Ring, Lube

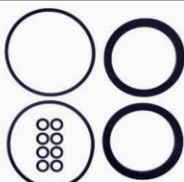


Watts: 0794090 – Complete Total Rubber Kit 4" for 909 RP; *Lead Free* (Previously 0887751)

Kit Includes: Check Disc, Cover O-Ring, Sleeve O-Ring, Piston O-Ring, RV Disc Assembly, Diaphragm, Piston

RK 4-350
4" 350AST, 4" 375AST

Kit Includes: (2) Check Disc Rubber, (2) Cover O-Ring, (8) Bolt O-Ring, Lube



Apollo-Conbraco: 40-004-A1 – ¾"-1" Major Repair Kit for 40-200 RP

Kit Includes: RV Bushing, RV Stem, Diaphragm Plate, (2) Poppet, RV Diaphragm, RV Seat Disc, (2) Check Seat Disc, Stem O-Ring, Bushing O-Ring, (2) Check Cap O-Ring, RV Spring, (2) Screw, (2) Retaining washier, (2) Check Seat, (2) O-Rings, RV Seat, RV O-Ring



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Please CHECK which class you would like to attend:

All classes will be from 5pm – 9pm with Dinner included

BACKFLOW REPAIR COURSE \$85

This course is focused on refreshing the Cross Connection Tester on testing procedures as well as hands on repairs for approved assemblies for the state of Illinois. During this class we will be going over our NEW mechanical wall, show you how water pressure fluctuations affect backflow assemblies, how to remedy the situation and be able to see it in a live setting. Also new this year is the Flood Control Integrated System by Wilkins; this system can be designed to shut off a specific water line when a backflow goes into a full dump situation.

- Thursday, January 16th
- Thursday, February 27th
- Thursday, April 2nd
- Thursday, January 30th
- Tuesday, March 3rd
- Thursday, April 16th
- Thursday, February 13th
- Tuesday, March 17th
- Thursday, April 30th

NEW!! LARGE BACKFLOW REPAIR (SMALL GROUP) - Max 12 attendees per class \$125 per person

Small group backflow repair class. Classes will consist of 3 individual groups working with an individual instructor to do hands on testing, diagnosis, and repair of large backflow assemblies only. The repair class will involve repairing of the following backflow assemblies:

- 4" Febco 825YD
- 3" Watts 009
- 4" Wilkins 375AST
- 4" Ames 4000SS
- 8" Ames Maxim 400
- 3" Watts 909

- Tuesday, January 21st
- Tuesday, February 18th
- Thursday, March 26th
- Tuesday, February 4th
- Thursday, March 12th
- Tuesday, April 7th
- Tuesday, April 21st

Location: Test Gauge, Inc. | 1051 E Main St, Unit 107 | East Dundee, IL 60118

Toll Free: (866) 836-8692 | **Local:** (847) 836-8690 | **Email:** salesgroup@testgauge.net



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