



Aquarium Solutions

Who we are:

Asahi/America is a trusted leader in corrosion-resistant fluid handling solutions for aquariums, zoos, and aquatic animal life support systems. In environments where water quality, habitat stability, and uninterrupted operation are essential to animal health and exhibit success, facilities rely on proven products engineered for long-term performance and reliability. For more than 30 years, aquarium and zoo professionals have specified Asahi/America valves, actuation, and piping systems to support critical water treatment and life support applications. The continued confidence of operators, engineers, and aquatic life support specialists reflects our commitment to quality, system integrity, and dependable performance in the industry's most demanding applications.





Why choose Asahi/America?

For more than 50 years, Asahi/America has delivered corrosion-resistant thermoplastic valves, actuation, and piping systems engineered for demanding aquatic and industrial applications. Our comprehensive valve portfolio includes ball, butterfly, diaphragm, globe, gate, and check valves designed to provide precise flow control, long service life, and dependable operation in aquatic animal life support and water treatment systems. Pneumatic and electric actuation packages are available factory-mounted, tested, and ready for seamless integration into automated process control systems.

Asahi/America also offers a complete range of thermoplastic piping systems engineered to withstand aggressive water chemistries, saltwater environments, and continuous-duty operations commonly found in aquarium and zoo facilities. Designed for superior corrosion resistance, low maintenance, and operational efficiency, our systems support critical applications including filtration, ozone and chemical feed, reverse osmosis, desalination, temperature control, and aquatic habitat life support.

Whether retrofitting an existing exhibit, expanding a life support system, or designing a new aquatic facility from the ground up, Asahi/America provides a fully integrated, single-source solution for valves, actuation, piping, and fittings engineered to work together as one complete system. Our applications expertise, technical support, fabrication capabilities, and hands-on training help simplify installation, improve long-term reliability, and support facility operators from concept through commissioning and ongoing operation.



Type-21a SST Ball Valve

The Type-21a SST PVC flow control ball valve provides a more linear flow pattern than full bore ball valves. Metered handle plate attachment allows for easy visualization of open percent and easy repeatability of flow conditions.

Specifications

Size:
1/2" - 2"

Body Materials:
PVC, CPVC

Seat Material:
PTFE

Seal Material:
EPDM

Body Type:
True Union

Pressure Rating:
Up to 230 psi



Labcocks®

Quarter-turn manual ball valve used for process control monitoring and fluid sampling in the laboratory. Seven end connection configurations accommodate most piping/hose connections.

Specifications

Sizes:
1/4"

Body Type:

- Male Thread x Hose (ID 3/8")
- Male Thread x Female Thread
- Hose x Hose
- Male Thread x Male Thread
- Female Thread x Female Thread
- Male Thread x Elbow (OD .63")
- Female Thread x Hose

*Size 1/4" PVC/EPDM Models NSF-61 Certified

Body Material:
PVC

Seat & Seal Material:
EPDM

Colored Type-21 Handles

Easy replacement handles to identify and organize valves in accordance with AZA system identification standards.

Specifications

Size:
1/2" - 4"



Type-57 LIS Butterfly Valve

The Type-57 LIS butterfly valve conforms to ISO 5752 short-pattern face-to-face dimensions. This allows the Type-57 LIS to directly replace metal valves conforming to the same standard. Available as ANSI B16.5 wafer or ANSI B16.5 lug models with 316 stainless steel drop-in lug inserts.

