

INNOVATION & LOGIC

Sanitary Basket Strainers

• Food • Beverage • Pharmaceutical
and other high quality processing applications

SANICLEAN
 **Strainers**™

- Basket Strainers
- Hi-Capacity Basket Strainers
- Wire Mesh Liner Basket
- Wedge Wire Strainer Basket
- Filter Bags



 **Newark**
WIRE CLOTH COMPANY

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INNOVATION & LOGIC

Sanitary Strainers...Built To Satisfy



The Newark Wire Cloth Company and Andron Stainless – a manufacturer of sanitary fittings and components have collaborated on several custom strainer projects over the last several years. During this time, many requests were received to provide “Industry Standard” strainers.

We are now pleased to introduce our complete product line of ***SaniClean Sanitary Basket Strainers***; ideal for food, beverage, pharmaceutical, and other high quality processing applications.

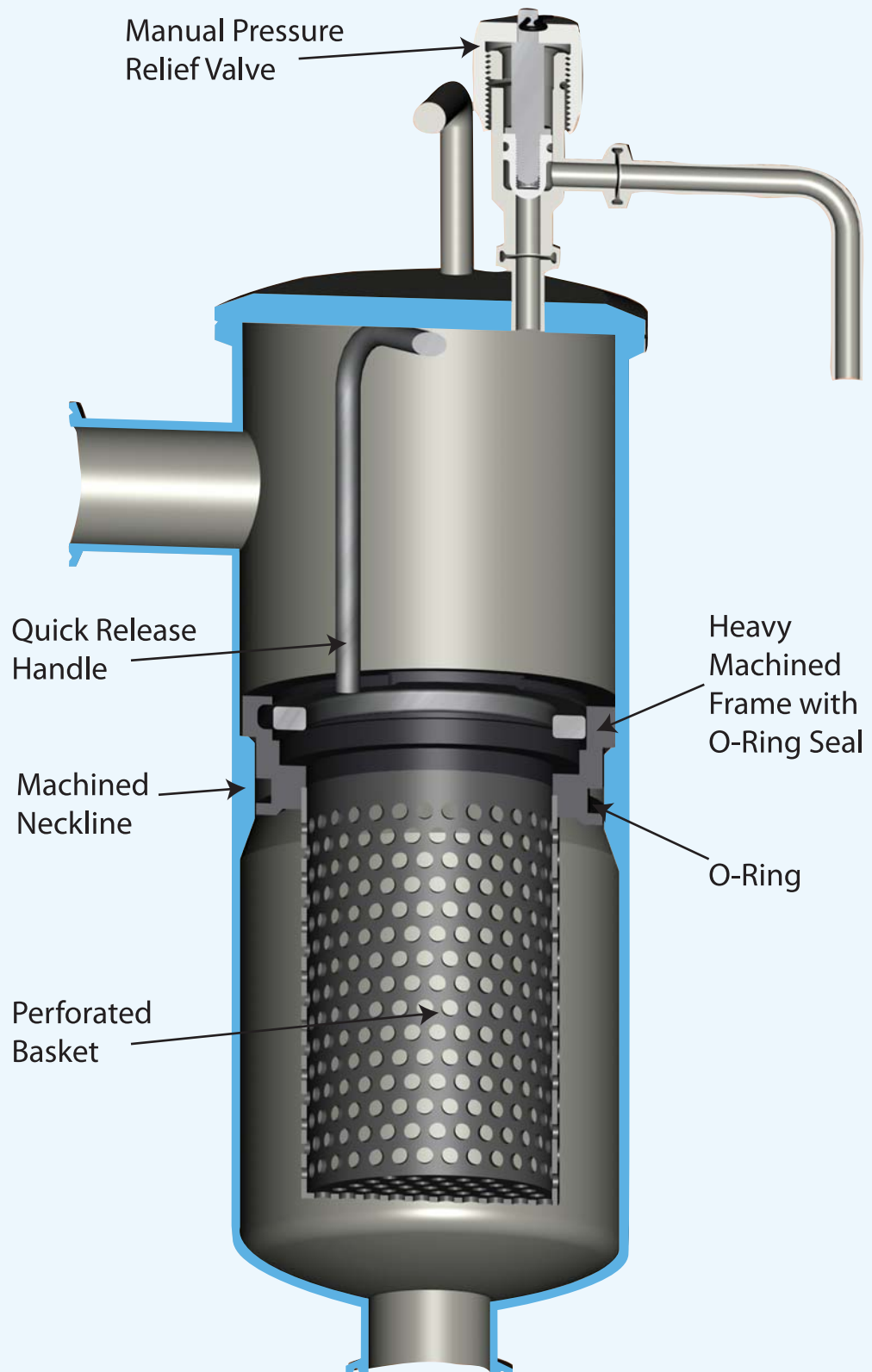
- Improve product quality! Extremely cost effective
- Quality Crafted! All components fit together properly – user friendly!
- Quick to Disassemble! Easy to Assemble! Minimize costly down time!
- Protects other more costly processing equipment (spray nozzles, heat exchangers, pumps, etc.)
- Rugged construction – able to withstand the rigors of 24/7 production cycles
- All SaniClean Strainers are cleanable

SaniClean’s Basket Strainers are available in a wide range of sizes with standard surface areas to range from 0.5 s/f to 4.5 s/f. SaniClean Basket Strainer system offers two different “standard” strainer housing styles (Style R and Style S). Same strainer basket fits either style housing – strainer baskets interchangeable! Built to satisfy the user’s specific needs.

- **Coarse straining** (perforated strainer basket only)
- **Medium straining** (perforated strainer basket with a Wire Mesh Liner Basket)
- **Fine filtration** (perforated strainer basket with a filter bag)
- Strainer housings can be outfitted with a Wedge Wire Strainer Basket

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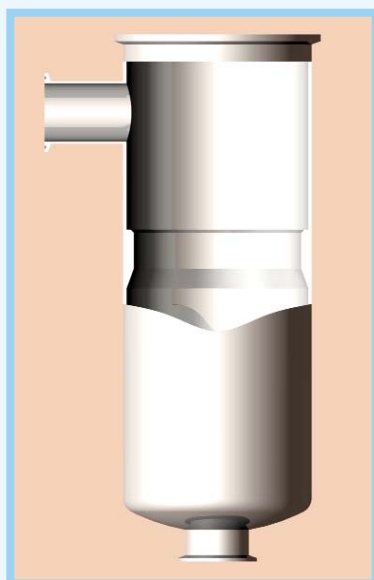
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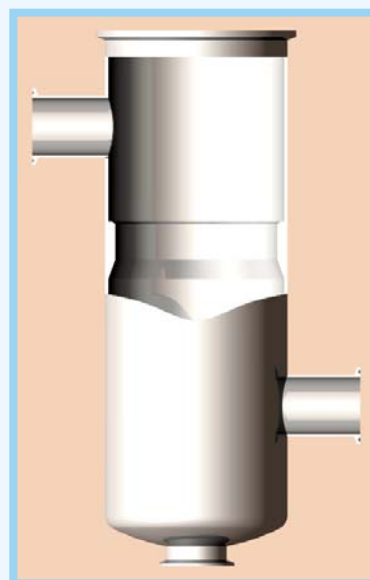
NOTE:

1. Housing shown with clamped connection
2. Clamp not shown for clarity
3. Style "R" housing shown

STRAINER HOUSING OPTIONS



STYLE "R"
Side Inlet/Bottom Outlet



STYLE "S"
Side Inlet/Side Outlet/ Bottom Drain

SaniClean Strainer Housing Ordering Information Key

R = Strainer Style

R or S

863 = Strainer Diameter

863 = 8-5/8" OD Housing

600 = 6" OD Housing

663 = 6-5/8" OD Housing

450 = 4-1/2" OD Housing

L = Strainer Length

S = Short, M = Medium, L = Long

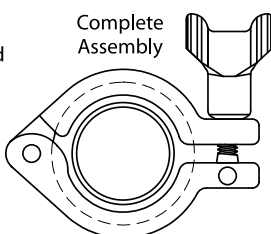
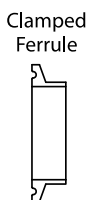
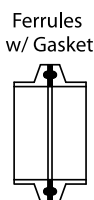
30 = Strainer Inlet / Outlet Size

10 = 1.0" connection, 15 = 1.5" connection, 20 = 2.0" connection, 25 = 2.5" connection, 30 = 3.0" connection, and 40 = 4.0" connection

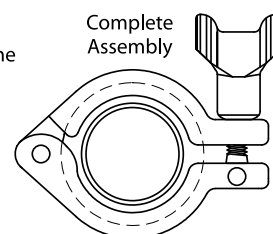
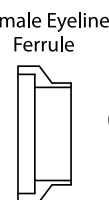
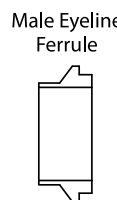
R 863 L 30

PIPING CONNECTION OPTIONS

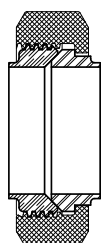
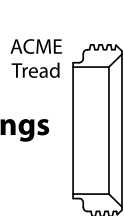
Clamped Fittings



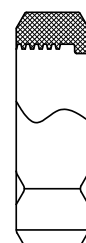
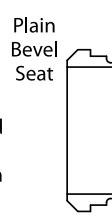
Eye Line Fittings



Bevel Seat Fittings



Assembled
Bevel
Seat Union



Hex
Nut

*Clamped connection
is standard unless
otherwise specified.*

TEN DIFFERENT STRAINER BASKET OPTIONS

Get the exact type of Strainer Basket you require for your application!

For either a **Style R** or **Style S** SaniClean Strainer housing, the Strainer Basket is the same. Versatile! Flexible! Interchangeable! The same Strainer Basket can be installed in either style housing. The Strainer Basket is built to suit the exact needs of the application.

For critical applications, the Strainer Basket has an O-Ring seal between the strainer basket and the strainer housing, for other "less critical" applications the Strainer Basket can be supplied with a "simple" OD x ID flange – no O-Ring seal.

All SaniClean Strainer Housings (Style R or Style S) can be fitted with any one of the following Strainer Basket configurations options.

Key To Model Designation shorthand

P = Perforated Strainer Basket

FB = Filter Bag

WC = Wire Cloth Basket

WW = Wedge Wire Basket

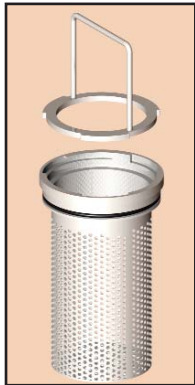
1 = 11 ga. OD x ID Flange

2 = Heavy machined flange with O-Ring groove

3 = Fixed Handle welded in place – not removable

4 = Removable Handle – Quick Release Handle Assembly

P WC 2-4



Model: P2-4

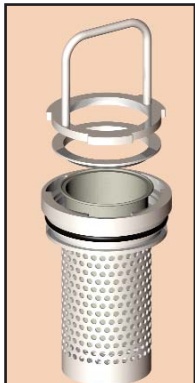
Perforated Strainer Basket with a Quick Release Handle

- Heavy Machined Flange (with O-Ring) for seal between strainer basket and strainer housing.
- 14 ga. (0.078" thick) perforated sheet having 1/4" dia. holes, 3/8" staggered centers, 40% Open Area is standard. The Perforated Strainer Basket can be supplied with any size hole and perforated pattern required.
- Shown with Quick Release Handle.

