CALL TOLL FREE 877-742-2878 FOR SALES AND SUPPORT

Return to BurtProcess.com

Thermoplastic Valves and Piping Systems









Thermoplastic Valves and Actuators • Industrial, Environmental and Commercial Piping Systems
High Purity Piping Systems • Wet Process Solutions • Welding Equipment

Another Corrosion Problem Solved.™

ASAHI/AMERICA®

www.asahi-america.com



Asahi/America pioneered the market for thermoplastic valves in the United States and Latin America during a time when there was no viable alternative to metal for piping systems. Asahi/America began by promoting valves from a company known as ASAHI YUKIZAI CORPORATION and piping through AGRU GmbH in Austria. Through distributor and end-user education and acceptance, the use of thermoplastics has grown. Asahi/America now manufactures and distributes thermoplastic products including valves, actuators, single and double wall piping systems and components throughout the United States, Latin America and Australia.

Asahi/America has partnered with the world's leading plastics companies to provide you the best thermoplastic fluid flow solutions available on the market today.

ASAHI YUKIZAI

agru
Worldwide Competence in Plastics

emtechnik
simply better

B+R
Bänninger

FRANK

POLYTETRA
A Company of the ElringKlinger Kunststofftechnik Group

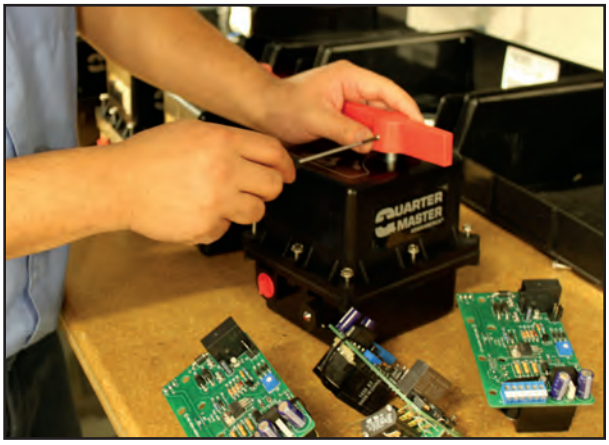
Plastics. Performance. Purity. Problem Solved.

Asahi/America is a diversified ISO9001:2008 certified manufacturer and supplier of corrosion resistant fluid flow products. Headquartered in Lawrence, Massachusetts, where we operate a 200,000-square-foot manufacturing and warehouse facility, Asahi/America supports all of our products with a comprehensive selection of in-depth technical documents and product catalogs. To access any of Asahi/America's technical documentation, testing information, or product catalogs, visit the company's web site at www.asahi-america.com or contact Customer Service at 1-800-343-3618.

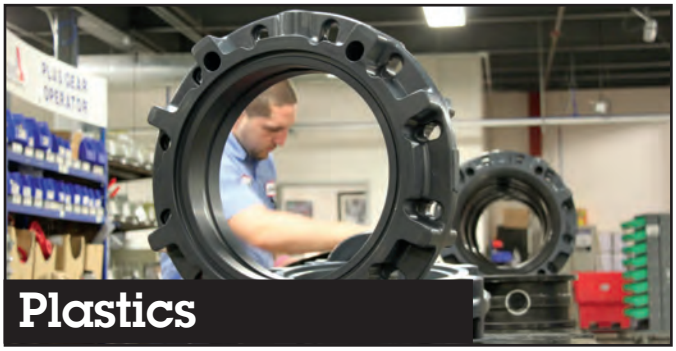
What makes Asahi/America special is our ability to provide solutions for corrosive or high purity fluid handling systems individualized to meet virtually any customer's need. The Asahi/America technical staff is able to provide superior knowledge of products, applications and installations. Asahi/America is ready to support your next project with the assistance of our large distribution network.

Interested in purchasing any of Asahi/America's products?

Asahi/America sells its products through the industry's largest distributor network with stocking locations nationally and throughout Latin America and Austrailia. If you wish to locate your local Asahi/America distributor, contact our Customer Service department at 1-800-343-3618 or visit our web site at www.asahi-america.com and select the where to buy link at the top of the home page.



ASAHI/AMERICA



Plastics: Valves and Actuators

Asahi/America's valve and actuation products have been used in the field for over four decades. We feature a full complement of thermoplastic valves including ball, butterfly, diaphragm, globe, gate, ball and wafer check. In addition, both pneumatic and electric actuators are available to be factory mounted to our valves in our shop or purchased separately for field mounting.

