

Backwash Gate



Core Attributes

Driven by hydraulic potential energy and adapted to channel-style design, the gate features a sealing and leak-proof structure that prevents sewage backflow. Its modular design fits the layout of tank structures, balancing high-efficiency desilting with equipment durability, and is suitable for construction scenarios of various stormwater storage tank channels.

Key Functional Highlights

High-Efficiency Desilting

Leveraging the water storage potential energy of the tank to form surge water flow, a single flush can cover 50–100 meters of the channel.

Intelligent Interconnection

Adopts PLC intelligent control + float level sensing, supporting multi-mode triggering including level-based, timed, and remote control. It delivers high positioning accuracy, opening/closing noise ≤ 55 dB, and is compatible with smart water services platforms.

Sealing & Leak-Proof Performance

Equipped with a stainless steel flexible metal + corrosion-resistant rubber double-seal structure, it achieves zero leakage when closed, eliminating sewage seepage and backflow, and adapts to high-humidity and high-pollution water environments.

Full-Range Safety Protection

Features an anti-sediment lock hook mechanism + obstacle detection sensor, enabling emergency stop within 0.5 seconds upon encountering obstacles. An anti-misoperation program is activated in the closed state to ensure safe operation and maintenance.

Heavy-Duty Durability

Constructed with an SUS304 stainless steel body, offering corrosion and impact resistance. It has an opening/closing cycle life of over 50,000 times, is compatible with channels of different widths (2–5 meters), and its modular design allows for easy maintenance.



Standard Selection Table

Model & Specification (W×L/mm)	Material Options	Trigger Modes	Drive Configuration
2800×400	SUS304	Level / Timed / Remote Control	Hydraulic Drive + PLC Control
4000×400	SUS304	Level / Timed / Remote Control	Hydraulic Drive + PLC Control
Custom Sizes	Full range of materials available	Level / Timed / Remote Control	Custom Drive Solutions

Supply & Services

Scope of Supply

Includes backwash gate body, hydraulic power unit, PLC control system, level sensor, and sealing components.

Installation Support

Provides on-site guidance for channel embedded installation, ensuring tank fitting accuracy and sealing precision for compatibility with various tank structures.

Waterproofing Construction

Delivers professional sealing and waterproofing work around the channel to prevent rainwater and sewage leakage, guaranteeing long-term stable equipment operation.

Warranty & Technical Support

Offers a 2-year warranty for the main body and control system, plus a 1-year warranty for wearing parts. Long-term O&M (Operation & Maintenance) technical support is available upon request.



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