

Valves for Water and Wastewater



Pump Control Valves

There is a wide range of GA Industries pump control valves to suit every pumping application. Our engineers work closely with designers to select the right valve to control pressure surges associated with pump starting and stopping, minimize headloss while pumping and prevent reverse flow when the pump is off-line.



AWWA C507 Resilient Seated Ball Valves

- Control surge associated with water or sewage pump operation
- Virtually zero headloss
- Resilient seat is easily field replaceable through side access port
- 6" to 36" Pressure Classes 150, 250, 300
- Hydraulic, pneumatic or electric motor actuation



AWWA C507 Metal Seated Ball Valves

- Pump control or isolation service on water or sewage
- 6" to 36" Pressure Classes 150, 250, 300
- Stainless steel to Monel seating
- Virtually zero headloss
- Hydraulic, pneumatic, electric motor or manual operation



Rotovolve® Cone Valve

- Pump control, isolation or throttling service on water or sewage
- Unique lift, rotate, seat operation
- Tough Monel to Monel seats fused onto body and plug
- 6" to 48" Class 125 or 250 flanged
- Virtually zero headloss
- Hydraulic, pneumatic or electric motor operation



CHECKtronic® Pump Control Valves

- Control surge associated with sewage or water pump operation
- Electric motor actuation with integral check feature, no hydraulic controls
- Very low headloss design
- Iron body, 316SS trim, resilient seat
- 3" to 24" Class 125 and 250 flanged wye (in-line) or angle body



Electric Check Pump Control Valves

- Controls surges associated with water pump operation
- Ideal when throttling is required
- Self-contained, pilot-operated, uses line pressure for operation
- Full-ported, bronze v-port trim
- 3" to 36" Class 125 and 250 flanged globe or angle body



Pump Director Prewired Control Panel

- Functions with any GA Industries pump control valve
- Controls normal pump start and shutdown sequence, recognizes faults and initiates emergency shutdown protocol and provides diagnostics
- Simplifies installation, ensures proper operation
- NEMA 4X enclosure, PLC-based, LCD touchscreen

Engineered Check Valves

GA Industries Engineered Check Valves are designed to accommodate applications that are outside the scope of AWWA Standard C508. They operate quietly in water and sewage pumping stations where rapid flow reversal would otherwise result in slam and system shock.



Cushioned Swing Check Valves

- Non-slam operation on water and sewage pumps
- Exceeds AWWA C508 requirements
- 3" to 48" ANSI Class 125 or 250 flanged
- Iron body, 316SS seat, replaceable rubber disc seat, stainless steel hinge shaft
- Side-mounted bronze cushion chamber
- Horizontal or vertical installation
- Single and double-increasing sizes available



Tilting Disc Check Valves

- Provides minimal flow resistance for smooth passage of water with non-slam operation
- Iron body with bronze trim
- Metal-to-metal seated
- Optional bottom buffer or top mounted hydraulic dashpot
- 6" to 36" Class 125 and 250 flanged
- Additional options available



Oil-Controlled Closing Swing Check Valves

- Extra heavy-duty swing check valve
- Free opening, adjustable two-stage closure
- Final closing speed controlled by hydraulic system to minimize pump shutdown pressure surge
- 3" to 24" ANSI Class 125 flanged
- Iron body, 316SS seat, replaceable rubber disc seat, stainless steel hinge shaft

Surge Relief Valves

Surge Relief Valves protect systems from excessive pressure caused by a sudden stoppage of pumping or valve closure. They open quickly and as far as necessary to discharge fluid at the rate needed to limit a further rise in pressure then slowly close when the pressure subsides. Our factory engineers can assist to select the proper relief valve to accommodate the operating conditions.



Pilot-Operated Surge Relief Valves for Water

- Protects system from excessive pressure due to stoppage of pumping
- Self-contained, uses line pressure for operation
- Differential piston or diaphragm operated
- Angle or globe, pressures to 400 PSI
- 1 1/4" to 3" NPT, 2" to 36" Class 125 or 250 flanged



Surge Relief Valves for Sewage and Wastewater

- Specifically designed to accommodate raw sewage and other solids-bearing fluids without clogging
- Direct-acting, spring loaded
- 316SS trim with tough resilient seat
- Quick opening, slow closing
- 2" to 16" Class 125 flanged wye (in-line) or angle body



Weight Loaded Surge Relief Valves for Sewage, Sludge and Water

- Accommodates high-solids content fluids ideal to protect progressive cavity pumps
- 2" to 12" ANSI Class 125 flanged globe body
- Opens fully with little rise in pressure
- Side mounted hydraulic system provides adjustable closing speed

Surge Sentinel® Anticipator Valve

The GA Industries Surge Sentinel® not only operates as a relief valve by opening upon high pressure surge but also provides enhanced protection by immediately responding to a power or pump failure and fully opening “in anticipation” of the high pressure surge that follows. The valve slowly closes after the returning surge wave has been dissipated.