Performance: Thermoplastic Piping Systems

Asahi/America offers a full selection of industrial, environmental and commercial piping systems. We feature a wide array of industrial single wall piping systems including Chem Proline® (Advanced PE), Ultra Proline® (Halar®), Proline® (polypropylene) and Super Proline® (chemical grade PVDF). In addition, our Air-Pro® system is used for compressed air and Pro-Vent® system for ducts. We have five unique double containment systems including Poly-Flo® (Advanced PE and PP-R), Pro-Lock® (PVC and CPVC), Fluid-Lok® (HDPE), Chem Prolok® (Advanced PE) and the versatile Duo-Pro® line.





Purity: High Purity and Wet Process Solutions

Asahi/America is the complete one-source solution for your high purity and wet process needs. We feature Purad® (PVDF), PolyPure® (PPn), PP-Pure® (pigmented PP), Purflon® (PFA) high purity piping systems, Dymatrix™ specialty valves, and EM Technik fittings and tubes. We also offer Polytetra heat exchangers and heaters, a full fleet of welding equipment, and extensive cleanroom fabrication capabilities.

Problem Solved

Our valves, actuators and piping systems have been solving corrosion problems in the world's leading industrial, municipal and entertainment installations for more than four decades. From the harshest chemicals to the toughest weather conditions, our family of fluid flow solutions provides extended life cycle and dependable performance to a wide range of applications.



- Chemical Processing
- Petrochemical
- Mining
- Pulp and Paper
- Plating
- Pharmaceutical
- Food
- Semiconductor Processing
- Municipal & Industrial Water
- Wastewater Treatment
- Aquariums
- Landfill Recovery
- Ultra Pure Water
- Theme Parks
- Cruise Ship Construction
- Solar Panel Manufacturing
- Ethanol Production
- Railroad Yard Switching Systems

ASAHI/AMERICA®

Type-21/21a Ball Valve



Specifications
Sizes: 1/2”- 6”
Models: PVC and CPVC: Socket, Threaded and Flanged (ANSI)
PP and PVDF: IPS and Metric (DIN) Socket, Threaded, Butt and Flanged (ANSI)
Bodies: PVC, CPVC, PP and PVDF
Seats: PTFE backed with EPDM or FKM
Seals: EPDM, FKM or AFLAS®

NSF-61 Approved
(1/2” - 4” PVC/EPDM/FKM)

Labcock® Ball Valve



Specifications
Size: 1/4”
Bodies: PVC
Seats: EPDM
Seals: EPDM
Models: Male Thread x Male Thread, Male Thread x Hose (ID 3/8”), Male Thread x Female Thread, Male Thread x Hose, Hose x Hose, Female Thread x Female Thread, Male Thread Elbow (OD .63”) 90°

NSF-61 Approved
(1/4” PVC/EPDM)

Type-23 Multiport® Ball Valve



Specifications
Sizes: 1/2”- 6”
Models: Socket, Threaded and Flanged (ANSI)
Bodies: PVC, CPVC, PP, PVDF
Seats: PTFE backed with EPDM or FKM
Seals: EPDM, FKM or AFLAS®

NSF-61 Approved
(1/2” - 4” PVC/EPDM/FKM)

Type-14 Diaphragm Valve



Specifications
Sizes: 1/2”- 2” - True Union
1/2” - 10 - Flanged (ANSI)
Body: PVC, CPVC, PP and PVDF
Bonnet: PVC, PP, PPG and PVDF
End Connectors: PVC, CPVC, IPS Socket or Threaded PP, PVDF, IPS and Metric (DIN) Socket, Threaded, Butt, Flanged
Diaphragms: EPDM, 3-Layer PTFE or FKM

Omni® Ball Valve



Specifications
Sizes: 3/8”- 2”
Models: Socket and Threaded
Bodies: PVC, CPVC
Seats: PTFE backed with EPDM
Seals: EPDM

NSF-61 Approved
(3/8” - 3” PVC/EPDM)

Globe Valve



Specifications
Sizes: 1/2”- 4”
Bodies: PVC and PP
Models: Flanged (ANSI) 1/2”- 4”
Socket or Threaded 1/2” - 2”
Seals: EPDM or FKM

Electromni® Ball Valve



Specifications
Sizes: 3/8”- 2”
Models: Socket and Threaded
Voltages: 115/VAC
Enclosure: Type 4X
Conduit: 1/2” NPT

Valves: Omni® Ball Valve
Type-21 Ball Valve
Type-23 Multiport®

Gate Valve



Specifications
Sizes: 1-1/2”- 14”
Body: HI-PVC
Models: Flanged (ANSI)
Type: Non-rising stem
Seals: EPDM, FKM (optional)

