

Ideas  
that flow.

# Chemtrol®

We've got ideas.

# Chemtrol®

Chemtrol continues the tradition of excellence begun by our parent company, NIBCO INC. During four generations of family leadership, NIBCO has grown from a brass foundry to twelve manufacturing centers, producing flow-control products available worldwide. NIBCO's substantial investments in Chemtrol demonstrate the company's commitment to thermoplastic valves, fittings, and pipe—ideas whose time has come.



For ideas that fit your industrial flow-control applications, you can count on Chemtrol. Our high quality line of thermoplastic valves, fittings, and pipe are ideas that last. Ideas that save money. Ideas whose time has come.

### Proven dependability.

Chemtrol flow-control products are unsurpassed in performance and longevity. With more than 55 years of experience in industrial thermoplastics, Chemtrol offers dependable products that work in the most demanding environments.



### Innovative technology.

Great ideas flow from Chemtrol in PVC, CPVC, PP, and PVDF products for a wide range of flow-control applications.

### Technical service and sales support.

Our technical specialists are the best in the business. As part of your team, they provide expert advice, solve problems, and assist you every step of the way.

Our distributors, sales professionals, and service representatives offer ideas, answer questions, and put their knowledge to work for you.

### Education and training.

We help you learn about the benefits of thermoplastics through excellent programs: classes and seminars specific to your industry, presented at our manufacturing facility, or product and application-specific seminars conducted in the field. Our high-quality product and technical manuals are available on request, and a full listing of Chemtrol products is provided on our web site, [www.chemtrol.com](http://www.chemtrol.com).





# Thermoplastics: the right idea.

Ideas that  
save money.

The total installed cost of a Chemtrol thermoplastic piping system is significantly lower than that of a comparable non-plastic system. Years of maintenance-free operation keep the savings coming.

Chemtrol®: a premium line of quality products.  
*Thermoplastic valves, fittings, and pipe.*

Attributes	Advantages	Cost savings
Lightweight	80 percent lighter than metals	<ul style="list-style-type: none"><li>– Lower freight costs</li><li>– No need for heavy lifting equipment</li></ul>
Weather-resistant	No rusting, pitting, or scaling	<ul style="list-style-type: none"><li>– Superb performance in any natural environment</li><li>– No replacement required</li></ul>
Maintenance-free	No painting, coating, or maintenance required	<ul style="list-style-type: none"><li>– Lower installation costs</li><li>– No maintenance needed for properly installed system</li></ul>

Chemtrol thermoplastic valves, fittings, and pipe offer unique advantages over non-plastic materials. When you choose Chemtrol, you've got the right idea.

Ideas that are easy.

**Flexibility.**

In underground installations, thermoplastic piping may be snaked in trenches to minimize the effects of expansion and contraction.

**Simplicity.**

Solvent cementing and socket fusion installations are much easier than traditional welding, threading, or flanging.



**Adaptability.**

A variety of joining techniques makes thermoplastic flow-control systems adaptable to any field application.

Thermoplastic piping can be:

- solvent-cemented
- threaded
- heat-fused
- flanged

Ideas that last.

**Long life.**

Properly designed and installed thermoplastic piping systems have no known end-life.

**Tough material.**

Thermoplastic flow-control systems perform well in the harshest environments. Thermoplastic materials are:

**Resistant to:**

- abrasion
- corrosion
- chemical and biological attack
- weather

**Immune to:**

- galvanic and electrolytic erosion

**Smooth flow/thermal retention.**

Fluids flow easily, with minimal friction loss, and maintain relatively uniform temperatures.



Refer to Chemtrol Technical Manuals for pressure ratings at various temperatures.

Polyvinyl Chloride (PVC)






Chlorinated Polyvinyl Chloride Corzan® (CPVC)



<b>Typical Applications</b>	Chemical processing, industrial plating, chilled water distribution, chemical drainage, and irrigation systems.	Systems for hot corrosive liquids, hot and cold water distribution, chemical processing, industrial plating, deionized water lines, chemical drainage, waste water treatment systems, and similar applications above the temperature range of PVC.
<b>Joining Methods</b>	Solvent cementing, threading, or flanging	Solvent cementing, threading, or flanging.
<b>Max. Service Temperature</b>	140°F/60°C	210°F/99°C
<b>Fittings</b> Schedule 80	Socket– 1/2" through 12" Threaded– 1/4" through 4"	Socket– 1/4" through 12" Threaded– 1/4" through 4", Van Stone flanges
Large diameter	Schedules 40 and 80 10" and 12" couplings, tees, 90° and 45° elbows, reducer bushings, and Van Stone flanges	10" and 12" couplings, tees, 90° and 45° elbows, reducer bushings
<b>Valves</b> Tru-Bloc/True Union ball valves*	1/2" through 6" socket, threaded, and flanged connections	1/2" through 6" socket, threaded, and flanged connections
Tru-Bloc/True Union ball check valves	1/2" through 4" with socket, threaded, or flanged ends	1/2" through 4" with socket, threaded, or flanged ends
Butterfly valves*	EPDM and FPM (Viton®) liner - 2-1/2" through 10"	EPDM and FPM (Viton®) liner 3" only
Diaphragm valves	1/2" through 4" with spigot, socket, or flanged ends	1/2" through 4" with spigot, socket, or flanged ends. Also available in PVC, natural polypropylene (Chem-Pure®) and natural PVDF.
Multiport valves*	True Union 3-way/3-position; 1/2" through 2" with socket, threaded, or flanged ends	True Union 3-way/3-position multiport ball valves, 1/2" through 2" with socket and threaded ends.
Specialty valves	Angle and Y pattern: 1/4" through 1" threaded Needle and Chemcock: 1/4" threaded	
<b>Pipe</b>		

\*For pneumatic or electric actuation.