- Electronically controlled, doesn't rely on hydraulic pilots to anticipate surge
- Intuitive touchscreen displays settings, pump and valve status, FAQs
- Selectable dual operating modes, last pump off and timer settings
- Test mode allows routine testing for reliability
- 2" to 24", angle or globe, Class 125 or 250 flanged, piston or diaphragm operated main valve



Pilot-Operated Water Control Valves

Rugged and dependable, GA Industries automatic control valves are available in both differential piston and diaphragm operated designs, globe and angle body, and a wide range of control configurations for up to 400 PSI working pressure. The classic V-port differential piston control valve is available in 3" to 36" sizes. The Series 5000 diaphragm actuated valve is available 1½" to 16" standard port and 3" to 10" reduced port.



Pressure Control Valves

- Maintain pre-set pressure condition as demand varies
- Downstream pressure reducing and upstream pressure sustaining versions
- Can be combined with check and/or solenoid features
- Pilot system can be configured to accommodate any control scenario



Level Control Valves

- Close to prevent overflow in tanks, standpipes or storage reservoirs
- One-way and two-way flow altitude valves
- On/off float operated valves
- Many variations available



Solenoid Control Valves

- Open or close by remote electrical signal
- Fail open or fail closed versions
- Available with check and/or sustaining feature

Emergency Cut-In Valves

- Automatically open at emergency low downstream pressure to introduce a supplemental source of water
- Close when downstream pressure rises to independent higher pressure
- Available with check, sustaining, and/or solenoid features

Check Valves

Check valves have many applications in fluid systems. The most common is the discharge of water or sewage pumps to prevent reverse flow when the pump is off line. We offer a range of GA Industries check valves that meet or exceed AWWA Standard C508 but also several types of “specialty” check valves, all of which are available through our network of distributors.



Swing Check Valves

- Meets AWWA C508
- 3" to 30" Class 125 flanged epoxy coated ductile iron body and cover
- Water or sewage
- Stainless steel trim
- Lever and weight or spring
- Optional air-cushion



Heavy-Duty Swing Check Valves

- Suitable for water or sewage, can be customized to suit application
- Exceeds AWWA C508
- 3" to 24" Class 125 or 250 flanged
- Cast iron body, 316SS trim
- Lever & weight or spring



Increasing Size Swing Check Valves

- Same as Heavy Duty Custom except with expanded outlet
- Especially suited to small sewage pumping stations
- Eliminates increaser fitting, saves space and installation time
- Single-increasing 3" x 4" to 10" x 12"
- Double-increasing 4" x 8" to 8" x 12"



Rubber Flapper Check Valves

- Meets AWWA C508
- Suitable for water or sewage
- 2" to 24" Class 125 flanged ductile iron body
- Spring-assisted Slaminator® version available
- Optional backflow device, visual position indicator and limit switch



Ball Check Valves

- Non-clogging, tight sealing
- Primarily used on discharge of submersible sewage pumps
- Iron body, Buna-N rubber coated ball
- 1¼" to 2" NPT, 3" to 12" Class 125 flanged
- 150 PSI rated



Silent Check Valves

- Clean water only
- Cast iron body with 316SS trim
- Standard rubber seat for drop tight sealing
- 2½" to 12" Class 125 or 250 flanged globe style
- 2" to 10" wafer style

Plug Valves

GA Industries' round port ECO-Centric® Plug Valve fully conforms to AWWA C517 and minimizes energy consumption with a higher Cv value and inherently lower head loss than rectangular port design. Specify the GA ECO-Centric® Plug Valve today to reduce power consumption and save energy costs.



½" to 2½" Eccentric Plug Valves

- Round port for high capacity and low head loss
- Epoxy coated and lined ductile iron body
- Rubber coated ductile iron plug
- NPT ends
- Manual lever operator



3" to 24" Eccentric Plug Valves

- Round port for high capacity and low head loss
- Epoxy coated and lined ductile iron body
- Welded nickel seat
- Rubber coated ductile iron plug
- Class 125 flanged or mechanical joint
- Manual or power actuated
- Accessories available



30" and Larger Rectangular Port Eccentric Plug Valves

- Standard or 100% port area
- Epoxy coated and lined cast iron body
- Welded nickel seat
- Rubber coated ductile iron plug
- Class 125 flanged or mechanical joint
- Manual or power actuated
- Accessories available

Butterfly Valves

GA Industries AWWA Butterfly Valves are the product of more than a century of engineering excellence, manufacturing expertise and application know-how. The valves are designed to meet or exceed the tough requirements of AWWA Standard C504 and are well suited to withstand demanding applications in water filtration plants, pumping stations and pipelines.