NSF-61 Approved
(1-1/2” - 14” PVC/PP/EPDM/FKM)

ASAHI/AMERICA®

Type-57 Butterfly Valve



Specifications
Sizes: Lever: 1-1/2" - 8" Gear: 1-1/2"- 14"
Models: Wafer Style
Operators: Lever and Gear
Bodies: PVC, PP and PVDF
Discs: PVC, CPVC, PP & PVDF
Seats and Seals: EPDM, FKM or Nitrile
Stems: 316 Stainless Steel, Titanium, Hastelloy®

NSF-61 Approved
(1-1/2" - 14" PVC/PP/EPDM)

Large Diameter Butterfly Valve



Specifications
Sizes: 28"- 48"
Models: Wafer Style
Operators: Gear
Bodies: PDCPD
Discs: PDCPD, PP, PVDF
Seats and Seals: EPDM, FKM
Stems: 403 Stainless Steel, 28" - PP or PVDF

Type-57 IL Butterfly Valve



Specifications
Sizes: Lever: 3" - 8" Gear: 3"- 12"
Models: Lug Style
Operators: Lever and Gear
Bodies: PVC
Discs: PVC PP and PVDF
Seats and Seals: EPDM, FKM or Nitrile
Stems: 316 Stainless Steel, Titanium, Hastelloy®
Lugs: 316 Stainless Steel

High Pressure Butterfly Valve



Specifications
Sizes: 16"- 24"
Models: Wafer Style
Operators: Gear
Bodies: PDCPD
Discs: PP and PVDF
Seats and Seals: EPDM, FKM or Nitrile
Stems: 403 Stainless Steel, 316 Stainless Steel, Titanium, Hastelloy®

Type-57 LIS Butterfly Valve

ISO-5782 replacement valve



Specifications
Sizes: 3" - 8"
Models: Wafer or Lug Style
Operators: Lever and Gear
Bodies: PVC
Discs: PVC, CPVC, PP and PVDF
Seats and Seals: EPDM, FKM or Nitrile
Stems: 316 Stainless Steel, Titanium, Hastelloy®
Lugs: 316 Stainless Steel

Type-55 IS Butterfly Valve



Specifications
Sizes: Lever: 2" - 5" Gear: 2"-8"
Models: Wafer or Lug Style
Operators: Lever and Gear
Bodies: Powder coated ductile construction iron
Discs: PTFE
Seats and Seals: PTFE backed with Neoprene
Stems: 304 Stainless Steel

Type-75 Butterfly Valve



Specifications
Sizes: 18"- 24"
Models: Wafer Style or Machined Lug Style **Operators:** Gear
Bodies: PP and PVDF
Discs: PP and PVDF
Seats and Seals: EPDM, FKM or Nitrile
Stems: 403 Stainless Steel, 316 Stainless Steel, Titanium, Hastelloy®
Lugs: 304 or 316 Stainless Steel

Pool-Pro® Butterfly Valve



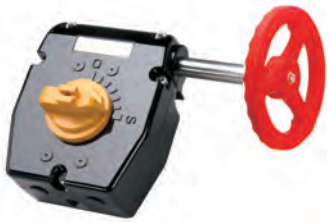
Specifications
Sizes: 1-1/2"- 12"
Models: Wafer Stye
Operators: Lever or Gear
Bodies: PVC
Discs: PVC
Seats and Seals: EPDM
Stems: S32101 Stainless Steel

ASAHI/AMERICA®

Butterfly Valve Options

Plasgear™ - Plastic Gear

Constructed of composite plastic with black urethane coating, Plasgear™ will not corrode or rust as a result of exposure to harsh chemicals. Plasgear™ is standard on all Asahi/America 1-1/2" - 14" Type-57 butterfly valves and available in for 16" valves, or can be supplied without the valve.



SPEED HANDLE™

The Speed Handle™ is an accessory adder to the Plasgear™ gear operator for butterfly valves. The revolving grip permits faster, single-handed revolutions of the hand wheel for quicker valve actuation.



Chain Operator

Installed on the round handwheel of a valve in overhead, out-of-reach locations. The valve is operated by pulling on the chain.



Ball Valve Options

Operating Nuts

Available in 2" square nut or "T" nut configurations.

Used for remote operation of a valve by a wrench.



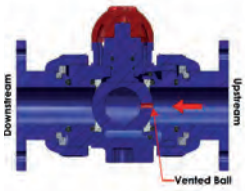
Locking Handle

Prevents unauthorized operation. The valve handle can be padlocked in the open or closed position.



