SANI-MATIC®

Sanitary Components

for the Food & Beverage Industry

SANI-MATIC®

Cleaning Confidence

A Commitment to Clean

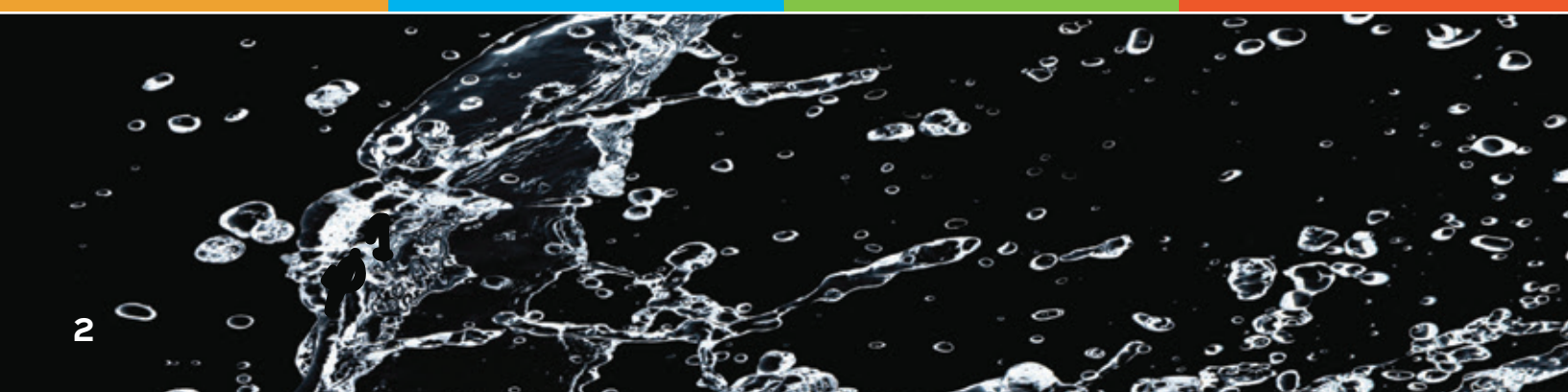
Repeatable results you can count on every time you clean your process parts, lines and equipment. We call it Cleaning Confidence.

Sani-Matic, Inc. designs and manufactures automated sanitary process cleaning equipment and components. We offer Clean-Out-of-Place (COP) parts washers, cabinet washers, tunnel washers, Clean-In-Place (CIP) systems, spray balls, strainers and more that provide a complete clean – every time. And, we don't stop there. We also provide expert services, including our Tactical Solutions system optimization and preventive maintenance programs.

We are committed to helping our customers attain sanitary cleaning results for a diverse range of industries, including food, beverage, pharmaceutical, biotech, nutraceutical and personal care.

Commit to a change in your sanitary process cleaning approach with Sani-Matic. And, we will commit to improving your operations so you can grow your business.

Food & Beverage | Bio-Pharm | Sanitary Components | Services



Sanitary Components

Minimum order value applies. Please call for the latest price information.
Specifications are subject to change.

Angle-Line Strainers

Increase Uptime by Reducing Cleaning Time

Angle-Line Strainers allow operators to clean the strainer element without removing the strainer body from the process line, which significantly increases production uptime.

Sani-Matic offers several Angle-Line Strainer configurations, including the standard 4" Body Size Angle-Line Strainers, High-Capacity Angle-Line Strainers (6" Body Size) for higher volume process straining, Magnetic Trap Strainers for ferromagnetic capture, and strainers with sight-glass and sample/drain ports.

The Angle-Line Strainers allow for both standard (end-inlet) or reverse (side-inlet) process flow by changing the strainer element frame.

With the various configurations and a wide variety of perforated and wedgewire straining elements, the Angle-Line Strainers provide product integrity and process equipment protection.

Angle-Line Strainers are 3-A Certified when using perforated elements.

QUICK TIPS

Did you know strainer clips and elastomers are consumable items and fatigue over time?

Clips: The fit of a clip must be checked regularly and replaced when it no longer provides a secure fit or is overly worn.

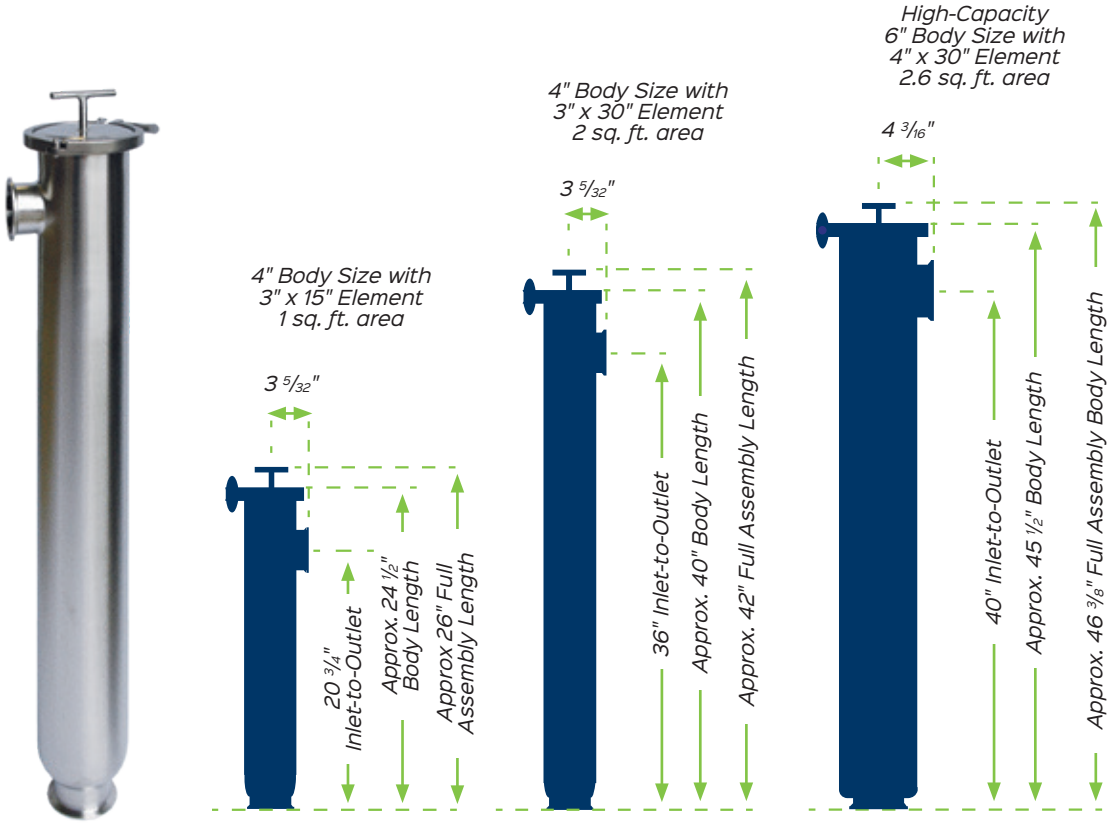
Elastomers: Plan to replace the strainer elastomers annually at a minimum.

Not sure when to clean a strainer?

Installing a pressure gauge before and after a strainer can help. When the gauge placed after the strainer drops 8 to 10 psi following the initial flow start-up, you'll know it is time to clean.

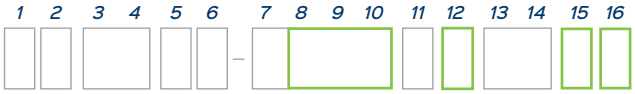
GOOD TO KNOW

- **Strainer & Element Material:** 316L stainless steel
- **Sanitary ID Finish:** 32 µin Ra
- **Full Assembly Maximum Pressure Rating:** 120 psi
- **Maximum Temperature Rating:** 250 °F
- Wedgewire elements have some interior surfaces greater than 32 µin Ra due to the construction process.
- Hot water jacket is available in 4" strainer bodies only.
- When shipped, strainer assemblies with a Teflon Encapsulated O-ring are not lubricated. Strainer assemblies with other O-ring materials will be lubricated with an FDA-compliant silicone grease.
- High-Capacity Angle-Line Strainers have a 6" Body Size and are ideal for higher-volume processes.
- Sample / Drain Ports are 0.5" Tri-Clamp. They drain a majority of the liquid, but are not 100% drainable. *NOTE: A cap or sample valve is not included in the assembly.*
- End-Inlet Strainers are Standard Flow and Side-Inlet Strainers are Reverse Flow.



Angle-Line Strainer Model Number Key

Example Model #: AS15T3-P125S54000



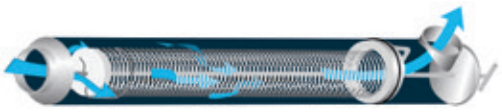
1	**Strainer Model**	
	A	Angle-Line
2	**Body Length**	
	S	Short Body
	L	Long Body
3, 4	**Connection Size**	
	15	1.5"
	20	2.0"
	25	2.5"
	30	3.0"
	40	4.0"
5	**Connection Type**	
	T	Tri-Clamp (Standard)
	W	Butt Weld*
6	**Finish / Polish**	
	3	32 µin Ra / Mechanical Polish (Standard)
	1	20 µin Ra / Mechanical Polish*
	8	32 µin Ra / Electropolish*
	4	15 µin Ra / Electropolish*
7-10	**Element Type / Size**	
	P062	Perforated / 0.0625" ($^{1}/_{16}$")*
	P093	Perforated / 0.09375" ($^{3}/_{32}$")
	P125	Perforated / 0.125" ($^{1}/_{8}$")
	P250	Perforated / 0.25" ($^{1}/_{4}$")
	W002	Wedgewire / 0.002"
	W005	Wedgewire / 0.005"
	W007	Wedgewire / 0.007"
	W010	Wedgewire / 0.010"
	W015	Wedgewire / 0.015"
	W020	Wedgewire / 0.020"
	W030	Wedgewire / 0.030"
	W040	Wedgewire / 0.040"
	W060	Wedgewire / 0.060"
	W187	Wedgewire / 0.1875"
11	**Flow Direction**	
	S	Standard Flow
	R	Reverse Flow
12	**Seal Kit**	
	5	EPDM Gasket / Teflon Encapsulated Silicone O-Ring (Standard)
	6	Viton Gasket / Teflon Encapsulated Silicone O-Ring
	7	Teflon Gasket / Teflon Encapsulated Silicone O-Ring
	8	Buna-N Gasket / Teflon Encapsulated Silicone O-Ring
	9	Silicone Gasket / Teflon Encapsulated Silicone O-Ring
	0	EPDM Gasket / EPDM O-Ring
	1	Viton Gasket / Viton O-Ring
	3	Buna-N Gasket / Buna-N O-Ring
13, 14	**Body Size**	
	40	4.0"
15	**Option #1**	
	0	None (Standard)
	M	Magnetic Trap
16	**Option #2**	
	0	None (Standard)
	1	Single Sight Glass*
	2	Dual Sight Glass*
	D	Drain / Sample Port*
	3	Dual Sight Glass & Drain / Sample Port*

Non-stock product option. Longer lead times will apply.

NOTE: See page 12 for element details.

Reference: Former Part Number & New Model Number Comparison

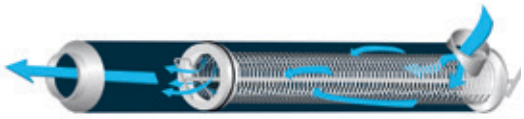
Reference Model Number Key for selections to be made. Selections are designated by empty **green** boxes in the tables below.



Angle-Line End-Inlet Model (Standard Flow)

Connection Size	Body Size	Max. gpm	SHORT (20 3/4" Inlet-to-Outlet)		LONG (36" Inlet-to-Outlet)	
			Perforated Old Part #	Perforated New Model Key #	Perforated Old Part #	Perforated New Model Key #
1.5"	4"	70	S10026	AS15T3-P□S□40□□	S10036	AL15T3-P□S□40□□
2.0"	4"	130	S10027	AS20T3-P□S□40□□	S10037	AL20T3-P□S□40□□
2.5"	4"	200	S10028	AS25T3-P□S□40□□	S10038	AL25T3-P□S□40□□
3.0"	4"	200	S10029	AS30T3-P□S□40□□	S10039	AL30T3-P□S□40□□
4.0"	4"	230	S10030	AS40T3-P□S□400□	S10040	AL40T3-P□S□40□□
Connection Size	**Body Size**	**Max. gpm**	**Wedgewire Old Part #**	**Wedgewire New Model Key #**	**Wedgewire Old Part #**	**Wedgewire New Model Key #**
1.5"	4"	70	S10146	AS15T3-W□S□40□□	S10156	AL15T3-W□S□40□□
2.0"	4"	130	S10147	AS20T3-W□S□40□□	S10157	AL20T3-W□S□40□□
2.5"	4"	200	S10148	AS25T3-W□S□40□□	S10158	AL25T3-W□S□40□□
3.0"	4"	200	S10149	AS30T3-W□S□40□□	S10159	AL30T3-W□S□40□□
4.0"	4"	230	S10150	AS40T3-W□S□400□	S10160	AL40T3-W□S□40□□

NOTE: Magnetic Trap option is not available with 4.0" Connection Size.



Angle-Line Side-Inlet Model (Reverse Flow)

Connection Size	Body Size	Max. gpm	SHORT (20 3/4" Inlet-to-Outlet)		LONG (36" Inlet-to-Outlet)	
			Perforated Old Part #	Perforated New Model Key #	Perforated Old Part #	Perforated New Model Key #
1.5"	4"	70	X10026	AS15T3-P□R□400□	X10036	AL15T3-P□R□400□
2.0"	4"	130	X10027	AS20T3-P□R□400□	X10037	AL20T3-P□R□400□
2.5"	4"	205	X10028	AS25T3-P□R□400□	X10038	AL25T3-P□R□400□
3.0"	4"	240	X10029	AS30T3-P□R□400□	X10039	AL30T3-P□R□400□
4.0"	4"	300	X10030	AS40T3-P□R□400□	X10040	AL40T3-P□R□400□
Connection Size	**Body Size**	**Max. gpm**	**Wedgewire Old Part #**	**Wedgewire New Model Key #**	**Wedgewire Old Part #**	**Wedgewire New Model Key #**
1.5"	4"	70	X10146	AS15T3-W□R□400□	X10156	AL15T3-W□R□400□
2.0"	4"	130	X10147	AS20T3-W□R□400□	X10157	AL20T3-W□R□400□
2.5"	4"	205	X10148	AS25T3-W□R□400□	X10158	AL25T3-W□R□400□
3.0"	4"	240	X10149	AS30T3-W□R□400□	X10159	AL30T3-W□R□400□
4.0"	4"	300	X10150	AS40T3-W□R□400□	X10160	AL40T3-W□R□400□

NOTE: Magnetic Trap option is not available with Reverse Flow.

Angle-Line Strainer Options

The Drain / Sample Port helps operators drain strainers before removing the element for cleaning.

Strainer sight glasses provide visual access to product.

These options do not meet 3-A standards.

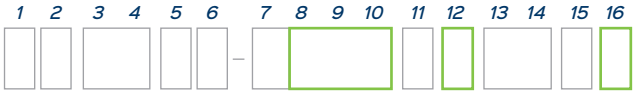
See pages 18-19 for Magnetic Trap Strainer details.

Drain / Sample Port

Dual Sight Glass

High-Capacity Angle-Line Strainer Model Number Key

Example Model #: HL40T3-P125S56000



1	**Strainer Model**	
	H	Angle-Line, High-Capacity
2	**Body Length**	
	L	Long Body
3, 4	**Connection Size**	
	40	4.0"
5	**Connection Type**	
	T	Tri-Clamp (Standard)
	W	Butt Weld*
6	**Finish / Polish**	
	3	32 µin Ra / Mechanical Polish (Standard)
	1	20 µin Ra / Mechanical Polish*
	8	32 µin Ra / Electropolish*
	4	15 µin Ra / Electropolish*
7-10	**Element Type / Size**	
	P062	Perforated / 0.0625" ($^{1}/_{16}$")*
	P093	Perforated / 0.09375" ($^{3}/_{32}$")*
	P125	Perforated / 0.125" ($^{1}/_{8}$")
	P250	Perforated / 0.25" ($^{1}/_{4}$")
	W002	Wedgewire / 0.002"*
	W005	Wedgewire / 0.005"
	W007	Wedgewire / 0.007"*
	W010	Wedgewire / 0.010"*
	W015	Wedgewire / 0.015"
	W020	Wedgewire / 0.020"*
	W030	Wedgewire / 0.030"*
	W040	Wedgewire / 0.040"
	W060	Wedgewire / 0.060"
	W187	Wedgewire / 0.1875"*
11	**Flow Direction**	
	S	Standard Flow
	R	Reverse Flow
12	**Seal Kit**	
	5	EPDM Gasket / Teflon Encapsulated Silicone O-Ring (Standard)
	6	Viton Gasket / Teflon Encapsulated Silicone O-Ring
	7	Teflon Gasket / Teflon Encapsulated Silicone O-Ring
	8	Buna-N Gasket / Teflon Encapsulated Silicone O-Ring
	9	Silicone Gasket / Teflon Encapsulated Silicone O-Ring
	0	EPDM Gasket / EPDM O-Ring
	1	Viton Gasket / Viton O-Ring
	3	Buna-N Gasket / Buna-N O-Ring
13, 14	**Body Size**	
	60	6.0"
15	**Option #1**	
	0	None (Standard)
16	**Option #2**	
	0	None (Standard)
	1	Single Sight Glass*
	2	Dual Sight Glass*
	D	Drain / Sample Port*
	3	Dual Sight Glass & Drain / Sample Port*

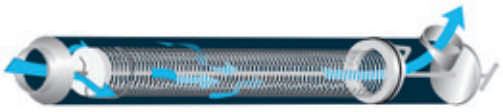
Non-stock product option. Longer lead times will apply.

NOTE: See pages 12-13 for element details.

Reference: Former Part Number & New Model Number Comparison

Reference Model Number Key for selections to be made. Selections are designated by empty green boxes in the tables below.