Series 800 3" to 24" Butterfly Valves

- NSF-61 epoxy coated ductile iron body
- Molded and vulcanized rubber seat in body
- Class 150B or 250B rated
- Class 125 flanged or MJ ends
- Manual, electric motor or pneumatic actuation



Series 800 30" to 72" Butterfly Valves

- NSF-61 epoxy coated ductile iron body
- Replaceable rubber seat, mechanically retained in body
- Class 150B or 250B rated
- Class 125 flanged or MJ ends
- Manual, electric motor or pneumatic actuation



StreamSeal® 30" to 72" Butterfly Valves

- Class 150B and 250B rated
- ANSI Class 125 or 250 flanged
- NSF-61 epoxy coated ductile iron body and disc
- Replaceable rubber seat, mechanically retained on the disc
- Manual or automatic actuation
- Accessories available

Air Valves

Automatic air valves are used to maintain pumping efficiency and minimize the effects of trapped air in pressurized fluid systems. GA Industries offers a broad range of air valves for water, sewage, and pump station and pipeline applications in full compliance with AWWA Standard C512 and readily available through our network of distributors.



Air Release Valves

- ½" to 3" NPT pipeline connection
- Cast iron body with 316SS trim
- Up to 300 PSI working pressure
- Available with vacuum check

Air and Vacuum Valves

- Kinetic principle – designed not to blow shut
- ½" to 3" NPT, 3" to 12" flanged connection
- Cast iron body with 316SS trim
- Up to 300 PSI working pressure
- Available with surge check and other accessories

Combination Air Valves

- Kinetic principle – designed not to blow shut
- ½" – 3" NPT, 3" – 12" flanged connection
- Single or dual-body type
- Cast iron body with 316SS trim
- Up to 300 PSI working pressure
- Available with surge check and other accessories



Sewage Air Release, Air and Vacuum, and Combination Air Valves

- 2" to 4" NPT, 4" and 6" Class 125 flanged pipeline connections
- Cast iron body with 316SS trim
- Available with standard elongated or short body
- Up to 150 PSI working pressure

Vacuum Breaking Valves for Water and Sewage

- 2½" to 12" Class 125 flanged
- Up to 200 PSI inlet pressure
- Screened air inlet
- Cast iron body with 316SS trim and rubber seat
- Available with air release valve

Durovent™ All Stainless Steel Air Valves

- NPT Air release, air and vacuum and combination
- 316SS body and trim
- Standard elongated or short body
- Up to 150 PSI working pressure

Your partner for AIS Compliance



Most GA Industries valves already comply with the American Iron and Steel requirements of these federal statutes, and others are available in an AIS compliant version when required.

Consolidated Appropriations Act of 2014

Water Infrastructure Finance and Innovation Act of 2014 (WIFIA)

Section 746 Division A of Title VII of the Consolidated Appropriations Act of 2017

Water and Environmental Program (WEP) of the USDA Rural Utilities Service (RUS)

Most GA Industries valves can also meet federal Buy America and Buy American as well as state requirements for domestic manufacturing.

Available AIS Compliant Valves for Water and Wastewater

- Butterfly Valves
 - Series 800 AWWA C504 Butterfly Valve
- Eccentric Plug Valves
 - 3" to 24" ECO-Centric® Round Port
- Engineered Check Valves
 - Cushioned Swing Check
 - Oil Controlled Closing Swing Check
 - Tilting Disc Check
- Check Valves
 - Lever & Weight or Spring Swing Check
 - Silent Check
- Differential Piston Pilot Operated Control Valves
 - Pressure Reducing
 - Pressure Sustaining
 - Emergency Cut-in
 - Altitude
 - Solenoid Control
- Pump Control Valves
 - AWWA C507 Ball Valves
 - CHECKtronic®
 - Electric Check
 - Differential Piston Pilot-Operated for Water
 - Rotovalve® Cone Valve
- Surge Relief Valves
 - Differential Piston Actuated for Water
 - Spring Loaded for Wastewater or Sewage
 - Weight Loaded for Sludge, Sewage, and Wastewater
- Air Valves
 - Air Release for Water & Sewage
 - Air and Vacuum for Water & Sewage
 - Combination for Water & Sewage
 - Vacuum Breaking Valves for Water & Sewage

GA Industries is a brand of the VAG Group, a renowned manufacturer of water control valves with headquarters in Mannheim, Germany, and an international organization of specialists that includes:

- Engineering & technical design
- Production
- Fabrication
- Sales & distribution
- Installation & start-up
- Aftermarket service



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