Model: PWC2-4

Perforated Strainer Basket with Wire Mesh Liner Basket to be used with a Quick Release Handle

- Heavy Machined Flange (with O-Ring) for seal between strainer basket and strainer housing.
- 14 ga. (0.078" thick) perforated sheet having 1/4" dia. holes, 3/8" staggered centers, 40% Open Area is standard. Perforated Strainer Basket can be supplied with any size hole and perforated pattern required.
- Wire Mesh Liner Basket is removable, and cleanable. A "flat" gasket is used between the Wire Mesh Liner Basket and the seating surface on the Heavy Machined Flange. Wire Mesh Liner Baskets available in all mesh specifications.
- Shown with Quick Release Handle.



Model: PFB2-4

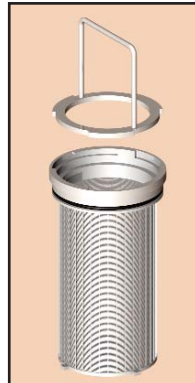
Perforated Strainer Basket with Filter Bag with Quick Release Handle

- Heavy Machined Flange (with O-Ring) for seal between strainer basket and strainer housing.
- 14 ga. (0.078" thick) perforated sheet with 1/4" dia. holes, 3/8" staggered centers, 40% Open Area is our 'standard'. The Perforated Strainer Basket can be supplied with any size hole and perforated pattern required.
- All SaniClean Basket Strainers are built to accept industry standard Filter Bags. Filter Bags are available in different materials, types of weaves, and ranging in retention rate from 1 – 1500 microns. (See page 10).
- Shown with Filter Bag Hold Down Ring
- Shown with Quick Release Handle.

Model: WW2-4

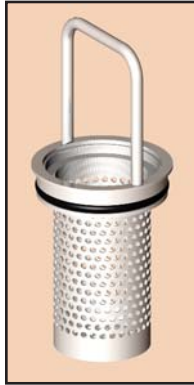
Wedge Wire Strainer Basket with Quick Release Handle

- Heavy Machined Flange (with O-Ring) for seal between strainer basket and strainer housing.
- Wedge Wire (Slotted Screen) is preferred in some applications. Wedge Wire Strainer Baskets are available with any slot size from 0.003" (80 microns).
- Shown with Quick Release Handle.



ADDITIONAL STRAINER BASKET OPTIONS

For some applications, modifying the standard strainer basket slightly will not compromise the application, but reduces cost. A round rod handle can be welded directly to the heavy machined flange. This eliminates the need for the Quick Release Handle. An O-Ring seal between the strainer basket and the strainer housing remains. Handle not removable.



Model: P2-3

Perforated Strainer Basket with a fixed round rod handle

- Heavy Machined Flange (with O-Ring) for seal between strainer basket and strainer housing.
- 14 ga. (0.078" thick) perforated sheet having 1/4" dia. holes, 3/8" staggered centers, 40% Open Area is standard. Perforated Strainer Basket can be supplied with any size hole and perforated pattern required.
- Handle is welded to the top of the heavy machined flange. Handle not removable.



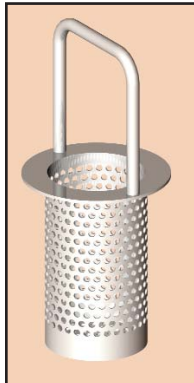
Model: WW2-3

Wedge Wire Strainer Basket with a fixed round rod handle

- Heavy Machined Flange (with O-Ring) for seal between strainer basket and strainer housing.
- 14 ga. (0.078" thick) perforated sheet having 1/4" dia. holes, 3/8" staggered centers, 40% Open Area is standard. Perforated Strainer Basket can be supplied with any size hole and perforated pattern.
- Handle is welded to the top of the heavy machined flange. Handle not removable.

MORE STRAINER BASKET OPTIONS

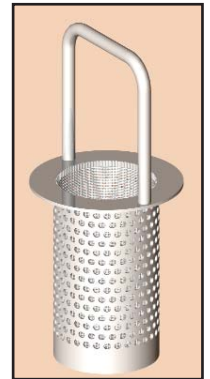
For **less critical applications** heavy machined flange and removable Quick Release Handle Assembly are eliminated. Strainer baskets more cost effective. Replace heavy machined flange with an 11 ga (0.120" thick) OD x ID flange. Replace Quick Release Handle Assembly with a fixed handle. No O-Ring seal between strainer basket and the strainer housing.



Model: P1-3

Perforated Strainer Basket with an 11 ga (0.120" thick) OD x ID flange

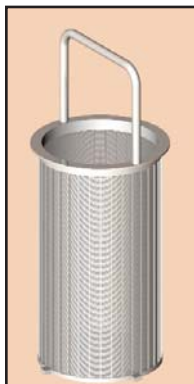
- OD x ID 11 ga. flange welded to top open end of perforated basket. Metal to metal seal between machined neckline of housing and basket flange.
- 14 ga. (0.078" thick) perforated sheet having 1/4" dia. holes, 3/8" staggered centers, 40% Open Area is standard. Perforated Strainer Basket can be supplied with any size hole and perforated pattern.
- Removable Wire Mesh Liner Basket or a Filter Bag not available.
- Handle welded to top of heavy machined flange. Handle not removable.



Model: PWC1-3

Perforated Strainer Basket with an 11 ga (0.120" thick) OD x ID flange and lined with wire mesh – fixed handle

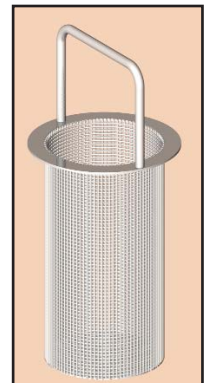
- OD x ID 11 ga. flange welded to top open end of perforated basket. Metal to metal seal between machined neckline of housing and basket flange.
- 14 ga. (0.078" thick) perforated sheet with 1/4" dia. holes, 3/8" staggered centers, 40% Open Area is standard. Perforated Strainer Basket supplied with any size hole and perforated pattern.
- Wire Mesh Liner Basket welded to perforated support basket. Wire mesh liner not removable. Wire mesh liners available in all mesh specifications.
- Handle welded to top of 11 ga. flange. Handle not removable.



Model: WW1-3

Wedge Wire Strainer Basket with a 11 ga (0.120" thick) OD x ID flange - fixed handle

- OD x ID 11 ga. flange welded to top open end of wedge wire strainer basket. Metal to metal seal between machined neckline of housing and basket flange.
- Wedge Wire (Slotted Screen) preferred in some applications. Wedge Wire Strainer Baskets available with any slot size from a small of 0.003" (80 microns).
- Handle welded to top of 11 ga flange. Handle not removable.



Model: WC1-3

Wire Cloth Strainer Basket with an 11 ga (0.120" thick) OD x ID flange - fixed handle

- OD x ID 11 ga. flange welded to top open end of wire mesh strainer basket. Metal to metal seal between machined neckline of housing and basket flange.
- Wire Mesh Strainer Basket welded directly to the 11 ga flange. These wire mesh strainer baskets are fabricated using only coarse mesh specifications (3/8" opening or greater). Many wire cloth specifications when used alone, without a perforated basket to help support the mesh, are too delicate to withstand the demands of the application.
- Handle is welded to the top of 11 ga flange. Handle is not removable.

STRAINER BASKETS

SaniClean's standard Strainer Baskets are supplied with a "flat" bottom – 14 ga. (0.078" thick) side walls and an 11 ga. (0.120" thick) bottom. SaniClean's perforated Strainer Basket can be used alone, with a Wire Mesh Liner Basket, or with a Filter Bag.

SaniClean Strainer Baskets can be supplied with any perforated hole size and pattern possible – just ask!



Perforated basket with wire mesh liner basket.



Perforated basket with filter bag.



Perforated basket.

**All strainer baskets shown with Quick Release Handle.*

PERFORATED STRAINER BASKET FEATURES

QUICK RELEASE HANDLE

SaniClean's Quick Release Handle allows for easy insertion and quick removal of the strainer basket from the strainer housing.



The Quick Release Handle is simple to use – align and engage the (3) tabs on the OD of the Quick Release Handle flange with the milled “cut-outs” on the ID of the machined flange on the perforated basket. A quick twist of the Quick Release Handle engages or disengages it from the perforated basket.

When engaged the perforated basket can be easily and safely moved, installed, or removed from the strainer housing. Disengaging, and removing it allows for full access to the inside of the perforated basket; for cleaning, inspection or replacement of the Wire Mesh Liner Basket or Filter Bag.

The Quick Release Handle's function is to keep the perforated strainer basket fully seated against the machined neckline of the strainer housing, ensuring that the product being processed does not bypass the strainer basket assembly.

Rugged construction is the key! Quality construction built for the rigors of 24/7 production!



SaniClean's Perforated Strainer Basket shown with ¼" diameter holes, machined flange for use with Quick Release Handle. Viton O-Ring is installed on basket.



SaniClean's Quick Release Handle has (3) tabs on OD of flange that engage with the milled “cut-outs” on the ID of the machined flange welded to the top of the perforated basket.



Quick Release Handle engaged with the perforated basket's machined flange.

WIRE MESH LINER BASKET

SaniClean Strainer Baskets can be supplied with a removable Wire Mesh Liner Basket.

The Wire Mesh Liner Basket is supplied complete with a stainless steel spun angle ring with a removable handle. The underside of the spun ring is fitted with a gasket to ensure the proper seal between the perforated strainer basket and the Wire Mesh Liner Basket. The Wire Mesh Liner Basket can be fabricated using any wire mesh specification required.

All Wire Mesh Liner Basket seams are continuously welded – no loose wires!

Our manufacturing technique ensures a constant “snug slip fit” between the OD of the mesh liner basket and the ID of the perforated strainer basket – regardless of mesh size or mesh thickness – a constant fit from one strainer to the next – complete interchangeability!



SaniClean Strainer Basket shown with the Quick Release Handle in place and the Wire Mesh Liner Basket installed in the perforated basket – ready to be loaded into the strainer housing.



SaniClean's Wire Mesh Liner Basket shown partially inserted into the perforated basket.

Wire Cloth Micron Retention Table (Market Grade)

Mesh Count	Wire Diameter		Opening Size		Equivalent Micron Opening Size	Open Area Percentage
	(inches)	(mm)	(inches)	(mm)		
2 x 2	0.063	1.6002	0.4370	11.100	11099	76.4%
3 x 3	0.054	1.3716	0.2793	7.095	7095	70.2%
4 x 4	0.047	1.1938	0.2030	5.156	5156	65.9%
5 x 5	0.041	1.0414	0.1590	4.039	4038	63.2%
6 x 6	0.035	0.8890	0.1317	3.344	3344	62.4%
8 x 8	0.028	0.7112	0.0970	2.464	2463	60.2%
10 x 10	0.025	0.6350	0.0750	1.905	1905	56.3%
12 x 12	0.023	0.5842	0.0603	1.532	1532	52.4%
14 x 14	0.020	0.5080	0.0514	1.306	1306	51.8%
16 x 16	0.018	0.4572	0.0445	1.130	1130	50.7%
18 x 18	0.017	0.4318	0.0386	0.979	979	48.2%
20 x 20	0.016	0.4064	0.0340	0.864	863	46.2%
24 x 24	0.014	0.3556	0.0277	0.703	702	44.1%
30 x 30	0.013	0.3302	0.0203	0.516	516	37.2%
40 x 40	0.010	0.2540	0.0150	0.381	381	36.0%
50 x 50	0.009	0.2286	0.0110	0.279	279	30.3%
60 x 60	0.0075	0.1905	0.0092	0.233	232	30.3%
80 x 80	0.0055	0.1397	0.0070	0.178	177	31.4%
100 x 100	0.0045	0.1143	0.0055	0.140	139	30.3%
120 x 120	0.0037	0.0940	0.0046	0.118	117	30.9%
150 x 150	0.0026	0.0660	0.0041	0.103	103	37.2%
200 x 200	0.0021	0.0533	0.0029	0.074	73	33.6%
250 x 250	0.0016	0.0406	0.0024	0.061	60	36.0%
270 x 270	0.0016	0.0406	0.0021	0.053	53	32.3%
325 x 325	0.0014	0.0356	0.0017	0.043	42	29.7%
400 x 400	0.0010	0.0254	0.0015	0.038	38	36.0%
500 x 500	0.0010	0.0254	0.0010	0.025	25	25.0%
635 x 635	0.0008	0.0203	0.0008	0.020	20	24.2%

Helpful Definitions -

Market Grade Wire Cloth - The term applied to the most commonly used wire cloth specifications for a range of wire cloth from as coarse as 2 mesh (11099 microns) to as fine as a 635 mesh (20 microns). The Market Grade specification pairs a mesh count with a specific wire diameter.