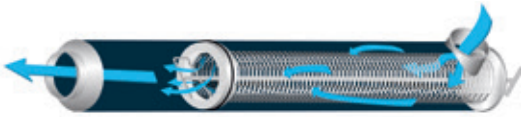
High Capacity Angle-Line End-Inlet Model (Standard Flow)



Connection Size	Body Size	Max. gpm	LONG (40" Inlet-to-Outlet)	
			Perforated Old Part #	Perforated New Model Key #
4.0"	6"	465	S10176	HL40T3-P□S□600□
Connection Size	**Body Size**	**Max. gpm**	**Wedgewire Old Part #**	**Wedgewire New Model Key #**
4.0"	6"	465	S10175	HL40T3-W□S□600□

NOTE: Magnetic Traps are not available with 6" Body Size.

High Capacity Angle-Line Side-Inlet Model (Reverse Flow)



Connection Size	Body Size	Max. gpm	LONG (40" Inlet-to-Outlet)	
			Perforated Old Part #	Perforated New Model Key #
4.0"	6"	510	X10176	HL40T3-P□R□600□
Connection Size	**Body Size**	**Max. gpm**	**Wedgewire Old Part #**	**Wedgewire New Model Key #**
4.0"	6"	510	X10175	HL40T3-W□R□600□

NOTE: Magnetic Traps are not available with 6" Body Size.

High-Capacity Angle-Line Strainer Options

High-capacity strainers are ideal for higher-volume processes.

The Drain / Sample Port helps operators drain the majority of liquid from the strainers before removing the element for cleaning. Air relief sample valves are recommended for the Drain / Sample Port option.

Strainer sight glasses provide visual access to product.

These options do not meet 3-A standards.

Drain / Sample Port

Dual Sight Glass

Dual Strainer Assembly Parts

Dual Strainer Stands

Connection Size	Body Size	SHORT (20 3/4")	LONG (36")
1.5"	4"	**254212**	**257979**
2.0"	4"	**258021**	**258010**
2.5"	4"	**258030**	**258017**
3.0"	4"	**258031**	**257599**
4.0"	4"	**N/A**	**254256**

Valve Kits

Kit includes: Four (4) Elbows, two (2) Tees, four (4) VNE Butterfly Valves, twelve (12) Clamps, and twelve (12) Gaskets.

Material: 316L Stainless Steel

NOTE: Alternate valves available.

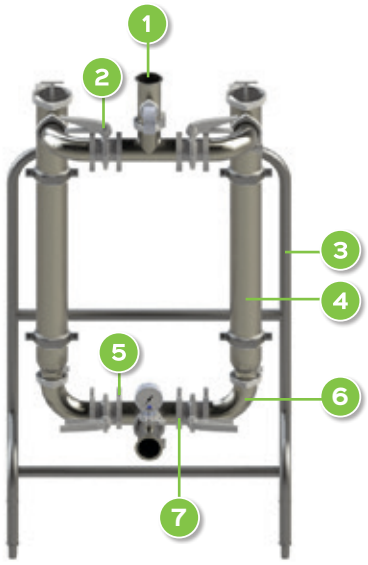
NOTE: Strainers are not included in the valve kit, they are sold separately.

Connection Size	Part #
1.5"	**291142**
2.0"	**291143**
2.5"	**291144**
3.0"	**291145**
4.0"	**291146**

Pressure Gauge Kit

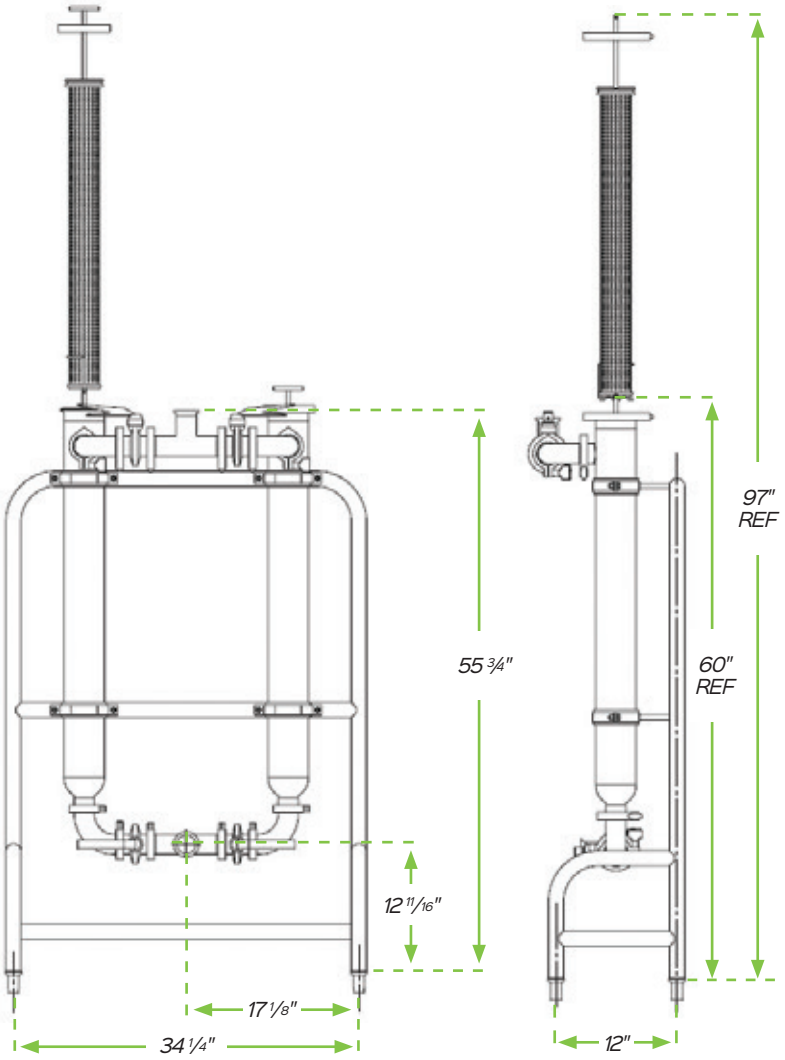
Two (2) Sanitary Diaphragm-type Pressure Gauges, two (2) Tees, four (4) Gaskets and four (4) Clamps. Install before and after the strainer assembly. Pressure range for gauge is 0 to 160 psi.

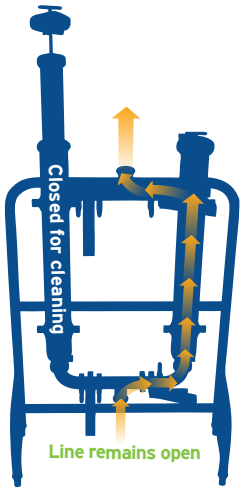
Connection Size	Part #
1.5"	**158581**
2.0"	**158585**
2.5"	**158591**
3.0"	**158593**
4.0"	**158596**



Complete Dual Angle-Line Strainer Assembly

1. Tees (4)
2. Butterfly Valves (4)
3. Stand
4. Angle-Line Strainers (2)
5. Pressure Gauge
6. Elbows (4)
7. Clamps/Gaskets (12)

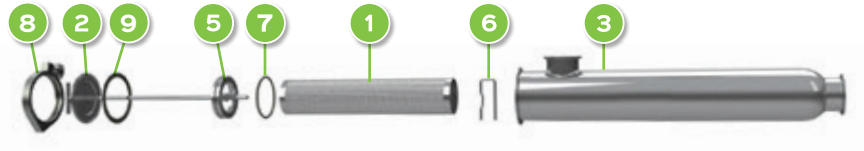




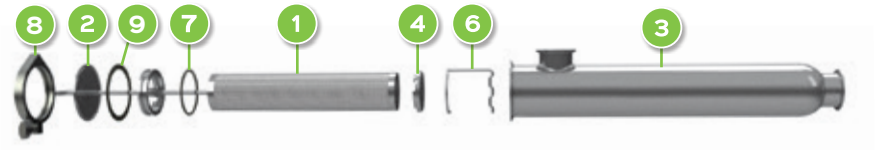
NOTE: The above diagram highlights end-inlet strainers, but Dual Angle-Line Strainer Assemblies can be configured as side-entry.

Replacement Parts

Angle-Line Side-Inlet Strainer (Reverse Flow)



Angle-Line End-Inlet Strainer (Standard Flow)



1. Strainer Element
2. Strainer Element Frame
3. Strainer Body
4. End Plug
5. O-Ring Retainer
6. Retaining Clip
7. O-Ring
8. Clamp
9. Gasket

1 Strainer Elements

Perforated Strainer Elements					
Strainer Body Size	**Strainer Element Size**	**Hole Size**	**Open Area**	**SHORT (15") Part #**	**LONG (30") Part #**
4"	3"	1/16"	23%	**289084***	**277628***
4"	3"	3/32"	33%	**721068**	**720972**
4"	3"	1/8"	40%	**720584**	**720585**
4"	3"	1/4"	58%	**720411**	**720412**
Perforated High-Capacity Strainer Elements					
6"	4"	1/16"	23%	**N/A**	**289088***
6"	4"	3/32"	33%	**N/A**	**720890***
6"	4"	1/8"	40%	**N/A**	**720799**
6"	4"	1/4"	58%	**N/A**	**720800**

Wedgewire Strainer Elements							
Strainer Body Size	**Strainer Element Size**	**Slot Size**	**Micron Rating**	**Wire Mesh (Approx. Equiv.)**	**Open Area**	**SHORT (15") Part #**	**LONG (30") Part #**
4"	3"	0.002"	50	270	4.1%	**700323**	**700334**
4"	3"	0.005"	125	120	9.6%	**700324**	**700335**
4"	3"	0.007"	177	80	13.0%	**700325**	**700336**
4"	3"	0.010"	250	60	17.5%	**700326**	**700337**
4"	3"	0.015"	380	40	24.2%	**700327**	**700338**
4"	3"	0.020"	500	32	29.9%	**700328**	**700339**
4"	3"	0.030"	750	25	39.0%	**700329**	**700340**
4"	3"	0.040"	1015	17	46.0%	**700330**	**700341**
4"	3"	0.060"	1524	10	56.1%	**700331**	**700342**
4"	3"	0.1875"	4775	4	72.5%	**700333**	**700343**

Non-stock product option.

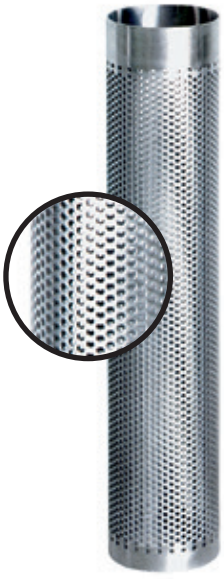
NOTE: Slot size to micron is a nominally rated value only.

NOTE: Other perforated and wedgewire sizes are available.

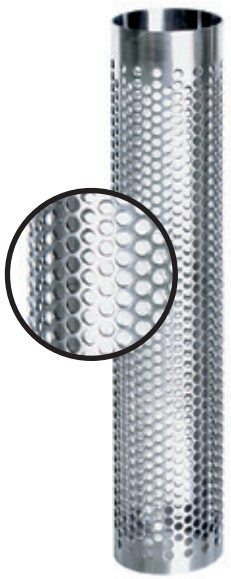
1 Strainer Elements

Wedgewire High-Capacity Strainer Elements							
Strainer Body Size	**Strainer Element Size**	**Slot Size**	**Micron Rating**	**Wire Mesh (Approx. Equiv.)**	**Open Area**	**SHORT (15") Part #**	**LONG (30") Part #**
6"	4"	0.002"	50	270	4.1%	**N/A**	**700481***
6"	4"	0.005"	125	120	9.6%	**N/A**	**700482**
6"	4"	0.007"	177	80	13.0%	**N/A**	**700483***
6"	4"	0.010"	250	250	17.5%	**N/A**	**700484***
6"	4"	0.015"	380	40	24.2%	**N/A**	**700485**
6"	4"	0.020"	500	500	29.9%	**N/A**	**700486***
6"	4"	0.030"	750	750	39%	**N/A**	**700487***
6"	4"	0.040"	1015	17	46.0%	**N/A**	**700488**
6"	4"	0.060"	1524	10	56.1%	**N/A**	**700489**
6"	4"	0.1875"	4775	4775	72.5%	**N/A**	**700490***

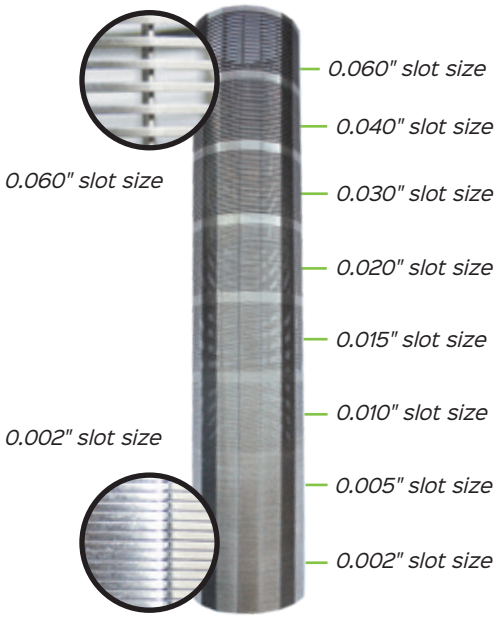
Non-stock product option.



⅛" Perforated Strainer Element



¼" Perforated Strainer Element



NOTE: Image is a demonstration piece highlighting the various wedgewire slot sizes.

GOOD TO KNOW

- **Element Material:** 316L stainless steel
- **Element Sanitary ID Finish:** 32 µin Ra
- Wedgewire elements have some interior surfaces greater than 32 µin Ra due to the construction process.
- End-Inlet Strainers are Standard Flow and Side-Inlet Strainers are Reverse Flow.
- Strainer elements protect your processing equipment and product integrity.
- Perforated and wedgewire elements provide different straining advantages:

Advantages of Perforated Element

- 3-A certified when used without mesh overlay
- Large open area ratio with lower pressure drops

Advantages of Wedgewire Element

- One piece solution
- Ability to handle higher differential pressures across strainer element

Angle-Line Side-Inlet (Reverse Flow)

Angle-Line End-Inlet (Standard Flow)

Angle-Line End-Inlet with Magnetic Trap

2 Strainer Element Frames

NOTE: End-Inlet Strainers are Standard Flow and Side-Inlet Strainers are Reverse Flow.

Strainer Model	Flow Direction	Strainer Element Length	Strainer Body Length (Inlet-to-Outlet)	Body Size	Strainer Element Frame Length**	Connection Size	Part #
Angle-Line	Side-Inlet (Reverse Flow)	SHORT (15")	SHORT (20 3/4")	4.0"	18 1/2"	1.5" - 4.0"	**740320**
Angle-Line	Side-Inlet (Reverse Flow)	LONG (30")	LONG (36")	4.0"	33 1/2"	1.5" - 4.0"	**740348**
Angle-Line	End-Inlet (Standard Flow)	SHORT (15")	SHORT (20 3/4")	4.0"	24 5/8"	1.5" - 3.0"	**700544**
Angle-Line	End-Inlet (Standard Flow)	LONG (30")	LONG (36")	4.0"	40"	1.5" - 3.0"	**700546**
Angle-Line	End-Inlet (Standard Flow)	SHORT (15")	SHORT (20 3/4")	4.0"	26 5/16"	4.0"	**700552**
Angle-Line	End-Inlet (Standard Flow)	LONG (30")	LONG (36")	4.0"	41 11/16"	4.0"	**700549**
Angle-Line w/ Magnetic Trap	End-Inlet (Standard Flow)	SHORT (15")	SHORT (20 3/4")	4.0"	24 5/8"	1.5" - 3.0"	**288850**
Angle-Line w/ Magnetic Trap	End-Inlet (Standard Flow)	LONG (30")	LONG (36")	4.0"	40"	1.5" - 3.0"	**288856**
Strainer Model	**Flow Direction**	**Strainer Element Length**	**High-Capacity Strainer Body Length (Inlet-to-Outlet)**	**Body Size**	**Strainer Element Frame Length***	**Connection Size**	**Part #**
Angle-Line	Side-Inlet (Reverse Flow)	LONG (30")	LONG (40")	6.0"	33 3/4"	4.0"	**110123**
Angle-Line	End-Inlet (Standard Flow)	LONG (30")	LONG (40")	6.0"	43 1/8"	4.0"	**740622**

**Overall allowable length removal clearance.*

3 Strainer Bodies (4" Body Size)

Strainer Model	Strainer Body Length (Inlet-to-Outlet)	Tri-Clamp Connection Size	Part #
Angle-Line	SHORT (20 3/4")	1.5"	**740835**
Angle-Line	SHORT (20 3/4")	2.0"	**740836**
Angle Line	SHORT (20 3/4")	2.5"	**740837**
Angle-Line	SHORT (20 3/4")	3.0"	**740838**
Angle-Line	SHORT (20 3/4")	4.0"	**741143**
Angle-Line	LONG (36")	1.5"	**740839**
Angle-Line	LONG (36")	2.0"	**740840**
Angle-Line	LONG (36")	2.5"	**740841**
Angle-Line	LONG (36")	3.0"	**740842**
Angle-Line	LONG (36")	4.0"	**740986**

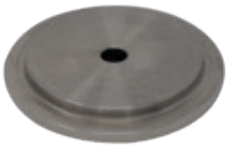
3 Strainer Bodies (6" Body Size, High-Capacity)

Strainer Model	Strainer Body Length (Inlet-to-Outlet)	Tri-Clamp Connection Size	Part #
Angle-Line	LONG (40")	4.0"	**741078**

4 End Plugs Use with Angle-Line End-Inlet Strainers

Body Size	Material	Part #
4"	Teflon	**720988**
4"	Stainless	**118582**
High-Capacity Body Size	**Material**	**Part #**
6"	Stainless	**118583**
6"	UHMW	**720616**

Teflon End Plug



Stainless Steel End Plug

5 O-Ring Retainers (Loose) Use with Angle-Line Side-Inlet and Magnetic Trap Strainers

Body Size	Part #
4"	**721488**
High-Capacity Body Size	**Part #**
6"	**226783**

NOTE: End-Inlet O-Ring Retainers are welded to the Strainer Element Frame.
NOTE: Magnetic Trap Strainer uses a 4" O-Ring Retainer.

