

# SURE-FLO

Self-Cleaning  
Strainers

*Quality and Service Since 1932*



Sure-Flo has been the leader in self-cleaning strainer technology for more than 25 years. Outstanding product quality and unrivaled service are the reasons our customers keep coming back. Our products simply work better and offer better value.

The benefits of Sure-Flo self-cleaning strainers are the result of continuous engineering improvement. They are built better and offer superior cleaning to maximize the performance of your irrigation system.

## Product Features and Benefits

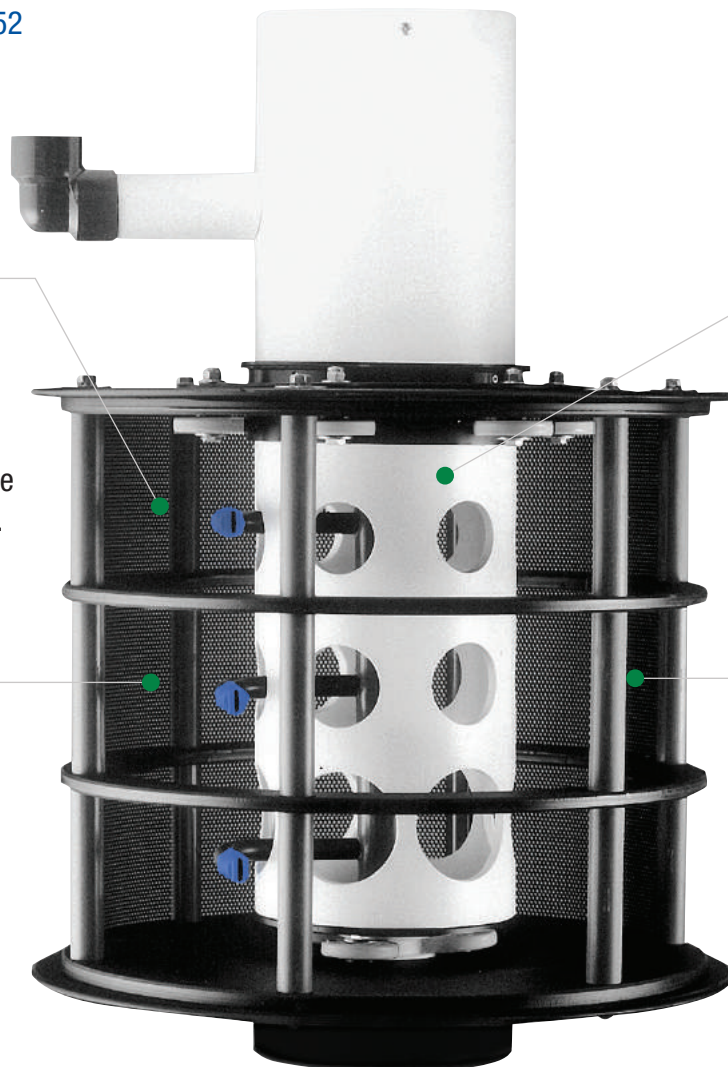
US Patent Number 5993652

### Superior Cleaning:

Screen revolves around the suction line, while stationary nozzles blow off and push away debris, creating a debris-free zone around the pump's intake.

### Saves Time and Money:

With a clean suction screen, your pump operates efficiently, delivering water to your field in less time and using less energy.



### Built Better:

Internal suction tube creates even through-screen velocity, utilizing the entire height of the cylinder screen.

### Built to Last:

Sure-Flo uses stainless steel hardware, rugged, buoyant, high-density polyethylene HDPE plastics, as well as a screen made from an aluminum sheet.

**It all adds up to improving the efficiency of your pump, and improving your bottom line.**

## Single Drive: Required backwash pressure 60 or 65 psi (nozzles on one side)



Standard Aluminum Screen 3/32" Holes

Single Drive Aluminum Screen								
Model Number	Strainer Capacity GPM	m <sup>3</sup> /hr	GPM Used to Backwash	Pressure Needed to Backwash	Supply Line Size	Screen Dimensions Height x Width	Weight (lbs.)	Overall Height
SCS2	50	11	See Page 4					
SCS3	160	36	8	60 psi	1"	6" X 10.5"	10	15.5"
SCS4	325	74	16	60 psi	1"	12" X 10.5"	13	21.5"
SCS6	625	142	24	60 psi	1"	14.25" X 16.5"	25	26"
SCS8	1150	261	32	60 psi	1.5"	21.75" X 20"	34	33"
SCS10	1500	341	43	65 psi	2"	24" X 24"	55	35.5"
SCS10BB	1900	432	51	65 psi	2"	30" X 24"	65	41.5"
SCS10XL	2500	568	77	65 psi	2"	30" X 30"	90	41.5"
SCS12XL	2500	568	77	65 psi	2"	30" X 30"	90	41.5"

## Foot Valves: For Self-Cleaning Strainers

A conversion tube connects the foot valve to the strainer. The conversion tube easily slides over the strainer neck and is firmly secured with pre-installed stainless bolts. With the addition of this conversion tube, existing foot valves can also be modified to work with Sure-Flo self-cleaning strainers.