Vented Ball Valve

Prevents off-gas build up in sodium hypochlorite applications. We can factory equip our ball valve with an 1/8" vent hole. Provides longer valve life and safer operation.



Stem Extension Kits

Type-21 ball valve stem extension kits are the ideal solution for accessing valves that are installed in out-of-reach locations.



AV Gasket

Specifications
Materials/Sizes:
EPDM: 1/2" - 12"
PTFE-bonded EPDM: 1/2"-12"
PVDF-bonded EPDM: 1/2" - 10"
(except 1-1/4" and 2-1/2")



Constant Flow Valve

Specifications
Sizes: 1/2", 3/4", 1", 2", 3" and 4"
Body: PVC
Bonnet: PVC
Models: Flanged (ANSI)
Seals: EPDM
Springs: 304 Stainless Steel with ETFE Coating



Sediment Strainer

Specifications
Sizes: 1/2"- 4"
Models: Socket, Threaded, Flanged (ANSI)
Body: PVC
Screens: Standard 20 mesh PVC (Optional 30 and 40)
PVC (20, 40 and 60 Stainless Steel)
Seals: EPDM, FKM

NSF-61 Approved
(1/2" - 4" PVC/EPDM/FKM)



Strainer Drain Kit Option



ASAHI/AMERICA®

Ball Check Valve



Specifications
Sizes: True Union: 1/2”- 2”
Single Union: 3”- 4”
Models: Socket, Threaded, Flanged (ANSI), Butt
Bodies: PVC, CPVC, PP and PVDF
Seats: EPDM, FKM, PTFE
Seals: EPDM, FKM, PTFE
Options: Foot Valve Screen and Stainless Steel Springs

NSF-61 Approved
(1/2” - 2” PVC/EPDM/FKM)

Foot Valve Screens



Specifications
Sizes: 1/2”- 4”
Bodies: PVC, CPVC, PP and PVDF
Seats: EPDM, FKM, PTFE
Seals: EPDM, FKM, PTFE

Swing Check Valve



Specifications
Sizes: 3/4” - 8”
Models: Flanged (ANSI)
Bodies: HI-PVC, PP and PVDF
Seats: EPDM, FKM, PTFE
Options: Lever and Weight
Stainless Steel Springs

Wafer Check Valve



Specifications
Sizes: 3” - 12”
Bodies: PVC
Seats: EPDM, FKM
Options: SWP-8 (Stainless Steel) Spring, ETFE Coated

Fast Packs - Valve/Actuator Packages

- Eight different styles
- Ships within **24 hours** from time of order
- Electric or pneumatic actuators
- Ball or butterfly valve





Globe Control Valve



Specifications
Sizes: 1/2” - 4”
Materials: PVC, PP, PVDF & PTFE
Model: Flanged (ANSI)
Stem Seal: PTFE bellows
Valve Seal: FKM, EPDM, PTFE encapsulated FKM
Flow Curves: Linear or equal percentage
Rangeability: 1:10
Actuator: Electric or Pneumatic
Operators: 3-15 positioner
4-20 positioner

Frank Pressure Regulators/ Pressure Relief Valves



Size: 20mm - 110mm (1/2” - 4”)
Models: Pressure Regulators, Back Pressure Regulators, Relief Valves
Materials: PVC, PP, PPn, PVDF, ECTFE

ASAHI/AMERICA®

Series 94 Electric Actuator

Specifications
Torque: 150, 300 in/lbs.
Voltage: 120VAC
Enclosure: Type 4X
Conduit: 2 x 1/2 NPT
Manual Override: Declutching

Options:
Voltages, Auxiliary Contacts, Heater, Postioners, Transmitter



Local/Remote Station

Used in conjunction with Series 92, Series 94 or Series 10 electric actuators.
Permits actuator operation.

Local or Remote
NEMA Type 4X enclosure
Open/Close selector
Switch and indicator lights
120VAC.



UL-508 LISTED

Series 92 Electric Actuator

Specifications
Torque:400-2000 in/lbs.
Voltage: 120VAC
Enclosure: Type 4X
Conduit: 2 x 1/2 NPT
Manual Override: Declutching

Options:
Voltages, Auxiliary Contacts, Heater, Postioners, Transmitter, Explosion Proof Enclosure



HMI/LRS for Series 92 & 94

- Controls up to four (4) actuators
- Simple push-button operation
- Two-lines - 16-character LCD display
- Type 4X enclosure constructed of fiberglass polyester
- Stainless steel trim
- Captive cover gasket
- Lockable latched cover
- Terminal blocks for inputs
- DPDT relays and sockets for outputs
- Local/remote status contacts
- Indicating LEDs for each actuator (green open/red close)
- 32°F - 122°F temperature range
- Four (4) provisions for 1/2” conduit
- 110 - 230VAC power supply required