4" O-Ring Retainer

6" O-Ring Retainer

6 Retaining Clips Use with Angle-Line Strainers

Body Size	Flow Direction	Part #
4"	Side-Inlet (Reverse Flow)	**720408**
4"	End-Inlet (Standard Flow)	**740295**
High-Capacity Body Size	**Flow Direction**	**Part #**
6"	Side-Inlet (Reverse Flow)	**320033**
6"	End-Inlet (Standard Flow)	**740623**

4" Side-Inlet Clip

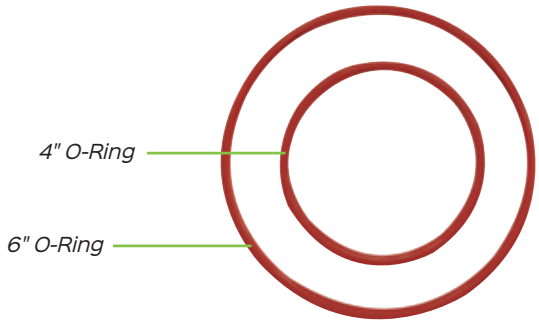
6" Side-Inlet Clip

End-Inlet Clip

7 O-Rings Use with Angle-Line, Side- and End-Inlet Strainers

Body Size	Material	Part #
4"	EPDM	020503
4"	Viton	020236
4"	Teflon Encapsulated Silicone	024020
4"	Buna-N	020234
High-Capacity Body Size	**Material**	**Part #**
6"	EPDM	022416
6"	Viton	036747
6"	Teflon Encapsulated Silicone	034355
6"	Buna-N	020222

NOTE: Teflon Encapsulated Silicone is O-ring standard. Other materials require lubrication.



8 Clamps

For 4" Body Size Part #	For 6" Body Size (High-Capacity) Part #
020225	020976

9 Gaskets

Material	For 4" Body Size Part #	For 6" Body Size (High-Capacity) Part #
EPDM (Standard)	021031	022975
Viton	020474	023847
Silicone	024582	025683
Buna-N	020226	020263

Sight Glass Replacement

Description	Part #
2.5" Tri-Clamp Metaglas® single replacement lens	047043

NOTE: Rated at 200 psi @ 536 °F.
NOTE: Metaglas® is not 3-A certified.

Air Relief Vent Valve

Description	Part #
Air Relief Vent Valve with $^1/_2$" connection used with the Drain / Sample Port strainer option	021881

NOTE: Air relief sample valves are recommended for the Drain / Sample Port option.

Spare Parts Kit Angle-Line Strainer

Includes: O-ring Retainer (with Reverse Flow) or Stainless Steel End Plug (with Standard Flow), Retainer Clip, 4" Tri-Clamp Gasket and one (1) O-ring.

Flow Direction	Part #
End-Inlet (Standard Flow)	S25725
Side-Inlet (Reverse Flow)	X10177

Conversion Kits Angle-Line Strainer

Kits are used to Reverse Flow direction.

Includes: Element Frame, O-ring Retainer (with Reverse Flow kit) or Stainless Steel End Plug (with Standard Flow kit), Clip and O-ring.

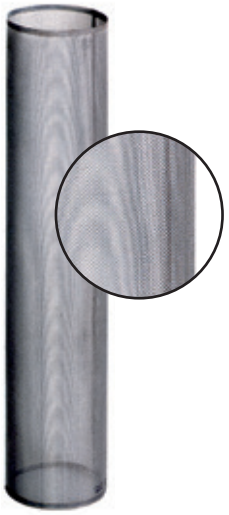
Flow Direction	SHORT Part #	LONG Part #
End to Side-Inlet (Reverse Flow)	S10177	S10180
Side to End-Inlet (Standard Flow)	S10178	S10181
Side to End-Inlet (Standard Flow) (For 4" tri-clamp connection / 4" body)	S10179	S10182

Accessories

Mesh Overlays (For perforated elements only)

Mesh Size US	Micron (Approx. Equiv.)	Opening Width in Inches (Approx. Equivalent)	Open Area	SHORT (15") Part #	LONG (30") Part #
8	2360	0.0970"	60%	**035251**	**029664**
10	2000	0.0750"	56%	**000717**	**000701**
12	1700	0.0603"	52%	**035252**	**029665**
20	850	0.0340"	46%	**000712**	**000702**
30	600	0.0213"	41%	**000713**	**000703**
40	425	0.0150"	36%	**000714**	**000704**
50	300	0.0110"	30%	**000715**	**000705**
60	250	0.0092"	31%	**000716**	**000706**
80	180	0.0070"	31%	**000718**	**000708**
100	150	0.0060"	36%	**000711**	**000710**
120	125	0.0046"	31%	**000720**	**000707**
150	98	0.0041"	37%	**021276**	**021274**
200	75	0.0029"	34%	**021275**	**10000048**
150*	100	0.0041"	37%	**N/A**	**000719**

**6" Body Size Strainers.*



Mesh Overlay

Filter Tube: 4" Body Size x 20.75" Strainers • 50/Box

4 7/8" x 17" Filter Tubes (For 1"*, 1.5", 2", 2.5", 3", and 4" connections). Fits 3" x 15" Perforated Element.

Material	Width	Length (SHORT)	Max. Temperature (°F)	Micron	Part #
Non-Woven Rayon	4 7/8"	17"	400	25	**032789**
Polyester	4 7/8"	17"	400	40	**048602**
Polyester Screen	4 7/8"	17"	270 continuous, 455 short term	80	**041235**
Nylon Multifilament	4 7/8"	17"	185 continuous, 455 short term	150	**031264**
Polyester Knit	4 7/8"	17"	270 continuous, 455 short term	225	**033922**
Polyester Multifilament	4 7/8"	17"	270 continuous, 455 short term	250	**036985**
Cotton Cheese Cloth	4 7/8"	17"	300	300	**028476**
Nylon Leno	4 7/8"	17"	270 continuous, 455 short term	400	**048603**
Nylon Leno	4 7/8"	17"	185 continuous, 455 short term	800	**031133**
Nylon Multifilament	4 7/8"	17"	185 continuous, 455 short term	1000	**028335**

**1" filter tube is for SaniClean strainers only.*

Filter Tube: 4" Body Size x 36" Strainers • 50/Box

4 7/8" x 33 1/2" Filter Tubes (For 1"*, 1.5", 2", 2.5", 3", and 4" connections). Fits 3" x 30" Perforated Element.

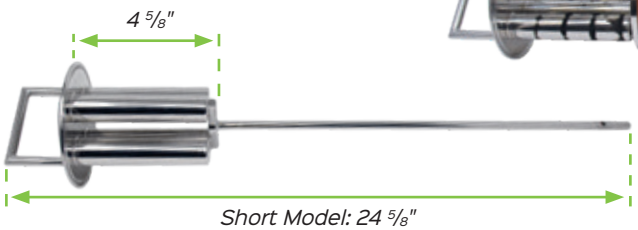
Material	Width	Length (LONG)	Max. Temperature (°F)	Micron	Part #
Non-Woven Rayon	4 7/8"	33 1/2"	400	25	**028390**
Non-Woven Rayon	4 7/8"	33 1/2"	400	40	**028857**
Polyester Multifilament	4 7/8"	33 1/2"	270 continuous, 455 short term	80	**029075**
Nylon Multifilament	4 7/8"	33 1/2"	185 continuous, 455 short term	150	**028395**
Polyester Knit	4 7/8"	33 1/2"	270 continuous, 455 short term	225	**040565**
Polyester Multifilament	4 7/8"	33 1/2"	270 continuous, 455 short term	250	**030951**
Cotton Cheese Cloth	4 7/8"	33 1/2"	300	300	**028797**
Polyester Multifilament	4 7/8"	33 1/2"	270 continuous, 455 short term	400	**023864**
Cotton Flannel	4 7/8"	33 1/2"	300	500	**029190**
Nylon Monofilament	4 7/8"	33 1/2"	275	500	**041618**
Nylon Leno	4 7/8"	33 1/2"	185 continuous, 455 short term	800	**10000044**

Magnetic Trap Strainers

The Sani-Matic Angle-Line Magnetic Trap Strainer doubles as a strainer and magnetic trap to ensure product integrity and equipment protection against metal particles, such as iron, 304 stainless steel, and shed metal-detect gasket particulates, while also straining process particles such as seeds, pulp, and more. The magnetic trap's location within the strainer body eliminates the need for a second process line cut.

Current Standard Flow, Angle-Line Strainer bodies can easily become a Magnetic Trap Strainer by adding a Magnetic Trap Element Frame and accompanying angle-line element retaining parts.

Magnetic Trap Strainer Element Frame



Full Magnetic Trap Strainer Element Assembly + Element. (Captured Iron Filings shown)

QUICK TIPS

Oh my Gauss! How strong is that magnet? Magnet flux density, or intensity, is measured in Gauss. It can be measured via Pull Tests and Gauss Meters. A pull test shows the pull force of a magnet by the amount of force required to break free of the magnet.

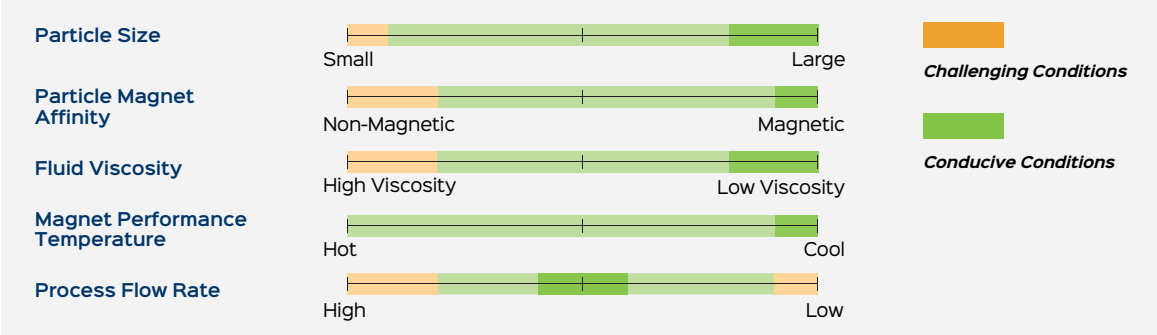
Strong but not unbreakable. While the magnets maintain a strong hold, they are not unbreakable. If not handled with care, the strainer element frame's magnets can shatter and lose efficacy.

Are there safety considerations? The magnets have a powerful pull. Working with metal tools next to the magnetic trap may pinch hands, and the magnets may be harmful to ID wearers and people with pacemakers.

GOOD TO KNOW

- **Magnetic Rating Range:** 9,500 - 11,500 Gauss
- **Maximum Temperature:** 220 °F
- **Finish:** 32 µin Ra
- Standard Flow Only
- 4" Body Size Only
- Is not 3-A certified
- Magnet: Neodymium rare-earth element
- Magnetic Trap captures magnetic items; the Element captures the other product debris (pulp, seeds, etc.)
- Adding magnetic trap capabilities adds only minimal pressure drop
- Gauss certificate is provided

Metal Fines Capture Efficacy Conditions

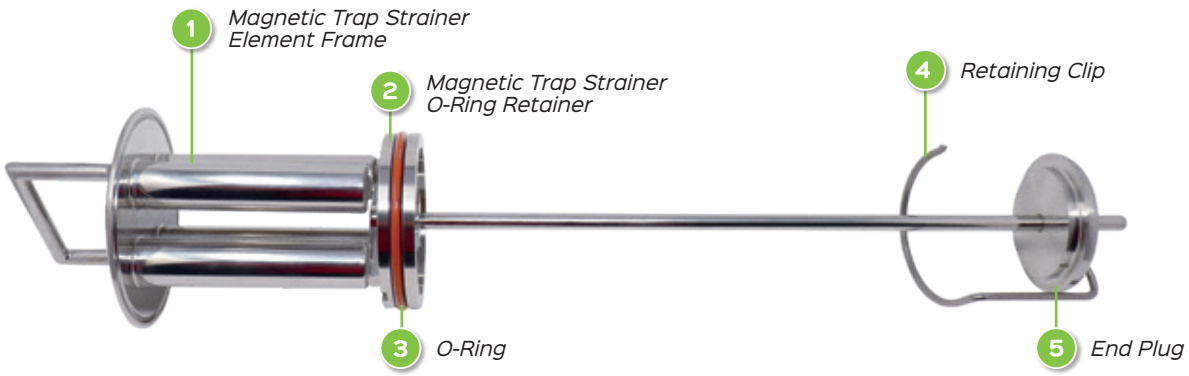


Magnetic Trap Strainer Element Assemblies

Includes Strainer Element Frame, O-Ring Retainer, End Plug and Retaining Clip

Strainer Model	Flow Direction	Strainer Element Length	Strainer Body Length (Inlet-to-Outlet)	Body Size	Strainer Element Frame Length**	Connection Size	Part #
Angle-Line w/ Magnetic Trap	End-Inlet (Standard Flow)	SHORT (15")	SHORT (20 3/4")	4"	24 5/8"	1.5" - 3.0"	**285388**
Angle-Line w/ Magnetic Trap	End-Inlet (Standard Flow)	LONG (30")	LONG (36")	4"	40"	1.5" - 3.0"	**288472**

***Overall allowable length removal clearance.*



Replacement Parts

1 Magnetic Trap Strainer Element Frames

Strainer Model	Flow Direction	Strainer Element Length	Strainer Body Length (Inlet-to-Outlet)	Body Size	Strainer Element Frame Length**	Connection Size	Part #
Angle-Line w/ Magnetic Trap	End-Inlet (Standard Flow)	SHORT (15")	SHORT (20 3/4")	4.0"	24 5/8"	1.5" - 3.0"	**288850**
Angle-Line w/ Magnetic Trap	End-Inlet (Standard Flow)	LONG (30")	LONG (36")	4.0"	40"	1.5" - 3.0"	**288856**

***Overall allowable length removal clearance.*

2 Magnetic Trap Strainer O-Ring Retainer

Body Size	Flow Direction	Part #
4"	End-Inlet (Standard Flow)	**721488**

3 O-Rings

Body Size	Material	Part #
4"	EPDM	**020503**
4"	Viton	**020236**
4"	Teflon Encapsulated Silicone	**024020**
4"	Buna-N	**020234**

4 Retaining Clips

Body Size	Flow Direction	Part #
4"	End-Inlet (Standard Flow)	**740295**

5 End Plug

Body Size	Material	Part #
4"	Stainless	**118582**

Straight-Line Strainers

Durable Strainers for Standard Flow Processes

Sani-Matic's durable Straight-Line Strainers are used when process line layouts require straight-line strainers. Manufactured in the U.S., quick turnaround times are available for standard models.

Unlike Angle-Line Strainers, when using Straight-Line Strainers, the process lines must be broken/disassembled for cleaning and are available only in a single flow configuration.

With a wide variety of perforated and wedgewire straining elements, the Straight-Line Strainers provide product integrity and process equipment protection.

Sani-Matic's standard Straight-Line Strainers are 3-A certified when perforated elements are used.

QUICK TIPS

Did you know strainer clips and elastomers are consumable items and fatigue over time?

Clips: The fit of a clip must be checked regularly and replaced when it no longer provides a secure fit or is overly worn.

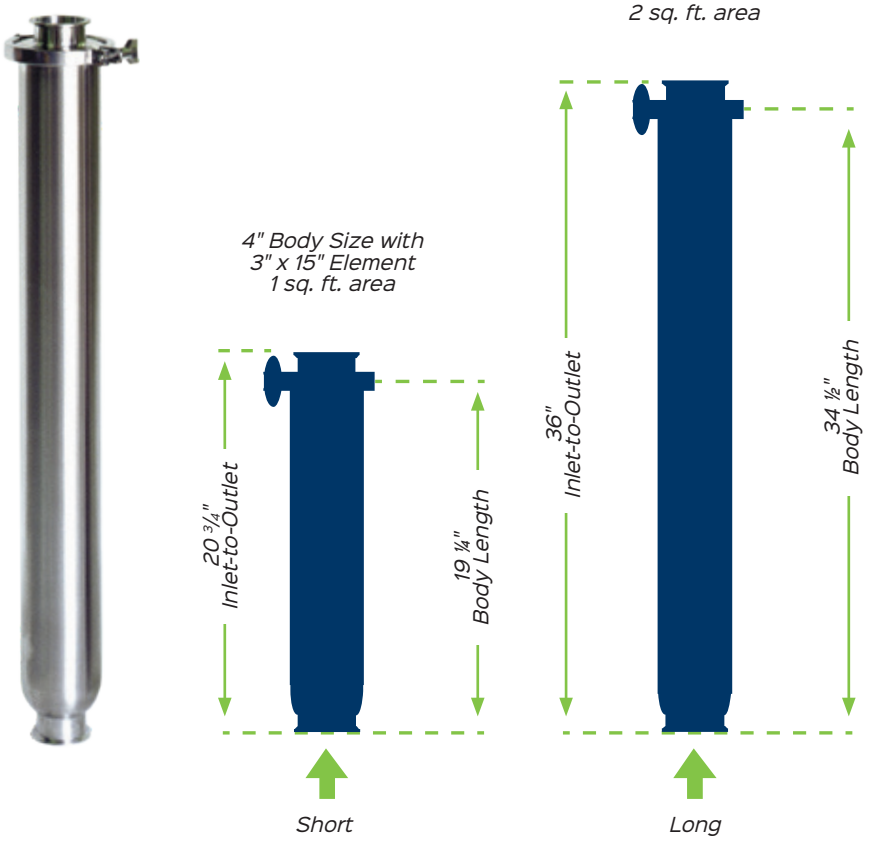
Elastomers: Plan to replace the strainer elastomers annually at a minimum.

Not sure when to clean a strainer?

Installing a pressure gauge before and after a strainer can help. When the gauge placed after the strainer drops 8 to 10 psi following the initial flow start-up, you'll know it is time to clean.

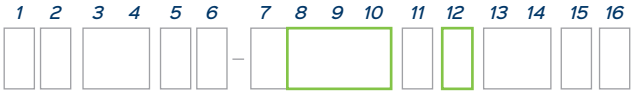
GOOD TO KNOW

- **Strainer & Element Material:** 316L stainless steel
- **Sanitary ID Finish:** 32 µin Ra
- **Maximum Temperature Rating:** 250 °F
- **Full Assembly Maximum Pressure Rating:** 120 psi
- Wedgewire elements have some interior surfaces greater than 32 µin Ra due to the construction process.
- Hot water jacket is available in 4" strainer bodies only.
- When shipped, strainer assemblies with a Teflon Encapsulated O-ring are not lubricated. Strainer assemblies with other O-ring materials will be lubricated with an FDA-compliant silicone grease.