Mesh - The number of openings per linear inch, measured from the center of any selected wire. The Mesh Count of any wire cloth specification technically consists of two mesh counts; the first is the number of openings per linear inch down the length of the roll and the second is the number of openings per linear inch across the width of the roll. A Square Mesh has an equal count in both directions; down the length of the roll and across the width of the roll. Wire Cloth mesh specifications having an equal count in both directions is often abbreviated; for example a 10 x 10 mesh may be simply called a 10 mesh.

Opening or Aperture - The distance between or open space between the facing edges of two adjacent parallel wires.

Open Area Percentage - The proportion of the total screen area that is open (not wires) as compared to the total screen area.

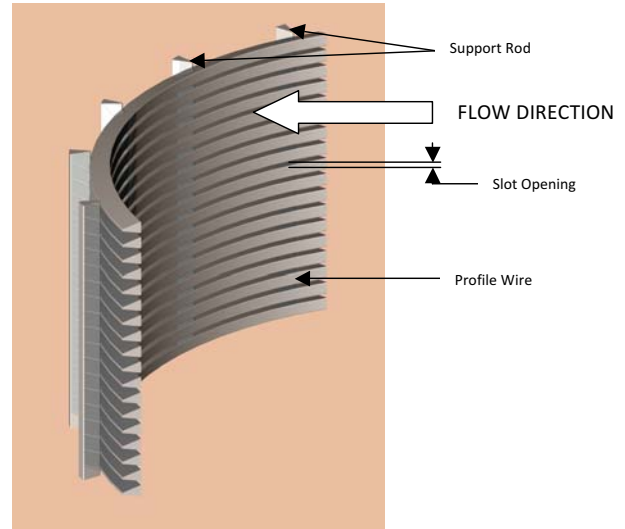
WEDGE WIRE STRAINER BASKETS

For processing applications which specify other than standard Perforated Strainer Basket, SaniClean Basket Strainers are also available with a Wedge Wire Strainer Basket.

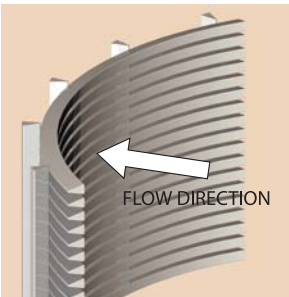


SaniClean's Hi-Capacity Wedge Wire Strainer Basket shown with a Reverse Formed Wedge Wire strainer element having a 0.026" (530 microns) slot opening. Basket is welded to machined basket flange – shown with Rod Handle welded directly to flange.

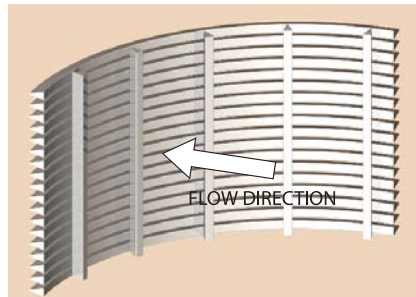
(Strainer Basket Style: WW2-3)



Wedge Wire Strainer Baskets are available for all SaniClean Basket Strainers. They are fabricated, as shown above with a Reverse Formed Wedge Wire Strainer element, or with the Inverted Wrap strainer element style. The Inverted Wrap strainer element construction alternative is used when the strainer basket's diameter is too small to use the standard Reverse Formed construction style.



Reverse Formed features external support rods which provide for a smooth, unobstructed screen surface on the inside of the strainer basket.



Inverted Wrap has internal support rods with the face of the profile wire facing inward – enables fabrication of smaller diameter strainer baskets.

Standard Wire Profiles and Sizes

No. 30 .030 .080	No. 40 .040 .075	No. 47 .047 .095
No. 60 .060 .100	No. 90 .090 .140	No. 125 .125 .200
No. 177 .177	No. 250 .250	CUSTOM W L

Wedge Wire Strainer Baskets can be fabricated to accommodate higher pressure drop applications. By using a heavier profile wire and or support wire the burst strength of the wedge wire element can be increased. Using heavier profile wires will affect the resulting open area of the strainer element. Please consult us concerning your specific application.

Helpful Formulas

$$\text{Open Area} = \frac{\text{Slot Size}}{(\text{Slot Size} + \text{Face of Profile Wire})}$$

$$\text{Percent of Open Area} = \frac{\text{Slot Size}}{(\text{Slot Size} + \text{Face of Profile Wire})} \times 100$$

$$\text{Surface Area} = (\text{Screen Diameter} \times 3.1416 \times \text{Net Screen Length})$$

$$\text{Actual Open Area} = \text{Surface Area} \times \text{Open Area}$$

FILTER BAGS FOR SANICLEAN BASKET STRAINERS

SaniClean's Strainer Baskets can be used with Filter Bags.

When using a Filter Bag (with a Stainless Steel ring sewn into the top of the bag), the bag seats in a "cut-out" of the machined ring welded to the top of the perforated support basket. A Filter Bag Hold Down Ring holds the Filter Bag in position while being held in place by the Quick Release Handle.

SaniClean Strainer Basket shown at right with Quick Release Handle in place and the Filter Bag installed in the perforated basket – ready to be loaded into the strainer housing.



SaniClean Strainers is pleased to offer a complete line of Filter Bags. SaniClean's Sanitary Basket Strainers product line has been designed so that the different sized strainer baskets will accept *industry standard* Filter Bags, and more! We also have Filter Bags available for the SaniClean Sanitary Basket Strainers that don't correlate with an *industry standard* Filter Bag size (see table below) -

SaniClean Strainer (Model Number)	Bag Size (Square Feet)	Strainer Bag (Trade Size Number)	Bag Diameter (inches)	Bag Length (inches)
863 SHORT	2.00	1	7"	16.5"
863 LONG	4.50	2	7"	32"
450 SHORT	0.50	Custom Size	3.50"	10.5"
450 MEDIUM	0.90	Custom Size	3.50"	22"
450 LONG	1.15	Custom Size	3.50"	31.5"



Felt Bags – Filtration felt is a low cost disposable media with depth-filtration qualities and high-solids loading capacity. We recommend using only filtration felts with a glazed or singed outer finish to minimize fiber migration from the filter surface. Felt bags are available in micron ratings from 1 to 200 microns.



Monofilament Bags – Monofilament mesh is an extremely strong material woven on precision equipment to ensure consistent pore sizes. It can be re-useable in many applications. Nylon is the most widely used monofilament material. Monofilament mesh bags are available in micron ratings from 1 to 1200 microns.

Multifilament Bags – Multifilament mesh is a low cost, disposable filter media. Multifilament mesh is available in polyester and nylon. Multifilament mesh bags are available in micron ratings from 75 to 1500 microns.

MATERIAL SELECTION – Filter Bags are available in Polyester, Polypropylene, Nylon, Nomex, and Teflon.X

Standard Material Micron Ratings Chart

Use the "Available Micron Ratings" chart to determine the available micron ratings for a given material.

MATERIAL	AVAILABLE MICRON RATINGS																			
	1	3	5	10	15	25	40	50	75	100	125	150	200	250	300	400	600	800	1200	1500
FELT																				
Polyester Singed	o	o	o	o		o		o	o	o		o	o							
Polypropylene Glazed	o	o	o	o		o		o	o	o			o							
Nylon	o		o	o		o		o	o	o										
Nomex	o		o	o		o		o		o										
Teflon				o																
MONOFILAMENT MESH																				
Polyester									o	o	o	o	o	o	o	o		o		
Polypropylene												o	o		o	o	o	o		
Nylon	o		o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	
MULTIFILAMENT MESH																				
Polyester									o	o	o	o	o	o	o	o	o	o		o
Nylon												o	o					o		

Temperature Limitations of Standard Filter Bag Materials

MATERIALS	MAXIMUM TEMPERATURE
Polyester	300°F
Polypropylene	200°F
Nylon	300°F
Nomex	400°F
Teflon	500°F

Filter material temperature limits are approximate and will vary different applications. Testing with specific media is recommended whenever the temperature limits noted above are approached.

BAG DESIGN

- SaniClean's "standard" Filter Bag comes with a Stainless Steel top ring for all size strainers.
- For all Polyester Felt Filter Bags it is suggested that the filter bag material be "singed" prior to fabrication. This added quality step helps minimize any fiber migration from the outer surface of the bag.
- For all Polypropylene Felt Filter Bags it is suggested that the filter bag material be "glazed" prior to fabrication. This added quality step helps minimize any fiber migration from the outer surface of the bag.
- All Filter Bags can be supplied with handles or pull tabs sewn in, to ease filter bag removal.

