

PRODUCT DATA SHEET

STATIC BOW SCREEN (GST)

water | wastewater | sewage



OVERVIEW

The Static Bow Screen model GST is a simple and economical solution for separation and screening of solids from process water and wastewater. Static Bow Screens are free standing units that use a wedge-wire screen element for solids removal. The wedge-wire screen element is formed with a curved radius and is mounted in a stainless steel housing. This allows for maximum hydraulic capacity and the driest possible solids after separation. The GST Static Bow Screen is offered with optional hinged cover and external washing bar that can be fitted with a solenoid valve for automated washing of the screen element.

ADVANTAGES

- Low investment cost.
- Simple installation and operation.
- Very low maintenance.
- Suitable for fluctuating solids and flow rates.

APPLICATIONS

- Vegetable and fruit processing industry.
- Meat and poultry processing industry.
- Fish and shellfish processing industry.
- Brewing, malting and beverage industry.
- Paper & pulp industry.
- Mining & minerals industry.
- Waste recycling industry.
- Municipal sewage treatment.



Typical GST shown with optional Hinged Cover, optional Washing Bar and optional Solenoid Valve.

STANDARD SPECIFICATIONS

Parameter			Units	GST-600	GST-1200	GST -1800
Treatment capacity	Wedge-wire screen element slot opening (mm)	0.25	m³/h	19	40	60
		0.50		35	73	110
		0.75		47	99	149
		1.00		57	119	179
		1.25		65	136	205
		1.50		71	149	220
		2.00		72	150	220
Approx. dimensions	Screen element width		mm	600	1200	1800
	Overall height			1950	1950	1953
	Overall width			700	1300	1900
	Overall depth (excluding Inlet/Outlet)			950	950	950
	Overall depth (including Inlet/Outlet)			1050	1050	1050
Flanged connections *1	Inlet		DN	100	200	200
	Outlet			200	250	250
Empty weight *2			kg	150	315	460
Washwater requirements, at 3 bar pressure *3			L/min	23		

1. Flanges are stainless steel lap joint type, 15mm thick, with PN10 holes according to AS4087.
2. Weight for standard unit without optional hinged cover.
3. For optional washing bar.

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STANDARD INCLUSIONS + OPTIONS

Equipment		Standard Supply	Optional Supply
Free Standing		✓	–
Machine carpentry, flanges, optional hinged cover and optional washing bar	SS304L, bolts A2 (SS304)	✓	–
	SS316L, bolts A4 (SS316) recommended for marine environments	–	0
Hinged cover		–	0
Washing bar with manual valve		–	0
Solenoid valve kit for washing bar 24VDC		–	0
Surface treatments *1		✓	–

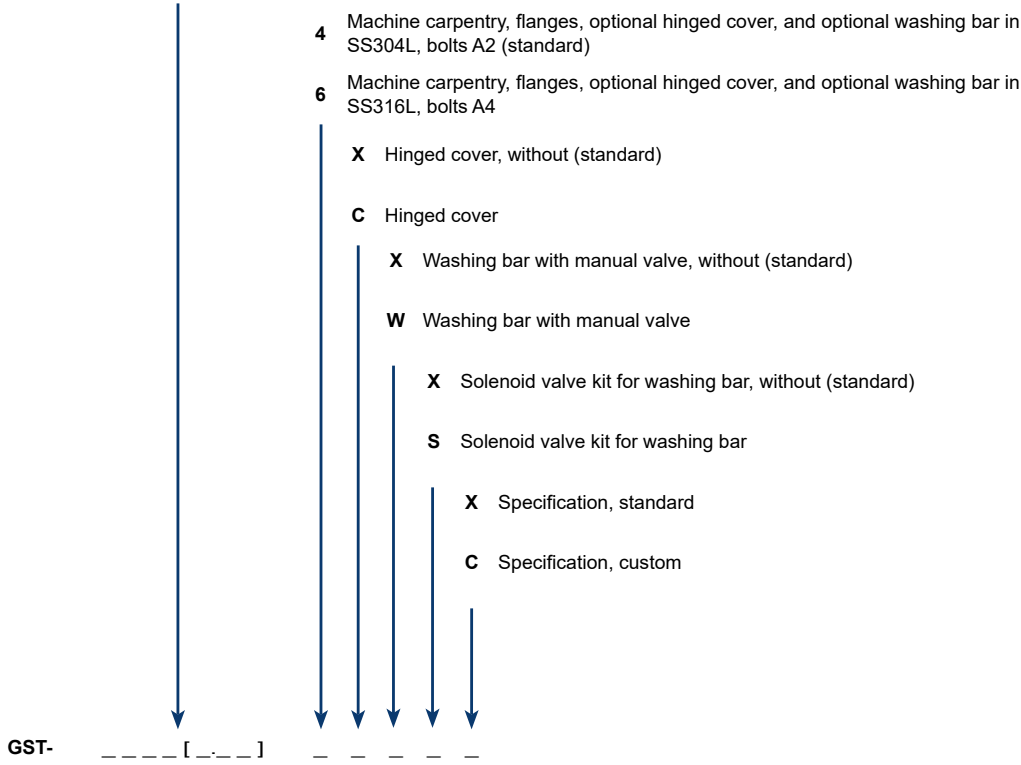
1. Stainless steel parts: stripping with acid solution, passivation with glass particles, final surfaces cleaning with anti-dust oil.

MODEL SELECTION

600 [select slot opening] Capacity – up to 72 m³/h

1200 [select slot opening] Capacity – up to 150 m³/h

1800 [select slot opening] Capacity – up to 220 m³/h



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