Straight-Line Strainer Model Number Key

Example Model #: SS15T3-P125X04000



1	**Strainer Model**	
	S	Straight-Line
2	**Body Length**	
	S	Short Body
	L	Long Body
3, 4	**Connection Size**	
	15	1.5"
	20	2.0"
	25	2.5"
	30	3.0"
	40	4.0"
5	**Connection Type**	
	T	Tri-Clamp (Standard)
	W	Butt Weld*
6	**Finish / Polish**	
	3	32 µin Ra / Mechanical Polish (Standard)
	1	20 µin Ra / Mechanical Polish*
	8	32 µin Ra / Electropolish*
	4	15 µin Ra / Electropolish*
7-10	**Element Type / Size**	
	P062	Perforated / 0.0625" ($^{1}/_{16}$")*
	P093	Perforated / 0.09375" ($^{3}/_{32}$")
	P125	Perforated / 0.125" ($^{1}/_{8}$")
	P250	Perforated / 0.25" ($^{1}/_{4}$")
	W002	Wedgewire / 0.002"
	W005	Wedgewire / 0.005"
	W007	Wedgewire / 0.007"
	W010	Wedgewire / 0.010"
	W015	Wedgewire / 0.015"
	W020	Wedgewire / 0.020"
	W030	Wedgewire / 0.030"
	W040	Wedgewire / 0.040"
	W060	Wedgewire / 0.060"
	W187	Wedgewire / 0.1875"
11	**Flow Direction**	
	X	Standard Flow
12	**Seal Kit**	
	0	EPDM Gasket (Standard)
	1	Viton Gasket
	3	Buna-N Gasket
13, 14	**Body Size**	
	40	4.0"
15	**Option #1**	
	0	None (Standard)
16	**Option #2**	
	0	None (Standard)

Non-stock product option. Longer lead times will apply.

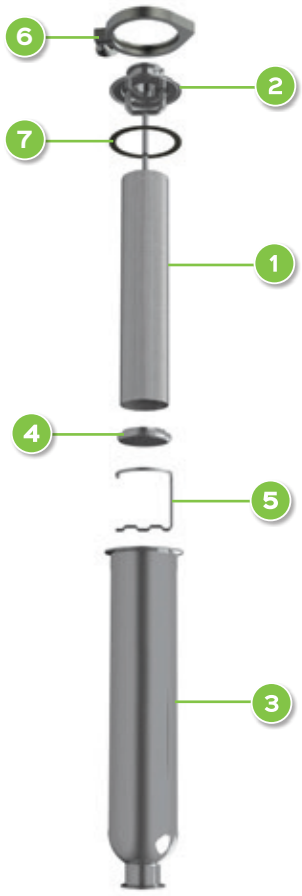
NOTE: See page 24 for element details.

Reference: Former Part Number & New Model Number Comparison

Reference Model Number Key for selections to be made. Selections are designated by empty green boxes in the table below.

Straight-Line Strainer

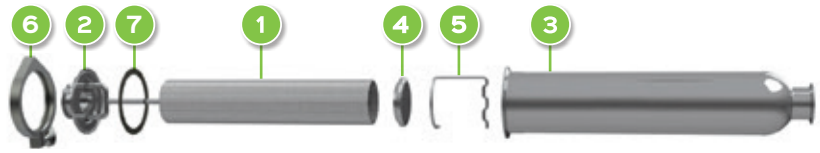
Connection Size	Body Size	Max. gpm	SHORT Inlet-to-Outlet (20 3/4")		LONG Inlet-to-Outlet (36")	
			Perforated Old Part #	Perforated New Model Key #	Perforated Old Part #	Perforated New Model Key #
1.5"	4"	70	S10006	SS15T3-P□X□4000	S10016	SL15T3-P□X□4000
2.0"	4"	130	S10007	SS20T3-P□X□4000	S10017	SL20T3-P□X□4000
2.5"	4"	200	S10008	SS25T3-P□X□4000	S10018	SL25T3-P□X□4000
3.0"	4"	250	S10009	SS30T3-P□X□4000	S10019	SL30T3-P□X□4000
4.0"	4"	275	S10010	SS40T3-P□X□4000	S10020	SL40T3-P□X□4000
Connection Size	**Body Size**	**Max. gpm**	**Wedgewire Old Part #**	**Wedgewire New Model Key #**	**Wedgewire Old Part #**	**Wedgewire New Model Key #**
1.5"	4"	70	S10126	SW15T3-P□X□4000	S10136	SL15T3-W□X□4000
2.0"	4"	130	S10127	SW20T3-P□X□4000	S10137	SL20T3-W□X□4000
2.5"	4"	200	S10128	SW25T3-P□X□4000	S10138	SL25T3-W□X□4000
3.0"	4"	250	S10129	SW30T3-P□X□4000	S10139	SL30T3-W□X□4000
4.0"	4"	275	S10130	SW40T3-P□X□4000	S10140	SL40T3-W□X□4000



1. Strainer Element
2. Strainer Element Frame
3. Strainer Body
4. End Plug
5. Retaining Clip
6. Clamp
7. Gasket

Replacement Parts

Straight-Line Strainer



1. Strainer Element
2. Strainer Element Frame
3. Strainer Body
4. End Plug
5. O-Ring Retainer
6. Retaining Clip
7. O-Ring

1 Strainer Elements

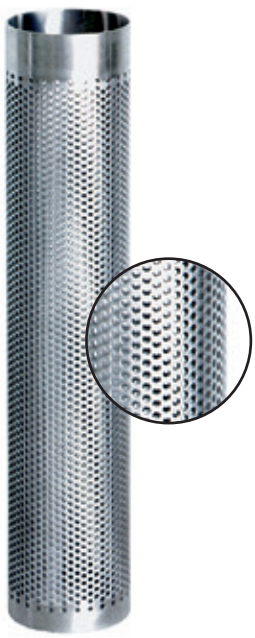
Perforated Strainer Elements					
Strainer Body Size	Strainer Element Size	Hole Size	Open Area	SHORT (15") Part #	LONG (30") Part #
4"	3"	1/16"	23%	**289084***	**277628***
4"	3"	3/32"	33%	**721068**	**720972**
4"	3"	1/8"	40%	**720584**	**720585**
4"	3"	1/4"	58%	**720411**	**720412**

Wedgewire Strainer Elements							
Strainer Body Size	Strainer Element Size	Slot Size	Micron Rating	Wire Mesh (Approx. Equiv.)	Open Area	SHORT (15") Part #	LONG (30") Part #
4"	3"	0.002"	50	270	4.1%	**700323**	**700334**
4"	3"	0.005"	125	120	9.6%	**700324**	**700335**
4"	3"	0.007"	177	80	13.0%	**700325**	**700336**
4"	3"	0.010"	250	60	17.5%	**700326**	**700337**
4"	3"	0.015"	380	40	24.2%	**700327**	**700338**
4"	3"	0.020"	500	32	29.9%	**700328**	**700339**
4"	3"	0.030"	750	25	39.0%	**700329**	**700340**
4"	3"	0.040"	1015	17	46.0%	**700330**	**700341**
4"	3"	0.060"	1524	10	56.1%	**700331**	**700342**
4"	3"	0.1875"	4775	4	72.5%	**700333**	**700343**

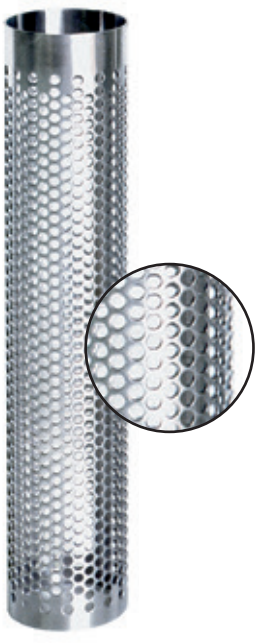
Non-stock product option.

NOTE: Slot size to micron is a nominally rated value only.

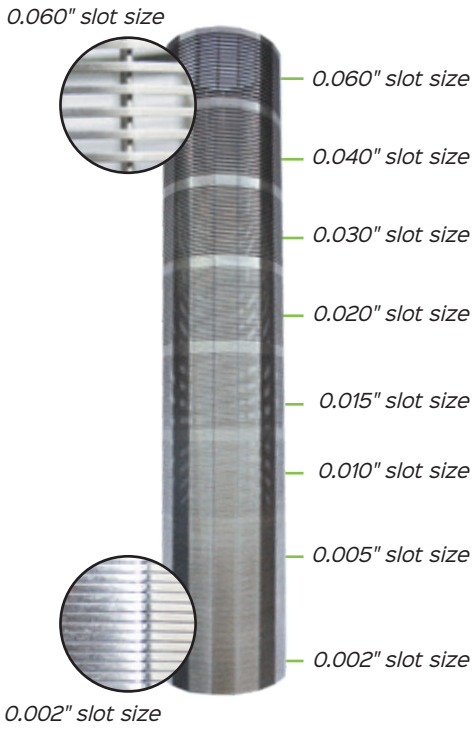
NOTE: Other perforated and wedgewire sizes are available.



⅛" Perforated Strainer Element



¼" Perforated Strainer Element



NOTE: Image is a demonstration piece highlighting the largest to smallest wedgewire slot sizes.

GOOD TO KNOW

- **Element Material:** 316L stainless steel
- **Sanitary ID Finish:** 32 µin Ra
- Wedgewire elements have some interior surfaces greater than 32 µin Ra due to construction process.
- Strainer elements protect your processing equipment and product integrity.
- Perforated and wedgewire elements provide different straining advantages:

Advantages of Perforated Element

- 3-A certified when used without mesh overlay
- Large open area ratio with lower pressure drops
- Can capture fine particulate with wire mesh overlay and filter tubes

Advantages of Wedgewire Element

- One piece solution
- Ability to handle higher differential pressures across strainer element

Straight-Line

2 Strainer Element Frames

Straight-Line Strainers Have a Standard Flow Direction Only

Strainer Model	Flow Direction	Strainer Element Frame Length[1]	Strainer Element Length	Strainer Body Length	Connection Size	Part #
Straight-Line	End-Inlet	18 1/16"	SHORT (15")	SHORT (Approx. 19")	1.5"	**740318**
Straight-Line	End-Inlet	18 1/16"	SHORT (15")	SHORT (Approx. 19")	2.0"	**740325**
Straight-Line	End-Inlet	18 1/16"	SHORT (15")	SHORT (Approx. 19")	2.5"	**740359**
Straight-Line	End-Inlet	18 1/16"	SHORT (15")	SHORT (Approx. 19")	3.0"	**740565**
Straight-Line	End-Inlet	19 19/32"	SHORT (15")	SHORT (Approx. 19")	4.0"	**740491**
Straight-Line	End-Inlet	33 1/16"	LONG (30")	LONG (Approx. 34")	1.5"	**740422**
Straight-Line	End-Inlet	33 1/16"	LONG (30")	LONG (Approx. 34")	2.0"	**740309**
Straight-Line	End-Inlet	33 1/16"	LONG (30")	LONG (Approx. 34")	2.5"	**740305**
Straight-Line	End-Inlet	33 1/16"	LONG (30")	LONG (Approx. 34")	3.0"	**740356**
Straight-Line	End-Inlet	34 19/32"	LONG (30")	LONG (Approx. 34")	4.0"	**740368**

[1]*Overall allowable length removal clearance.*

3 Strainer Bodies (4" Body Size)

Strainer Model	Strainer Body Length	Tri-Clamp Connection Size	Part #
Straight-Line	SHORT (Approx. 19")	1.5"	**740843**
Straight-Line	SHORT (Approx. 19")	2.0"	**740844**
Straight-Line	SHORT (Approx. 19")	2.5"	**740845**
Straight Line	SHORT (Approx. 19")	3.0"	**740846**
Straight-Line	SHORT (Approx. 19")	4.0"	**741141**
Straight-Line	LONG (Approx. 34")	1.5"	**740847**
Straight-Line	LONG (Approx. 34")	2.0"	**740848**
Straight-Line	LONG (Approx. 34")	2.5"	**740849**
Straight-Line	LONG (Approx. 34")	3.0"	**740850**
Straight-Line	LONG (Approx. 34")	4.0"	**741142**

4 End Plugs

Body Size	Material	Part #
4"	Teflon	**720988**
4"	Stainless	**118582**

Teflon End Plug

Stainless Steel End Plug

5 Retaining Clips

Body Size	Flow Direction	Part #
4"	End-Inlet (Standard Flow)	**740295**

6 Clamps

Body Size	Part #
4"	**020225**

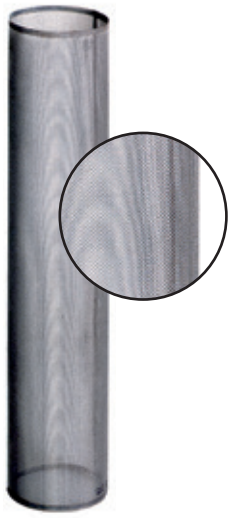
7 Gaskets

Material	Body Size	Part #
EPDM	4"	**021031**
Viton	4"	**020474**
Buna-N	4"	**020226**

Accessories

Mesh Overlays (For perforated elements only)

Mesh Size US	Micron (Approx. Equiv.)	Opening Width in Inches (Approx. Equivalent)	Open Area	SHORT (15") Part #	LONG (30") Part #
8	2360	0.0970"	60%	**035251**	**029664**
10	2000	0.0750"	56%	**000717**	**000701**
12	1700	0.0603"	52%	**035252**	**029665**
20	850	0.0340"	46%	**000712**	**000702**
30	600	0.0213"	41%	**000713**	**000703**
40	425	0.0150"	36%	**000714**	**000704**
50	300	0.0110"	30%	**000715**	**000705**
60	250	0.0092"	31%	**000716**	**000706**
80	180	0.0070"	31%	**000718**	**000708**
100	150	0.0060"	36%	**000711**	**000710**
120	125	0.0046"	31%	**000720**	**000707**
150	98	0.0041"	37%	**021276**	**021274**
200	75	0.0029"	34%	**021275**	**10000048**



Mesh Overlay

Filter Tube: 4" Body Size x 20.75" Strainers • 50/Box

4 ⅞" x 17" Filter Tubes (For 1"*, 1.5", 2", 2.5", 3", and 4" connections). Fits 3" x 15" Perforated Element.

Material	Width	Length (SHORT)	Max. Temperature (°F)	Micron	Part #
Non-Woven Rayon	4 7/8"	17"	400	25	**032789**
Polyester	4 7/8"	17"	400	40	**048602**
Polyester Screen	4 7/8"	17"	270 continuous, 455 short term	80	**041235**
Nylon Multifilament	4 7/8"	17"	185 continuous, 455 short term	150	**031264**
Polyester Knit	4 7/8"	17"	270 continuous, 455 short term	225	**033922**
Polyester Multifilament	4 7/8"	17"	270 continuous, 455 short term	250	**036985**
Cotton Cheese Cloth	4 7/8"	17"	300	300	**028476**
Nylon Leno	4 7/8"	17"	270 continuous, 455 short term	400	**048603**
Nylon Leno	4 7/8"	17"	185 continuous, 455 short term	800	**031133**
Nylon Multifilament	4 7/8"	17"	185 continuous, 455 short term	1000	**028335**

**1" filter tube is for SaniClean strainers only.*

Filter Tube: 4" Body Size x 36" Strainers • 50/Box

4 ⅞" x 33 ½" Filter Tubes (For 1"*, 1.5", 2", 2.5", 3", and 4" connections). Fits 3" x 30" Perforated Element.

Material	Width	Length (LONG)	Max. Temperature (°F)	Micron	Part #
Non-Woven Rayon	4 7/8"	33 1/2"	400	25	**028390**
Non-Woven Rayon	4 7/8"	33 1/2"	400	40	**028857**
Polyester Multifilament	4 7/8"	33 1/2"	270 continuous, 455 short term	80	**029075**
Nylon Multifilament	4 7/8"	33 1/2"	185 continuous, 455 short term	150	**028395**
Polyester Knit	4 7/8"	33 1/2"	270 continuous, 455 short term	225	**040565**
Polyester Multifilament	4 7/8"	33 1/2"	270 continuous, 455 short term	250	**030951**
Cotton Cheese Cloth	4 7/8"	33 1/2"	300	300	**028797**
Polyester Multifilament	4 7/8"	33 1/2"	270 continuous, 455 short term	400	**023864**
Cotton Flannel	4 7/8"	33 1/2"	300	500	**029190**
Nylon Monofilament	4 7/8"	33 1/2"	275	500	**041618**
Nylon Leno	4 7/8"	33 1/2"	185 continuous, 455 short term	800	**10000044**

SaniClean™ Strainers

The SaniClean™ strainer by Newark Wire Cloth Company is a direct replacement for a Tri-Clover style strainer. This strainer is constructed of 316L stainless steel and maintains an ID finish of 25 µin Ra and OD of 35 µin Ra. It is an alternative for your in-line (or straight-line) strainer needs. Wire mesh overscreens with longitudinal seams fit over the perforated support cores (or elements) to ensure a consistent diameter for the full length of the cylinder. Hemmed seams are tacked in place to provide a smooth, finished edge.

Complete Inline (or Straight-Line) Strainer Assemblies

Assemblies Include: Filter Body, Outlet Assembly, Distributor Cap, Spring, Clamp, Gasket (Buna-N), and Perforated Support Core (or Element).

