

PRODUCT DATA SHEET

Compact Screw Screen (SSG)

water | wastewater | sewage



OVERVIEW

The Compact Screw Screen Product ID SSG is an economical solution for screening of industrial wastewater or domestic sewage. The Compact Screw Screen can be installed such that screened effluent discharges under gravity directly in the downstream process tank or can be fitted inside an optional stainless steel tank in which screen effluent is captured. Installation is straightforward with flanged inlet connection (and outlet connection for tank version).

FEATURES & ADVANTAGES

- Low maintenance and low initial investment
- High solids removal efficiency
- Up to 40% reduction in volume & weight of screenings after compaction
- Inlet flow rate; up to 72m³/h
- 3 or 6 mm rounded screen element holes



STANDARD SPECIFICATIONS

Parameter		Units	SSG-168	SSG-219
Treatment capacity* ¹	3mm rounded holes	m ³ /h	29	43
	6mm rounded holes		43	72
Approximate Dimensions	A	mm	1,661	2,248
	L3		1,450	2,050
	L1		470	550
	L2		980	1,500
	W		399	478
	IH		316	381
	IL		277	304
	ØD		168	219
	BH		1,716	1,861
	BSH		1,281	1,339
	BIH		367	447
	BOH		136	162
	BIL		42	95
	BOL		111	100
	ØT		610	
Flanged connections* ³	Inlet	DIN	100	150
	Tank outlet* ²		100	150
Installed motor power		kW	0.25	0.37
Screw gear reducer speed		rpm	11	11
Empty weight: screen only / with tank* ²		kg	80 / 130	90 / 150
Washwater requirements @3 / 5 bar* ⁴		L/min	23 / 30	23 / 30

1. Based on influent wastewater TSS not exceeding 400 mg/L, maximum capacity, not to be exceeded

2. Optional in-tank version (screen installed in tank)

3. Flanges are stainless steel lap joint type, 15mm thick, according to AS4087 PN16

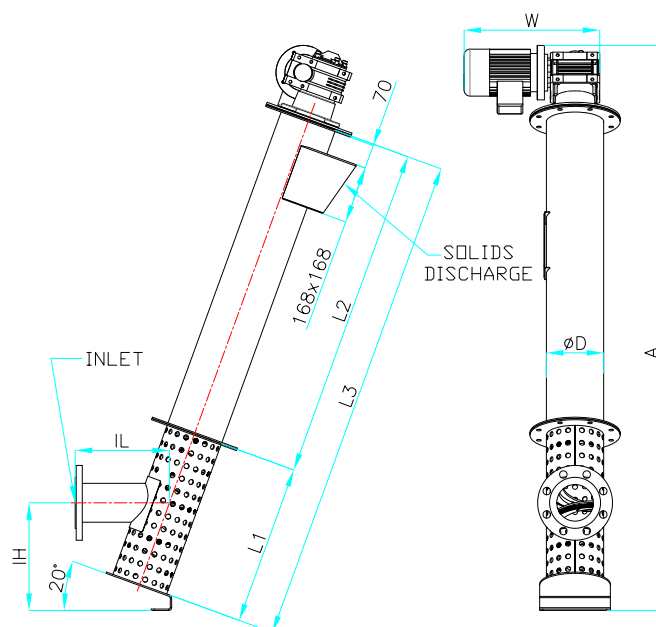
4. Can be operated without washing for influent wastewater TSS < 250 mg/L

STANDARD INCLUSIONS + OPTIONS

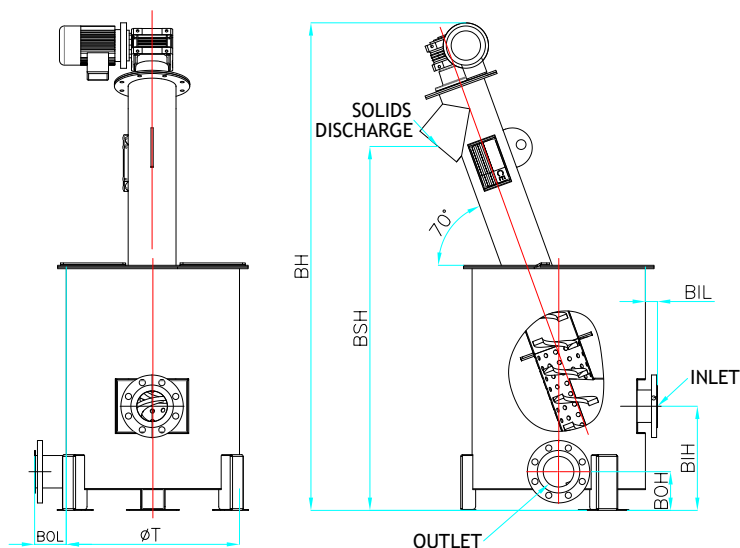
Equipment		Standard Supply	Optional Supply
Rounded holes screen element	3mm or 6mm	✓	-
Machine carpentry including flange, collar support bracket, washing bar(s) and optional tank w/ flange. All bolts A4 (SS 316)	SS304L	✓	-
	SS316L (Recommended for marine environment)	-	✓
Screw	High carbon steel (HCS) painted	✓	-
	SS304L	-	✓
	SS316L	-	✓
Drive motor protection	IP55	✓	-
Screen basket cleaning, bolted nylon brushes		✓	-
Support basket (used to attach / fix screen in position)		✓	-
Single washing bar with manual valve		✓	-
Double washing bars with one manual valve		-	✓
Stainless steel tank (for in-tank screen assembly)		-	✓
Surface treatments *1		✓	-

1. Stainless steel parts: stripping with acid solution, passivation with glass particles, final surfaces cleaning with anti-dust oil. Carbon steel parts: sandblasting SA 2.5 for external anti-rust paint RAL 5015

Instrumentation & Controls	Standard Supply	Optional Supply
Solenoid valve kit(s) for selected washing system(s) 24VDC	-	✓
Control panel to AS/NZS3000, for external installation (supplied loose)	-	✓



SSG Schematic



SSG-B Schematic

MODEL SELECTION

168	Capacity - up to 43m³/h								
219	Capacity - up to 72 m³/h								
	X	Assembly, free standing screen (standard)							
	B	Assembly, in-tank							
	d3	Screen element, rounded holes, 3 mm							
	d6	Screen element, rounded holes, 6 mm							
	4	Machine carpentry, flange(s), support bracket, washing bar, and optional tank in SS304L, bolts A2 (standard)							
	6	Machine carpentry, flange(s), support bracket, washing bar, and optional tank in SS316L, bolts A4							
	X	Screw in high-carbon steel HCS (standard)							
	4	Screw in SS304L							
	6	Screw in SS316L							
	X	Single washing bar with manual valve (standard)							
	D	Double washing bars with one manual valve							
	X	Solenoid valve kit for washing bar(s), without (standard)							
	S	Solenoid valve kit for washing bar(s)							
	X	Control panel, without (standard)							
	C	Control panel, included							
	X	Specification, standard							
	C	Specification, custom							
SSG -	-	-	-	-	-	-	-	-	-

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