MPI MCWANE PLANT & INDUSTRIAL

ENGINEERED WATER CONTROL PRODUCTS AT-A-GLANCE

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

Waterman
A MCWANE PLANT & INDUSTRIAL SOLUTION

FABRICATED SLIDE GATES – 250 SERIES

Best-in-class fabricated water control gates provide reliable performance for water, wastewater and hydropower applications. The 250 Series gates are noted for their excellent performance and for their long service life.

- SS-250: Stainless steel construction for maximum corrosion resistance (304, 316 or 2205 stainless available).
- A-250: Aluminum construction.
- UHMWPE continually-self-adjusting seal system offers leakage rates better thanthe AWWA C561-21/ C562-21 spec. To prove the reliability of the design, we tested the SS-250 gate for 100,000 cycles (4x leading competitor) and it continued to outperform the AWWA leakage specification.
- Mounting Flexibility: Wall Mounted, Thimble Mounted, Embedded, Channel Mounted options available.
- Downward opening weir gates for surface decanting and upstream level control applications.
- Manual, electric or electro-hydraulic actuation.

HEAVY-DUTY CAST DUCTILE IRON SLIDE GATES – S-6000 SERIES

Waterman S-6000 Cast Ductile Iron Slide 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 ductile iron gates are preferred for high-head and high debris (water treatment) environments, as well as for critical isolation in treatment plants and water control structures.

- Ductile iron alloy construction is standard for superior corrosion resistance in all environments.
- Fully conforms to AWWA C-560-21 specification for cast iron slide gates.
- Like all Waterman gates, the S-6000 Series is 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.
- Optional Q-Seal flush bottom seal for flush invert installations.
- Reliable dual-bolt adjustable wedge system provides consistent performance with infrequent maintenance.
- AWWA C-560-21 bronze seats are machined for reliable performance and long cycle life.
- Manual, electric, or electro-hydraulic actuation.

RADIAL (TAINTER) GATES

Waterman radial gates can regulate water flow over a dam or drainage structure, or provide 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 custome designed and built in-house to your requirements.

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

RECTANGULAR BUTTERFLY GATES

Waterman Rectangular Butterfly Gates allow water control in restricted spaces that prohibit use of a traditional gate.

- Drip-tight seal with zero leakage at rated pressures
- Maximum waterway opening design, a rectangular port, and 1/4 turn operation permits flow-regulation and modulation.
- 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 electro-hydraulicc actuation.
- For potable water applications, the gate conforms to NSF 61 & NSF 372 specifications.

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 and independently of the level on the other side. Common applications include canals, lakes, rivers and reservoirs, flood control, wastewater treatment, and hydropower.

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

LIFTS AND CONTROLS

Manual – Handwheel and Gear Types

Easy to operate, reliable performance.

Electric Portable Power Actuators

Fast operation of remote gates.

Automation

Integration with popular actuators, electric or electro-hydraulic.

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

STOP LOGS/ BULKHEAD GATES

- Open-channel flow or level control
- Resilient seals for low leakage requirements
- Aluminum, carbon, or stainless steel construction
- Lifting beams and storage racks available

HEAVY DUTY DRAINAGE (FLAP) GATES

- Pump and gravity discharge, backflow protection
- Ductile iron or fabricated construction

AUTOMATIC SIPHONS

- Used for level control as a hyper-efficient weir on dam crests and spillways in 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
- Automatic functions are completely passive. No power or external controls are required for operation

OVERSHOT/TILTING WEIR GATES

- Allows fully adjustable upstream water control to a tight tolerance
- Inherently safe, allows surge flows and debris to pass over the leaf
- The leaf lays flat in the structure for high flow, debris, and sediment flushing.

TELESCOPING VALVES/ DECANTING VALVES

- Control level of liquid or effluent in basins
- Siphons off surface contaminants in open 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

MPI - MCWANE PLANT & INDUSTRIAL
1201 Vanderbilt Road, Birmingham, AL 35234
866.924.8674 • mcwanepi.com sales@mcwanepi.com

BR-WATERMAN-EP-4
REV 5-2025