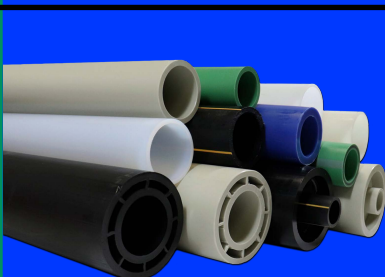


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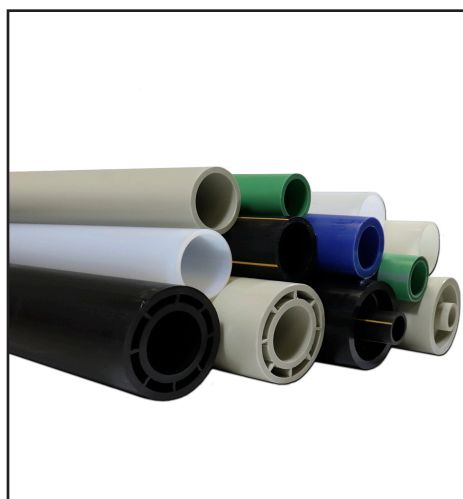
Thermoplastic Pipe • Valves • Actuators



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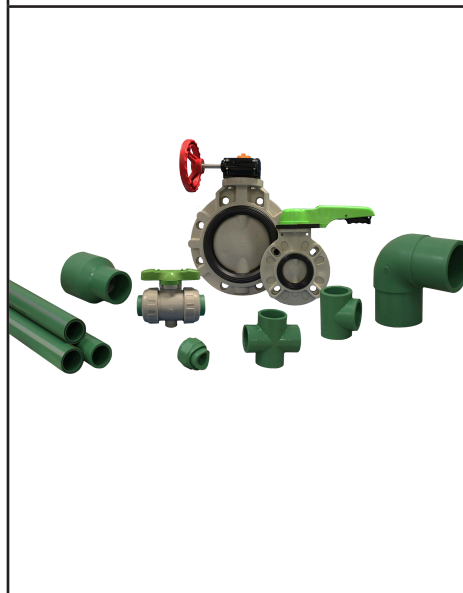
Presentation #1

Thermoplastic Piping Systems for Environmental & Industrial Applications

Learn about design and installation of thermoplastic piping systems designed for long-term use in chemical transport systems. Presentation includes overview of single wall piping and double contained systems in multiple materials including PE, PP, PVDF, and ECTFE. Feature and benefits as well as limitations will be discussed. This presentation will help engineers determine the appropriate solution for their chemical transport applications.

Learning Objectives

1. Material Overview
2. Benefits of Thermoplastics
3. Design Criteria
4. EPA Guidelines for Double Containment
5. Installation Considerations
6. Welding Methods, Equipment and Training



Presentation #2

PP-RCT for Plumbing, HVAC and Hydronics

Learn about polypropylene material, specifically PP-RCT for use in process water lines, as well as in HVAC and hydronics applications. The presentation will compare and contrast the PP-RCT material to the two major metallic piping systems currently in use (copper and carbon steel) and demonstrate the benefits of PP-RCT over the metallic materials.

The presentation will review certifications, material and installation costs, material design review for pressure and temperature capabilities, insulating properties and benefits, and energy efficiency regarding comparative pumping pressures and flow rates. LEED and "green" advantages are reviewed. Typical product applications are discussed.

Learning Objectives

1. Material Overview
2. Comparative benefits of PP-RCT
3. Design Criteria verses comparisons to Steel and Copper:
4. Applications

	<p>Presentation #3 Thermoplastic Piping Systems for High Purity Applications Learn about design and installation of thermoplastic piping systems designed for optimal performance of high purity water. Presentation includes overview water system layout design, water purification equipment and piping material selection. Features and benefits of critical fitting and valve components for system operation will be discussed. An overview of high purity welding techniques and installation practices will also be reviewed.</p> <p>Learning Objectives</p> <ol style="list-style-type: none"> 1. Water System Design 2. Water Purification Equipment 3. Piping Material Selection 4. Critical Components 5. Thermal Expansion Design 6. Welding Methods 7. Installation Criteria
	<p>Presentation #4 Advanced PE Piping Systems for Chemical Applications Presentation will provide an overview of chemical feed and dosing systems with emphasis on the use of advanced polyethylene (PE) material as compared to current typical materials such as PVC and CPVC. Covered topics include reasons for piping system failures, various pipe joining methods, and single and double wall piping applications. Welding demonstrations will be performed.</p> <p>Learning Objectives</p> <ol style="list-style-type: none"> 1. Advanced PE Material Overview 2. Contrasting Benefits/Constraints of various Thermoplastic Materials 3. Chemical Process Design Criteria 4. Guidelines for Single Wall and Double Containment Piping 5. Installation Considerations 6. Welding Methods, Equipment and Training
	<p>Presentation #5 Actuation Selection Criteria This presentation will provide an explanation of what valve actuation is, and an in-depth review of both pneumatic and electric actuators. The presentation will provide insight into proper actuator selection and sizing, and how to choose the correct actuator for the valve and system application being considered. Actuation methods are explained and mechanical exploded views and diagrams are utilized to further detail the construction and movement of the units. Various market applications are reviewed including aquariums, wastewater treatment plants, chemical and industrial applications and more.</p> <p>Learning Objectives</p> <ol style="list-style-type: none"> 1. Define Actuation 2. Explain Electric and Pneumatic Actuators 3. How Actuators work 4. Proper application of the two types of actuators 5. Installation Considerations and how they affect actuator selection 6. Accessory selection for improved system operation



Presentation #6

HDPE Piping For Compressed Air Service

The presentation will review compressed air safety considerations, material and installation costs. Material design for pressure, temperature and chemical resistance will be presented. A presentation of HDPE energy efficiency regarding comparative pumping pressures and flow rates will be presented.