Detail of foot valve seat ring with a cast socket conversion tube



Detail of foot valve for self-cleaning strainer



Detail of foot valve connected to a self-cleaning strainer

### 45° Foot Valve:



45° Foot Valve: O.D. tubing, 3" to 10"



45° Foot Valve: Female NPT thread, 3" to 10"



45° Foot Valve: Companion flange, 3" to 10"

### Vertical Foot Valve:



Vertical Foot Valve: O.D. tubing, 3" to 10"



Vertical Foot Valve: Female NPT thread, 3" to 10"



Vertical Foot Valve: Companion flange, 3" to 12"

## Dual Drive: Required backwash pressure 45 psi (nozzles on two sides)



Standard Aluminum Screen 3/32" Holes

Dual Drive Aluminum Screen							
Model Number	Strainer Capacity GPM	m <sup>3</sup> /hr	GPM Used to Backwash	Supply Line Size	Screen Dimensions Height x Width	Weight (lbs.)	Overall Height
SCS3-DD	200	45	14	1"	6" X 10.5"	10	15.5"
SCS4-DD	400	91	28	1"	12" X 10.5"	14	21.5"
SCS6-DD	725	165	42	1.5"	14.25" X 16.5"	25	26"
SCS8-DD	1450	330	56	2"	21.75" X 20"	35	33"
SCS10-DD	1875	426	70	2"	24" X 24"	55	35.5"
SCS10BB-DD	2350	534	84	2.5"	30" X 24"	65	41.5"
SCS10XL-DD	2950	670	84	2.5"	30" X 30"	90	41.5"
SCS12XL-DD	2950	670	84	2.5"	30" X 30"	90	41.5"



Aluminum Screen with Stainless Mesh

Dual Drive Aluminum Screen with Stainless Steel Mesh							
18 Mesh S. S. Model Number	Strainer Capacity GPM	m <sup>3</sup> /hr	GPM Used to Backwash	32 Mesh S. S. Model Number	Strainer Capacity GPM	m <sup>3</sup> /hr	GPM Used to Backwash
SCS3-DD-M18	140	32	14	SCS3-DD-M32	120	27	14
SCS4-DD-M18	300	68	28	SCS4-DD-M32	255	58	28
SCS6-DD-M18	550	125	42	SCS6-DD-M32	475	108	42
SCS8-DD-M18	1025	232	56	SCS8-DD-M32	880	200	56
SCS10-DD-M18	1330	302	70	SCS10-DD-M32	1140	260	70
SCS10BB-DD-M18	1675	380	84	SCS10BB-DD-M32	1440	327	84
SCS10XL-DD-M18	2100	477	84	SCS10XL-DD-M32	1800	409	84
SCS12XL-DD-M18	2100	477	84	SCS12XL-DD-M32	1800	409	84



Perforated Stainless Screen  
.117" Perf. 16ga 316SS

Dual Drive Perforated Stainless Steel Screen (55 psi required)							
Model Number	Strainer Capacity GPM	m <sup>3</sup> /hr	GPM Used to Backwash	Supply Line Size	Screen Dimensions Height x Width	Overall Height	
SCS3-DD-SS	190	43	16	1"	6" X 10.5"	15.5"	
SCS4-DD-SS	380	86	32	1"	12" X 10.5"	21.5"	
SCS6-DD-SS	675	153	48	1.5"	14.25" X 16.5"	26"	
SCS8-DD-SS	1350	307	64	2"	21.75" X 20"	33"	
SCS10-DD-SS	1780	403	80	2"	24" X 24"	35.5"	
SCS10BB-DD-SS	2200	498	96	2.5"	30" X 24"	41.5"	
SCS10XL-DD-SS	2700	612	96	2.5"	30" X 30"	41.5"	
SCS12XL-DD-SS	2700	612	96	2.5"	30" X 30"	41.5"	

# The Sure-Flo Difference – continuous engineering improvements

## Superior Cleaning saves you time and money

Screens that revolve past stationary internal nozzles clean best. As the screen rotates past the nozzles, debris is blown off and pushed away from the strainer. The directional spray is effective at shedding debris and moving it far enough away that it doesn't become re-attached.

