

Thermoplastic Valves and Piping Systems



Thermoplastic Valves & Actuators - Industrial & Environmental Piping Systems
High Purity Piping Systems - Wet Process Solutions - Welding Equipment

Another
Corrosion
Problem
Solved.™



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 Organic Chemical Industry Co., Ltd. (AOC) 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 specialty components throughout the US and Latin America.

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 ORGANIC CHEMICALS INDUSTRY CO.,LTD.



Worldwide Competence
in Plastics



Plastics, Purity, Performance, Problem Solved.

Asahi/America is a diversified ISO9001:2008 certified manufacturer and supplier of corrosion resistant fluid flow products. Headquartered in Malden, Massachusetts, where we operate a 100,000 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 poised 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. 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.





Plastics

Plastics - Valves & Actuators

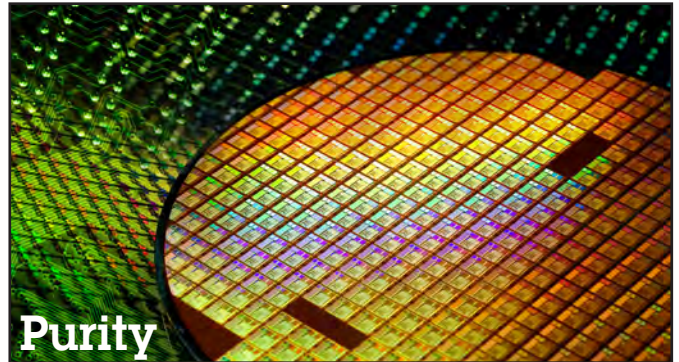
Asahi/America's valve and actuation products have been used in the field for over four decades.

We feature a full complement of thermoplastic valves including ball, butterfly, diaphragm, globe, gate and ball 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.

Purity - High Purity & 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) and PP-Pure® (pigmented PP) pipe, valves and fittings, Dymatrix™ specialty valves, and EM Technik™ fittings and tubes. We also offer Polytetra heat exchangers and heaters, a full fleet of welding equipment and feature extensive cleanroom fabrication capabilities.



Purity



Performance

Performance - Environments & Industrial Piping

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

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



Problem Solved



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)

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)

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)

Electromni® Ball Valve

Specifications

Sizes: 3/8" - 2"

Models: Socket and Threaded

Voltages: 120/220 VAC

12/24 VAC/VDC

Enclosure: NEMA 4X

Valves: Omni

Type-21 Ball Valve

Type-23 Multiport



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-14 Diaphragm Valve

Specifications

Sizes: 1/2" - 2" - True Union

1/2" - 10" - Flanged

Body: PVC, CPVC, PP and PVDF

Bonnet: PVC, PP, PPG and PVDF

End Connectors: PVC,

CPVC, IPS Socket or

Threaded PP, PVDF, IPS

& Metric (DIN) Socket,

Threaded, Butt, Flanged

Diaphragms: EPDM, 3-Layer PTFE, Nitrile & FKM



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



Gate Valve

Specifications

Sizes: 1-1/2" - 14"

Body: HI-PVC

Models: Flanged (ANSI)

Types/Sizes: (non-rising stem)

1-1/2" - 8"

Seals: EPDM, FKM (optional)

NSF-61 Approved

(1-1/2" - 14" PVC/PP/EPDM/FKM)



Type-57 Butterfly Valve

Specifications

Sizes: Lever 1-1/2" - 8"

Gear: 8" - 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: 403 and 316 SS, Titanium, Hastelloy®



NSF-61 Approved

(1-1/2" - 14" PVC/PP/EPDM)

Type-57IL Butterfly Valve

Specifications

Sizes: Lever 3" - 8"

Gear 8" - 12"

Models: Lug Style

Operators: Lever and Gear

Bodies: PVC

Discs: PVC, CPVC, PP & PVDF

Seats and Seals: EPDM, FKM or Nitrile

Stems: 316 SS, Titanium, Hastelloy®

Lugs: 304 SS or 316 SS



Type-57LIS Butterfly Valve

Specifications

Sizes: 3" - 8"

Models: Wafer or Lug Style

Operators: Lever and Gear

Bodies: PVC

Discs: PVC, CPVC, PP & PVDF

Seats and Seals: EPDM, FKM or Nitrile

Stems: 316 SS, Titanium, Hastelloy®

Lugs: 316 SS



Type-75 Butterfly Valve

Specifications

Sizes: 18" - 24"

Models: Wafer Style/Machined Lug Style

Operators: Gear

Bodies: PP and PVDF

Discs: PP and PVDF

Seats and Seals: EPDM, FKM or Nitrile

Stems: 403 SS, 316 SS, Titanium, Hastelloy®

Lugs: 304 SS or 316 SS



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/SS Springs



NSF-61 Approved

(1/2" - 2" PVC/EPDM/FKM)

Swing Check Valve

Specifications

Sizes: 3/4" - 8"

Models: Flanged (ANSI)

