

Valves for Water and Wastewater





Butterfly Valves

VAG GA Industries Butterfly Valves are the product of more than a century of engineering excellence, manufacturing expertise, and application know-how. They are NSF-61 approved for contact with drinking water are designed to meet or exceed the tough requirements of AWWA C504 and are well suited for demanding applications in water filtration, treatment, pumping, and pipelines.



EKN® AWWA C504 6" to 72" Butterfly Valves

- Double offset design
- NSF-61 Epoxy coated ductile iron body
- Class 150B and 250B rated
- Weld overlaid body seat
- Field replaceable rubber seat on disc
- Manual or power actuated
- Accessories available



Series 800 3" to 24" Butterfly Valves

- NSF-61 epoxy coated ductile iron body
- Molded and vulcanized rubber seat in body
- Class 150B and 250B rated
- Class 125 flanged or mechanical joint
- Manual or power actuated
- Accessories available



Series 800 30" and Larger Butterfly Valves

- NSF-61 Epoxy coated cast iron or ductile iron body
- Field replaceable rubber seat in body
- Rubber seat mechanically retained without epoxy
- Class 150B or 250B rated
- Class 125 flanged or mechanical joint
- Manual or power actuation
- Accessories available

EKN® Butterfly Valves can handle the pressure



Two 48" EKN® Butterfly Valves — shown here being installed on the North Shore Aqueduct in Utah — help to safely modulate and control gravity flow in the aqueduct system.

Owner: The Central Utah Water Conservancy District (CUWCD)

Engineering Consultants:
CH2M HILL

Supplier: Ferguson Waterworks

Products: Two 48" and seven 6" EKN® Butterfly Valves, two 12" RIKO® Plunger Valves

The North Shore Aqueduct (NSA) owned by the Central Utah Water Conservancy District (CUWCD) serves the growing water demands of central and eastern Utah. It conveys water from the Utah Valley Water Treatment Plant to the North Shore Terminal Reservoir for storage. The 60" NSA has a peak flow capacity of 58,700 gpm and operates between 120 and 250 psi.

Two 48" and seven 6" EKN® Butterfly Valves control flow between the treatment plant and reservoir. Over the past decade, CUWCD has installed more than forty EKN® Butterfly Valves throughout its various water management facilities.

The valves in the gravity flow system operate under working pressures of 250 psi. The EKN® tests strongly at 385 psi (seat) and 525 psi (body), and is ideal for this application.

"We've been installing EKN® Butterfly Valves in our system for several years now," said K.C. Shaw, Project Manager for CUWCD. "It is comforting to know — particularly when you're standing downstream from a closed valve — that it can handle the pressure. I've yet to find leakage of any kind."

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

Engineered Check Valves

GA Industries' Engineered Check Valves are designed for dependable, non-slam operation under the rigorous conditions found in both water and sewage pumping stations. They are available in many configurations and are engineered to suit the unique needs of those applications that require more than an ordinary check valve.



Cushioned Swing Check Valves

- Quiet, non-slam operation on water and sewage pumps
- Exceeds AWWA C508 requirements
- Iron body, 316SS or bronze trim, stainless steel shaft, resilient seat
- Side-mounted external cushion chamber
- 3" to 36" Class 125 and 250 flanged
- Increasing sizes available
- Additional options available



Slow-Closing Check Valves

- Pilot-operated, for clean water only
- Independently adjustable opening and closing speeds
- Opens to allow forward flow when inlet pressure exceeds outlet pressure
- Closes drip tight when outlet pressure exceeds inlet pressure
- Angle or globe body, 1½" to 3" NPT, 2" to 16" flanged



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



Pilot-Operated Control Valves

Rugged and dependable, GA Industries actuated automatic control valves are available in differential piston and diaphragm actuated 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 1-1/2" to 16" standard port and 3" to 10" reduced port.

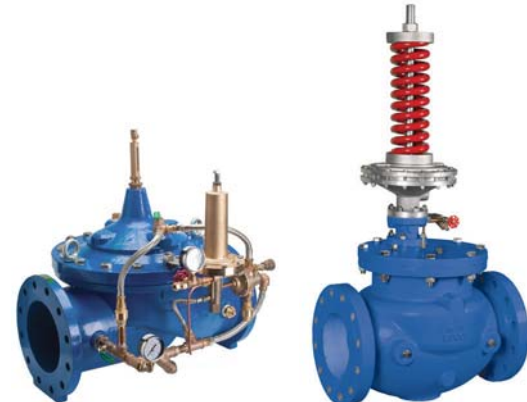


Pressure Reducing Valves

- Reduce high, fluctuating inlet pressure to lower, steady outlet pressure
- Maintain constant outlet pressure as demand varies
- Available with check, sustaining, or solenoid features

Pressure Sustaining Valves

- Sustain minimum upstream pressure
- Close if upstream pressure falls below minimum
- Available with check, sustaining, and/or solenoid features



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

Altitude Valves

- Close to prevent overflow in elevated tanks, standpipes, or storage reservoirs
- Single-acting (one way flow) or double-acting (two-way flow)
- Available with check sustaining, and/or solenoid features