Tri-Clamp Connections, 4" Body Size x 15.75", 3" Support Core (Element)

Connection Size	Body Size	Body Length	Perf Size	Element Size	Part #
1.0"	4.0"	SHORT (15.75")	1/8"	3.0" x 10 7/8"	**5009005**
1.0"	4.0"	SHORT (15.75")	1/4"	3.0" x 10 7/8"	**5009000**
1.5"	4.0"	SHORT (15.75")	1/8"	3.0" x 10 7/8"	**5009015**
1.5"	4.0"	SHORT (15.75")	1/4"	3.0" x 10 7/8"	**5009010**
2.0"	4.0"	SHORT (15.75")	1/8"	3.0" x 10 7/8"	**5009025**
2.0"	4.0"	SHORT (15.75")	1/4"	3.0" x 10 7/8"	**5009020**

Tri-Clamp Connections, 4.5" Body Size x 15.75", 3.5" Support Core (Element)

Connection Size	Body Size	Body Length	Perf Size	Element Size	Part #
2.5"	4.5"	SHORT (15.75")	1/8"	3.5" x 10 7/8"	**5009035**
2.5"	4.5"	SHORT (15.75")	1/4"	3.5" x 10 7/8"	**5009030**
3.0"	4.5"	SHORT (15.75")	1/8"	3.5" x 10 7/8"	**5009045**
3.0"	4.5"	SHORT (15.75")	1/4"	3.5" x 10 7/8"	**5009040**

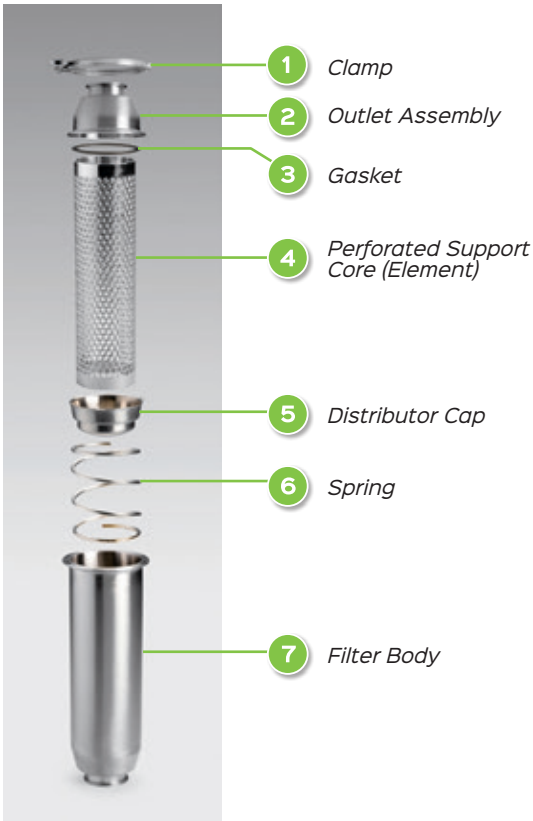
Tri-Clamp Connections, 4" Body Size x 35.38", 3" Support Core (Element)

Connection Size	Body Size	Body Length	Perf Size	Element Size	Part #
1.0"	4.0"	LONG (35.38")	1/8"	3.0" x 30 3/4"	**5009055**
1.0"	4.0"	LONG (35.38")	1/4"	3.0" x 30 3/4"	**5009050**
1.5"	4.0"	LONG (35.38")	1/8"	3.0" x 30 3/4"	**5009065**
1.5"	4.0"	LONG (35.38")	1/4"	3.0" x 30 3/4"	**5009060**
2.0"	4.0"	LONG (35.38")	1/8"	3.0" x 30 3/4"	**5009075**
2.0"	4.0"	LONG (35.38")	1/4"	3.0" x 30 3/4"	**5009070**

Tri-Clamp Connections, 4.5" Body Size x 35.38", 3.5" Support Core (Element)

Connection Size	Body Size	Body Length	Perf Size	Element Size	Part #
2.5"	4.5"	LONG (35.38")	1/8"	3.5" x 30 3/4"	**5009085**
2.5"	4.5"	LONG (35.38")	1/4"	3.5" x 30 3/4"	**5009080**
3.0"	4.5"	LONG (35.38")	1/8"	3.5" x 30 3/4"	**5009095**
3.0"	4.5"	LONG (35.38")	1/4"	3.5" x 30 3/4"	**5009090**

SaniClean™ Replacement Parts



1 Clamp

Connection Size	Body Size	Part #
1.0" / 1.5" / 2.0"	4.0"	**5000750**
2.5" / 3.0"	4.5"	**5000850**

2 Outlet Assembly/Clamped Connection (Lid)

Clamped Connection Size	Part #	Bevel Seat Connection Size	Part #
1.0"	**5000700**	1.0"	**5000705**
1.5"	**5000800**	1.5"	**5000805**
2.0"	**5000900**	2.0"	**5000905**
2.5"	**5001000**	2.5"	**5001005**
3.0"	**5002000**	3.0"	**5002005**

3 Gaskets

Description	Connection Size	4" Body Size Part #	Connection Size	4.5" Body Size Part #
Buna-N (Standard)	1.0" / 1.5" / 2.0"	**5000760**	2.5" / 3.0"	**5000765**
Silicone	1.0" / 1.5" / 2.0"	**5000770**	2.5" / 3.0"	**5000775**
EPDM	1.0" / 1.5" / 2.0"	**5000780**	2.5" / 3.0"	**5000785**
Viton-SFY	1.0" / 1.5" / 2.0"	**5000790**	2.5" / 3.0"	**5000795**

4 Perforated Support Cores (Elements)

Connection Size	Body Size	Perf Size	Body Length	Support Core (Element)	Part #
1.0" / 1.5" / 2.0"	4.0"	1/8"	SHORT (15.75")	3.0" x 10 7/8"	**5005010**
1.0" / 1.5" / 2.0"	4.0"	1/4"	SHORT (15.75")	3.0" x 10 7/8"	**5005030**
1.0" / 1.5" / 2.0"	4.0"	1/8"	LONG (35.38")	3.0" x 30 3/4"	**5005050**
1.0" / 1.5" / 2.0"	4.0"	1/4"	LONG (35.38")	3.0" x 30 3/4"	**5005070**
Connection Size	**Body Size**	**Perf Size**	**Body Length**	**Support Core (Element)**	**Part #**
2.5" / 3.0"	4.5"	1/8"	SHORT (15.75")	3.5" x 10 7/8"	**5006090**
2.5" / 3.0"	4.5"	1/4"	SHORT (15.75")	3.5" x 10 7/8"	**5006100**
2.5" / 3.0"	4.5"	1/8"	LONG (35.38")	3.5" x 30 3/4"	**5006120**
2.5" / 3.0"	4.5"	1/4"	LONG (35.38")	3.5" x 30 3/4"	**5006130**

5 Distributor Cap

Connection Size	Body Size	Part #
1.0" / 1.5" / 2.0"	4.0"	**5000730**
2.5" / 3.0"	4.5"	**5001030**

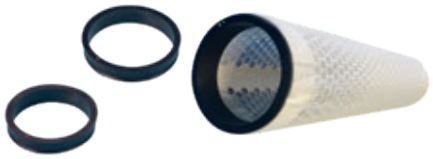
6 Spring

Connection Size	Body Size	Part #
1.0" / 1.5" / 2.0"	4.0"	**5000740**
2.5" / 3.0"	4.5"	**5001040**

7 Filter Body

Clamped Connection Size	SHORT Body Part #	LONG Body Part #
1.0"	**5000710**	**5000720**
1.5"	**5000810**	**5000820**
2.0"	**5000910**	**5000920**
2.5"	**5001010**	**5001020**
3.0"	**5002010**	**5002020**

Accessories



Retaining Rings

Retaining Rings Hold Filter Tubes' Support Cores (Elements)

Description	Part #
Retaining Rings (Buna-N) - to fit 3" dia. Perforated Element	**3100108**
Retaining Rings (Viton-SFY) - to fit 3" dia. Perforated Element	**3100114**
Retaining Rings (EPDM) - to fit 3" dia. Perforated Element	**3100130**
Retaining Rings (Buna-N) - to fit 3.5" dia. Perforated Element	**3100109**
Retaining Rings (Viton-SFY) - to fit 3.5" dia. Perforated Element	**3100124**
Retaining Rings (EPDM) - to fit 3.5" dia. Perforated Element	**3100131**

Filter Tubes: 4.5" Body Size • 50/Box

5 5/8" x 13 1/2" Filter Tubes (For 2.5", 3", and 4" Connections). Fits 3.5" x 11" Perforated Support Core (Element)

Material	Width	Length (SHORT)	Micron	Part #
Non-Woven Rayon	5 5/8"	13 1/2"	40	**031840**
Polyester Screen	5 5/8"	13 1/2"	80	**048624**
Nylon Multifilament	5 5/8"	13 1/2"	150	**048625**
Polyester Knit	5 5/8"	13 1/2"	225	**048626**
Smooth Weave Dacron	5 5/8"	13 1/2"	250	**048627**
Cotton Cheese Cloth	5 5/8"	13 1/2"	300	**029189**
Nylon Monofilament	5 5/8"	13 1/2"	300	**048628**
Nylon Monofilament	5 5/8"	13 1/2"	400	**048629**
Cotton Flannel	5 5/8"	13 1/2"	500	**033778**
Nylon Monofilament	5 5/8"	13 1/2"	500	**048630**
Nylon Leno	5 5/8"	13 1/2"	765	**048631**

Filter Tubes: 4.5" Body Size • 50/Box

5 5/8" x 33 1/2" Filter Tubes (For 2.5", 3" and 4" Connections). Fits 3.5" x 31" Perforated Support Core (Element)

Material	Width	Length (LONG)	Micron	Part #
Non-Woven Rayon	5 5/8"	33 1/2"	25	**029473**
Non-Woven Rayon	5 5/8"	33 1/2"	40	**030660**
Polyester Screen	5 5/8"	33 1/2"	80	**048604**
Nylon Multifilament	5 5/8"	33 1/2"	150	**035341**
Polyester Knit	5 5/8"	33 1/2"	225	**038186**
Smooth Weave Dacron	5 5/8"	33 1/2"	250	**035342**
Cotton Cheese Cloth	5 5/8"	33 1/2"	300	**032668**
Nylon Monofilament	5 5/8"	33 1/2"	300	**048605**
Nylon Monofilament	5 5/8"	33 1/2"	400	**039161**
Plain Weave Polyester	5 5/8"	33 1/2"	400	**048606**
Cotton Flannel	5 5/8"	33 1/2"	500	**048607**
Nylon Monofilament	5 5/8"	33 1/2"	500	**048608**
Nylon Leno	5 5/8"	33 1/2"	765	**048609**

Mesh Overscreens for SaniClean Strainers

Description 3" Dia. x 10 7/8" Length (SHORT)	Mesh Size	Part #
Wire Mesh Overscreen	10	**5000010**
Wire Mesh Overscreen	12	**5000020**
Wire Mesh Overscreen	14	**5000030**
Wire Mesh Overscreen	16	**5000040**
Wire Mesh Overscreen	18	**5000050**
Wire Mesh Overscreen	20	**5000060**
Wire Mesh Overscreen	24	**5000070**
Wire Mesh Overscreen	30	**5000080**
Wire Mesh Overscreen	40	**5000090**
Wire Mesh Overscreen	50	**5000095**
Wire Mesh Overscreen	60	**5000100**
Wire Mesh Overscreen	80	**5000110**
Wire Mesh Overscreen	100	**5000120**
Wire Mesh Overscreen	120	**5000130**
Wire Mesh Overscreen	150	**5000140**
Wire Mesh Overscreen	200	**5000150**

Description 3 1/2" Dia. x 10 7/8" Length (SHORT)	Mesh Size	Part #
Wire Mesh Overscreen	10	**5000160**
Wire Mesh Overscreen	12	**5000170**
Wire Mesh Overscreen	14	**5000180**
Wire Mesh Overscreen	16	**5000190**
Wire Mesh Overscreen	18	**5000200**
Wire Mesh Overscreen	20	**5000210**
Wire Mesh Overscreen	24	**5000220**
Wire Mesh Overscreen	30	**5000230**
Wire Mesh Overscreen	40	**5000240**
Wire Mesh Overscreen	50	**5000245**
Wire Mesh Overscreen	60	**5000250**
Wire Mesh Overscreen	80	**5000260**
Wire Mesh Overscreen	100	**5000270**
Wire Mesh Overscreen	120	**5000280**
Wire Mesh Overscreen	150	**5000290**
Wire Mesh Overscreen	200	**5000300**

Description 3" Dia. x 30 3/4" Length (LONG)	Mesh Size	Part #
Wire Mesh Overscreen	10	**5000510**
Wire Mesh Overscreen	12	**5000520**
Wire Mesh Overscreen	14	**5000530**
Wire Mesh Overscreen	16	**5000540**
Wire Mesh Overscreen	18	**5000550**
Wire Mesh Overscreen	20	**5000560**
Wire Mesh Overscreen	24	**5000570**
Wire Mesh Overscreen	30	**5000580**
Wire Mesh Overscreen	40	**5000590**
Wire Mesh Overscreen	50	**5000595**
Wire Mesh Overscreen	60	**5000600**
Wire Mesh Overscreen	80	**5000610**
Wire Mesh Overscreen	100	**5000620**
Wire Mesh Overscreen	120	**5000630**
Wire Mesh Overscreen	150	**5000640**
Wire Mesh Overscreen	200	**5000650**

Description 3 1/2" Dia. x 30 3/4" Length (LONG)	Mesh Size	Part #
Wire Mesh Overscreen	10	**5000310**
Wire Mesh Overscreen	12	**5000320**
Wire Mesh Overscreen	14	**5000330**
Wire Mesh Overscreen	16	**5000340**
Wire Mesh Overscreen	18	**5000350**
Wire Mesh Overscreen	20	**5000360**
Wire Mesh Overscreen	24	**5000370**
Wire Mesh Overscreen	30	**5000380**
Wire Mesh Overscreen	40	**5000390**
Wire Mesh Overscreen	50	**5000395**
Wire Mesh Overscreen	60	**5000400**
Wire Mesh Overscreen	80	**5000410**
Wire Mesh Overscreen	100	**5000420**
Wire Mesh Overscreen	120	**5000430**
Wire Mesh Overscreen	150	**5000440**
Wire Mesh Overscreen	200	**5000450**

Tee-Line Strainers

Protect Your Pumps and Equipment

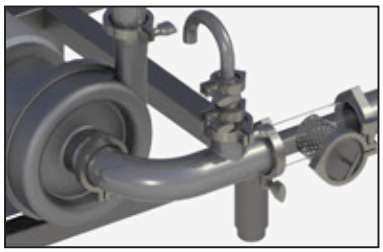
Sani-Matic Tee-Line Strainers are designed to keep materials out of your pumps and process equipment. And, because the strainer's open area of perforation exceeds line size diameter, there is minimal pressure drop.

Engineered with durability and simplicity in mind, the tri-clamp connection allows for quick Element Insert removal and easy cleaning. The Tee-Line Strainers are also available with alignment pins to ensure proper installation every time.

Purchasing the complete assembly — tee, insert, gasket and tri-clamp — is recommended to ensure a proper fit.

QUICK TIPS

Want an economical and easy way to prolong the life of your equipment?



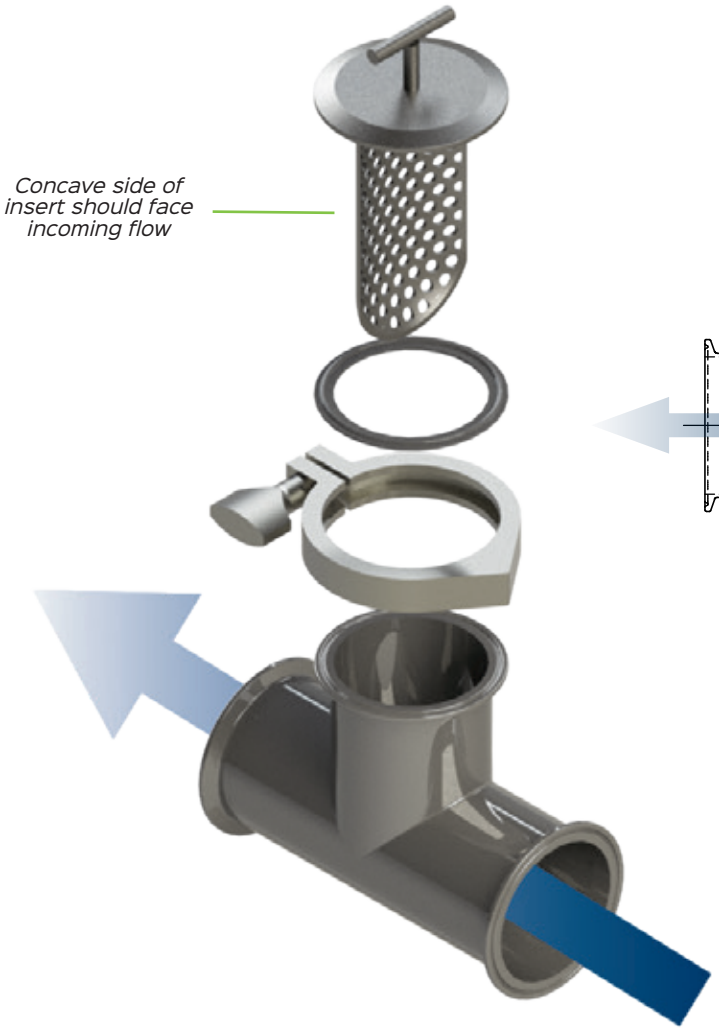
Install Tee-Line Strainers at the suction end of the pump to protect the pump, process equipment and valves from foreign materials, such as gasket pieces, bolts, and other items.

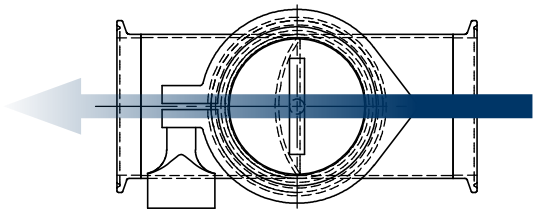
How should the insert be positioned?

The concave side of the insert (or scooped side) should be positioned facing the incoming flow. The insert handle should be positioned perpendicular to the line.

GOOD TO KNOW

- **Strainer & Element Material:** 316L stainless steel
- The open area of perforation exceeds the line size diameter
- The Tee-Line Strainer with alignment pin keeps the insert properly positioned
- Connection size and body size are always equal

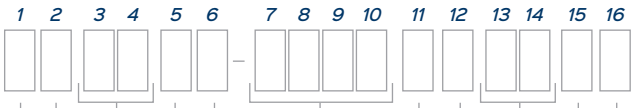




Recommended process line installation positioning.