Bodies: HI PVC, PP and PVDF

Seats: EPDM, FKM, PTFE

Options: Lever & Weight/SS Spring



Wafer Check Valve

Specifications

Sizes: 10" and 12"

Bodies: PVC

Seats: EPDM, FKM

Options: SWP-8 (SS) Spring
E-CTFE
Coated



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 E-CTFE Coating



Thermoplastic Valves Options

Options available for Asahi/America Ball, Butterfly, Diaphragm & Gate Valves

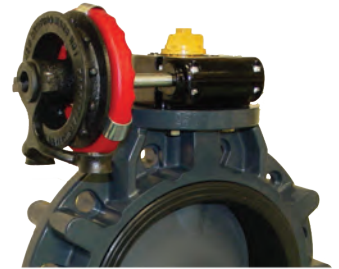
Plasgear™ - Plastic Gear

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, or can be supplied without the valve.



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 -To prevent unauthorized operation, the valve handle can be padlocked in the open or closed position.



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: 1:50 for 1/2"-3", 1:30 for 4"



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)



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")



Series 94 Electric Actuator

Specifications

Torque: 150, 300 in/lbs.
Voltage: 230/115/12/24 VAC
 12/24 VDC
Action: Quarter-turn
Indicator: Visual indication
 of valve position.
 Limit switch contacts for
 light indication.
 Declutchable manual override.



NEMA 4X enclosure. 5 second cycle time.

UL-508 LISTED

Series 92 Electric Actuator

Specifications

Torque: 400, 700, 1100, 2000 in/lbs.
Voltages: 230/115/24/12 VAC,
 24/12 VDC
Action: Quarter-turn
Indicator: Visual beacon
 indication of valve position.
 Limit switch contacts for light
 indication. Declutchable manual
 override.



NEMA 4X/7 enclosure. 10 second cycle time (400 & 700)
 25 second cycle time (1100 & 2000)

UL-508 LISTED

ATEX Directive 94/9EC

Series 10 Electric Actuator

Specifications

Torque: 1320-10, 440 in/lbs.
Voltages: 120 VAC 1Ph 50/60Hz,
Options: Positioner, Transmitter,
 Two-wire control, Voltages: 230/1,
 380/3, 460/3. 24 VDC, ATEX
 Enclosure, NEMA 7 Enclosure,
 Local Remote Station



Series 79 Pneumatic Actuator

Specifications

Size: 1/2" - 24"
Torque: 50 in/lbs. to
 44611 in/lbs.
Models: Air-to-Air,
 Air-to-Spring
Bodies: Glass filled polyamide, aluminum, 316 SS
Construction: Double piston, double rack/pinion
Indicator: Visual position indicator
Options: Positioners, Solenoids, Limit Switches,
 De-clutchable Gearbox Manual Overrides, Travel
 Stops



Type-14 Pneumatic

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 & PVDF
Bonnet: PPG



Local/Remote Station

Used in conjunction with
 Series 92 or Series 94
 Electric Actuators.
 Permits actuator operation.

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



Dymatrix™ Specialty Valves

Multiport Valves

Size: 1/8" - 1"

Models: Manual, Pneumatic

Options: Electric Solenoid, Feedback Switches

Connections: Flare, S-300, NPT Compression, Triclamp and others



Diaphragm Valves

Size: 1/4" - 1"

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"

Models: Manual, Pneumatic

Connections: Flare, S-300



Pressure Regulators

Size: 1/4" - 1"

Models: Manual, Pneumatic

Connections: Flare, S-300



Pinch Valves

Size: 1/4" - 1"

Models: Manual, Pneumatic, Electric

Connections: Flare, S-300



EM Technik™ Fittings & Valves

Compression Fittings

Series 1C

Size: 1/4" - 3/4"

PFA in stock



Ball Valves

Series 6

Size: 1/8" - 1/2"

PP, PPn, PVDF, PFA
up to 13 port valves
available



Inline Gas Filters

Series 7

Size: 1/4" - 1/2"

5 micron - 100 micron



The Wet Process People™



Purad® (Ultra High Purity PVDF)

Supply Range

Pipe and Fittings

- 20 - 315mm (1/2" - 12")
SDR 21 / PN 16 / 230 psi
- 90 - 315mm (3" - 12")
SDR 33 / PN 10 / 150 psi



Valves

- T-342 Diaphragm Valves: 20 - 110mm (1/2" - 4")
- T-343 Zero Dead Leg (ZDL) Valve: 20 - 110mm (1/2" - 4")
Over 49 different sizes and configurations
- T-21 Ball Valves: 20 - 110mm (1/2" - 4")
- Frank Series Regulating Valves: 20 - 75mm (1/2" - 2-1/2")

Welding

- IR/Butt, Socket, Beadless, Electrofusion

PolyPure® (Natural PP)