<p>Polypropylene (PP)</p> 		<p>Polyvinylidene Fluoride Kynar® (PVDF)</p> 	
<p><b>Black Polypropylene:</b> Clean chemical processes, hot corrosive liquids, industrial plating, waste treatment systems</p>	<p><b>Natural Polypropylene:</b> Deionized water systems, clean chemical processes, pharmaceutical operations, food processing</p>	<p><b>Red KYNAR®</b> PVDF, which protects fluid medium from UV exposure, is an excellent material for general industrial applications, especially outdoor installations.</p>	<p><b>Natural KYNAR®</b> (Unpigmented) PVDF is ideal for industries such as electronics, pharmaceuticals, and processed foods or beverages.</p>
Thermo-seal fusion, threading, or flanging.	Thermo-seal fusion, threading, or flanging.	Socket heat fusion, threading, or flanging.	Socket heat fusion, threading, or flanging.
180°F/82°C	180°F/82°C	280°F/138°C	280°F/138°C
IPS socket type—1/2" through 6" Threaded—1/2" through 4"	IPS socket type—1/2" through 4" Threaded—1/2" through 4"	IPS socket type—1/2" through 6" Threaded—1/2" through 2"	IPS socket type—1/2" through 6" Threaded—1/2" through 2"
1/2" through 4" with socket, threaded, or flanged ends	1/2" through 4" with socket ends	1/2" through 4" with socket, threaded, or flanged ends	1/2" through 4" with socket, threaded, or flanged ends
1/2" through 4" with socket, threaded, or flanged ends		1/2" through 4" with socket, threaded, or flanged ends	1/2" through 4" with socket, threaded, or flanged ends
	1/2" through 4" with metric spigot, IPS socket, or ANSI flanged ends.		1/2" through 4" with metric spigot, IPS socket, or ANSI flanged ends.
Chemtrol socket fusion equipment for joining PP and KYNAR® (PVDF) fittings 1/2" through 6"			
Schedule 40 and 80 wall thicknesses		Schedule 40 and 80 wall thicknesses	



# Chemtrol support services— for the people who matter most.

## Technical support.



Our technical specialists are widely known as experts and problem-solvers in our industry. Their extensive knowledge and experience make them invaluable members of your team.

Technical support includes:

- Assistance with product selection
- Installation recommendations
- On-site troubleshooting and problem-solving

## Education and training.

Chemtrol is a source of learning, as well as a source of ideas and solutions. Our unique programs and resources include:

- “Box lunch” seminars at your facility. Segments include:
  - Industrial thermoplastic piping materials
  - Joining methods
  - Chemical resistance
  - Applications
  - Valves and their usage
- Specialized training schools, designed for:
  - Internal and field personnel
  - Distributors
  - Installers
  - Design engineers
- Chemtrol product information
  - High quality product guides
  - Clearly written technical manuals
  - Complete product listing on our web site

## Customer service.

A call to Chemtrol’s customer service department puts you in touch with the answers you need—*quickly and efficiently.*

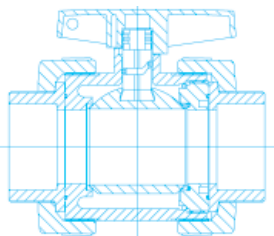


At Chemtrol, we have the ideas that simplify your planning, solve problems, and help keep your project running smoothly. As a member of your team, we support you with a wide range of services and resources.

### Distribution.

We're sensitive to your project requirements and time constraints, and we make every effort to deliver your order when and where it's needed.

- *Nationwide distribution*
- *Accurate shipments*
- *On-time delivery*



### A solid foundation for growth.

- Highest quality standards. Like all of NIBCO's twelve manufacturing centers, our Chemtrol facility has earned ISO-9001 certification—the highest standard of manufacturing quality.
- Precision cellular manufacturing processes. Team-based environment ensures high quality of product.
- Statistical process control (SPC) is a critical element in our ongoing pursuit of quality improvement.
- Team concept. Dedicated teams of Chemtrol employees employ the most efficient, productive processes. Continuous-improvement techniques help us reduce costs and achieve “perfect-order” targets.

### Commitment to the future.

Thermoplastics can handle an estimated 70 percent of industrial piping applications. Because of their numerous advantages over non-plastic materials, they are clearly the choice for the future.

Chemtrol reflects NIBCO INC.'s commitment to growing its thermoplastics business—a business dedicated to excellence in manufacturing and product quality.





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Chem-Pure® is a registered trademark of NIBCO INC.  
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Fluorel® is a registered trademark of 3M Company.  
Kynar® is a registered trademark of Arkema Inc.  
Neoprene® is a registered trademark of E.I. DuPont Co.  
Teflon® is a registered trademark of E.I. DuPont Co.

Every solution  
begins with  
a good idea.

We've got ideas that flow directly to solutions for your industrial piping applications. Ideas that make your installations easier and more cost-effective. Ideas that work, and ideas that last. Our ideas are strengthened by a sound foundation for growth and a solid commitment to service.

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