

## VAF™ Filtration Systems Self-Cleaning Intake Suction Screens



### GENERAL INFORMATION

When pumping water, it is important to keep equipment running smoothly and water flowing freely. Whether pumping water from a stream, canal, river, ditch, pit, sump, or pond, the water must be free of debris that could block water flow, damage the pump, clog water distribution equipment or damage process equipment.

The Self-Cleaning Intake Suction Screen utilizes a heavy 12, 18, or 24 mesh stainless steel screen designed to increase pump efficiency. The screen continuously removes debris from water. This saves energy and maintenance costs. The suction screens can be used in numerous applications with intake.

The suction screen is attached to the end of the pump at the water source. All water pulled in must traverse the screen before entering the intake pipe. The screen stops debris from entering and causing costly maintenance requirements in the system. The pump discharge return line drives two spray bars that continually rotate, jet water at the screen, and blast debris away from the screen at 2.8 to 4.5 bar (40 to 65 psi) operating range.

The suction screen has no exterior moving parts. It can be installed at any altitude without the operation being affected. The screen is corrosion resistant and also has a standard flanged connection. Other connections are available upon request.

### ADVANTAGES

- Self-cleaning with very low maintenance requirements
- Construction Options: hot dip galvanized, and 304/316 combined
- Heavy duty, corrosion resistant construction for a long service life
- No exterior moving parts
- Hydraulically powered
- Simple installation
- Available in:
  - 12 mesh (1680 micron)
  - 18 mesh (1000 micron)
  - 24 mesh (710 micron)
- When combined with a V-Series™ automatic self-cleaning screen filter, any water source can be filtered down to 10 micron.

### CONTACT INFORMATION

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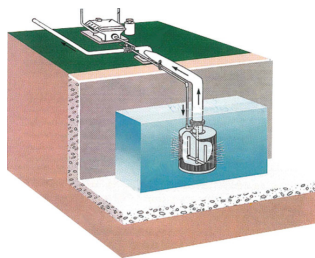
## SUCTION SCREEN SPECIFICATIONS

MODEL	FLOW RATE 12 OR 18 MESH	FLOW RATE 24 MESH	LENGTH	DIAMETER	FLANGE SIZE	SPRAY	OPERATING PRESSURE	WEIGHT
	M <sup>3</sup> /HR	M <sup>3</sup> /HR						
IS-100	45	37	50.8	30.5	7.6	3	3-4	14
IS-200	74	51	63.5	40.6	10.2	4.5		26
IS-400	125	91	73.7	40.6	15.2	4.5		28
IS-600	170	119	83.8	61.0	20.3	4.5	3.1-4.5	46
IS-800	216	159	88.9	61.0	25.4	4.5		52
IS-1000	307	216	101.6	61.0	25.4	6.4		56
IS-1400	352	250	109.2	61.0	30.5	6.4		60
IS-1700	409	284	114.3	66.0	30.5	6.4		67
IS-2000	477	329	124.5	66.0	35.6	8.2	3.4-4.5	73
IS-2400	591	409	134.6	76.2	40.6	8.2		101
IS-3000	681	471	147.3	76.2	40.6	10		107
IS-3500	795	550	152.4	91.4	45.7	10		129
IS-4000	908	628	162.6	106.7	45.7	10		163

MODEL	FLOW RATE 12 OR 18 MESH	FLOW RATE 24 MESH	LENGTH	DIAMETER	FLANGE SIZE	SPRAY	OPERATING PRESSURE	WEIGHT
	GPM	GPM						
IS-100	200	165	20	12	3	12	40-60	30
IS-200	325	225	25	16	4	20		58
IS-400	550	400	29	16	6	20		62
IS-600	750	525	33	24	8	20	45-65	102
IS-800	950	700	35	24	10	20		115
IS-1000	1350	950	40	24	10	28		123
IS-1400	1550	1100	43	24	12	28		131
IS-1700	1800	1250	45	26	12	28		148
IS-2000	2100	1450	49	26	14	36	50-65	160
IS-2400	2600	1800	53	30	16	36		223
IS-3000	3000	2075	58	30	16	44		236
IS-3500	3500	2420	60	36	18	44		283
IS-4000	4000	2765	64	42	18	44		358

NOTES: 12 mesh = approximately 1680 micron, 18 mesh = approximately 1000 micron, 24 mesh = approximately 710 micron  
To specify construction selection, add G = Galvanized, S = Stainless Steel (For Example: ISG-200)

## TYPICAL APPLICATION



## STRAINER

An inline strainer or mini-filter is recommended in the 1.5" spray water supply line.

- 1.5" Solvent Weld Connections  
Max Flow 16 m<sup>3</sup>/hr (70 gpm)
- 2" Solvent Weld Connections  
Max Flow 23 m<sup>3</sup>/hr (100 gpm)



## STRAINER

### MODELS AVAILABLE

Model	Part Number
1.5" Strainer	STR-IS-1.5-PVC
2" Strainer	STR-IS-2.0-PVC

## SUCTION SCREEN FEATURES