Tee-Line Strainer Model Number Key

Example Model #: TX15T7-P125X01500



1	**Strainer Model**	
	T	Tee-Line
2	**Body Length**	
	X	Standard Body
3, 4	**Connection Size**	
	15	1.5"
	20	2.0"
	25	2.5"
	30	3.0"
	40	4.0"
	60	6.0"*
5	**Connection Type**	
	T	Tri-Clamp (Standard)
	W	Butt Weld*
6	**Finish / Polish**	
	7	Bead Blast Insert & 32 µin Ra / Mechanical Polish Body (Standard)
	3	32 µin Ra / Mechanical Polish Body & Insert*
	1	20 µin Ra / Mechanical Polish Body & Insert*
	8	32 µin Ra / Electropolish Body & Insert*
	4	15 µin Ra / Electropolish Body & Insert*
7-10	**Element Type / Size**	
	P062	Perforated / 0.0625" (1/16")*
	P125	Perforated / 0.125" (1/8")
	P250	Perforated / 0.25" (1/4")
11	**Flow Direction**	
	X	Standard Flow
12	**Seal Kit**	
	0	EPDM (Standard)
	1	Viton
	3	Buna-N
13, 14	**Body Size**	
	15	1.5"
	20	2.0"
	25	2.5"
	30	3.0"
	40	4.0"
	60	6.0"*
15	**Option #1**	
	0	None (Standard)
	A	Alignment Pin
16	**Option #2**	
	0	None (Standard)

Non-stock product option. Longer lead times will apply.

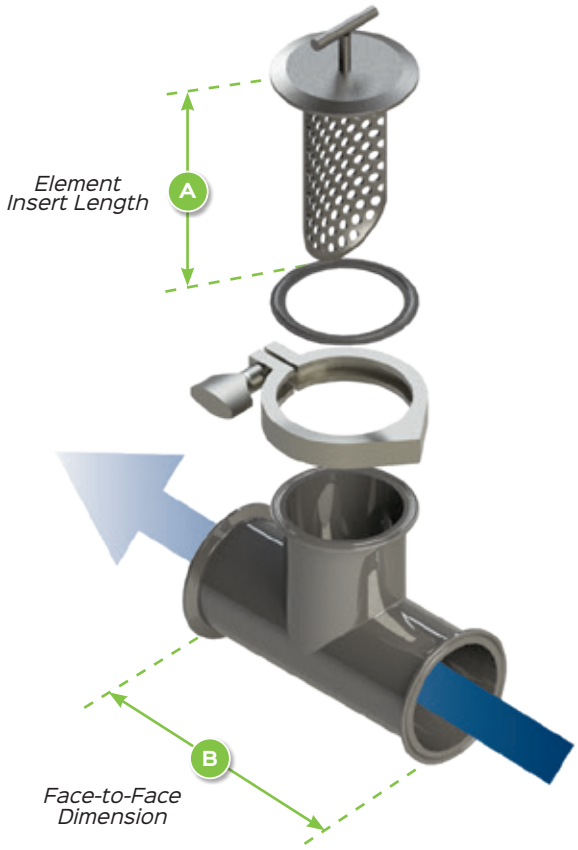
NOTE: Connection size and body size are always equal.

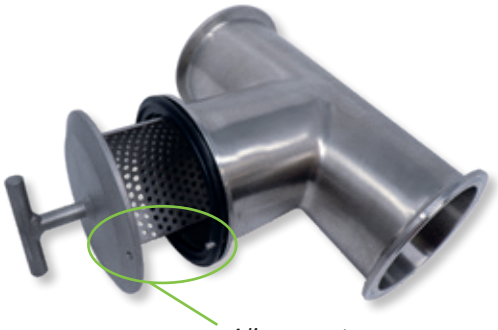
Reference: Part Number & New Model Number Comparison

Connection Size	Perforated Hole Size	Element Insert Length (A)	Face-to-Face Tee Dimension (B)	Tee-Line Part #	Tee-Line New Model Key #	Tee-Line w/ Alignment Pin Part #	Tee-Line w/ Alignment Pin New Model Key #
1.5"	1/8"	3.50"	5.5"	105712	TX15T7-P125X01500	112278	TX15T7-P125X015A0
1.5"	1/4"	3.50"	5.5"	105727	TX15T7-P250X01500	242321	TX15T7-P250X015A0
2.0"	1/8"	4.50"	7.0"	105719	TX20T7-P125X02000	110840	TX20T7-P125X020A0
2.0"	1/4"	4.50"	7.0"	105730	TX20T7-P250X02000	157689	TX20T7-P250X020A0
2.5"	1/8"	4.75"	7.0"	105721	TX25T7-P125X02500	204996	TX25T7-P125X025A0
2.5"	1/4"	4.75"	7.0"	105732	TX25T7-P250X02500	114697	TX25T7-P250X025A0
3.0"	1/8"	5.25"	7.5"	105723	TX30T7-P125X03000	119119	TX30T7-P125X030A0
3.0"	1/4"	5.25"	7.5"	105734	TX30T7-P250X03000	117029	TX30T7-P250X030A0
4.0"	1/8"	6.50"	9.0"	105725	TX40T7-P250X04000	178006	TX40T7-P250X040A0
4.0"	1/4"	6.50"	9.0"	105736	TX40T7-P250X04000	179119	TX40T7-P250X040A0
6.0"	1/8"	9.375"	13.0"	110165	TX60T7-P125X06000*	284367	TX60T7-P125X060A0*
6.0"	1/4"	9.375"	13.0"	110166	TX60T7-P250X06000*	276900	TX60T7-P250X060A0*

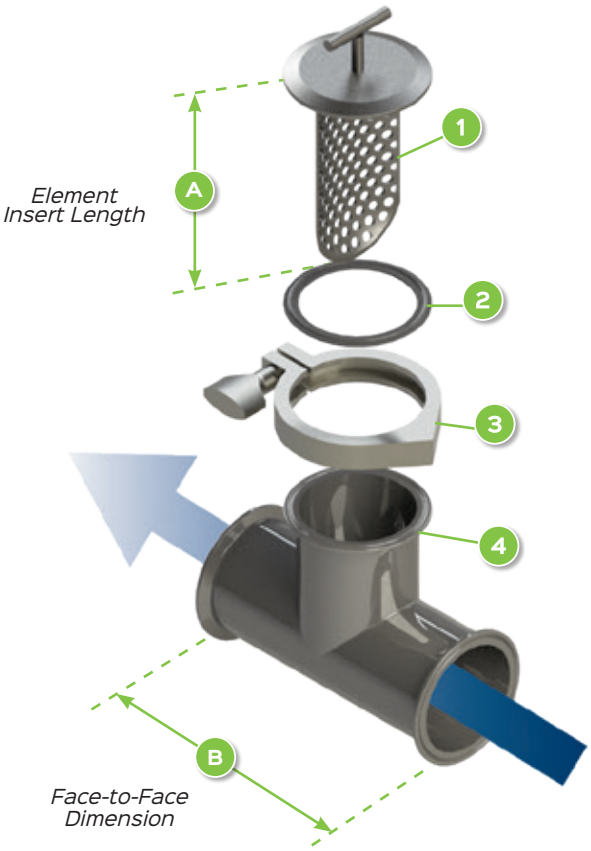
Non-stock product option. Longer lead times will apply.

NOTE: Connection size and body size are always equal.





Replacement Parts



1. Element Insert
2. Gasket
3. Clamp
4. Strainer Body

1 Element Inserts

Connection Size	Perforated Hole Size	Element Insert Length (A)	Insert w/o Alignment Pin Part #	Insert w/ Alignment Pin Part #
1.5"	1/16"	3.50"	**740749***	**289398***
1.5"	1/8"	3.50"	**740754**	**285880**
1.5"	1/4"	3.50"	**740759**	**285881**
2.0"	1/16"	4.50"	**740750***	**289399***
2.0"	1/8"	4.50"	**740755**	**285882**
2.0"	1/4"	4.50"	**740760**	**158017**
2.5"	1/16"	4.75"	**740751***	**289400***
2.5"	1/8"	4.75"	**740756**	**285883**
2.5"	1/4"	4.75"	**740761**	**285857**
3.0"	1/16"	5.25"	**740752***	**289401***
3.0"	1/8"	5.25"	**740757**	**285013**
3.0"	1/4"	5.25"	**740762**	**269047**
4.0"	1/16"	6.50"	**740753***	**289402***
4.0"	1/8"	6.50"	**740758**	**285884**
4.0"	1/4"	6.50"	**740763**	**285885**
6.0"	1/16"	9.375"	**289393***	**289403***
6.0"	1/8"	9.375"	**740991***	**285886***
6.0"	1/4"	9.375"	**741035***	**285887***

Non-stock product option. Longer lead times will apply.

NOTE: If not using Sani-Matic Tee-Line Strainer body, customer must supply a tee-line strainer body to match insert length.

NOTE: Other perforated hole sizes are available.

2 Gaskets

Connection Size	EPDM Gaskets w/o Alignment Pin Part #	EPDM Gaskets w/ Alignment Pin Part #
1.5"	021027	020455
2.0"	021028	258816
2.5"	021029	277242
3.0"	021030	277243
4.0"	021031	277244
6.0"	022975	277245

NOTE: EPDM is the standard. Other gasket materials are available.

3 Clamps

Connection Size	Part #
1.5"	020081
2.0"	020082
2.5"	020083
3.0"	020084
4.0"	020225
6.0"	020976

4 Strainer Body

Tri-Clamp Connection Size	Face-to-Face Tee Dimension (B)	Tee-Line Body w/o Alignment Pin Part #	Tee- Line Body w/ Alignment Pin Part #
1.5"	5.5"	020901	288162
2.0"	7.0"	020902	288163
2.5"	7.0"	020903	288164
3.0"	7.5"	020904	288165
4.0"	9.0"	020905	288166
6.0"	13.0"	034337*	288167*

Non-stock product option.

Face-to-Face Dimension

Y-Strainers

Small Footprint, Big Increase in Productivity

Sani-Matic Y-Strainers are designed to fit into tight piping configurations and provide quick access to the straining element for easy cleaning. The high-quality, durable strainers are made in the USA, which allows fast turnaround times.

Sani-Matic Y-Strainers are engineered and manufactured with a close-tolerance fit (0.010") at the base of the element and do not require an O-ring. Fewer parts result in simpler maintenance and less downtime – increasing production performance and saving you time and money.

Sani-Matic's standard Y-Strainers are 3-A certified when a perforated element is used. If 3-A certification is required, contact Sani-Matic to ensure the configuration meets all 3-A standards.

QUICK TIPS

How do you install a Y-Strainer?

The Y-Strainer should be installed in the process line with the Element's handle pointing toward the floor.

Why are Y-Strainers perfect for manufacturing chocolate?

Sani-Matic's custom-designed hot water jackets can help keep confectionery products, such as chocolate, flowing through the production lines.

GOOD TO KNOW

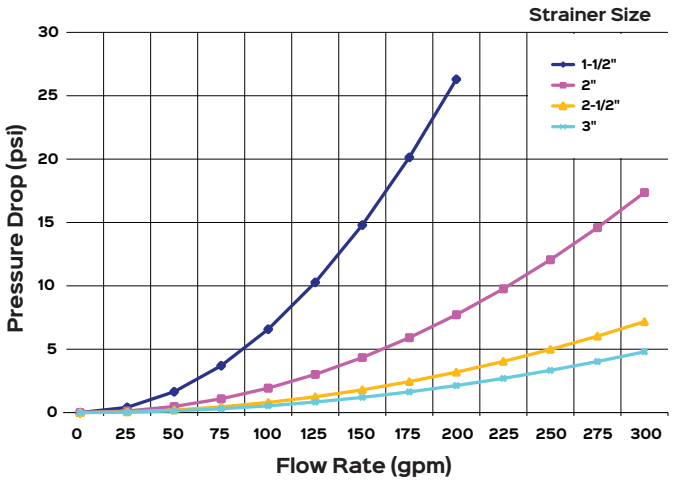
- **Strainer & Element Material:** 316L stainless steel
- **Sanitary ID Finish:** 32 µin Ra
- **Maximum Temperature Rating:** 250 °F
- **Full Assembly Maximum Pressure Rating:** 120 psi
- Wedgewire elements have some interior surfaces greater than 32 µin Ra due to the construction process.
- Hot water jacket is available in 4" body size and 1.5"-3.0" connection sizes
- Perforated or wedgewire strainer elements are interchangeable

Cv Values for Y-Strainer

		Connection Size			
		1.5"	2.0"	2.5"	3.0"
Element Size	WW 0.010"	39	71	111	125
	WW 0.015"	39	72	112	137
	WW 0.020"	39	73	113	143
	WW 0.030"	39	73	116	152
	WW 0.040"	39	73	121	160
	WW 0.060"	39	76	125	165
	Perf. 1/8"	38	72	115	148
	Perf. 1/4"	38	75	122	159

Pressure drop for 70 °F water can be calculated using the following formula: psi = (gpm/Cv)².

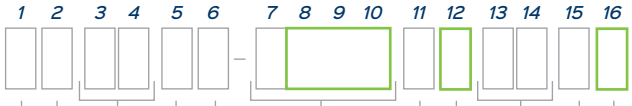
Pressure Drop for Y-Strainer



Performance based on testing using 70 °F water and 0.015" wedgewire elements.

Y-Strainer Model Number Key

Example Model #: YX15T3-P125X04000



1	**Strainer Model**	
	Y	Y-Strainers
2	**Body Length**	
	X	Standard Body
3, 4	**Connection Size**	
	15	1.5"
	20	2.0"
	25	2.5"
	30	3.0"
	40	4.0"
5	**Connection Type**	
	T	Tri-Clamp (Standard)
	W	Butt Weld*
6	**Finish / Polish**	
	3	32 µin Ra / Mechanical Polish (Standard)
	1	20 µin Ra / Mechanical Polish*
	8	32 µin Ra / Electropolish*
	4	15 µin Ra / Electropolish*
7-10	**Element Type / Size**	
	P125	Perforated / 0.125" (1/8")
	P250	Perforated / 0.25" (1/4")
	W010	Wedgewire / 0.010"
	W015	Wedgewire / 0.015"
	W020	Wedgewire / 0.020"*
	W030	Wedgewire / 0.030"
	W040	Wedgewire / 0.040"*
	W060	Wedgewire / 0.060"
11	**Flow Direction**	
	X	Standard Flow
12	**Seal Kit**	
	0	EPDM (Standard)
	1	Viton
	3	Buna-N
13, 14	**Body Size**	
	40	4.0"
	60	6.0"
15	**Option #1**	
	0	None (Standard)
16	**Option #2**	
	0	None (Standard)
	1	Single Sight Glass*
	2	Dual Sight Glass*
	D	Drain / Sample Port*
	3	Dual Sight Glass & Drain / Sample Port*

Non-stock product option. Longer lead times will apply.

NOTE: 4.0" Connection Size is the only size that uses a 6.0" Body Size.

Reference: Former Part Number & New Model Number Comparison

Reference Model Number Key for selections to be made. Selections are designated by empty green boxes in the table below.

Perforated Strainer Elements							
Strainer Body Size	Connection Size	Face-to-Face Dimension	Old Part #	New Model Key #	Max. gpm	Y-Strainer w/ Dual Sight Glass Old Part #	Y-Strainer w/ Dual Sight Glass New Model Key #
4"	1.5"	10"	Y10015	YX15T3-P☐X☐400☐	70	Y10115	YX15T3-P☐X☐4002
4"	2.0"	11"	Y10020	YX20T3-P☐X☐400☐	130	Y10120	YX20T3-P☐X☐4002
4"	2.5"	12"	Y10025	YX25T3-P☐X☐400☐	205	Y10125	YX25T3-P☐X☐4002
4"	3.0"	14"	Y10030	YX30T3-P☐X☐400☐	300	Y10130	YX30T3-P☐X☐4002
6"	4.0"	17"	Y10040	YX40T3-P☐X☐600☐	450	Y10140	YX40T3-P☐X☐6002
Wedgewire Strainer Elements							
Strainer Body Size	Connection Size	Face-to-Face Dimension	Old Part #	New Model Key #	Max. gpm	Y-Strainer w/ Dual Sight Glass Old Part #	Y-Strainer w/ Dual Sight Glass New Model Key #
4"	1.5"	10"	Y20015	YX15T3-W☐X☐400☐	70	Y20115	YX15T3-W☐X☐4002
4"	2.0"	11"	Y20020	YX20T3-W☐X☐400☐	130	Y20120	YX20T3-W☐X☐4002
4"	2.5"	12"	Y20025	YX25T3-W☐X☐400☐	205	Y20125	YX25T3-W☐X☐4002
4"	3.0"	14"	Y20030	YX30T3-W☐X☐400☐	300	Y20130	YX30T3-W☐X☐4002
6"	4.0"	17"	Y20040	YX40T3-W☐X☐600☐	450	Y20140	YX40T3-W☐X☐6002

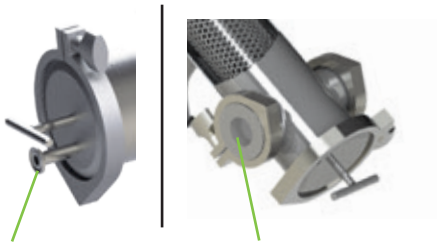
NOTE: 4.0" Connection Size is the only size that uses a 6.0" Body Size.

Y-Strainer Options

The Drain / Sample Port helps operators drain the majority of liquid from the strainers before removing the element for cleaning. Air relief sample valves are recommended for the Drain / Sample Port option.

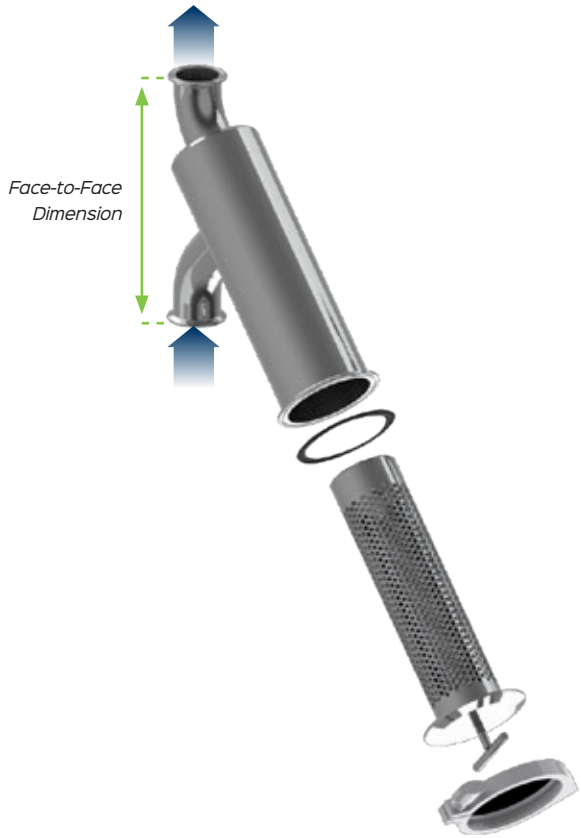
Strainer sight glasses provide visual access to product.