UL-508 LISTED
ATEX Exd 11B T4
UL-1203

Series 10 Electric Actuator

Specifications
Torque:1320-26,040 in/lbs.
Voltage: 110VAC
Enclosure: Type 4X/6
Conduit: 2 x 3/4 NPT
Manual Override: Declutching
Auxiliary Contacts: 2- SPDT switches
Heater: 7-10 Watts

Options:
Voltages, Postioners, Transmitter, Explosion Proof Enclosure



Shown with Type-57 butterfly valve

HMI/PLC

Asahi/America's HMI/PLC control system is a custom-designed, built-to-order system that allows you to easily control any number of valves or other process control items using a singular system.



Each system includes a touchscreen monitor or push-button controls, can be programmed quickly via simple ladder logic and is housed in a NEMA 4X enclosure for ultimate safety and security.

ASAHI/AMERICA®

Series 79 Pneumatic Actuator



Specifications
Models: A79P - M79P
Torque: 50 in/lbs. - 44,611 in/lbs.
Action: Single Acting Double Acting
Air Supply: 60 - 120psi
Material: PAG, 316SS, Rilsan Coated Aluminum
Design: Rack and Pinion
Options: Filter Regulator, Solenoids, Limit Switches, Positioners, Declutchable Manual Override

Type-14 Pneumatic Actuator



Specifications
Sizes: 1/2" - 2"
Models: Air-to-Air, Air-to-Spring
Indication: Top visual indication of valve position
Travel Stops: Adjustable stops prevent over-tightening of diaphragm
Bodies: PVC, CPVC, PP and PVDF
Bonnet: PPG

Type-14 PST 101



Specifications
Input Signal: 3-15psi
Supply Air Pressure: 60 to 90psi
Air Consumption: 0.4 CFM at 60psi
Linearity: 2% of Span
Hysteresis: 1% of Span
Repeatability: 0.5% of Span
Air Connections: 1/4" NPT

Type-14 PST A202DN



Specifications
Input Current: 4 to 20mA
Supply Air Pressure: 60 to 90psi
Resolution: 0.2% of Span
Linearity: 0.5% of Span
Hysteresis: 0.5% of Span
Repeatability: 0.3% of Span
Air Connections: 1/4" NPT
Conduit Entry: 1/2" NPT

Series 79 PST 101



Specifications
Input Signal: 3-15psi
Supply Air Pressure: 60 to 100psi
Air Consumption: 0.4 CFM at 60psi
Linearity: 2% of Span
Hysteresis: 1% of Span
Repeatability: 0.5% of Span
Air Connection: 1/4" NPT

Series 79 PST A202DN



Specifications
Input Current: 4 to 20mA
Supply Air Pressure: 60 to 100psi
Resolution: 0.2% of Span
Linearity: 0.5% of Span
Hysteresis: 0.5% of Span
Repeatability: 0.3% of Span
Air Connection: 1/4" NPT
Conduit Entry: 1/2" NPT

ASAHI/AMERICA®

Chem Proline® by Asahi/America (Advanced PE)



Pipe and Fittings
- 20 - 315mm (1/2” - 12”) SDR 11, 150psi

Valves
- Type-21 ball valves: 20 - 110mm (1/2” - 4”)
- Type-57 butterfly valves: 50 - 315mm (1-1/2” - 12”)
- Type-14 diaphragm valves: 20 - 250mm (1/2” - 10”)
- Ball check valves: 20 - 110mm (1/2” - 4”)

Welding
- Butt, socket, electrofusion

NSF-61-G Approved

Certified to NSF/ANSI 61-G

Proline® (PP)



Pipe and Fittings
- 20 - 1200mm (1/2” - 48”) SDR 11, 150psi
- 110 - 1400mm (4” - 55”) SDR 33, 45psi

Valves
- Type-21 ball valves: 20 - 110mm (1/2” - 4”)
- Type-57 butterfly valves: 50 - 1400mm (1-1/2” - 55”)
- Type-14/15/G diaphragm valves: 20 - 200mm (1/2” - 10”)
- Ball check valves: 20 - 110mm (1/2” - 4”)
- Frank series regulating valves: 20 - 110mm (1/2” - 4”)

Welding
- Butt, socket, electrofusion

NSF-61-G Approved

Ultra Proline® (Halar®)



Pipe and Fittings
- 20 - 110mm (1/2” - 4”) SDR 21, 150psi

Valves
- Ball valves: 20 - 32mm (1/2” - 1”)
- T-342 diaphragm valves: 20 - 63mm (1/2” - 2”)
- Frank series regulating valves: 20 - 63mm (1/2” - 2”)

