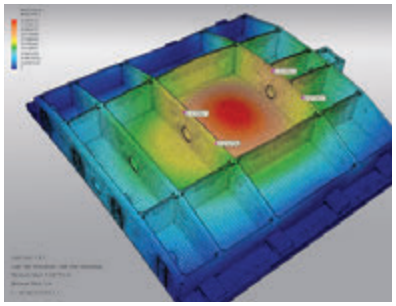
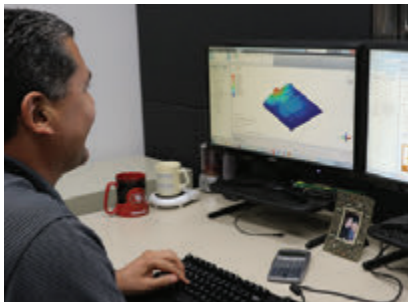
Waterman

ENGINEERED WATER CONTROL PRODUCTS

PRODUCTS AT-A-GLANCE




WATER AND WASTEWATER TREATMENT / HYDROPOWER/DAMS / INDUSTRIAL / DRAINAGE/FLOOD CONTROL / IRRIGATION

McWANE

For Generations

ENGINEERED TO PERFORM BUILT TO LAST

With over 100 years in the control gate and valve business, our experts have custom-engineered solutions for thousands of critical projects throughout the world. Only Waterman can boast the longevity, experience and in-house capabilities to correctly solve your project's unique challenges.

As a McWane company, one of the world's largest manufacturers of water control and water delivery products, Waterman stands out as the strongest, most financially stable and proven supplier for the largest and most complex projects.

IN-HOUSE MANUFACTURING IN EXETER, CALIFORNIA

Waterman has one of the industry's largest in-house manufacturing operations where we fabricate, machine and test our water control products. Domestic design, fabrication, and testing provides our customers with the highest quality product and faster response times.

FABRICATED SLUICE/SLIDE GATES–*250 SERIES*

Best-in-class fabricated water control gates provide reliable performance for water, wastewater and hydropower applications. They're noted for their excellent sealing/leak resistance and for their long service life. Gates are available in standard sizes for fast delivery or can be customized to your specific job.

- SS Models: Stainless steel construction for maximum corrosion resistance (304, 316 or 2205 stainless available).
- A Models: Aluminum construction.
- UHMWPE continually-self-adjusting seal system offers leakage rates better than the AWWA C561 /C562 spec. Tested for 100,000 cycles (4x leading competitor) and continued to outperform the leakage specification.
- Patented Guardian® seal system helps seal corners from leakage and dramatically increases seal life for both top and flush bottom seals. (U.S. Patent # 8,820,711)
- Mounting Flexibility: In-Channel, End-of-Channel or Submerged Opening. Optional lower-to-open weir gates for decant and level control.
- Manual, electric or hydraulic actuation.

HEAVY-DUTY CAST IRON SLUICE GATES

Waterman Cast Sluice Gates are used in applications where safety and reliable performance are essential (dams, tidal environments, water treatment plants) and where outstanding product longevity is desired. Waterman cast gates are preferred for high-head (up to 200') and high debris (water treatment) environments as well as for critical gateways in treatment plants. Each gate is custom-built to your requirements.

- Cast iron and ductile iron alloys available, including 3% Ni or Ni-Resist for corrosive environments.
- Each gate designed with Finite Element Analysis. Stress, and deflection are measured based on both seating and unseating heads and other external loading. Analysis allows gate to perform with maximum reliability and minimum leakage.
- Q-Seal bottom seal for high-debris environments.
- High performance dual-bolt adjustable wedge system.
- Manual, electric, or hydraulic actuation.
- Machined metallic seats or optional resilient gliding seal.

RADIAL (TAINTER) GATES

Waterman radial gates control water flow over a dam or drainage structure, providing a wide and unobstructed opening. The typical large profile of these gates requires rugged design and construction incorporating state of the art engineering methods for reliable operation with minimal maintenance. Critical gate components are designed with Finite Element Analysis to measure stress and deflection. Each gate is custom-designed to your requirements.

- Steel or stainless steel construction.
- Key components field-adjustable for in-field installation flexibility.
- Serviceable resilient sealing surfaces.
- Manual, electric or hydraulic actuation.

FABRICATED BUTTERFLY VALVES

Waterman fabricated butterfly gates / valves allow water control in restricted spaces that prohibit use of a traditional gate. They are also widely specified in applications where a drip-tight seal is required.

- Maximum waterway opening design, ¼ turn operation, permits flow-regulation and modulation.
- Zero leakage at rated pressures.
- Exclusive stainless steel machined sealing surface provides close tolerance, corrosion resistance and long life.
- High-performance double-lipped seal and large field-adjustable mating seat offer superior performance. All seals designed to be field-serviceable allowing simplified maintenance.
- Manual, electric or hydraulic actuation.

AUTOMATIC LEVEL CONTROL GATES

With over 30 years experience and the largest worldwide installed base, Waterman stands apart as the leading provider of automatic level control gates. Using a proven, proprietary design, Waterman's level control gates automatically maintain a specified water level. They operate without any outside power or motor, free of any manual intervention, irrespective of the volume of incoming flow, and independently of the level on the other side. Common applications include canals, lakes and reservoirs, flood control, wastewater treatment, and hydropower.

- Broadest selection of sizes, models and options for every application.
- Proven, proprietary design with thousands of applications.
- Largest in-house design and fabrication capability.

LIFTS AND CONTROLS

Manual – Handwheel and Gear Types

Easy to operate, reliable performance.

Portable Power Actuators

Fast operation of multiple gates. Electric, gas and hydraulic.

Automation

Integration with popular actuators, electric or hydraulic.

Motor options include Auma, EIM, Limitorque, Rotork and others.

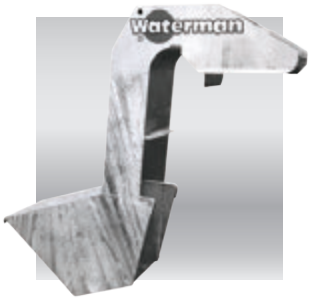
WATERMAN OFFERS THE BROADEST SELECTION OF GATES AND CONTROLS FOR SPECIALTY APPLICATIONS

Stop Logs/Bulkhead Gates

- Open-channel flow or level control
- Resilient seals for low leakage requirements
- Aluminum, carbon, or stainless steel construction
- Custom designed to meet application needs

Heavy Duty Drainage (Flap) Gates

- Pump and gravity discharge, backflow protection
- Cast or fabricated construction
- Custom designed to meet application needs



Automatic Siphons

- Used to remove excess inflow from basins, streams and canals, preventing overflow and flooding
- Requires 50 times less space and dramatically less civil structure compared to an overflow weir of the same capacity

Self-Regulating Tide Gates

- Used in tidal wetlands preservation and restoration
- Restores tidal flushing of marshes without flooding of upland property behind dikes and levees
- Protects flood-prone areas
- Controls mosquito larvae

Overshot/Tilting Weir Gates

- Allows upstream water control to a tight tolerance
- Inherently safe, allows surge flows and debris to pass over

Telescoping Valves/ Decanting Valves

- Control level of liquid or effluent in basins
- Options add precision to increased or reduced flow adjustments

Mud Valves

- Used to aid in sediment flushing from basins and lines

Canal Gates

- For drainage and irrigation canals
- Cast iron, aluminum or stainless steel

Hydrostatic Pressure Relief Valves

- Wall or floor mounted, reliable design

Waterman Valve LLC - Engineered Water Control Products Since 1912
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