These options do not meet 3-A standards.



Drain / Sample Port

Dual Sight Glass



Replacement Parts

1. Strainer Element
2. Clamp
3. Gasket
4. Strainer Body
5. Sight Glass Replacement

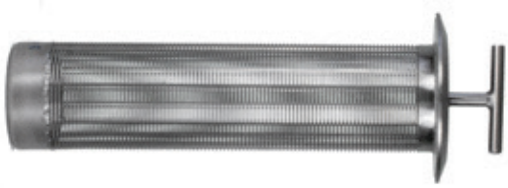
1 Strainer Elements

Perforated Element		
Hole Size	For 4" Strainer Body Size[1] Part #	For 6" Strainer Body Size[2] Part #
1/8"	700226	700513
1/4"	240959	700524

[1] Perforated elements for a 4" body diameter maintain a 3" diameter.
[2] Perforated elements for a 6" body diameter maintain a 4" diameter.
NOTE: Other sizes are available.

Wedgewire Element		
Slot Size	For 4" Strainer Body Size[3] Part #	For 6" Strainer Body Size[4] Part #
0.010"	700232	700504
0.015"	700164	700505
0.020"	700234*	700506*
0.030"	700236	700507
0.040"	700238*	700508*
0.060"	700240	700509

[3] Wedgewire elements for a 4" body diameter maintain a 3" diameter.
[4] Wedgewire elements for a 6" body diameter maintain a 4" diameter.
Non-stock product option.



2 Clamps

For 4" Body Size Part #	For 6" Body Size Part #
020225	020976

3 Gaskets

Material	For 4" Body Size Part #	For 6" Body Size Part #
EPDM (Standard)	021031	022975
Viton	020474	023847
Buna-N	020226	020263

4 Strainer Body

Tri-Clamp Connection Size	4" Body Size - Standard Part #	4" Body Size - Sight Glass Part #
1.5"	**700249**	**103786**
2.0"	**700243**	**103779**
2.5"	**700245**	**103801**
3.0"	**700247**	**103805**
Tri-Clamp Connection Size	**6" Body Size - Standard Part #**	**6" Body Size - Sight Glass Part #**
4.0"	**700471**	**103810**

5 Sight Glass Replacement

Description	Part #
2.5" Tri-Clamp Metaglas® single replacement lens	**047043**

NOTE: Rated at 200 psi @ 536 °F.
NOTE: Metaglas® is not 3-A certified.

Air Relief Vent Valve

Description	Part #
Air Relief Vent Valve with 1/2" connection used with the Drain / Sample Port strainer option.	**021881**

NOTE: Air relief sample valves are recommended for the Drain / Sample Port option.

Accessories

Filter Tubes: 4" Body Size • 50/Box

4 7/8" x 13 1/2" Filter Tubes (For 1.5", 2", 2.5", 3" and 4" connections). Fits 3" x 11" Perforated Element.
NOTE: Y-Strainer filter tubes require a custom strainer element.

Material	Width	Length	Max. Temperature (°F)	Micron	Part #
Nylon Multifilament	4 7/8"	13 1/2"	185 continuous, 455 short term	150	**043742**
Polyester Multifilament	4 7/8"	13 1/2"	270 continuous, 455 short term	250	**042234**
Cotton Cheese Cloth	4 7/8"	13 1/2"	300	300	**048601**
Nylon Monofilament	4 7/8"	13 1/2"	275	400	**031126**
Polyester Multifilament	4 7/8"	13 1/2"	270 continuous, 455 short term	400	**043743**

NOTE: Other micron sizes are available.

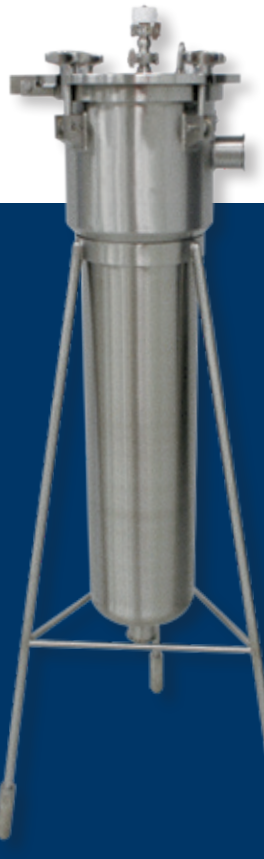
Wire Mesh Overlays (For Y-Strainers using perforated elements)

Wire Mesh Overlay - 4" Body Size	
Mesh Size	Part #
10	**032867**
20	**032868**
30	**032869**
40	**032870**
50	**032871**
60[1]	**032872**
80[1]	**032873**
100[1]	**032874**
120[1]	**032875**

Wire Mesh Overlay - 6" Body Size	
Mesh Size	Part #
10	**032876**
20	**032877**
30	**032878**
40	**032879**
50	**032880**
60[1]	**032881**
80[1]	**032882**
100[1]	**032883**
120[1]	**032884**

[1] *Due to the 0.010 fit of the Y-Strainer Element, mesh sizes 60 to 120 may not capture the particles intended with finer mesh.*
NOTE: Use of wire mesh overlay is not compliant with 3-A standard.

Basket Strainers



High Volume, High Performance

Sani-Matic Basket Strainers are specially constructed to strain particulates out of a high-volume process stream. The innovative, durable design includes a side-inlet, which allows you to easily remove the basket for cleaning without disconnecting the line.

Our Basket Strainers can be equipped with either a wedgewire or perforated element. Filter bags can be used for finer straining applications and are available in a wide variety of media types and micron sizes.

The strainer's lid and hand knob closure are rated for higher pressures than clamp-style covers, which improves operator safety.

Sani-Matic's standard Basket Strainers are 3-A certified when used with a perforated element. If 3-A certification is required, contact a Sani-Matic representative to ensure the configuration meets all 3-A standards.

QUICK TIPS

How do we know the Sani-Matic Basket Strainer can capture a large amount of particulate from your high-volume process?

Each of the basket strainers manufactured is pressure tested to 100 psi using a hydrostatic water test for quality assurance.

Are filter bags 3-A certified?

While filter bags can be used with perforated elements for finer straining applications, they are not 3-A certified.

Note: Filter bags require clamp ring and locking latch and are sold separately.

When there is a heavy soil load, how can we remove the strainer element?

An overhead crane may be needed to remove strainers containing heavy soil.

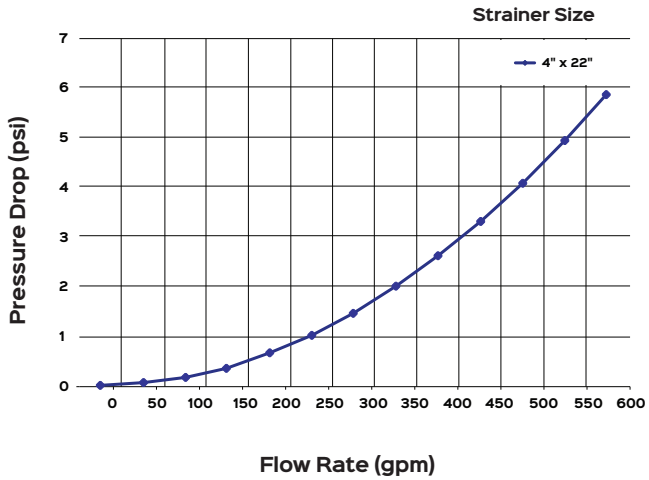
Why is the standard air relief valve important?

The air relief vent valve is used to relieve line pressure prior to opening the basket strainer cover.

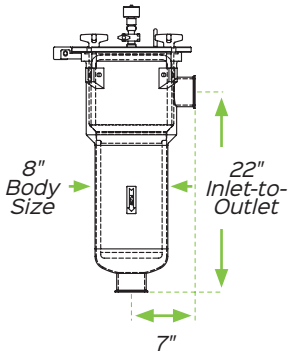
GOOD TO KNOW

- **Material:** Cast and heavy gauge 316L stainless steel
- **Pressure Rating:** 100 psi max @ 200 °F (liquid service only)
- **Sanitary ID Finish:** 32 µin Ra
- **Short Body Length Approximate Weight:** 110 lbs.
- **Long Body Length Approximate Weight:** 130 lbs.
- A complete assembly includes a strainer body, element, cover O-ring, element O-ring, air relief vent valve, and vent valve gasket

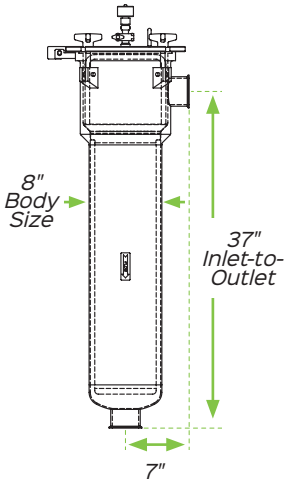
Pressure Drop for Basket Strainer



Performance based on testing using 70 °F water and 4" x 22" housing with 0.005" wedgewire element.



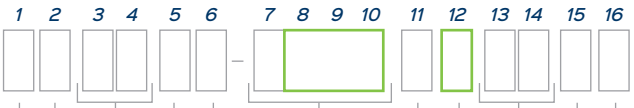
Short Body Length Surface Area: 1.6 ft²



Long Body Length Surface Area: 3.7 ft²

Basket Strainer Model Number Key

Example Model #: BS15T3-P125808000



1	**Strainer Model**	
	B	Basket Strainers
2	**Body Length**	
	S	Short Body
	L	Long Body
3, 4	**Connection Size**	
	15	1.5"
	20	2.0"
	25	2.5"
	30	3.0"
	40	4.0"
5	**Connection Type**	
	T	Tri-Clamp (Standard)
	W	Butt Weld*
6	**Finish / Polish**	
	3	32 µin Ra / Mechanical Polish (Standard)
	1	20 µin Ra / Mechanical Polish*
	8	32 µin Ra / Electropolish*
	4	15 µin Ra / Electropolish*
7-10	**Element Type / Size**	
	P062	Perforated / 0.0625" (1/16")*
	P093	Perforated / 0.09375" (3/32")*
	P125	Perforated / 0.125" (1/8")
	P250	Perforated / 0.25" (1/4")
	W005	Wedgewire / 0.005"
	W015	Wedgewire / 0.015"
	W030	Wedgewire / 0.030"
	W060	Wedgewire / 0.060"
11	**Flow Direction**	
	X	Standard Flow
12	**Seal Kit**	
	0	EPDM (Standard)
	1	Viton
13, 14	**Body Size**	
	80	8.0"
15	**Option #1**	
	0	None (Standard)
16	**Option #2**	
	0	None (Standard)

Non-stock product option. Longer lead times will apply.

Reference: Former Part Number & New Model Number Comparison

Reference Model Number Key for selections to be made. Selections are designated by empty green boxes in the table below.

Perforated Strainer Element				
Connection Size	**Body Length**	**Max. gpm**	**Old Part #**	**New Model Key #**
1.5"	SHORT (22")	70	S10501	BS15T3-P□X□8000
2.0"	SHORT (22")	130	S10502	BS20T3-P□X□8000
2.5"	SHORT (22")	205	S10503	BS25T3-P□X□8000
3.0"	SHORT (22")	300	S10504	BS30T3-P□X□8000
4.0"	SHORT (22")	540	S10520	BS40T3-P□X□8000
1.5"	LONG (37")	70	S10505	BL15T3-P□X□8000
2.0"	LONG (37")	130	S10506	BL20T3-P□X□8000
2.5"	LONG (37")	205	S10507	BL25T3-P□X□8000
3.0"	LONG (37")	300	S10508	BL30T3-P□X□8000
4.0"	LONG (37")	540	S10509	BL40T3-P□X□8000
Wedgewire Strainer Element				
Connection Size	**Body Length**	**Max. gpm**	**Old Part #**	**New Model Key #**
1.5"	SHORT (22")	70	S10510	BS15T3-W□X□8000
2.0"	SHORT (22")	130	S10511	BS20T3-W□X□8000
2.5"	SHORT (22")	205	S10512	BS25T3-W□X□8000
3.0"	SHORT (22")	300	S10513	BS30T3-W□X□8000
4.0"	SHORT (22")	540	S10514	BS40T3-W□X□8000
1.5"	LONG (37")	70	S10515	BL15T3-W□X□8000
2.0"	LONG (37")	130	S10516	BL20T3-W□X□8000
2.5"	LONG (37")	205	S10517	BL25T3-W□X□8000
3.0"	LONG (37")	300	S10518	BL30T3-W□X□8000
4.0"	LONG (37")	540	S10519	BL40T3-W□X□8000

Replacement Parts

NOTE: Cover O-ring and Vent Valve Gasket are not shown in image.

1 Strainer Elements

Perforated Strainer Element		
Hole Size	**Body Length (SHORT) Part #**	**Body Length (LONG) Part #**
1/16"	**278388***	**278391***
3/32"	**163596***	**124828***
1/8"	**741039**	**741052**
1/4"	**741051**	**741054**
Wedgewire* Strainer Element		
Slot Size	**Body Length (SHORT) Part #**	**Body Length (LONG) Part #**
0.005"	**741022**	**741047**
0.015"	**741030**	**741048**
0.030"	**741046**	**741049**
0.060"	**167384**	**198957**

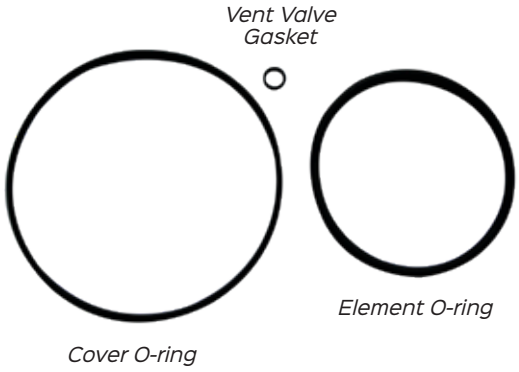
***Non-stock product option.**

Short Wedgewire Element

Long Perforated Element

2 Basket Strainer Seal Kit Parts

Cover O-ring	Part #
EPDM (Standard)	**021378**
Viton	**021144**
Element O-ring	**Part #**
EPDM (Standard)	**021356**
Viton	**021143**
Vent Valve Gasket	**Part #**
EPDM (Standard)	**021037**
Viton	**028725**



3 Filter Bags • 50/box

22" SHORT Basket Strainers		
Micron	**Material**	**Part #**
1	Polypropylene	**029244**
5	Polypropylene	**029245**
10	Polypropylene	**029246**
10	Polyester Felt	**031955**
25	Polyester	**040134**
25	Polypropylene	**029247**
50	Polypropylene	**029237**
100	Polypropylene	**029248**
150	Nylon	**029249**
400	Nylon	**040903**
400	Polypropylene Monofilament	**045387**
600	Nylon Mesh	**043768**
800	Nylon	**029250**
1500	Polyester	**029251**
37" LONG Basket Strainers		
Micron	**Material**	**Part #**
1	Polypropylene	**029252**
5	Polypropylene	**029253**
10	Polypropylene	**029254**
25	Polypropylene	**029255**
50	Polypropylene	**029256**
50	Polyester	**034820**
100	Polypropylene	**029257**
100	Nylon	**031268**
150	Nylon	**029259**
250	Nylon	**026262**
300	Nylon	**024098**
400	Nylon	**042110**
600	Polypropylene	**036642**
800	Nylon	**029261**
1500	Polyester	**029262**

Filter Bag Notes:

- Filter bags are 7" diameter
- Sewn-in, stainless steel ring in top
- Filter bags require a media clamp ring & locking latch
- All bags are FDA compliant
- Micron rating is industry standard nominal rating with 75% efficiency
- 95% efficiency filter bags are available upon request
- Filter bags are disposable and intended for single use

4 Filter Bag Clamp Parts

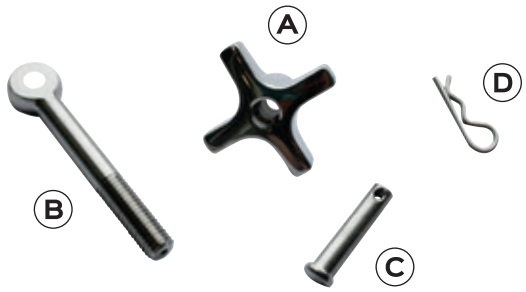
Description	Part #
Filter Bag Kit[1]	**105937**
Clamp Ring	**641110**
Locking Latch	**621766**

[1]*Includes clamp ring and locking latch.*

5 Cover Hold-Down Parts

Description	Part #
Ⓐ Threaded Knob	**021385**
Ⓑ Swing Bolt	**177476**
Ⓒ Swing Bolt Clevis Pin	**021382**
Ⓒ Cover Hinge Clevis Pin	**021383**
Ⓓ Pin, Hair Pin	**021384**

NOTE: One Basket Strainer requires qty (4) of each Cover Hold-Down Part.