SaniClean Filter Bag Ordering Information

SaniClean **SAMPLE** Part Number

Example

663S-100-PES-1

① ② ③ ④

①	②	③	④
STRAINER MODEL NUMBER WITH STANDARD TRADE FILTER BAG NUMBER	NOMINAL MICRON RATING	FILTER BAG MATERIAL	MATERIAL TYPE
863S-1	1 - 1500 Microns	PES = Polyester	1 = Felt
863L-2	(See Page 11)	PPR = Polypropylene	2 = Monofilament Mesh
600S-3		NYL = Nylon	3 = Multifilament Mesh
600L-4		NOM = Nomex	
663S-7		TEF = Teflon	
663M-8			
663L-9			
450S	See Page 11 for Filter Bag material details: Nominal Micron Rating, Filter Bag material types, and weave types		
450M			
450L			

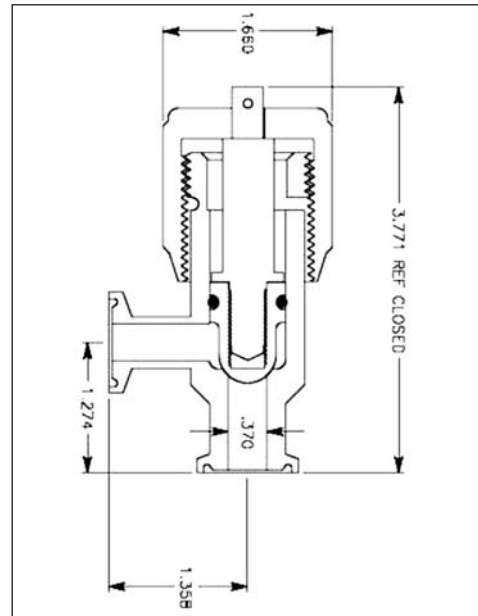
EXAMPLE -

663S-100-PES-1	
①	663S – Standard Trade Filter Bag #7
②	100 – 100 microns
③	PES – Polyester
④	1 – Felt

863L-25-NYL-2	
①	863L – Standard Trade Filter Bag #2
②	25 microns
③	NYL – Nylon
④	2 – Monofilament Mesh

Manual Pressure Relief and/or Sampling Valve

- 316L Stainless Steel Construction
- Machined from Solid Bar Stock ensuring a better quality valve
- All surfaces machined to a 32Ra finish or better.
- “Standard” valve is fitted with a 1/2” Clamped Connection for both Product discharge and Vessel Connection – (other types of connections are available upon request)
- Large Knurled UHMW Handle
- Elongated elbow attachment available for added operator safety when relieving line pressure or sampling.
- Viton O-Ring and Gasket



Pressure Relief Valve installed on HI-Capacity Basket Strainer—shown with extended assembly elbow attached to valve



Pressure Relief Valve— 316L SS body with UHMW knurled handle



Manual Pressure Relief Valve Kit

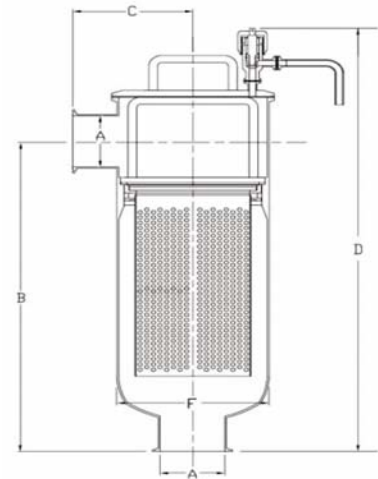
Summary Page

Style R Housing

Shown with Strainer Basket Style - P2-4
(heavy machined flange with O-Ring Seal).

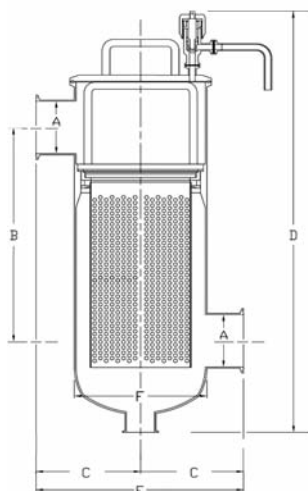
Shown with Quick Release Handle

Shown without a Wire Mesh Liner Basket or Filter Bag for clarity.



SANICLEAN'S BASKET STRAINERS									
SANICLEAN STRAINER MODEL	STANDARD FILTER BAG TRADE SIZE NUMBER (If available)	BASKET AREA (square feet)	SANICLEAN SMART PART NUMBER	STYLE R SANICLEAN STRAINER ITEM NUMBER	A INLET/OUTLET SIZES (Clamped)	B CENTERLINE OF INLET TO FACE OF OUTLET (Inches)	C CENTERLINE TO FACE OF INLET (Inches)	D OVERALL STRAINER HEIGHT (Including PRV) (Inches)	E NOMINAL HOUSING DIAMETER (Inches)
HI-CAPACITY R863 SHORT <i>Page 16</i>	1	1.7	R863S15	5010500	1.5	22.25	6.80	30.51	8.63
			R863S20	5010510	2.0	22.25	6.80	30.51	8.63
			R863S25	5010520	2.5	22.25	6.80	30.51	8.63
			R863S30	5010530	3.0	22.25	6.80	30.51	8.63
			R863S40	5010540	4.0	22.25	6.80	30.51	8.63
HI-CAPACITY R863 LONG <i>Page 16</i>	2	3.8	R863L15	5010505	1.5	36.75	6.80	45.01	8.63
			R863L20	5010515	2.0	36.75	6.80	45.01	8.63
			R863L25	5010525	2.5	36.75	6.80	45.01	8.63
			R863L30	5010535	3.0	36.75	6.80	45.01	8.63
			R863L40	5010545	4.0	36.75	6.80	45.01	8.63
R600 SHORT <i>Page 20</i>	3	0.4	R600S15	5010812	1.5	13.38	5.50	20.89	6.00
			R600S20	5010816	2.0	13.38	5.50	20.89	6.00
			R600S25	5010820	2.5	13.38	5.50	20.89	6.00
			R600S30	5010824	3.0	13.38	5.50	20.89	6.00
			R600S40	5010828	4.0	13.38	5.50	20.89	6.00
R600 LONG <i>Page 20</i>	4	0.8	R600L15	5010814	1.5	18.88	5.50	26.39	6.00
			R600L20	5010818	2.0	18.88	5.50	26.39	6.00
			R600L25	5010822	2.5	18.88	5.50	26.39	6.00
			R600L30	5010826	3.0	18.88	5.50	26.39	6.00
			R600L40	5010830	4.0	18.88	5.50	26.39	6.00
R663 SHORT <i>Page 18</i>	7	1.2	R663S15	5010752	1.5	19.88	5.81	27.39	6.63
			R663S20	5010758	2.0	19.88	5.81	27.39	6.63
			R663S25	5010764	2.5	19.88	5.81	27.39	6.63
			R663S30	5010770	3.0	19.88	5.81	27.39	6.63
			R663S40	5010776	4.0	19.88	5.81	27.39	6.63
R663 MEDIUM <i>Page 18</i>	8	1.8	R663M15	5010754	1.5	25.88	5.81	33.39	6.63
			R663M20	5010760	2.0	25.88	5.81	33.39	6.63
			R663M25	5010766	2.5	25.88	5.81	33.39	6.63
			R663M30	5010772	3.0	25.88	5.81	33.39	6.63
			R663M40	5010778	4.0	25.88	5.81	33.39	6.63
R663 LONG <i>Page 18</i>	9	2.7	R663L15	5010756	1.5	35.38	5.81	42.89	6.63
			R663L20	5010762	2.0	35.38	5.81	42.89	6.63
			R663L25	5010768	2.5	35.38	5.81	42.89	6.63
			R663L30	5010774	3.0	35.38	5.81	42.89	6.63
			R663L40	5010780	4.0	35.38	5.81	42.89	6.63
R450 SHORT <i>Page 22</i>	No Standard Filter Bag Available	0.4	R450S10	5010851	1.0	19.88	4.13	27.39	4.50
			R450S15	5010854	1.5	19.88	4.13	27.39	4.50
			R450S20	5010857	2.0	19.88	4.13	27.39	4.50
			R450S25	5010860	2.5	19.88	4.13	27.39	4.50
			R450S30	5010863	3.0	19.88	4.13	27.39	4.50
R450 MEDIUM <i>Page 22</i>	No Standard Filter Bag Available	1.1	R450M10	5010852	1.0	25.88	4.13	33.39	4.50
			R450M15	5010855	1.5	25.88	4.13	33.39	4.50
			R450M20	5010858	2.0	25.88	4.13	33.39	4.50
			R450M25	5010861	2.5	25.88	4.13	33.39	4.50
			R450M30	5010864	3.0	25.88	4.13	33.39	4.50
R450 LONG <i>Page 22</i>	No Standard Filter Bag Available	1.6	R450L10	5010853	1.0	35.38	4.13	42.89	4.50
			R450L15	5010856	1.5	35.38	4.13	42.89	4.50
			R450L20	5010859	2.0	35.38	4.13	42.89	4.50
			R450L25	5010862	2.5	35.38	4.13	42.89	4.50
			R450L30	5010865	3.0	35.38	4.13	42.89	4.50

*PRV = Pressure Relief Valve



Summary Page

Style S Housing

Shown with Strainer Basket Style - P2-4
(heavy machined flange with O-Ring Seal)

Shown with Quick Release Handle

Shown without a Wire Mesh Liner Basket or Filter Bag for clarity.

Bottom Drain is 1.5" (unless otherwise specified)

SANICLEAN'S BASKET STRAINERS										
SANICLEAN STRAINER MODEL	STANDARD FILTER BAG TRADE SIZE NUMBER (If available)	BASKET AREA	SANICLEAN SMART PART NUMBER	STYLE S SANICLEAN STRAINER ITEM NUMBER	A INLET / OUTLET SIZES (Clamped)	B CENTERLINE INLET TO CENTERLINE OUTLET	C CENTERLINE TO FACE OF INLET/OUTLET (Inches)	D OVERALL STRAINER HEIGHT (less PRV) (Inches)	E INLET/OUTLET FACE-TO-FACE DIMENSIONS (Inches)	F NOMINAL HOUSING DIAMETER (Inches)
HI-CAPACITY S863 SHORT <i>Page 17</i>	1	1.7	S863S15	5010550	1.5	13.38	6.80	30.51	13.60	8.63
			S863S20	5010560	2.0	13.38	6.80	30.51	13.60	8.63
			S863S25	5010570	2.5	13.38	6.80	30.51	13.60	8.63
			S863S30	5010585	3.0	13.38	6.80	30.51	13.60	8.63
			S863S40	5010595	4.0	13.38	6.80	30.51	13.60	8.63
HI-CAPACITY S863 LONG <i>Page 17</i>	2	3.8	S863L15	5010555	1.5	27.88	6.80	45.01	13.60	8.63
			S863L20	5010565	2.0	27.88	6.80	45.01	13.60	8.63
			S863L25	5010580	2.5	27.88	6.80	45.01	13.60	8.63
			S863L30	5010590	3.0	27.88	6.80	45.01	13.60	8.63
			S863L40	5010750	4.0	27.88	6.80	45.01	13.60	8.63
S600 SHORT <i>Page 21</i>	3	0.4	S600S15	5010832	1.5	7.56	5.50	20.89	11.00	6.00
			S600S20	5010836	2.0	7.56	5.50	20.89	11.00	6.00
			S600S25	5010840	2.5	7.56	5.50	20.89	11.00	6.00
			S600S30	5010844	3.0	7.56	5.50	20.89	11.00	6.00
			S600S40	5010848	4.0	7.56	5.50	20.89	11.00	6.00
S600 LONG <i>Page 21</i>	4	0.8	S600L15	5010834	1.5	13.00	5.50	26.39	11.00	6.00
			S600L20	5010838	2.0	13.00	5.50	26.39	11.00	6.00
			S600L25	5010842	2.5	13.00	5.50	26.39	11.00	6.00
			S600L30	5010846	3.0	13.00	5.50	26.39	11.00	6.00
			S600L40	5010850	2.9	14.51	5.50	27.92	11.00	6.00
S663 SHORT <i>Page 19</i>	7	1.2	S663S15	5010782	1.5	14.00	5.81	27.39	11.63	6.63
			S663S20	5010788	2.0	14.00	5.81	27.39	11.63	6.63
			S663S25	5010794	2.5	14.00	5.81	27.39	11.63	6.63
			S663S30	5010800	3.0	14.00	5.81	27.39	11.63	6.63
			S663S40	5010806	4.0	14.00	5.81	27.39	11.63	6.63
S663 MEDIUM <i>Page 19</i>	8	1.8	S663M15	5010784	1.5	20.00	5.81	33.39	11.63	6.63
			S663M20	5010790	2.0	20.00	5.81	33.39	11.63	6.63
			S663M25	5010796	2.5	20.00	5.81	33.39	11.63	6.63
			S663M30	5010802	3.0	20.00	5.81	33.39	11.63	6.63
			S663M40	5010808	4.0	20.00	5.81	33.39	11.63	6.63
S663 LONG <i>Page 19</i>	4	2.7	S663L15	5010786	1.5	29.50	5.81	42.89	11.63	6.63
			S663L20	5010792	2.0	29.50	5.81	42.89	11.63	6.63
			S663L25	5010798	2.5	29.50	5.81	42.89	11.63	6.63
			S663L30	5010804	3.0	29.50	5.81	42.89	11.63	6.63
			S663L40	5010810	4.0	29.50	5.81	42.89	11.63	6.63
S450 SHORT <i>Page 23</i>	No Standard Filter Bag Available	0.4	S450S10	5010866	1.0	14.00	4.13	27.39	8.26	4.50
			S450S15	5010869	1.5	14.00	4.13	27.39	8.26	4.50
			S450S20	5010872	2.0	14.00	4.13	27.39	8.26	4.50
			S450S25	5010875	2.5	14.00	4.13	27.39	8.26	4.50
			S450S30	5010878	3.0	14.00	4.13	27.39	8.26	4.50
S450 MEDIUM <i>Page 23</i>	No Standard Filter Bag Available	1.1	S450M10	5010867	1.0	20.00	4.13	33.39	8.26	4.50
			S450M15	5010870	1.5	20.00	4.13	33.39	8.26	4.50
			S450M20	5010873	2.0	20.00	4.13	33.39	8.26	4.50
			S450M25	5010876	2.5	20.00	4.13	33.39	8.26	4.50
			S450M30	5010879	3.0	20.00	4.13	33.39	8.26	4.50
S450 LONG <i>Page 23</i>	No Standard Filter Bag Available	1.6	S450L10	5010868	1.0	29.50	4.13	42.89	8.26	4.50
			S450L15	5010871	1.5	29.50	4.13	42.89	8.26	4.50
			S450L20	5010874	2.0	29.50	4.13	42.89	8.26	4.50
			S450L25	5010877	2.5	29.50	4.13	42.89	8.26	4.50
			S450L30	5010880	3.0	29.50	4.13	42.89	8.26	4.50