Welding
- Butt

Super Proline® (PVDF)



Pipe and Fittings
- 20 - 315mm (1/2” - 12”) SDR 21, 230psi
- 90 - 400mm (3” - 16”) SDR 33, 150psi

Valves
- Type-21 ball valves: 20 - 110mm (1/2” - 4”)
- Type-57 butterfly valves: 50 - 315mm (1-1/2” - 12”)
- Type-14 diaphragm valves: 20 - 63mm (1/2” - 4”)
- Ball check valves: 20 - 110mm (1/2” - 4”)
- Frank series regulating valves: 20 - 75mm (1/2” - 2-1/2”)

Welding
- Butt, socket

Air-Pro® Compressed Air Piping



Pipe and Fittings
- 20 - 110mm (1/2” - 4”) SDR 7.4, 230psi
- 160 - 315mm (6” - 12”) SDR 11, 160psi

Valves
- Ball valves: 20 - 63mm (1/2” - 2”)

Welding
- Butt, socket, electrofusion

Pro-Vent® Duct System



Materals and Sizes:	**PP**	63mm - 1200mm (2” - 48”)
	PPs	63mm - 1200mm (2” - 48”)
	PPs-el	90mm - 400mm (3” - 16”)
	PE	90mm - 1200mm (3” - 48”)
	PVDF	63mm - 400mm (2” - 16”)

Welding: Hot air or extrusion welding

ASAHI/AMERICA®

Poly-Flo®

Standard Sizes: 1x1-1/2 (32x50mm), 2x3 (63x90mm) and 4x6 (110x160mm)
Materials: Proline® PP-R, Chem Proline® Advanced PE



Welding:
Simultaneous butt fusion

Duo-Pro®

Standard Sizes: 1x3 through 16x20
Materials: Proline® PP-R, Super Proline® PVDF, Ultra Proline® ECTFE



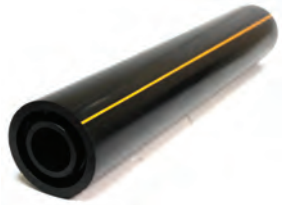
Welding:
Simultaneous or staggered butt fusion

Chem Prolok® by Asahi/America

NSF Certified to NSF/ANSI 61-G

Pro-Lock®

Standard Sizes: 1x3 through 12x16
Materials:
Advanced PE x PE100,
Advanced PE x Advanced PE



Welding:
Simultaneous butt fusion

Standard Sizes: 1/2x2 through 4x8
Materials: PVC, CPVC
Clear PVC also available



Welding:
Simultaneous and staggered solvent cement joint

NSF-61-G Approved

Leak Detection Systems

For underground pressure systems of hazardous chemicals.
Options: Continuous sensing cable, low point sensors, or a combination of components, cable and probes.



PAL-AT™: A continuous leak detection cable system that can also incorporate low point probes.

Liquid Watch™: A flexible, modular low point system based on inline probes.

Fluid-Lok®

Standard Sizes: 1x3 though 24x32
Materials: PE 4710



Welding:
Simultaneous butt fusion

ASAHI/AMERICA®

PURAD® PVDF Piping

Material
- PVDF UHP

Pipe and Fittings
- 20 - 315mm (1/2” - 12”) SDR 21, 230psi
- 90 - 315mm (3” - 12”) SDR 33, 150psi



Valves
- T-342 diaphragm valves: 20 - 110mm (1/2” - 4”)
- T-343 zero dead leg (ZDL) valves: 20 - 160mm (1/2” - 6”)
- Type-21 ball valves: 20 - 110mm (1/2” - 4”)
- Frank series regulators: 20 - 75mm (1/2” - 2-1/2”)

Seals and O-rings
- Diaphragm valves and regulators: PTFE
- Ball valves and unions: FKM (PTFE available)

Welding
- IR/Butt, socket, beadless, electrofusion

POLYPURE® PP Piping

Material
- PP Grey

Pipe and Fittings
- 20 - 110mm (1/2” - 4”) SDR 11, 150psi



Valves
- T-342 diaphragm valves: 20 - 63mm (1/2” - 2”)
- T-343 zero dead leg (ZDL) valves: 20 - 63mm (1/2” - 2”)
- Ball valves: 20 - 63mm (1/2” - 2”)

Seals and O-rings
- Diaphragm valves and regulators: EPDM or PTFE
- Ball valves and unions: FKM (PTFE and EPDM available)