Supply Range

Pipe and Fittings

- 20 - 110mm (1/2" - 4")
SDR 11 / PN 10 / 150 psi



Valves

- T-342 Diaphragm Valves: 20 - 63mm (1/2" - 2")
- T-343 Zero Dead Leg (ZDL) Valve: 20 - 63mm (1/2" - 2")
- Ball Valves: 20 - 63mm (1/2" - 2")
- 3" and 4" Valves: Only available in PP

Welding

- IR/Butt, Socket, Beadless

PP-Pure® (Pigmented PP)

Supply Range

Pipe and Fittings

- 20 - 315mm (1/2" - 12")
SDR 11 / PN 10 / 150 psi



Valves

- T-342 Diaphragm Valves: 20 - 110mm (1/2" - 4")
- T-343 Zero Dead Leg (ZDL) Valve: 20 - 63mm (1/2" - 2")
- T-21 Ball Valves: 20 - 110mm (1/2" - 4")

Welding

- IR/Butt, Beadless

Frank Pressure Regulators

Size: 20 - 110mm (1/2" - 4")

Models: Pressure Regulators, Back Pressure, Relief Valves

Materials: PVC, PP, PPn, PVDF, E-CTFE



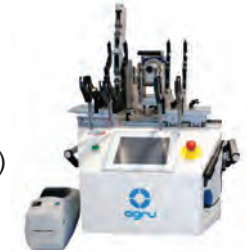
Welding Equipment

The SP Series of automated fusion equipment



SP 110-S IR Fusion

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



SP 110-B Beadless Fusion

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



SP 250-S IR Fusion

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



SP 315-S IR Fusion

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

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 & Tube, Modular in Tank Bundle
Materials: PE, PP, PPn, PVDF, E-CTFE, PFA

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 Bend





(PE)

Supply Range
Pipe and Fittings

- 50 - 315mm (1/2" - 12")
SDR11, 150 psi



Valves

- T-21 Ball Valves: 20 - 63mm (1/2" - 2")
- T-57 Butterfly Valves: 50 - 315mm (1-1/2" - 12")
- T-14 Diaphragm Valves: 20 - 63mm (1/2" - 2")
- Ball Check Valves: 20 - 63mm (1/2" - 2")

Welding

- Butt, Socket, Electrofusion

Proline® (PP)

Supply Range
Pipe and Fittings

- 20 - 1200mm (1/2" - 48")
SDR11, 150psi
- 110 - 1400mm (4" - 55")
SDR33, 45psi



Valves

- T-21 Ball Valves: 20 - 110mm (1/2" - 4")
- T-57 Butterfly Valves: 50 - 1400mm (1-1/2" - 55")
- T-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

Ultra Proline® (Halar®)

Supply Range
Pipe and Fittings

- 20 - 50mm (1/2" - 1-1/2")
SDR21, 150psi
- 63-110mm (2" - 4")
SDR21, 120psi



Valves

- T-21 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)

Supply Range
Pipe and Fittings

- 20 - 315mm (1/2" - 12")
SDR21, 230 psi
- 90 - 400mm (3" - 16")
SDR33, 150 psi



Valves

- T-21 Ball Valves: 20 - 110mm (1/2" - 4")
- T-57 Butterfly Valves: 50 - 315mm (1-1/2" - 12")
- T-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

Supply Range
Pipe and Fittings

- 20 - 110mm (1/2" - 4")
SDR 7.4 / 230 psi
- 160 - 315mm (6" - 12")
SDR 11 / 160 psi



Valves

- Ball Valves: 20 - 90mm (1/2" - 3")

Welding

- Butt, Socket, Electrofusion



Duo-Pro®

Supply Range

- 1x3 through 16x20

Materials: Polypropylene, PVDF, & E-CTFE (Halar®)

Welding

- Simultaneous or Staggered Butt



Poly-Flo®

Supply Range

- 1x2, 2x3, or 4x6

Materials: Black Polypropylene & HDPE

Welding

- Simultaneous or Staggered Butt



Pro-Lock®

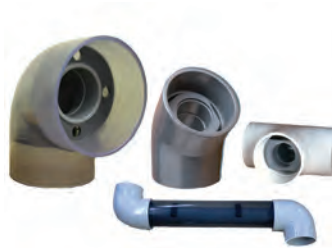
Supply Range

- 1/2x2 through 4x8

Materials: PVC & CPVC

Assembly

- Simultaneous or Staggered Glue



Fluid-Lok®

Supply Range

- 1x3 through 18x24

Materials: HDPE

Welding

- Simultaneous or Staggered Butt



Welding Equipment

ProWeld welding equipment offers the latest innovations in reliable thermoplastic fusion technology.



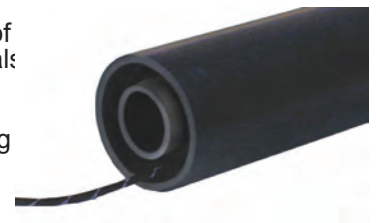
Models: Shop (manual), Field (hydraulic), Socket (both hand and bench styles), Electrofusion, Hot Air and Extrusion Welders.

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.



Another Corrosion Problem Solved.TM



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