*PRV = Pressure Relief Valve

Model R863 Hi-Capacity

Style R Housing

FITS STANDARD FILTER BAG SIZES:

SHORT #1 Filter Bag - 2.0 s/f

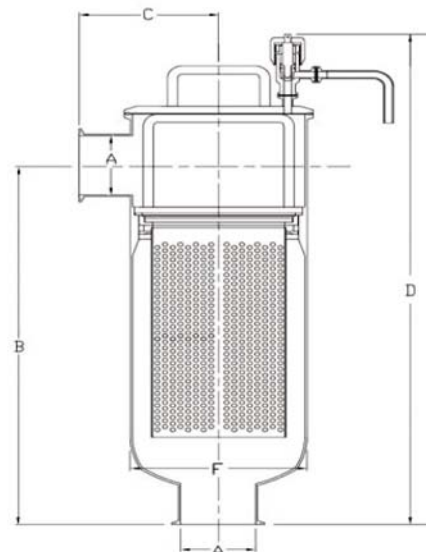
LONG #2 Filter Bag - 4.5 s/f

	A	B	C	D	F
Inlet / Outlet Sizes	Centerline Inlet to Face of Outlet	Centerline to Face of Inlet	Overall Strainer Height (Including PRV)	Nominal Housing Diameter	
SHORT 1.5" thru 4.0" (#1 Filter Bag)	22.25	6.80	30.51	8.63	
LONG 1.5" thru 4.0" (#2 Filter Bag)	36.75	6.80	45.01	8.63	

Shown with Strainer Basket Style - P2-4 (heavy machined flange with O-Ring Seal).

Shown with Quick Release Handle.

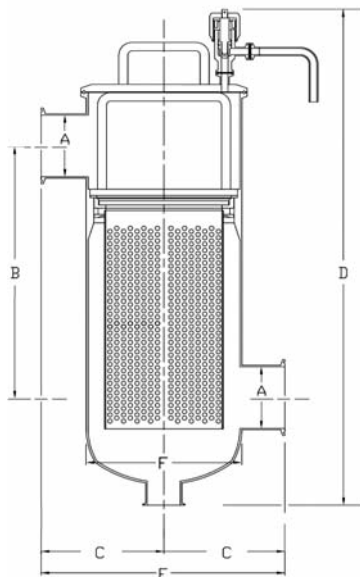
Shown without a Wire Mesh Liner Basket or Filter Bag for clarity.



BASKET STRAINER SIZE -	R863	R863	R863	R863	R863
Standard Filter Bag Size(s) -	#1 & #2	#1 & #2	#1 & #2	#1 & #2	#1 & #2
Inlet / Outlet Line Size ---->	1.5	2.0	2.5	3.0	4.0
Strainer/Filter Housing Style Type -	R	R	R	R	R
Complete Strainer Assembly includes all of the following parts - Strainer/Filter Housing, Top Cover with Handle and Pressure Relief Valve Port (1/2"), Clamp for Top Cover, Quick Release Handle Assembly, Perforated Strainer Basket and Viton O-Ring for Perforated Strainer Basket (Pressure Relief Valve not included)					
Complete Assembly	Item Number	Item Number	Item Number	Item Number	Item Number
SHORT (fits Standard Filter Bag #1) -	5010500	5010510	5010520	5010530	5010540
LONG (fits Standard Filter Bag #2) -	5010505	5010515	5010525	5010535	5010545
Component Part Description	Item Number	Item Number	Item Number	Item Number	Item Number
#R863 Strainer/Filter Housing Only - SHORT -	5010100	5010110	5010120	5010130	5010140
#R863 Strainer/Filter Housing Only - LONG -	5010105	5010115	5010125	5010135	5010145
#863 Top Cover with handle and ferrule for Pressure Relief Valve -	4200159	4200159	4200159	4200159	4200159
8" Sch 5 Strainer/Filter Housing Gasket (Viton) -	3100105	3100105	3100105	3100105	3100105
8" Sch 5 Clamp for Top Cover -	5000860	5000860	5000860	5000860	5000860
#863 Quick Release Handle -	2500155	2500155	2500155	2500155	2500094
#863 Perforated Strainer Basket (1/4" dia. holes) - SHORT -	2250486	2250486	2250486	2250486	2250486
#863 Perforated Strainer Basket (1/4" dia. holes) - LONG -	2250485	2250485	2250485	2250485	2250485
O-Ring for Perforated Strainer Basket Machined Flange (Viton) -	3100102	3100102	3100102	3100102	3100102
#863 Wire Mesh Liner Basket Handle -	2500115	2500115	2500115	2500115	2500115
#863 Filter Bag Hold Down Ring -	1900671	1900671	1900671	1900671	1900671
#863 316L SS 20 Mesh Liner Basket - SHORT -	2250510	2250510	2250510	2250510	2250510
#863 316L SS 30 Mesh Liner Basket - SHORT -	2250511	2250511	2250511	2250511	2250511
#863 316L SS 40 Mesh Liner Basket - SHORT -	2250512	2250512	2250512	2250512	2250512
#863 316L SS 60 Mesh Liner Basket - SHORT -	2250701	2250701	2250701	2250701	2250701
#863 316L SS 80 Mesh Liner Basket - SHORT -	2250702	2250702	2250702	2250702	2250702
#863 316L SS 100 Mesh Liner Basket - SHORT -	2250703	2250703	2250703	2250703	2250703
#863 316L SS 20 Mesh Liner Basket - LONG -	2250478	2250478	2250478	2250478	2250478
#863 316L SS 30 Mesh Liner Basket - LONG -	2250509	2250509	2250509	2250509	2250509
#863 316L SS 40 Mesh Liner Basket - LONG -	2250483	2250483	2250483	2250483	2250483
#863 316L SS 60 Mesh Liner Basket - LONG -	2250704	2250704	2250704	2250704	2250704
#863 316L SS 80 Mesh Liner Basket - LONG -	2250705	2250705	2250705	2250705	2250705
#863 316L SS 100 Mesh Liner Basket - LONG -	2250706	2250706	2250706	2250706	2250706
Gasket for Wire Mesh Liner Basket (Viton) -	3100104	3100104	3100104	3100104	3100104
Suggested Option - Pressure Relief Valve Kit which includes (1) Pressure Relief Valve, (1) 1/2" 90° Sampling Elbow, (2) Clamps, and (2) Tri-clamp Gaskets. Part Numbers are listed below for your convenience.					
Pressure Relief Valve -	4200153	4200153	4200153	4200153	4200153
1/2" 90° Sampling Elbow -	4200163	4200163	4200163	4200163	4200163
1/2" Clamp for Pressure Relief Valve -	4200160	4200160	4200160	4200160	4200160
1/2" Gasket for Pressure Relief Valve (Buna N) -	3100117	3100117	3100117	3100117	3100117
1/2" Gasket for Pressure Relief Valve (Viton) -	3100118	3100118	3100118	3100118	3100118
1/2" Gasket for Pressure Relief Valve (EPDM) -	3100119	3100119	3100119	3100119	3100119

Note - 1. Other Wire Mesh specifications are available upon request (See Page 8 for specification listing)

2. O-Rings and the clamped gaskets can be supplied in different materials should that be required



Model S863 Hi-Capacity

Style S Housing

FITS STANDARD FILTER BAG SIZES:

SHORT #1 Filter Bag - 2.0 s/f

LONG #2 Filter Bag - 4.5 s/f

	A	B	C	D	E	F
	Inlet / Outlet Sizes	Centerline Inlet to Centerline Outlet	Centerline to Face of Inlet/Outlet	Overall Strainer Height (Including PRV)	Inlet/Outlet Face-to-Face	Nominal Housing Diameter
SHORT	1.5" thru 4.0" (#1 Filter Bag)	13.38	6.80	30.51	13.60	8.63
LONG	1.5" thru 4.0" (#2 Filter Bag)	13.38	6.80	45.01	13.60	8.63

Shown with Strainer Basket Style - P2-4 (heavy machined flange with O-Ring Seal).

Shown with Quick Release Handle.

Shown without a Wire Mesh Liner Basket or Filter Bag for clarity.