Solenoid Control Valves

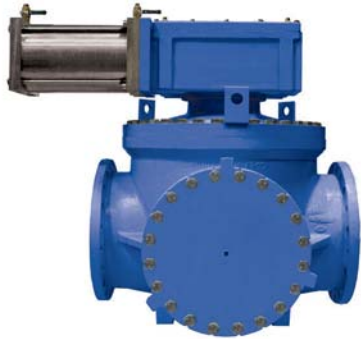
- Open or close by remote electrical signal
- Normally open or closed

Float Valves

- Available only as Series 5000 diaphragm actuated
- On/off non-modulating type

Pump Control, Surge Relief, and Check Valves

GA Industries offers a wide range of highly engineered specialty valves for use in water and sewage pump stations. Our engineers work closely with designers to select the right valves to control pressure surges associated with normal pump operation, to protect the pump station from excessive pressure due to a sudden stoppage of pumping and to prevent reverse flow when the pumps are 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"– 36" Pressure Class 150, 250 and 300
- Hydraulic, pneumatic or electric motor actuation



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"– 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"– 36" Class 125 and 250 flanged globe or angle body



Surge Relief Valves for Water Series 5000 Diaphragm Actuated

- Protects system from excessive pressure due to sudden stoppage of pumping
- Self-contained pilot operated, uses line pressure for operation
- Fusion bond epoxy coated ductile iron body, stainless steel trim
- Angle or globe body, up to 400 PSI
- 1½" to 3" NPT, 2" to 16" Class 150 or 300 flanged



Surge Relief Valves for Water Differential Piston Actuated

- Protects system from excessive pressure due to sudden stoppage of pumping
- Self-contained pilot operated, uses line pressure for operation
- Heavy-duty cast iron body, lead free bronze V-port trim
- Angle or globe body, up to 300 PSI
- 3" to 36" Class 125 or 250 flanged



Surge Relief Valves for Wastewater or Sewage

- Protects system from excess pressure due to sudden stoppage of pumping
- Direct-acting, spring loaded
- 316SS trim with tough resilient seat
- Quick opening, slow closing
- 2"– 16" Class 125 flanged wye (in-line) or angle body



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. GA Industries offers not only a broad range of AWWA Standard C508 swing check valves but also several types of “specialty” check valves, all of which are readily available through our network of distributors.



Swing Check Valves

- Meets AWWA C508
- 3"– 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
- Exceeds AWWA C508
- 3" to 24" Class 125 or 250 flanged
- Cast iron body, 316SS trim
- Lever & weight or spring
- Single and double increasing sizes available



Rubber Flapper Check Valves

- Meets AWWA C508
- Suitable for water or sewage
- Spring assisted Slamator™ available
- 2"– 24" Class 125 flanged
- 250 PSI Rated epoxy coated ductile iron body
- Optional back-flow device, limit switch, and/or position indicator

RIKO® Plunger Valve

The RIKO® Plunger Valve is designed to control water pressure or flow rate while minimizing vibration and the effects of cavitation. It is ideal for in-line energy dissipation and free-discharge applications.

- 6" to 78" ANSI Class 150 or 300
- Ductile iron body, stainless steel internals
- Various trim packages to suit operating conditions
- Tight shutoff, rubber seat located out of the flow zone
- Larger sizes and/or higher pressure available



Olivenhain Dam, California —
60" RIKO® Plunger Valve

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"– 3" NPT pipeline connection
- Cast iron body with 316SS trim
- Up to 300 PSI working pressure

Air and Vacuum Valves

- Kinetic principle – won't blow shut
- ½"– 3" NPT, 3"–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 – won't 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

DUOJET® Combination Air Valve

- Fusion bond epoxy coated ductile iron body and cover
- All 316 stainless steel internals
- 2" to 6" Class 150 or 300 flanged inlet
- Up to 500 PSI working pressure
- Available low pressure sealing down to 1.5 PSI



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

- 2"– 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 8" Class 125 flanged
- Up to 200 PSI inlet pressure
- Screened air inlet
- Cast iron body with lead free bronze or 316SS trim
- Available with air release valve



Durovent™ All Stainless Steel Air Valves

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



Locations

- | | | | |
|------------------|-----------|--------------------------------|-------------------|
| 1 GERMANY | MANNHEIM | 8 ITALY | SAN GIULIANO |
| 2 AUSTRIA | VIENNA | 9 MALAYSIA | PETALING JAYA |
| 3 CHINA | TAICANG | 10 POLAND | WARSAW |
| 4 CZECH REPUBLIC | HODONIN | 11 RUSSIA | SAMARA |
| 5 FRANCE | CHASSIEU | 12 SOUTH AFRICA (VAG/KLAMFLEX) | KRUGERSDORP |
| 6 HUNGARY | BUDAPEST | 13 UAE | DUBAI |
| 7 INDIA | HYDERABAD | 14 VAG USA, LLC | CRANBERRY TWP, PA |

The VAG USA, LLC is part of a global network with our partner company, VAG GmbH, headquartered in Mannheim, Germany. Together, we have a highly qualified team of service specialists around the world. Our capabilities include:

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



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