Welding
- IR/Butt, socket, beadless

PP-PURE® PP Piping

Material
- PP Natural

Pipe and Fittings
- 20 - 315mm (1/2” - 12”) SDR 11, 150psi



Valves
- T-342 diaphragm valves: 20 - 110mm (1/2” - 4”)
- T-343 zero dead leg (ZDL) valves: 20 - 63mm (1/2” - 2”)
- Type-21 ball valves: 20 - 110mm (1/2” - 4”)

Seals and O-rings
- Diaphragm valves and regulators: EPDM or PTFE
- Ball valves and unions: FKM (EPDM available)

Welding
- IR/Butt, beadless

PURFLON® PFA Piping

Material
- PFA

Pipe and Fittings
- 20 - 32mm (1/2” - 1”) SDR 21, 150psi



Valves
- 20 - 32mm (1/2” - 1”) SDR21 PFA/PTFE/FKM spigot, flare, S-300

Seals and O-rings
- Diaphragm valves and regulators: PTFE diaphragm. FKM or FFKM non-wetted O-rings

Welding
- IR/Butt, beadless

Dymatrix™ Specialty Valves

Multiport Valves



Size: 1/8” - 1”
Materials: PP, PPn, PVDF, ECTFE, PTFE, PFA
Models: Manual, pneumatic
Options: Electric solenoid, feedback switches
Connections: Flare, S-300, NPT compression, triclamp and others

Diaphragm Valves



Size: 1/4” - 1”
Materials: PFA, PTFE
Models: Manual, pneumatic
Connections: Flare, S-300, NPT, custom

Falconics™ Flow Controller



Size: 1/4” - 1/2”
Models: Electric
Connections: Flare, S-300

Needle Valves



Size: 1/4” - 1/2”
Materials: PFA, PTFE
Models: Manual
Connections: Flare, S-300

Pressure Regulators



Size: 1/4” - 1”
Material: PFA, PTFE
Models: Manual, pneumatic
Connections: Flare, S-300

Pinch Valves



Size: 1/4” - 1”
Models: Manual, pneumatic, electric
Connections: Flare, S-300

EM-Technik Fittings and Valves Compression Fittings



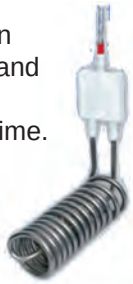
Series 1C and 1+
Size: 1/4” - 3/4”
PP, PFA in stock

Ball Valves



Series 6
Size: 1/8” - 1/2”
PP, PPn, PVDF, PFA
up to 13 port valves available

Polytetra Heaters



Completely encapsulated with corrosion resistant PFA and PTFE, able to withstand the most aggressive chemicals over an extended period of time.

Size: Up to 6 kw single line
Models: Coil, panel, custom bent

Polytetra Heat Exchangers



Polytetra Series are all-thermoplastic, corrosion resistant heat exchangers that are designed and built per customer specification.

Size: Up to 500 sq. ft.
Models: Shell and tube, modular in-tank bundle
Materials: PE, PP, PPn, PVDF, ECTFE, PFA

ASAHI/AMERICA®

COOLSAFE™ Pre-Insulated PE Piping System



COOLSAFE™ piping system provides a cost-effective way for installing insulated piping in a broad range of industries. The system consists of a polyethylene inner layer, polyurethane insulation core and polyethylene outer layer. Onsite labor is dramatically reduced because pipe and fittings are pre-insulated at the factory.

COOLSAFE™ pre-insulated piping system installs easily using conventional butt or electrofusion welding methods. The PE inner by PE outer design allows the system to be simultaneously butt welded, saving installation time and providing a safer installation. Components are molded and insulated to strict tolerances to ensure easy installation and long-term insulation of chilled media. COOLSAFE™ provides thermal conductivity better than 0.026 W/m-K (0.015 Btu-ft/h-ft2-F).

COOLSAFE™ is available in sizes 32mm – 315mm (1”-12”) and is in stock now at Asahi/America. The system comes with a complete fitting range and is supported by Asahi/America’s extensive welding equipment fleet. Asahi Type-21 ball valves and Type-57 butterfly valves control flow in the COOLSAFE™ system.