A clean suction screen lets the pump run efficiently, saving energy and getting water to the field faster. Not having to stop the pump to clean debris saves time and lowers maintenance costs.

## Better Engineering, Better Value

Built with strong, lightweight, buoyant HDPE plastics to maximize the strength of the strainer skeleton, without adding unnecessary weight.

The strainer is made of a rigid powder-epoxy coated, perforated aluminum sheet, not wire mesh like competitive products. This makes it stronger and more durable.

High-performance, abrasion-resistant Delrin plastic injection-molded wear parts are strong, and easily and inexpensively replaced.

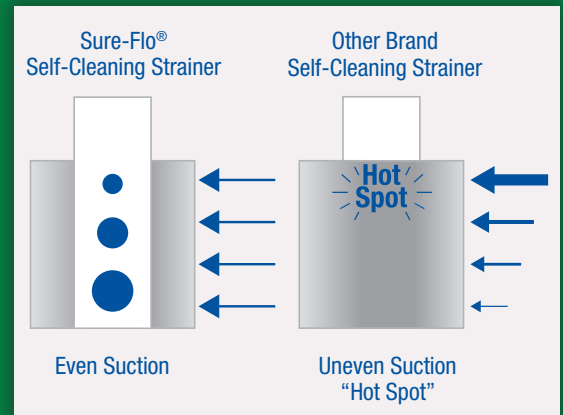
All hardware is stainless steel for worry free durability.

## Fish-friendly –

Small strainer screen holes and low-velocity water flows meet government regulations for protection of fish. The ultra-efficient design of the Sure-Flo system – with rotating screen and cleaning nozzles – allows the screen holes to be smaller than those of other strainers. The smaller holes also offer better protection of the pump, in many cases eliminating the need for a filter.

## We Eliminate Hot Spots

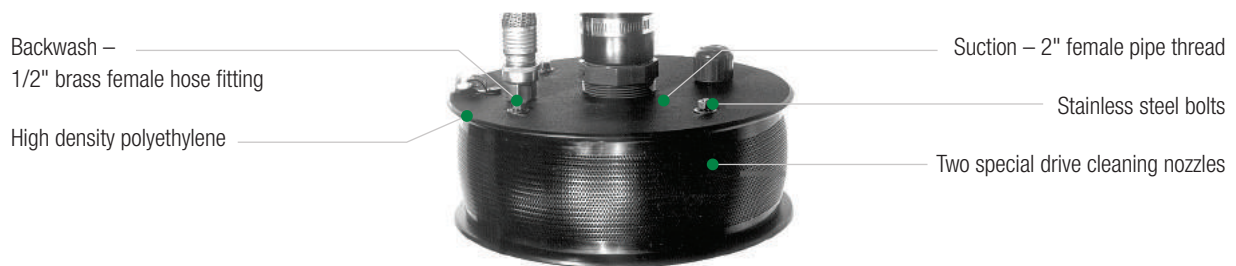
Our strainers are designed with internal PVC suction tube with smaller holes at the top, (nearer to the pump), and larger holes at the bottom (farther from the pump) to even the draw or suction across the entire height of the cylinder screen. This prevents water from flowing in harder at the top of the screen, which leads to "hot spots." (Clogging). Our screens utilize the full surface area for extremely consistent through-screen velocity, which maximizes the effectiveness of the cleaning nozzles.



## SCS2: 50 gpm Self-Cleaning Strainers

### How these strainers work.

A small amount of water is returned from the discharge side of the pump to the strainer. Inside, two special nozzles spray against the screen, causing it to revolve. Any debris (e.g., algae, aquatic plants, or leaves) attracted to the screen is blasted off every half revolution. Strainers operate in any position, and require only 35 psi to operate.



Model Number	Strainer Capacity GPM	Capacity m3/hour	GPM to Backwash	Backwash Pressure	Supply Line Size	Screen Diameter	Screen Height	Weight (lbs.)
SCS2	50	11	5	35 psi	5/8"	10.5"	3.5"	5

When you look at what matters most – dependable, durable performance that saves time, energy and money – Sure-Flo is the only choice. We have set the standard for irrigation technology for more than a quarter century, and continue to lead the industry in product design.

**SURE-FLO**®

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