

Gate Size Table (5m/10m Headwater, Undershot Type)

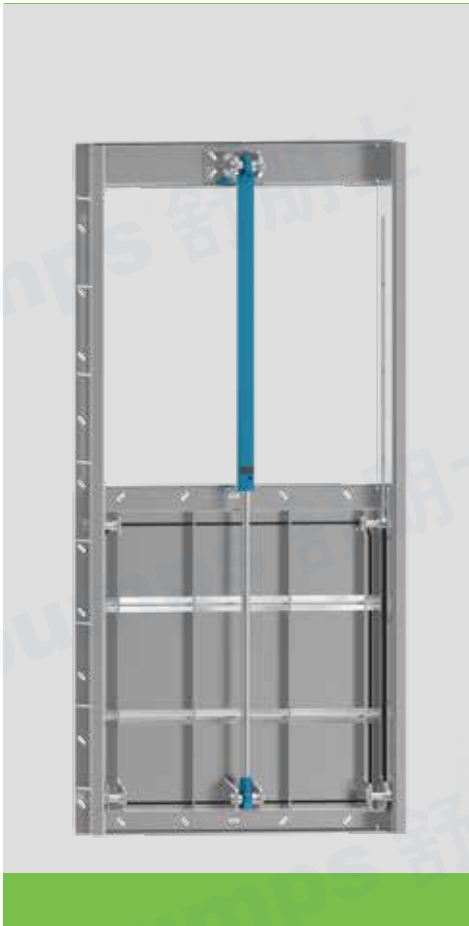
Model	Material	Equipment Dimensions (HxWxLmm)	Pipe Bottom to Gate Bottom (mm)	Pipe Bottom to Gate Top (mm)	Matching Control Cabinet Model	Matching Hydraulic Station Power
XKZ600×600	SUS304/316	1900×890×200	≥1100	≥1250	SPK/G-1ACB-2	2Kw /20L
XKZ800×800	SUS304/316	2550×1250×250	≥1250	≥1700	SPK/G-1ACB-2	2Kw /20L
XKZ1000×1000	SUS304/316	2950×1500×250	≥1450	≥1900	SPK/G-1ACB-2	2Kw /20L
XKZ1200×1200	SUS304/316	3350×1660×250	≥1650	≥2100	SPK/G-1ACB-2	2Kw /20L
XKZ1500×1500	SUS304/316	3950×2000×250	≥1950	≥2400	SPK/G-1ACB-2	2Kw /20L
XKZ1800×1800	SUS304/316	4550×2300×250	≥2250	≥2700	SPK/G-1ACB-2	2Kw /20L

Gate Size Table (5m/10m Headwater, Overshot Type)

Model	Material	Equipment Dimensions (HxWxLmm)	Pipe Bottom to Gate Bottom (mm)	Pipe Bottom to Gate Top (mm)	Matching Control Cabinet Model	Matching Hydraulic Station / Cylinder Power
SKZ500×500-D	SUS304/316	1550×750×200	≥350	≥1950	SPK/G-1ACB-2	750W
SKZ500×500	SUS304/316	1550×750×200	≥350	≥1400	SPK/G-1ACB-2	2Kw /10L
SKZ600×600-D	SUS304/316	1850×850×200	≥350	≥1950	SPK/G-1ACB-2	750W
SKZ600×600	SUS304/316	1850×850×200	≥350	≥1700	SPK/G-1ACB-2	2Kw /10L
SKZ800×800	SUS304/316	2200×1050×200	≥350	≥2000	SPK/G-1ACB-2	2Kw /20L
SKZ1000×1000	SUS304/316	2600×1250×200	≥350	≥2500	SPK/G-1ACB-2	2Kw /20L
SKZ1200×1200	SUS304/316	3000×1450×200	≥350	≥3050	SPK/G-1ACB-2	2Kw /20L
SKZ1350×1350	SUS304/316	3600×1660×200	≥350	≥3650	SPK/G-1ACB-2	2Kw /20L
SKZ1500×1500	SUS304/316	4000×1810×250	≥350	≥4050	SPK/G-1ACB-2	2Kw /20L
SKZ1650×1650	SUS304/316	4200×1950×250	≥350	≥4250	SPK/G-1ACB-2	2Kw /20L
SKZ1800×1800	SUS304/316	4500×1860×250	≥350	≥4550	SPK/G-1ACB-2	2Kw /20L

SPS–PBZ Series

Stainless steel flat gate



VERSION:2026.1, 2nd Edition



SPS-PBZ Series
Stainless Steel
Flat Gate



Excellent Sealing
Performance



Intelligent
Control



Strong Corrosion
Resistance



High Temperature
Resistance



High Pressure
Resistance



Easy
Installation

Product Usage

- Mainly used for flow control, directional water shut-off, and backflow prevention in facilities such as water intakes, interception wells, and storage tanks.
- Available in main specifications from 500×500 to 1800×1800.
- Suitable for square or circular flow-through opening structures.