Pipe and Fittings	Standard sizes up to 315mm (12") Additional sizes available with minimum quantity requirements.
Valves	Type-21 ball valve: 32mm - 110mm (1” - 4”) Materials: PP body with PE end connector Type-57 butterfly valve: 63mm - 315mm (2" - 12") Materials: PP/EPDM
Welding	Butt, electrofusion

Asahitec™ PP-RCT

Plumbing and HVAC Piping Systems



PP-RCT is the latest advancement in polypropylene polymers and has a wide range of benefits for commercial plumbing systems. It has a more complex crystalline structure that provides greater pressure resistance at higher temperatures than conventional PP materials. When utilized in a piping system, these enhanced mechanical properties make it suitable for higher temperature applications such as boiler and hot water systems. They also create lighter and thinner piping while maintaining the necessary system pressure ratings. PP-RCT can also be extruded in a multilayer pipe with an inner Fibercore™ layer. This core reduces the impact of thermal expansion on the piping system.

Asahi/America offers a full range of PP-RCT commercial plumbing products. Climatec™ piping provides unmatched durability for HVAC distribution piping. Watertec™ piping is the ideal solution for hot and cold potable water systems. All fittings are made from PP-RCT resin and are available in socket fusion from 20-125mm (1/2” – 4-1/2”) and molded butt fusion from 160-630mm (6” – 24”). We offer a complete range of adapter fittings for metal and PEX plumbing constructed of lead-free brass.The piping systems are offered with our leading quality Asahi valves and welding equipment. Our PP-RCT pipe and fittings are NSF 14-pw certified for potable water applications.

Pipe and Fittings	Socket fusion 20-125mm (1/2’ - 4-1/2”) Molded butt fusion 160-630mm (6”- 24”)
Valves	Type-21 ball valve: 20 - 110mm (1/2” - 4”) Materials: PP /EPDM body with PP-RCT end connectors Type-57 butterfly valve: 50 - 500mm (1-1/2” - 16”) Materials: PP/EPDM Type-14 True union diaphragm valve: 20 - 63mm (1/2”-2”) Materials: PP/EPDM
Welding	Butt, socket, electrofusion

ASAHI/AMERICA®

Asahi/America's fleet of welding equipment is available to rent or to purchase in a variety of models chosen to meet the needs of field or shop welding professionals. **We offer private or group training classes.**

Shop Welding - Butt Fusion

Shop 4 - Miniplast®



Butt Fusion
- 20 - 110mm (1/2" - 4")*

Materials: PE, PP, PVDF

Shop 6 - Maxiplast®



Butt Fusion
- 50 - 160mm (1-1/2" - 6")*

Materials: PE, PP, PVDF

Shop 12



Butt Fusion
- 50 - 315mm (1-1/2" - 12")*

Materials: PE, PP, PVDF

*Sizes shown for manual machines, does not indicate weldabilty of all machines. Consult welding machine catalog.

Shop Welding - Socket Fusion

Bench Socket



Socket Fusion
- 20 - 110mm (1/2" - 4")

Materials: PE, PP, PVDF

Hand Held Socket Welder



Socket Fusion
- 20 - 63mm (1/2" - 2")

Materials: PE, PP, PVDF

Field Welding - Butt Fusion

Field 6



Butt Fusion
- 50 - 160mm (1-1/2" - 6")

Materials: PE, PP, PVDF

Field 12



Butt Fusion
- 90 - 315mm (3" - 12")

Materials: PE, PP, PVDF

Field 20



Butt Fusion
- 200 - 500mm (8" - 20")

Materials: PE, PP, PVDF

SP Series Tools

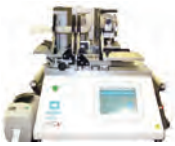
SP 63-S Mobile



IR Fusion
- 20 - 63mm (1/2" - 2")

Materials: PE, PP, PVDF

SP 110-S



IR Fusion
- 20 - 110mm (1/2" - 4")

Materials: PE, PP, PVDF

SP 110-B



Beadless Fusion
- 20 - 110mm (1/2" - 4")

Materials: PE, PP, PVDF

SP 250-S



IR Fusion
- 110 - 250mm (4" - 10")

Materials: PE, PP, PVDF

SP 315-S



IR Fusion
- 110 - 315mm (4" - 12")

Materials: PE, PP, PVDF

EF 110-B



Beadless Electrofusion
- 20 - 63mm (1/2" - 2")

Materials: PVDF

Hot Air Welding

Hot Air Welder



Hot Air
- 3 - 4mm

Materials: PFA, PVC, PE, PP, PVDF, ECTFE, PPs, PPs-El

Extrusion Welder



Extrusion
- 3 - 5mm (1/8" - 3/16")

Materials: PP, PPs, PPs-El, PE, PVDF

ASAHI/AMERICA®

Another Corrosion Problem Solved.™



Tel: 800-343-3618; 781-321-5409
Direct Sales: East (800) 232-7244
Central (800) 442-7244
West (800) 282-7244

Fax: 800-787-6861
www.asahi-america.com
asahi@asahi-america.com