Bottom Drain is 1.5" (unless otherwise specified)

BASKET STRAINER SIZE -	S863	S863	S863	S863	S863
Standard Filter Bag Size(s) -	#1 & #2	#1 & #2	#1 & #2	#1 & #2	#1 & #2
Inlet / Outlet Line Size -->	1.5	2.0	2.5	3.0	4.0
Strainer/Filter Housing Style Type -	S	S	S	S	S
Complete Strainer Assembly includes all of the following parts - Strainer/Filter Housing, Top Cover with Handle and Pressure Relief Valve Port (1/2"), Clamp for Top Cover, Quick Release Handle Assembly, Perforated Strainer Basket and Viton O-Ring for Perforated Strainer Basket (Pressure Relief Valve not included)					
Complete Assembly	Item Number	Item Number	Item Number	Item Number	Item Number
SHORT (fits Standard Filter Bag #1) -	5010550	5010560	5010570	5010585	5010595
LONG (fits Standard Filter Bag #2) -	5010555	5010565	5010580	5010590	5010750
Component Part Description	Item Number	Item Number	Item Number	Item Number	Item Number
#S863 Strainer/Filter Housing Only - SHORT -	5010150	5010155	5010160	5010165	5010170
#S863 Strainer/Filter Housing Only - LONG -	5010175	5010180	5010185	5010190	5010195
#863 Top Cover with handle and ferrule for Pressure Relief Valve -	4200159	4200159	4200159	4200159	4200159
8" Sch 5 Strainer/Filter Housing Gasket (Viton) -	3100105	3100105	3100105	3100105	3100105
8" Sch 5 Clamp for Top Cover -	5000860	5000860	5000860	5000860	5000860
#863 Quick Release Handle -	2500155	2500155	2500155	2500155	2500155
#863 Perforated Strainer Basket (1/4" dia. holes) - SHORT -	2250486	2250486	2250486	2250486	2250486
#863 Perforated Strainer Basket (1/4" dia. holes) - LONG -	2250485	2250485	2250485	2250485	2250485
O-Ring for Perforated Strainer Basket Machined Flange (Viton) -	3100102	3100102	3100102	3100102	3100102
#863 Wire Mesh Liner Basket Handle -	2500115	2500115	2500115	2500115	2500115
#863 Filter Bag Hold Down Ring -	1900671	1900671	1900671	1900671	1900671
#863 316L SS 20 Mesh Liner Basket - SHORT -	2250510	2250510	2250510	2250510	2250510
#863 316L SS 30 Mesh Liner Basket - SHORT -	2250511	2250511	2250511	2250511	2250511
#863 316L SS 40 Mesh Liner Basket - SHORT -	2250512	2250512	2250512	2250512	2250512
#863 316L SS 60 Mesh Liner Basket - SHORT -	2250701	2250701	2250701	2250701	2250701
#863 316L SS 80 Mesh Liner Basket - SHORT -	2250702	2250702	2250702	2250702	2250702
#863 316L SS 100 Mesh Liner Basket - SHORT -	2250703	2250703	2250703	2250703	2250703
#863 316L SS 20 Mesh Liner Basket - LONG -	2250478	2250478	2250478	2250478	2250478
#863 316L SS 30 Mesh Liner Basket - LONG -	2250509	2250509	2250509	2250509	2250509
#863 316L SS 40 Mesh Liner Basket - LONG -	2250483	2250483	2250483	2250483	2250483
#863 316L SS 60 Mesh Liner Basket - LONG -	2250704	2250704	2250704	2250704	2250704
#863 316L SS 80 Mesh Liner Basket - LONG -	2250705	2250705	2250705	2250705	2250705
#863 316L SS 100 Mesh Liner Basket - LONG -	2250706	2250706	2250706	2250706	2250706
Gasket for Wire Mesh Liner Basket (Viton) -	3100104	3100104	3100104	3100104	3100104
Suggested Option - Pressure Relief Valve Kit which includes (1) Pressure Relief Valve, (1) 1/2" 90° Sampling Elbow, (2) Clamps, and (2) Tri-clamp Gaskets. Part Numbers are listed below for your convenience.					
Pressure Relief Valve -	4200153	4200153	4200153	4200153	4200153
1/2" 90° Sampling Elbow -	4200163	4200163	4200163	4200163	4200163
1/2" Clamp for Pressure Relief Valve -	4200160	4200160	4200160	4200160	4200160
1/2" Gasket for Pressure Relief Valve (Buna N) -	3100117	3100117	3100117	3100117	3100117
1/2" Gasket for Pressure Relief Valve (Viton) -	3100118	3100118	3100118	3100118	3100118
1/2" Gasket for Pressure Relief Valve (EPDM) -	3100119	3100119	3100119	3100119	3100119

Note - 1. Other Wire Mesh specifications are available upon request (See Page 8 for specification listing)

2. O-Rings and the clamped gaskets can be supplied in different materials should that be required

Model R450

Style R Housing

FILTER BAG SIZES:

SHORT Filter Bag - 0.57 s/f

MEDIUM Filter Bag - 0.93 s/f

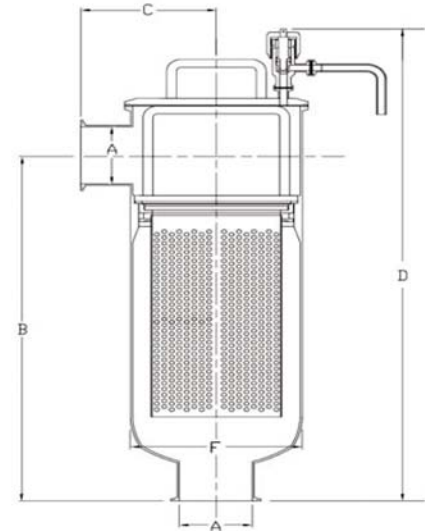
LONG Filter Bag - 1.17 s/f

A		B	C	D	F
Inlet / Outlet Sizes		Centerline Inlet to Face of Outlet	Centerline to Face of Inlet	Overall Strainer Height (Including PRV)	Nominal Housing Diameter
SHORT	1.0" thru 3.0"	19.88	4.13	27.39	4.50
MEDIUM	1.0" thru 3.0"	25.88	4.13	33.39	4.50
LONG	1.0" thru 3.0"	35.38	4.13	42.89	4.50

Shown with Strainer Basket Style - P2-4 (heavy machined flange with O-Ring Seal).

Shown with Quick Release Handle.

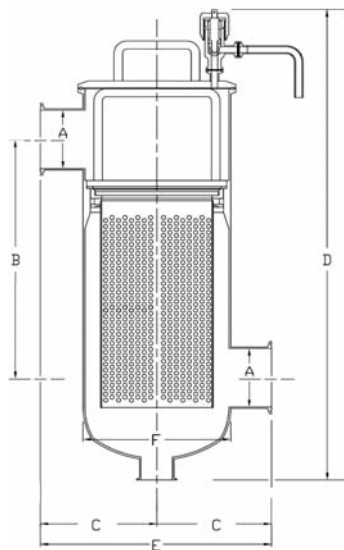
Shown without a Wire Mesh Liner Basket or Filter Bag for clarity.



BASKET STRAINER SIZE -	R450	R450	R450	R450	R450
Filter Bag Size(s) -					
Inlet / Outlet Line Size ---->	1.0	1.5	2.0	2.5	3.0
Strainer/Filter Housing Style Type -	R	R	R	R	R
Complete Strainer Assembly includes all of the following parts -	Strainer/Filter Housing, Top Cover with Handle and Pressure Relief Valve Port (1/2"), Clamp for Top Cover, Quick Release Handle Assembly, Perforated Strainer Basket and Viton O-Ring for Perforated Strainer Basket (Pressure Relief Valve not included)				
Complete Assembly	Item Number	Item Number	Item Number	Item Number	Item Number
SHORT - (Basket Area = 0.57 S/F) -	5010851	5010854	5010857	5010860	5010863
MEDIUM - (Basket Area = 0.93 S/F) -	5010852	5010855	5010858	5010861	5010864
LONG - (Basket Area = 1.17 S/F) -	5010853	5010856	5010859	5010862	5010865
Component Part Description	Item Number	Item Number	Item Number	Item Number	Item Number
#R450 Strainer/Filter Housing Only - SHORT -	5010345	5010350	5010355	5010360	5010365
#R450 Strainer/Filter Housing Only - MEDIUM -	5010370	5010375	5010380	5010385	5010390
#R450 Strainer/Filter Housing Only - LONG -	5010395	5010400	5010405	5010410	5010415
#450 Top Cover with handle and ferrule for Pressure Relief Valve -	4200199	4200199	4200199	4200199	4200199
4" Strainer/Filter Housing Gasket (Viton) -	3100155	3100155	3100155	3100155	3100155
4" Clamp for Top Cover -	5000850	5000850	5000850	5000850	5000850
#450 Quick Release Handle -	2500144	2500144	2500144	2500144	2500144
#450 Perforated Strainer Basket (1/4" dia. holes) - SHORT -	2250760	2250760	2250760	2250760	2250760
#450 Perforated Strainer Basket (1/4" dia. holes) - MEDIUM -	2250761	2250761	2250761	2250761	2250761
#450 Perforated Strainer Basket (1/4" dia. holes) - LONG -	2250762	2250762	2250762	2250762	2250762
O-Ring for Perforated Strainer Basket Machined Flange (Viton) -	3100185	3100185	3100185	3100185	3100185
#450 Wire Mesh Liner Basket Handle -	2500130	2500130	2500130	2500130	2500130
#450 Filter Bag Hold Down Ring -	1900703	1900703	1900703	1900703	1900703
#450 316L SS 20 Mesh Liner Basket - SHORT -	2250737	2250737	2250737	2250737	2250737
#450 316L SS 30 Mesh Liner Basket - SHORT -	2250738	2250738	2250738	2250738	2250738
#450 316L SS 40 Mesh Liner Basket - SHORT -	2250739	2250739	2250739	2250739	2250739
#450 316L SS 60 Mesh Liner Basket - SHORT -	2250740	2250740	2250740	2250740	2250740
#450 316L SS 80 Mesh Liner Basket - SHORT -	2250741	2250741	2250741	2250741	2250741
#450 316L SS 100 Mesh Liner Basket - SHORT -	2250742	2250742	2250742	2250742	2250742
#450 316L SS 20 Mesh Liner Basket - MEDIUM -	2250743	2250743	2250743	2250743	2250743
#450 316L SS 30 Mesh Liner Basket - MEDIUM -	2250744	2250744	2250744	2250744	2250744
#450 316L SS 40 Mesh Liner Basket - MEDIUM -	2250745	2250745	2250745	2250745	2250745
#450 316L SS 60 Mesh Liner Basket - MEDIUM -	2250746	2250746	2250746	2250746	2250746
#450 316L SS 80 Mesh Liner Basket - MEDIUM -	2250747	2250747	2250747	2250747	2250747
#450 316L SS 100 Mesh Liner Basket - MEDIUM -	2250748	2250748	2250748	2250748	2250748
#450 316L SS 20 Mesh Liner Basket - LONG -	2250749	2250749	2250749	2250749	2250749
#450 316L SS 30 Mesh Liner Basket - LONG -	2250750	2250750	2250750	2250750	2250750
#450 316L SS 40 Mesh Liner Basket - LONG -	2250751	2250751	2250751	2250751	2250751
#450 316L SS 60 Mesh Liner Basket - LONG -	2250752	2250752	2250752	2250752	2250752
#450 316L SS 80 Mesh Liner Basket - LONG -	2250753	2250753	2250753	2250753	2250753
#450 316L SS 100 Mesh Liner Basket - LONG -	2250754	2250754	2250754	2250754	2250754
Gasket for Wire Mesh Liner Basket (Viton) -	3100197	3100197	3100197	3100197	3100197
Suggested Option - Pressure Relief Valve Kit which includes (1) Pressure Relief Valve, (1) 1/2" 90° Sampling Elbow, (2) Clamps, and (2) Tri-clamp Gaskets. Part Numbers are listed below for your convenience.					
Pressure Relief Valve -	4200153	4200153	4200153	4200153	4200153
1/2" 90° Sampling Elbow -	4200163	4200163	4200163	4200163	4200163
1/2" Clamp for Pressure Relief Valve -	4200160	4200160	4200160	4200160	4200160
1/2" Gasket for Pressure Relief Valve (Buna N) -	3100117	3100117	3100117	3100117	3100117
1/2" Gasket for Pressure Relief Valve (Viton) -	3100118	3100118	3100118	3100118	3100118
1/2" Gasket for Pressure Relief Valve (EPDM) -	3100119	3100119	3100119	3100119	3100119