Design standards

- Code for Design of Aluminum Alloy and Stainless Steel Gates (CJ/T257-2014)
- Code for Manufacture, Installation and Acceptance of Steel Gates in Water Resources and Hydropower Projects (DL/T5018-94)
- Technical Conditions for Manufacturing Water Treatment Equipment (JB2932-86)
- General Technical Conditions for Weldments (JB/ZQ4000.3-86)
- Stainless Steel and Heat-Resistant Steel Plates, Sheets and Strips for Pressure Equipment (GB/T24511-2017)

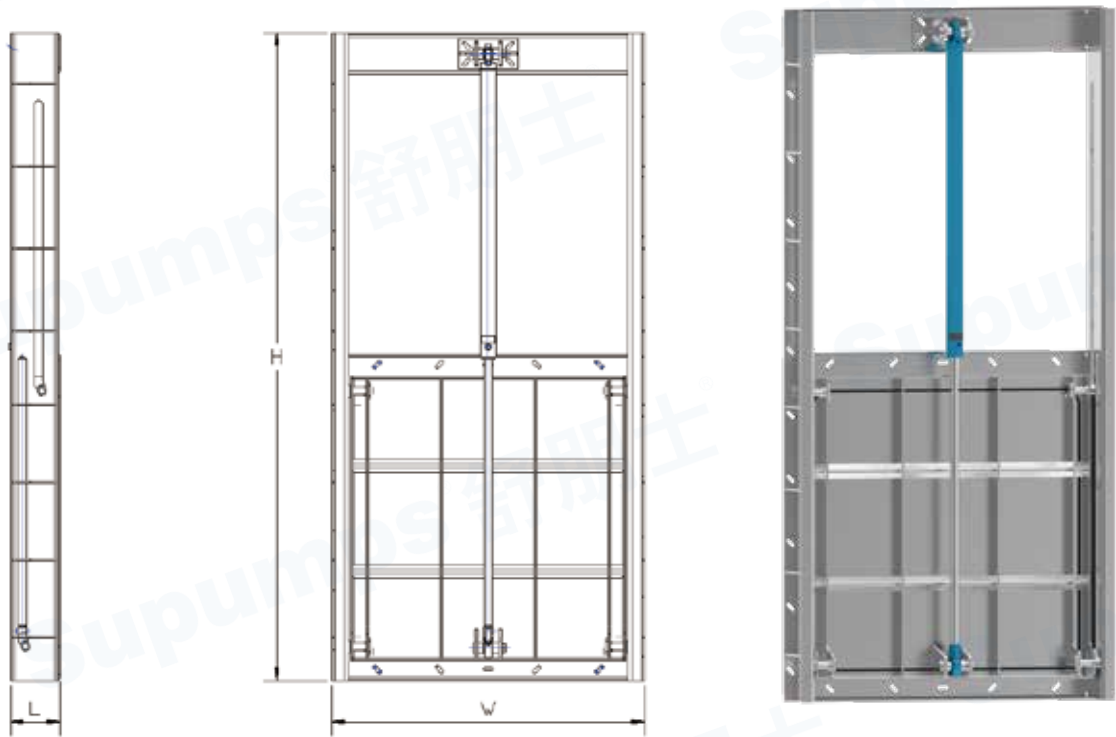
Product Features

- Gate opening and closing controlled by hydraulic or cylinder drive.
- Real-time monitoring via water level, water quality, rainfall and other systems; the control system accurately adjusts gate actions/positions based on working conditions, ensuring high intelligence.
- Special guide rail design reduces friction during operation, minimizing driving force for easy use and extended sealing durability.
- Constructed from corrosion-resistant materials SUS304 or 316, customizable to requirements.
- Suitable for fully submerged conditions.
- Supports manual, automatic, and remote control modes.
- Easy to install with low maintenance costs.
- Flat-bottom design prevents debris accumulation, ensuring unobstructed water flow.

Structural form and performance

- The flat gate assembly includes: gate plate, frame, seals, sliding components, and power system.
The gate plate uses a plane stiffened welded structure, balancing lightweight construction with sufficient rigidity and performance.
- The frame is formed from bent steel plates, with a guide groove configuration.
- Precision-machined sliding grooves eliminate the "see-saw" effect during opening/closing.
- Self-adjusting seal design (non-wedge geometry) reduces torque requirements and achieves zero leakage.

Structural schematic diagram



Model Description

	SPS-PBZ	SKZ/XKZ	500×500	D
Product Series				
Gate Type (Overshot / Undershot)				
Gate Opening Size (mm)				
Cylinder-driven (leave blank for non-cylinder-driven configurations)				