Specifications

Sizes:

Lever: 3" - 8"

Gear: 3" - 8"

Body Material:
PVC

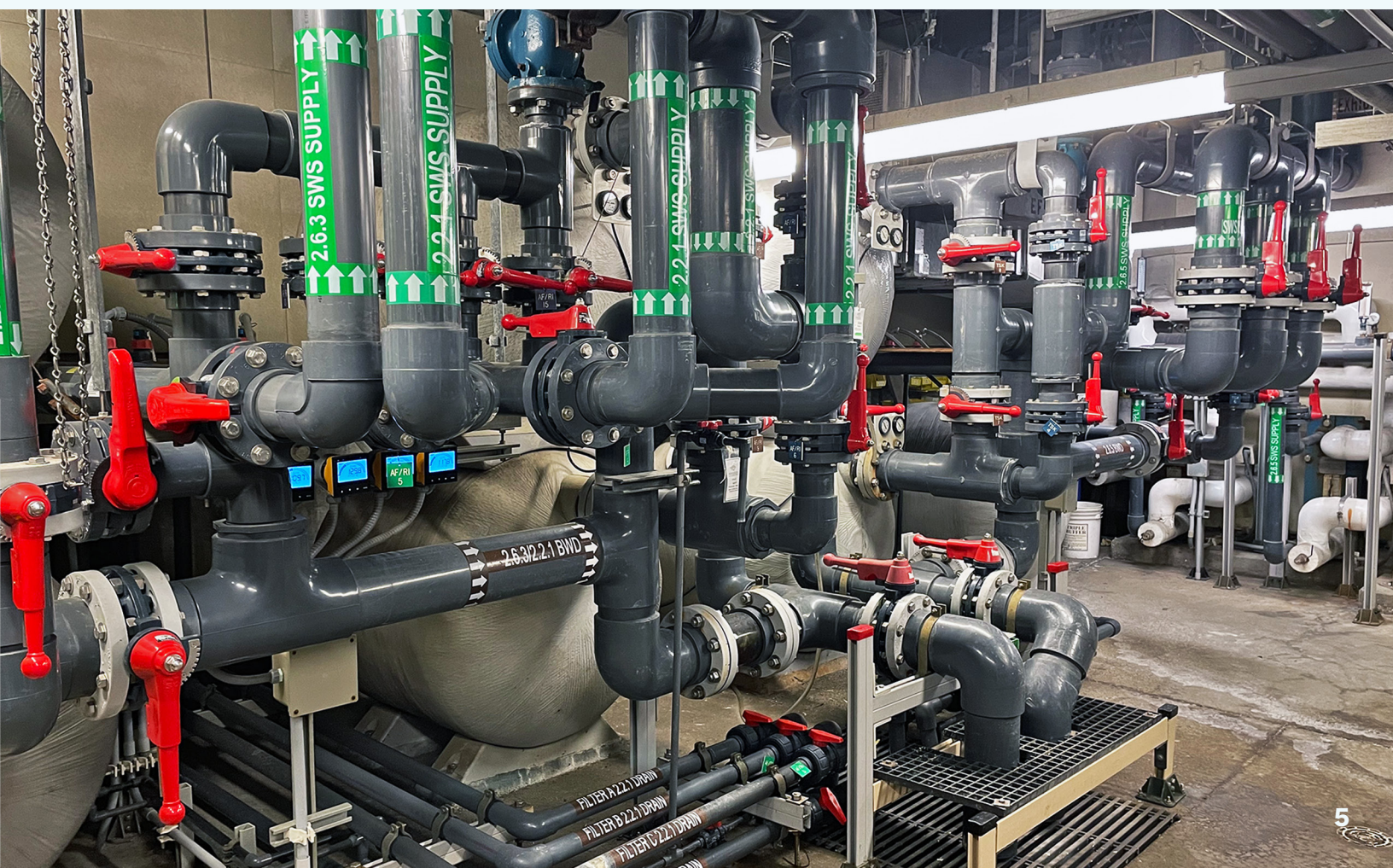
Seat & Seal Material:
EPDM

Body Type:
Wafer or 316 SS lug

Manual Operators:
Lever or Plasgear®

Disc Materials:
PVC, CPVC, PP, or PVDF

Stem Material:
316 SS, or Titanium





Ball Check & Foot Valve

A ball check valve with a foot screen can be installed vertically or horizontally on the suction side of a pump. The foot valve is an optional attachment for a ball check valve where a screen is fitted on the inlet end of an existing ball check valve. This screen is used to filter large debris and solids from a fluid to prevent damage to downstream pumps, valves, and instrumentation.