Note - 1. Other Wire Mesh specifications are available upon request (See Page 8 for specification listing)

2. O-Rings and the clamped gaskets can be supplied in different materials should that be required



Model S450

Style S Housing

FILTER BAG SIZES:

SHORT Filter Bag - 0.57 s/f
MEDIUM Filter Bag - 0.93 s/f
LONG Filter Bag - 1.17 s/f

	A	B	C	D	E	F
	Inlet / Outlet Sizes	Centerline Inlet to Centerline Outlet	Centerline to Face of Inlet/Outlet	Overall Strainer Height (Including PRV)	Inlet/Outlet Face-to-Face	Nominal Housing Diameter
SHORT	1.0" thru 3.0"	14.00	4.13	27.39	8.26	4.50
MEDIUM	1.0" thru 3.0"	20.00	4.13	33.39	8.26	4.50
LONG	1.0" thru 3.0"	29.50	4.13	42.89	8.26	4.50

Shown with Strainer Basket Style - P2-4 (heavy machined flange with O-Ring Seal).
Shown with Quick Release Handle Assembly (laser cut tabs not shown for clarity).
Shown without a Wire Mesh Liner Basket or Filter Bag for clarity.
Bottom Drain is 1.5" (unless otherwise specified)

BASKET STRAINER SIZE -	S450	S450	S450	S450	S450
Filter Bag Size(s) -					
Inlet / Outlet Line Size -->	1.0	1.5	2.0	2.5	3.0
Strainer/Filter Housing Style Type -	S	S	S	S	S
Complete Strainer Assembly includes all of the following parts - Strainer/Filter Housing, Top Cover with Handle and Pressure Relief Valve Port (1/2"), Clamp for Top Cover, Quick Release Handle Assembly, Perforated Strainer Basket and Viton O-Ring for Perforated Strainer Basket (Pressure Relief Valve not included)					
Complete Assembly	Item Number	Item Number	Item Number	Item Number	Item Number
SHORT - (Basket Area = 0.57 S/F) -	5010866	5010869	5010872	5010875	5010878
MEDIUM - (Basket Area = 0.93 S/F) -	5010867	5010870	5010873	5010876	5010879
LONG - (Basket Area = 1.17 S/F) -	5010868	5010871	5010874	5010877	5010880
Component Part Description	Item Number	Item Number	Item Number	Item Number	Item Number
#S450 Strainer/Filter Housing Only - SHORT -	5010650	5010655	5010660	5010665	5010670
#S450 Strainer/ Filter Housing Only - MEDIUM -	5010675	5010680	5010685	5010690	5010695
#S450 Strainer/Filter Housing Only - LONG -	5010700	5010705	5010710	5010715	5010720
#450 Top Cover with handle and ferrule for Pressure Relief Valve -	4200199	4200199	4200199	4200199	4200199
4" Strainer/Filter Housing Gasket (Viton) -	3100155	3100155	3100155	3100155	3100155
4" Clamp for Top Cover -	5000850	5000850	5000850	5000850	5000850
#450 Quick Release Handle -	2500144	2500144	2500144	2500144	2500144
#450 Perforated Strainer Basket (1/4" dia. holes) - SHORT -	2250760	2250760	2250760	2250760	2250760
#450 Perforated Strainer Basket (1/4" dia. holes) - MEDIUM -	2250761	2250761	2250761	2250761	2250761
#450 Perforated Strainer Basket (1/4" dia. holes) - LONG -	2250762	2250762	2250762	2250762	2250762
O-Ring for Perforated Strainer Basket Machined Flange (Viton/SFY) -	3100185	3100185	3100185	3100185	3100185
#450 Wire Mesh Liner Basket Handle -	2500130	2500130	2500130	2500130	2500130
#450 Filter Bag Hold Down Ring -	1900703	1900703	1900703	1900703	1900703
#450 316L SS 20 Mesh Liner Basket - SHORT -	2250737	2250737	2250737	2250737	2250737
#450 316L SS 30 Mesh Liner Basket - SHORT -	2250738	2250738	2250738	2250738	2250738
#450 316L SS 40 Mesh Liner Basket - SHORT -	2250739	2250739	2250739	2250739	2250739
#450 316L SS 60 Mesh Liner Basket - SHORT -	2250740	2250740	2250740	2250740	2250740
#450 316L SS 80 Mesh Liner Basket - SHORT -	2250741	2250741	2250741	2250741	2250741
#450 316L SS 100 Mesh Liner Basket - SHORT -	2250742	2250742	2250742	2250742	2250742
#450 316L SS 20 Mesh Liner Basket - MEDIUM -	2250743	2250743	2250743	2250743	2250743
#450 316L SS 30 Mesh Liner Basket - MEDIUM -	2250744	2250744	2250744	2250744	2250744
#450 316L SS 40 Mesh Liner Basket - MEDIUM -	2250745	2250745	2250745	2250745	2250745
#450 316L SS 60 Mesh Liner Basket - MEDIUM -	2250746	2250746	2250746	2250746	2250746
#450 316L SS 80 Mesh Liner Basket - MEDIUM -	2250747	2250747	2250747	2250747	2250747
#450 316L SS 100 Mesh Liner Basket - MEDIUM -	2250748	2250748	2250748	2250748	2250748
#450 316L SS 20 Mesh Liner Basket - LONG -	2250749	2250749	2250749	2250749	2250749
#450 316L SS 30 Mesh Liner Basket - LONG -	2250750	2250750	2250750	2250750	2250750
#450 316L SS 40 Mesh Liner Basket - LONG -	2250751	2250751	2250751	2250751	2250751
#450 316L SS 60 Mesh Liner Basket - LONG -	2250752	2250752	2250752	2250752	2250752
#450 316L SS 80 Mesh Liner Basket - LONG -	2250753	2250753	2250753	2250753	2250753
#450 316L SS 100 Mesh Liner Basket - LONG -	2250754	2250754	2250754	2250754	2250754
Gasket for Wire Mesh Liner Basket (Viton/SFY) -	3100197	3100197	3100197	3100197	3100197
Suggested Option - Pressure Relief Valve Kit which includes (1) Pressure Relief Valve, (1) 1/2" 90° Sampling Elbow, (2) Clamps, and (2) Tri-clamp Gaskets. Part Numbers are listed below for your convenience.					
Pressure Relief Valve -	4200153	4200153	4200153	4200153	4200153
1/2" 90° Sampling Elbow -	4200163	4200163	4200163	4200163	4200163
1/2" Clamp for Pressure Relief Valve -	4200160	4200160	4200160	4200160	4200160
1/2" Gasket for Pressure Relief Valve (Buna N) -	3100117	3100117	3100117	3100117	3100117
1/2" Gasket for Pressure Relief Valve (Viton/SFY) -	3100118	3100118	3100118	3100118	3100118
1/2" Gasket for Pressure Relief Valve (EPDM) -	3100119	3100119	3100119	3100119	3100119

Note - 1. Other Wire Mesh specifications are available upon request (See Page 8 for specification listing)
2. O-Rings and the clamped gaskets can be supplied in different materials should that be required

SaniClean Basket Strainer Purchasing Information

SaniClean **SAMPLE** Part Number

STRAINER HOUSING

STRAINER BASKET

1

2

3

4

5

6

7

8

9

10

R863

L30

PWC

2-4-P

1-1

1 STRAINER STYLE	2 STRAINER DIAMETER	3 STRAINER LENGTH	4 STRAINER INLET/OUTLET SIZE	5 STRAINER BASKET CONSTRUCTION	6 BASKET FLANGE TYPE	7 BASKET HANDLE TYPE	8 MICRON SIZE OF MESH, FILTER BAG OR WEDGE WIRE	9 PRESSURE RELIEF VALVE	10 HOUSING FINISH
------------------------	---------------------------	-------------------------	------------------------------------	--------------------------------------	----------------------------	----------------------------	--	-------------------------------	----------------------

R or S 863 = 8-5/8" OD Housing
663 = 6-5/8" OD Housing
600 = 6" OD Housing
450 = 4-1/2" OD Housing

S = SHORT
M = MEDIUM
L = LONG

10 = 1.0" connection
15 = 1.5" connection
20 = 2.0" connection
25 = 2.5" connection
30 = 3.0" connection
40 = 4.0" connection

P = Perforated
WW = Wedge Wire
WC = Wire Cloth
FB = Filter Bag

1 = 11 ga. OD x ID Ring
2 = Heavy Machined Flange with O-Ring groove

3 = Fixed Handle
4 = Quick Release Handle

1 = Yes
2 = No

1 = Polished Inside (25 Ra) and Outside (32 Ra)
2 = Polished Inside Only (25 Ra)
3 = No Polish - welds ground smooth

Wire Mesh Options
P = 20 x 20 mesh
J = 40 x 40 mesh
F = 60 x 60 mesh
L = 80 x 80 mesh
K = 100 x 100 mesh
R = 16 x 16
T = 30 x 30
N = 50 x 50
H = 120 x 120
M = 150 x 150
See page 8 For other Wire Mesh specifications
Wedge Wire
A = .005" slot opening
B = .0075" slot opening
C = 0.010" slot opening
D = 0.015" slot opening
E = 0.020" slot opening
F = 0.025" slot opening
G = 0.030" slot opening
H = 0.035" slot opening

EXAMPLE -

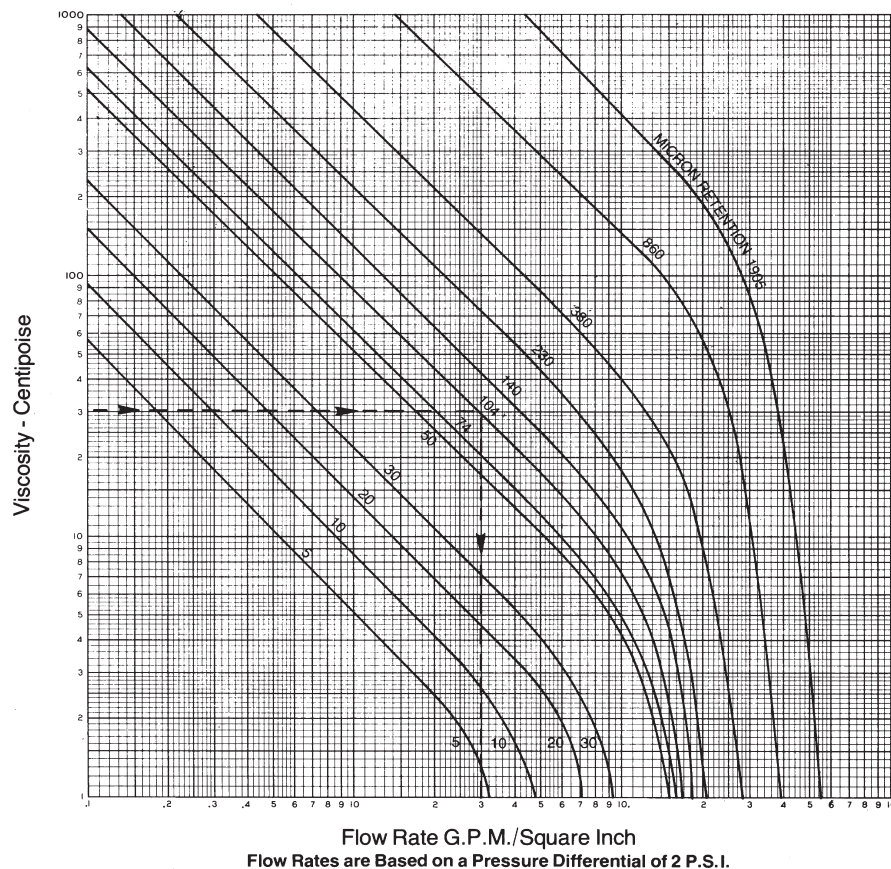
S450S15-WW2-3-A-2-1
Style S
4-1/2" OD Housing
Short
1-1/2" Inlet/Outlet
Wedge Wire Basket with a
Heavy Machined flange w/ O-Ring
Fixed Handle
Wedge Wire with a
0.055" opening
No Pressure Relief Valve
Polished Inside and Outside

Note: Filter Bag Ordering Information (See page 12)

In an effort to better predict the strainer's performance the fluid being processed and the application's flow rate need to be evaluated with respect to the size of the strainer basket required and the "flow rate" through the strainer.