Learning Objectives

1. HDPE Material Overview
2. Benefits of HDPE over Metallic Air Systems
3. Design Criteria
4. OSHA Guidelines and Safety Considerations
5. Installation Practices
6. Welding Methods, Equipment and Training



Presentation #7

Building Services Piping - PP-RCT & HDPE

The presentation will review certifications, material and installation costs, material design review for pressure and temperature capabilities, insulating properties and benefits, and energy efficiency regarding comparative pumping pressures and flow rates. LEED and "green" advantages are reviewed.

Learning Objectives

- Material Overview Design Criteria via Comparisons of PP-RCT to Steel and Copper
- Corrosion Resistance
 - Thermal Conductivity
 - Weight
 - Flow and Pressure Capacity

Technical Resource Biographies

Alex Gambino, Director of Business Development
Industrial & Environmental Products - West US



Alex joined the Asahi/America engineering department in 2007 where he held several positions before evolving into a business development role. He holds a bachelor of science from Rochester Institute of Technology in mechanical engineering technology, and a master of business administration from Northeastern University. Alex is a member of ASME, where he volunteers on the Non-metallic Pressure Piping System Standard (NPPS) and B31.3 Process Piping Code committees. A devoted advocate for the customer, Alex's passion for problem solving makes him the ideal partner for challenging fluid handling projects.

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(617) 529-8218

Pat Higgins, Business Development Manager
High Purity Products - East US



Pat has over 30 years of experience with technical sales of semiconductors and products used in semiconductor manufacturing including high purity piping, valves and fittings. Currently he is in the high purity products group, which includes piping systems for semiconductor and life sciences applications. He is an excellent resource for information regarding the design of high purity water systems including material selection and advanced welding technologies. Pat has a mechanical engineering degree from the University of Connecticut and an MBA from the University of Dallas.

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Shane McDaniel, Business Development Manager
Actuation Products



Following his time in the US Marine Corps as an aviation electronics technician, Shane began his career in the process instrumentation and control industry. For more than 15 years he has held roles in research labs, technical sales and service companies, and business development.

Shane's experience with instrumentation, valves, actuation and controls spans multiple industry segments including municipal water and wastewater, oil and gas, liquid transmission, steel, and chemicals. He is a certified trainer, uncompromising customer advocate, and passionate problem solver.

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Rob Marsiglia, Business Development Manager
Commercial Products - US



Rob has close to 40 years' experience in industrial, commercial and laboratory fluid handling applications. He is the national business development manager for commercial products, which include PP-RCT for hydronic and plumbing applications, and specialized PE for compressed air and gases. He has extensive knowledge of commercial piping applications, as well as the selection and design of high purity and rainwater recovery equipment and systems. Rob holds a bachelor of science in mechanical engineering, is a certified plumbing design technician, and ASPE certified presenter.

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Ken Moody, Business Development Manager
Commercial Products - West US



Ken is the western region business development manager for Asahi's commercial products. He has over 40 years of experience in metallic and thermoplastic materials for residential, commercial and industrial markets. Ken is currently focusing on PP-RCT for plumbing and HVAC systems, and PE-100 for compressed air applications. He is an ASPE certified presenter and belongs to the San Francisco chapter of ASPE.

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Technical Resource Biographies

Pete Quinn, Business Development Manager

Custom Fabricated Products



Pete joined Asahi/America in 2020 and is responsible for the development of custom fabricated products that are designed and built by the company. Pete has over 35 years of experience in the distribution, development and manufacturing of unique plastic piping fabrications with extremely tight tolerances in materials including HDPE, PP and PVDF. He has worked with a number of industries including water treatment, semiconductor, mining and chemical processing. Pete's expertise in plastic welding and manufacturing ensures that all options are open for discussion.

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David Stiles, Business Development Manager

High Purity Products - West US



David has over 25 years of experience in the semiconductor and life science industries working with major fabs, OEMs and component manufactures. He has been with Asahi/America since 2017 as a member of the high purity products group, specializing in PVDF, PP and PFA piping systems and valves. He can aid in material selection and system design as well as provide training in advanced welding techniques such as beadless and IR welding. David is an ASPE certified presenter and serves on the SEMI UPW task force.

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Rodney Van, Business Development Manager

Industrial & Environmental Products - East/Central US



Rod has over 30 years of Environmental and Industrial experience with Asahi/America's thermoplastic piping systems, valve and actuation products for chemical handling and high purity applications. He is currently a BDM for the Environmental and Industrial products group which also includes water and wastewater treatment applications. His projects and tasks include life cycles - material selection, design, cost, and start up, as well as equipment selection and training with A&E's end users and contractors.

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David Wilson, Business Development Manager

Marine Industry



David has over 35 years' experience with technical sales of engineered control valves and actuators. He has been with Asahi/America the last 17 years. Currently, he is in the marine industry group, which includes actuated control valves and piping systems for hot and cold water, black and gray water, ballast water treatment, fresh water ballast and bunker, fresh cooling water, cooling systems/air conditioning, and compressed air applications.

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