Specifications

Sizes:
True Union: 1/2" - 2"
Single Union: 3" - 4"

Body Material:
PVC

Seat & Seal Materials:
EPDM and PTFE



Swing Check Flanged Valve

Swing check valves have a removable bonnet that allows for easy cleaning and maintenance. Available with an external lever and weight or spring assist mechanism to assist in closing the valve quicker to reduce water hammer and system vibrations.

Specifications

Sizes:
3/4" - 8"

Bodies:
Hi-PVC*

Seat & Seal Materials:
EPDM, PTFE

*High-impact PVC: specially designed plastic with synthetic modifiers to boost shock absorption characteristics and increase expected



Series 19 Actuator

A compact and lightweight quarter turn actuator available in four torque ranges, covering all quarter turn valves up to 10". OLED screen allows for non-intrusive end position and setting adjustments. Available with failsafe capacitors able to operate valves to any position in the event of a power outage. Compatible with motor jogging control systems and analog control input modulating systems.

Specifications

Torque Options (IN-LBS):
177, 442, 973, or 3540

Voltage Options:
95-265VAC, or 24VAC/VDC

Control Options:
On/Off, On/Off Failsafe, Modulating,
Modulating Failsafe, or Jogging Control.



J-Switch®

J-Series manual ball valve limit switches (J-Switch®) are compatible with Asahi/America's Type-21/21a ball valves and Type-23 Multiport™ ball valves. Compact IP67 limit switch for remote position indication of manual valves via 2-SPDT inductive switches.

Specifications

Temperature Limit:
150° F

Fasteners:
304 stainless steel

Electrical Connection:
Cable gland w/ 2M flying leads

Voltages:
0.5A @ 180 VAC/VDC Max

Enclosure Rating:
NEMA 4X



A large salt water aquarium located in the United States utilized nearly 2,000 valves in applications ranging from filtration to life support salt water makeup resulting in a facility that runs 24/7 with total peace of mind for operators and maximum enjoyment for visitors





Valve Extensions

Stem extensions are designed for manually operating valves located in difficult-to-access locations. Extensions available with and without protective outer housing, support collars, and wall plates.

Specifications

Valves:

Ball valve, butterfly valve, gate valve

Inner Stem Materials:

Powder coated CS, or 316 SS

Outer Stem Materials:

PVC, Powder coated CS, or 316 SS

Wall Support Materials:

Powder coated CS, or 316 SS

Handle Styles:

Lever, Gear (Butterfly only), or square nut



Y-Strainer with Drain

Sediment strainers protect system instruments such as pumps and meters by removing suspended solids and impurities. Transparent thermoplastic construction permits easy detection of the screen's condition. Also available with drain kit attachment to flush out accumulated solids from the added strainer port.

Specifications

Sizes:

1/2" - 4"

Body Material:

PVC

Seal Material:

EPDM

NSF-61 Certified

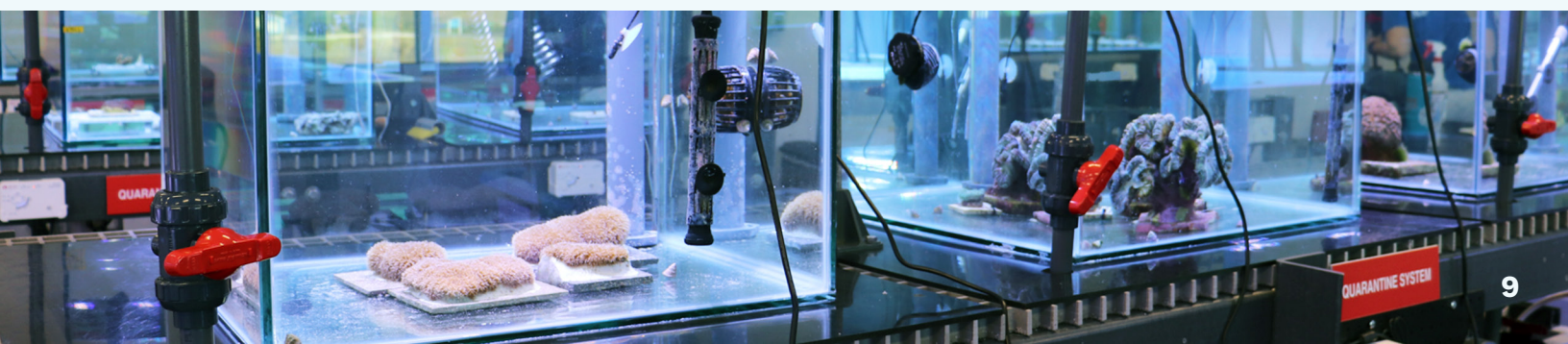
Body Type:

True Union

Mesh Sizes:

PVC Screens: 20 (standard), 30, and 40 mesh

SS Screens: 20, 40, and 60 mesh





ECTFE Piping

ECTFE has excellent chemical and temperature resistance; ECTFE piping systems are highly versatile and suitable for the harshest applications, including O-zone. ECTFE uses thermally fused joints, which have the highest integrity over all other joining methods.

Specifications

Pipe and Fittings:
20 - 160mm (1/2" - 6") SDR 21 / 150psi



AV Gaskets

Asahi valve gaskets offer a unique double convex ring design that gives optimum sealing with only 1/3 the torque commonly required with flat faced gaskets.

Specifications

Sizes:
1/2" - 12"

Seal Materials:
EPDM, PVDF-bonded EPDM,
PTFE-bonded EPDM

Bolt Patterns:
ANSI 150#

Air-Pro® Piping

Air-Pro® is the only PE piping system approved for use and warranted by the manufacturer for compressed air applications. Air-Pro® meets CAL-OSHA requirements for compressed air. Air-Pro's® specially formulated PE resins are resistant to both synthetic and mineral compressor oils.

Specifications

Pipes & Pipe Fittings:
20 - 110mm (1/2" - 4") SDR 7.4 / 230psi
160 - 315mm (6" - 12") SDR 11 / 150psi





Asahi/America valves, actuators, and piping solutions are installed worldwide in critical aquarium systems. Our solutions are designed to perform in difficult environments while providing lasting value

Custom Fabrication Solutions - From Concept to Completion

The moment your solution to a problem becomes an idea, Asahi/America is with you every step of the way. From concept and design to fabrication, installation, and start-up, our team works alongside you to ensure your project is completed successfully.

With two custom fabrication shops located in the United States, we can handle virtually all of your plastic fabrication needs. From custom suction and discharge headers, manifolds, skids, chambers, valve spacers, and wet boxes to completely engineered, one-of-a-kind systems, if you can dream it, we can build it.

Our fabrication capabilities support applications involving water, chemicals, compressed air, and gas. Every project is built to deliver reliable, high-quality performance while meeting the unique requirements of your operation.





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Headquartered in Lawrence, Massachusetts, Asahi/America maintains a vast inventory of valves, actuation, pipe and fittings, which can be shipped directly to customers or incorporated into custom spools and skids by our fabrication department. Our 200,000-square-foot facility houses a machine shop, valve and actuation assembly shops, a Class 1000 cleanroom, research and development lab, welding equipment, and offices. Our Louisiana-based fabrication division specializes in large-quantity and large-scale custom pieces.

Through our global partnerships with Asahi Yukizai Corporation and AGRU, we are uniquely positioned to deliver the highest quality products to customers in the United States, Latin America, Canada, The United Kingdom, and Australia.

Asahi/America doesn't specialize in one industry – we specialize in your industry. With a catalog of products designed to handle specific applications, meet industry standards, exceed performance expectations, and a staff to support you through product and material recommendations and selection, training and installation, Asahi/America is the obvious partner for your next project.