Please refer to the **Wire Cloth Micron Retention table, (Page 8)** the **Wire Cloth Flow Rate graph (below)**, in conjunction with the directions shown below:

- Determine the micron size of the mesh or perforated material being used in the strainer basket from the Wire Cloth Micron Retention table (page 8).
- Find the viscosity (centipoise) of the fluid being processed on the Y axis of the graph.
- From the viscosity of your fluid on the Y axis move horizontally across the graph until the Micron Retention Curve is intersected for the micron size of the mesh or perforated material being used in the strainer basket, drop straight down to the X axis to find your Flow Rate which is stated in "gallons per square inch". All flow rates are based on a pressure differential of 2 PSI.
- Multiply the resulting number, "gallons per square inch" x the total basket area (square inches). This is the theoretical gallons per minute possible through the strainer basket. In many cases the resulting flow rate will be greater than the actual process flow, resulting in a lower pressure drop.
- Please note, additional flow considerations need to be made if more than one layer of wire mesh is used in the strainer/ filter basket. The strainer or filter's design parameters need to be further modified to allow for the specific gravity of the fluid being processed.



- To support these directions please consider the following example:
 Basket Area of Strainer: 252 square inches
 Opening Size of Mesh: 104 microns
 Viscosity: 30 centipoise
 Specific Gravity: 1

Move up the Y axis to "30", then move horizontally across graph until the horizontal line intersects the 104 micron curve line, drop straight down vertically to the x axis to find the Flow Rate (per square inch) through the screen. In this example the flow rate is 3 GPM/Sq in pr 756 GPM through the strainer.

Furthermore, the 150 mesh (104 microns) Wire Mesh Liner Basket is supported using a perforated basket having 1/4" diameter holes and a 40% Open Area. From above, the 756 gallons per minute, needs to be reduced by the effective Open Area of the perforated support basket.

In this example, the strainer basket is theoretically capable of handling $(756 \times .40) = 302.4$ GPM of liquid based on the strainer basket being "clean". This calculation is based on a 2 PSI pressure differential through the strainer basket.



DataBank

The following section of this catalog has been set to provide the technical data which will assist in selecting the best SaniClean Strainer for the end user's system.



Factors to consider in selecting the proper strainer for your application

Physical Characteristics

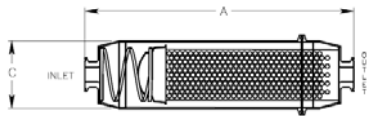
- Line Size
- Types of piping connections – Clamped, Bevel Seat, I-Line, or other (see below)
- Materials of Construction
- Gasket Material
- Size of particles, mesh size, hole size, or slot size required in strainer/filter element

Design Considerations

- What fluid is being processed?
- Viscosity
- Specific Gravity
- Operating Temperature
- Operating Pressure
- Maximum Pressure Drop permissible
- Percentage of Solids – does the liquid being processed have a large amount of solids in the liquid? If yes, a strainer with a greater basket area should be considered for the application for longer run time between cleanings.

What type of Strainer should we purchase?

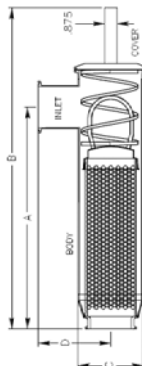
Inline Strainers



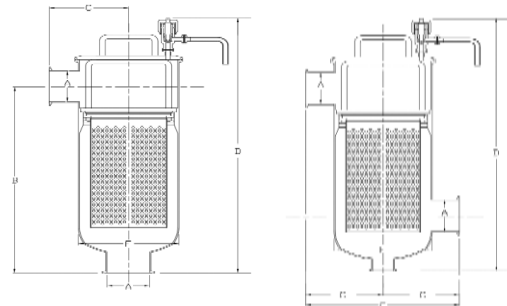
- Widely used in the food and beverage industries
- Cost effective
- Filter/Strainer element is comparatively inexpensive
- Can be installed in a horizontal or vertical pipeline
- Can be piped in a Duplex arrangement
- Complete Strainers, component parts, or replacement strainer/filter elements (OverScreens) are available “from stock”

Side Inlet Strainers

- Widely used in the food and beverage industries
- Cost effective
- Filter/Strainer element is comparatively inexpensive
- Can be piped in a Duplex arrangement
- The strainer/filter element in a Side Inlet Strainer can be replaced without breaking the pipeline connection – this is the biggest advantage of the Side Inlet Strainer as compared to the Inline Strainer
- Complete Strainers, component parts, or replacement strainer/filter elements (OverScreens) are available “from stock”



Basket Strainers



Style R

Style S

Features

- Widely used in the food, beverage, pharmaceutical and other high quality processing applications.
- The same strainer basket – whether perforated, perforated with a wire mesh liner, perforated with a filter bag, or wedge wire fits either Style “ R or S” strainer housing.
- Changeover from a contaminated strainer basket to clean one is quick and easy! Less down time, more run time!
- The strainer basket can be removed, cleaned and/or replaced without breaking the piping connection.
- Can be piped in a Simplex or Duplex configuration.
- Strainer housings can be jacketed to accommodate materials with a higher viscosity.
- SaniClean Basket Strainers are available in different capacity models; from 0.5 to 4.3 square feet strainer basket surface area.
- All SaniClean Basket Strainers come equipped with a top cover port to accommodate a pressure relief valve or other monitoring gauge ensuring a safer processing operation.

VISCOSITY OF COMMON MATERIALS (at room temperature 70°F)			
Material	Viscosity (Centipoise)	Material	Viscosity (Centipoise)
Water	1	Honey	10000
Milk	3	Chocolate	10000 - 25000
Vegetable Shortening	1200	Ketchup	50000
Maple Syrup	2000 - 3000	Mustard	70000
Corn Syrup	2000 - 3000	Sour Cream	100000
Molasses	5000	Peanut Butter	150000 - 250000
Karo Syrup	5000		

VISCOSITY CONVERSION CHART - a converting table between viscosity units like Centipoise, milliPascal, CentiStokes, and SSU									
Centipoise (CPS) Millipascal (mPas)	Poise (P)	Centistokes (cSt)	Stokes (S)	Saybolt Seconds Universal (SSU)	Centipoise (CPS) Millipascal (mPas)	Poise (P)	Centistokes (cSt)	Stokes (S)	Saybolt Seconds Universal (SSU)
1	0.01	1	0.01	31	1200	12	1200	12	5620
2	0.02	2	0.02	34	1300	13	1300	13	6100
4	0.04	4	0.04	38	1400	14	1400	14	6480
7	0.07	7	0.07	47	1500	15	1500	15	7000
10	0.1	10	0.10	60	1600	16	1600	16	7500
15	0.15	15	0.15	80	1700	17	1700	17	8000
20	0.2	20	0.20	100	1800	18	1800	18	8500
25	0.24	25	0.24	130	1900	19	1900	19	9000
30	0.3	30	0.30	160	2000	20	2000	20	9400
40	0.4	40	0.40	210	2100	21	2100	21	9850
50	0.5	50	0.50	260	2200	22	2200	22	10300
60	0.6	60	0.60	320	2300	23	2300	23	10750
70	0.7	70	0.70	370	2400	24	2400	24	11200
80	0.8	80	0.80	430	2500	25	2500	25	11600
90	0.9	90	0.90	480	3000	30	3000	30	14500
100	1	100	1.0	530	3500	35	3500	35	16500
120	1.2	120	1.2	580	4000	40	4000	40	18500
140	1.4	140	1.4	690	4500	45	4500	45	21000
160	1.6	160	1.6	790	5000	50	5000	50	23500
180	1.8	180	1.8	900	5500	55	5500	55	26000
200	2	200	2.0	1000	6000	60	6000	60	28000
220	2.2	220	2.2	1100	6500	65	6500	65	30000
240	2.4	240	2.4	1200	7000	70	7000	70	32500
260	2.6	260	2.6	1280	7500	75	7500	75	35000
280	2.8	280	2.8	1380	8000	80	8000	80	37000
300	3	300	3.0	1475	8500	85	8500	85	39500
320	3.2	320	3.2	1530	9000	90	9000	90	41080
340	3.4	340	3.4	1630	9500	95	9500	95	43000
360	3.6	360	3.6	1730	15000	150	15000	150	69400
380	3.8	380	3.8	1850	20000	200	20000	200	92500
400	4	400	4.0	1950	30000	300	30000	300	138500
420	4.2	420	4.2	2050	40000	400	40000	400	185000
440	4.4	440	4.4	2160	50000	500	50000	500	231000
460	4.6	460	4.6	2270	60000	600	60000	600	277500
480	4.8	480	4.8	2380	70000	700	70000	700	323500
500	5	500	5.0	2480	80000	800	80000	800	370000
550	5.5	550	5.5	2660	90000	900	90000	900	415500
600	6	600	6.0	2900	100000	1000	100000	1000	462000
700	7	700	7.0	3380	125000	1250	125000	1250	578000
800	8	800	8.0	3880	150000	1500	150000	1500	694000
900	9	900	9.0	4300	175000	1750	175000	1750	810000
1000	10	1000	10	4600	200000	2000	200000	2000	925000
1100	11	1100	11	5200	Note - The viscosities are based on materials with a specific gravity of one (1)				

Selection of SaniClean Strainers



Cheese Filter

4" Bevel Seat Connections – Inlet/Outlet

Quick Opening Swing Bolt Top Cover

Operating Temperature: 165°F

Operating Pressure: 275 PSI

Pressure Tested at 300 PSI

Material: 316L SS



*3" Sch 120 Pipe with "Laser Cut"
oblong shaped openings.*



*Model S15 Sanitary Strainers
with strainer baskets.*



*Wire Mesh
OverScreen installed
on a Perforated
Support Core.
Wire Mesh
OverScreen by itself.*



*Custom Basket Strainer with
elbow outlet.*



*4" SaniClean Inline
Sanitary Strainer.*

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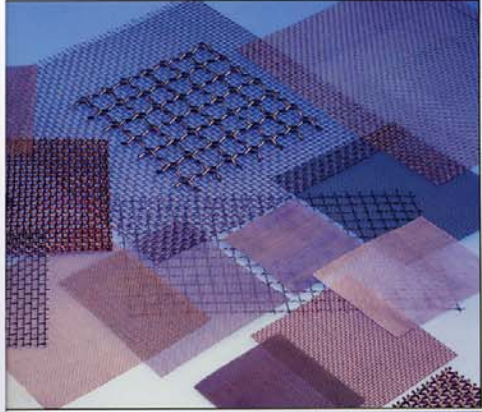
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