6 Air Relief Vent Valve

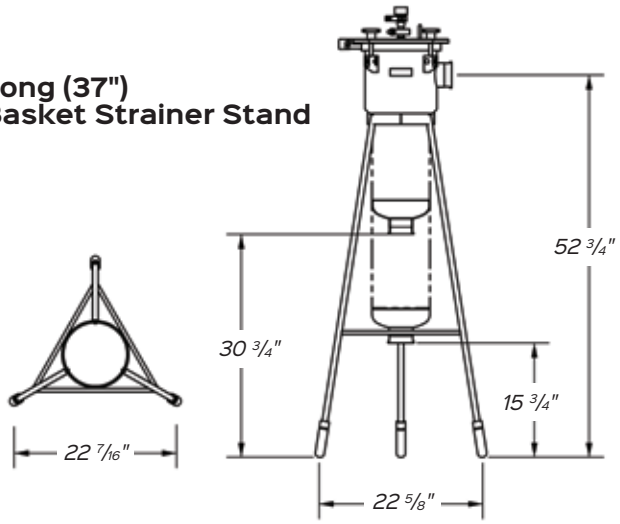
Description	Part #
Air Relief Vent Valve with 1/2" Connection	**021881**

Accessories

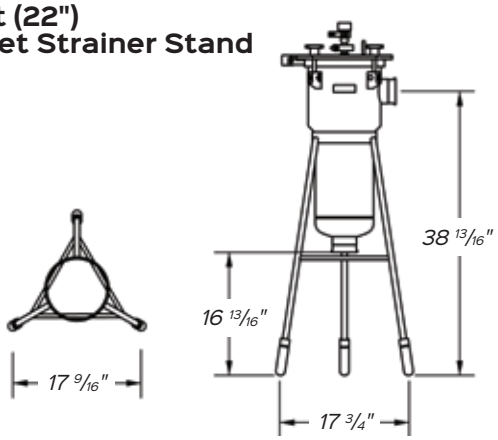
Basket Strainer Stand

Description	Material	Part #
Stand for SHORT Body Length	304 Stainless Steel	**101998**
Stand for LONG Body Length	304 Stainless Steel	**741065**

Long (37") Basket Strainer Stand



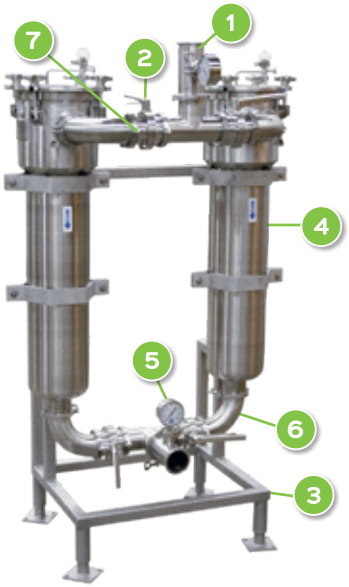
Short (22") Basket Strainer Stand



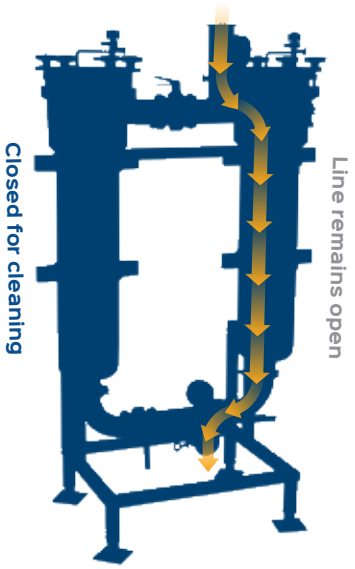
Dual Basket Strainer Assembly Parts

Dual Basket Strainer Stands

Connection Size	Recommended Maximum gpm	SHORT (22") Part #	LONG (37") Part #
1.5"	70	**258688**	**258855**
2.0"	130	**258731**	**258861**
2.5"	205	**258845**	**258863**
3.0"	300	**258847**	**258868**
4.0"	540	**258849**	**258876**



Complete Dual Basket Strainer Assembly



1. Tees (4)
2. Butterfly Valves (4)
3. Stand
4. Basket Strainers (2)
5. Pressure Gauge
6. Elbows (4)
7. Clamps/Gaskets (12)

Valve Kits

Kit includes: Four (4) Elbows, two (2) Tees, four (4) VNE Butterfly Valves, twelve (12) Clamps, and twelve (12) Gaskets.

Material: 316L Stainless Steel

NOTE: Alternate valves available.

NOTE: Strainers are not included in the valve kit, they are sold separately.

Connection Size	Part #
1.5"	**291142**
2.0"	**291143**
2.5"	**291144**
3.0"	**291145**
4.0"	**291146**

Pressure Gauge Kit

Two (2) Sanitary Diaphragm-type Pressure Gauges, two (2) Tees, four (4) Gaskets and four (4) Clamps. Install before and after the strainer assembly. Pressure range for gauge is 0 to 160 psi.

Connection Size	Part #
1.5"	**158581**
2.0"	**158585**
2.5"	**158591**
3.0"	**158593**
4.0"	**158596**

Spray Devices

Complete Spray Solutions for Your Process

Sani-Matic has decades of experience in spray technology for the food & beverage, bio-pharm, personal care, and nutraceutical industries.

Sani-Matic experts evaluate applications and soils, from water-soluble to hard-to-clean, to determine whether a static spray ball, rotary, or jet spray device will best target equipment or process vessel soils. The team will design and manufacture static spray devices in our Wisconsin manufacturing center with the appropriate flows, pressures, and spray patterns to ensure efficient and dependable cleaning. If rotary or jet spray impingement solutions are required, we offer high-quality, German-manufactured products from AWH, Armaturenwerk Hötensleben GmbH, a member of NEUMO-Ehrenberg Group.

Sani-Matic's standard static spray ball design is 3-A certified when used with a slip collar or butt weld. When considering a custom static spray ball that requires 3-A certification, contact a Sani-Matic representative.

Sani-Matic Spray Device Families

Static Spray Balls

SB-1

SB-2

SB-4

SB-5

SB-6

Rotary Spray Devices

Free Rotation

TANKO RB

TANKO S

TANKO SF40

Controlled Rotation

TANKO CP

Jet Spray Devices

TANKO MX

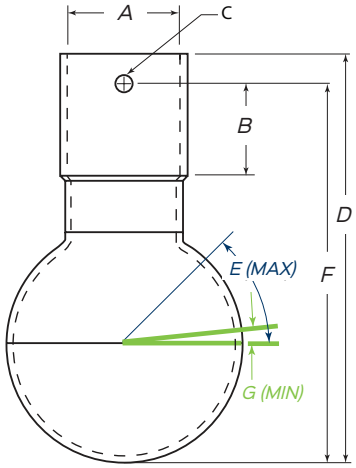
TANKO JM

Static Spray Balls

Static spray balls clean tanks and vessels by saturating them with a significant amount of fluid with high flow, and relatively low pressure. The solution cascades down the tank's sidewalls eroding water-soluble soils.

Spherical Static Spray Ball Type Dimensions

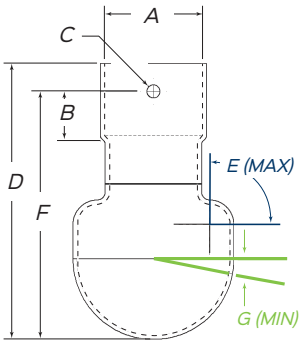
Ball Diameter	A	B	C	D	E (MAX)	F	G (MIN)
4.0"	Ø 2 1/2"	1"	Ø 13/64"	6 1/16"	48°	5 9/16"	11°
	Ø 2"	1"	Ø 13/64"	5 15/16"	55°	5 1/2"	11°
	Ø 1 1/2"	11/16"	Ø 13/64"	5 7/8"	62°	5 7/16"	11°
	Ø 1"	3/8"	Ø 9/64"	5 3/8"	70°	5"	11°
3.0"	Ø 2 1/2"	1"	Ø 13/64"	4 3/4"	32°	4 1/4"	11°
	Ø 2"	1"	Ø 13/64"	4 13/16"	42°	4 3/8"	11°
	Ø 1 1/2"	3/4"	Ø 13/64"	4 13/16"	55°	4 3/8"	11°
	Ø 1"	3/8"	Ø 9/64"	4 5/16"	67°	3 15/16"	11°
2.5"	Ø 1 1/2"	3/4"	Ø 13/64"	4 1/4"	48°	3 13/16"	11°
	Ø 1"	3/8"	Ø 9/64"	3 3/4"	62°	3 3/8"	11°
2.0"	Ø 1"	3/8"	Ø 9/64"	3 1/4"	55°	2 7/8"	11°
	Ø 3/4"	1/4"	Ø 9/64"	3 1/16"	62°	2 11/16"	11°
1.5"	Ø 1"	3/8"	Ø 9/64"	2 11/16"	40°	2 5/16"	15°
	Ø 3/4"	1/4"	Ø 9/64"	2 1/2"	52°	2 1/8"	15°
	Ø 1/2"	3/16"	Ø 5/64"	2 9/16"	61°	2 1/16"	15°
1.25"	Ø 3/4"	1/4"	Ø 9/64"	2 1/4"	42°	1 7/8"	15°
	Ø 1/2"	3/16"	Ø 5/64"	2 5/16"	57°	1 13/16"	15°



Tangential Static Spray Ball Type Dimensions

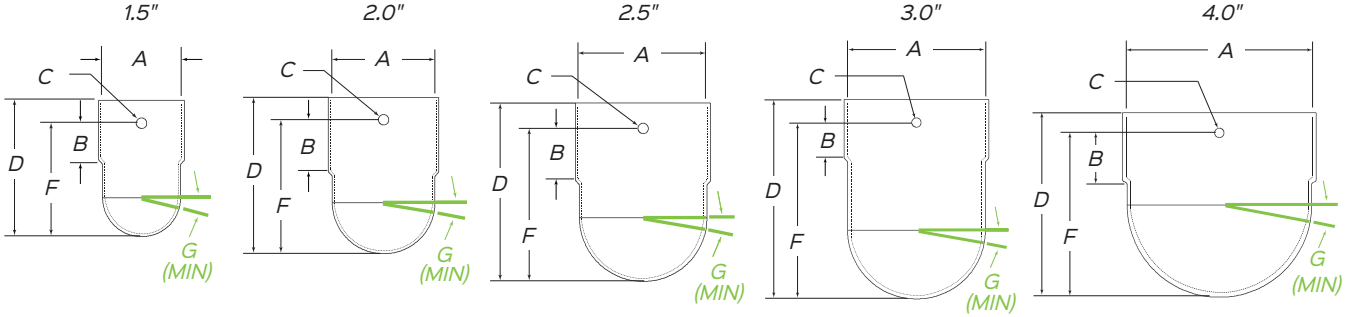
Ball Diameter	A	B	C	D	E (MAX)	F	G (MIN)
2.5"	Ø 1 1/2"	3/4"	Ø 3/16"	4 5/16"	90°	3 7/8"	11°

NOTE: Other slip collar connections are available as a special request. Dimensions vary.



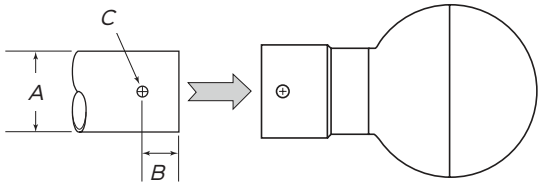
Spray Bubble Spray Ball Type Dimensions

Ball Diameter	A	B	C	D	F	G (MIN)
4.0"	Ø 1 1/2"	3/4"	Ø 3/16"	2 5/8"	2 3/16"	11°
3.0"	Ø 2"	1"	Ø 3/16"	3 1/16"	2 5/8"	11°
2.5"	Ø 1 1/2"	1"	Ø 3/16"	3 1/2"	3"	11°
2.0"	Ø 1 1/2"	3/4"	Ø 3/16"	4 3/8"	3 7/8"	11°
1.5"	Ø 1 1/2"	1 1/8"	Ø 3/16"	4"	3 9/16"	15°



Solution Tube Pinhole Location for Proper Fit with Spray Ball

Tube A OD	Distance B	Drill Diameter C
1/2"	3/16"	5/64"
3/4"	3/16"	9/64"
1"	5/16"	9/64"
1 1/2"	11/16"	13/64"
2"	15/16"	13/64"



QUICK TIPS

Calculate the recommended minimum spray ball flow rate required for cleaning process vessels by entering the tank diameter:

$$\frac{\text{(Spray Ball Flow in gpm)}}{} = \frac{\text{(Tank Diameter in feet)}}{} \times 9.5$$

A minimum flow rate of 3 gallons per minute (gpm) for every foot of tank circumference is required to produce sufficient turbulent flow to cascade solution down vessel walls.

Choosing a Spray Ball Type:

Spherical: Most common spray ball and ideal for general patterns.

Tangential: Provides a full 90° of drilling area on upper hemisphere.

Spray Bubble: These are size-on-size sprays (hemisphere to supply tube) and ideal for saving space.

Spherical

Tangential

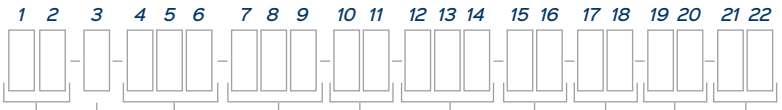
Spray Bubble

GOOD TO KNOW

- **Spray Ball Material:** 316L stainless steel
- Wraparound clips are standard
- Material Test Reports (MTRs) are available
- Tangential hemispheres are only available as 2.5" ball diameter with a 1.5" connection
- Hastelloy and AL-6XN material options are available for some spray balls
- Custom spray balls require longer lead times

Static Spray Ball Model Number Key

Example Model #:
SB-0-125-050-SC-040-25-32-MP-SP



1, 2	**Component Model**	
	SB	Static Spray Ball
3	**Drill Pattern**	
	0	No Holes (Except 1/16" Drain Hole)
	1	180° Up - Vertical Mount
	2	180° Up - Double Ball
	3	Special Spray Pattern
	4	180° Down - Vertical Mount
	5	360° Full Coverage
	6	180° Up - Horizontal Mount
4-6	**Ball Diameter**	
	125	1.25" Ball Diameter
	150	1.50" Ball Diameter
	200	2.00" Ball Diameter
	250	2.50" Ball Diameter
	300	3.00" Ball Diameter
	400	4.00" Ball Diameter
7-9	**Connection Size**	
	050	0.50" - 12 gpm Max. Flow
	075	0.75" - 25 gpm Max. Flow
	100	1.00" - 40 gpm Max. Flow
	150	1.50" - 100 gpm Max. Flow
	200	2.00" - 240 gpm Max. Flow
	250	2.50" - 400 gpm Max. Flow
10, 11	**Connection Style**	
	SC	Slip Collar (Standard)
	BW	Butt Weld
	FL	Flare (No Connection)
	TC	Tri-Clamp[1]
	HC	Half Coupling (FNPT)[1]
	PN	Pipe Nipple (MNPT)[1]
12-14	**Flow**	
	040	40 gpm (Standard)
	000	0 gpm (No Holes)
	###	Custom Flow (gpm)
15, 16	**Pressure**	
	25	25 psi (Standard)
	00	0 psi (No Holes)
	##	Custom Pressure (psi)
17, 18	**Finish**	
	32	32 µin Ra (Standard)
	20	20 µin Ra
	15	15 µin Ra
19, 20	**Polish**	
	MP	Mechanical Polish (Standard)
	EP	Electropolish
21, 22	**Ball Type**	
	SP	Spherical
	TG	Tangential
	BB	Bubble

 # Specify custom flow and custom pressure values when ordering.

[1] Does not conform to 3-A standard.

NOTE: Some constraints exist that limit selecting certain options together. Sani-Matic will advise if issues exist with a specified model #.

Standard Static Spray Ball Products

Stock Static Spray Balls

Model	Drill Pattern	Spherical Ball Diameter	Connection Size	Connection Style	Flow (gpm)	Pressure (psi)	Finish	Part #	New Model Key #
SB-1	180° Up - Vertical Mount	2.50"	1.50"	SC	40	25	32 µin Ra	128271	SB-1-250-150-SC-040-25-32-MP-SP
SB-1	180° Up - Vertical Mount	3.00"	1.50"	SC	40	25	32 µin Ra	131028	SB-1-300-150-SC-040-25-32-MP-SP
SB-2	180° Up - Double Ball (each ball)	4.00"	1.50"	SC	40	25	32 µin Ra	128272	SB-2-400-150-SC-040-25-32-MP-SP
SB-5	360° Full Coverage	1.50"	0.75"	SC	40	25	32 µin Ra	128277	SB-5-150-075-SC-040-25-32-MP-SP
SB-5	360° Full Coverage	1.50"	1.00"	SC	40	25	32 µin Ra	199108	SB-5-150-100-SC-040-25-32-MP-SP
SB-5	360° Full Coverage	2.00"	1.00"	SC	40	25	32 µin Ra	128276	SB-5-200-100-SC-040-25-32-MP-SP
SB-5	360° Full Coverage	2.50"	1.00"	PN	58	20	32 µin Ra	117503	SB-5-250-100-PN-058-20-32-MP-SP
SB-5	360° Full Coverage	2.50"	1.50"	SC	40	25	32 µin Ra	128275	SB-5-250-150-SC-040-25-32-MP-SP
SB-5	360° Full Coverage	3.00"	1.50"	SC	40	25	32 µin Ra	128274	SB-5-300-150-SC-040-25-32-MP-SP
SB-5	360° Full Coverage	4.00"	1.50"	SC	40	25	32 µin Ra	128273	SB-5-4.00-1.50-SC-040-25-32-MP-SP

NOTE: Clip included.

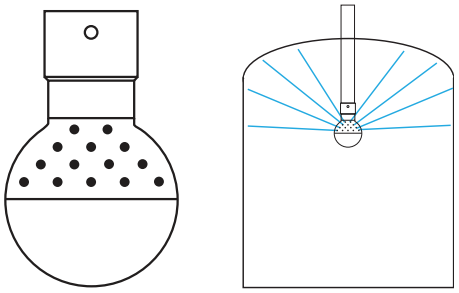
Static Spray Ball Clips

Description	Part #
Hair Pin Clip for 0.50" SC[1]	**321443**
Wraparound Clip for 0.75" SC	**321554**
Wraparound Clip for 1.00" SC	**321555**
Wraparound Clip for 1.50" SC	**321556**
Wraparound Clip for 2.00" SC	**321557**
Wraparound Clip for 2.50" SC	**321658**

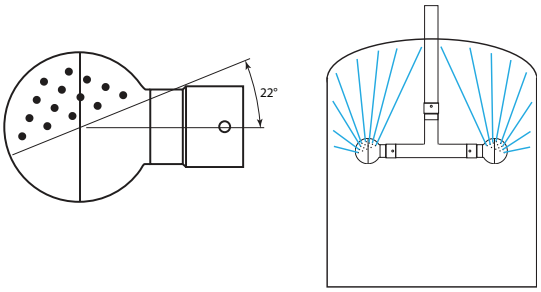
[1]0.50" Clip diameter does not conform to 3-A standard.

NOTE: Clips are constructed of 316 stainless steel.

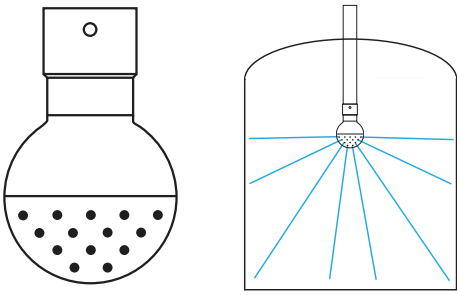
Static Spray Ball Drill Patterns



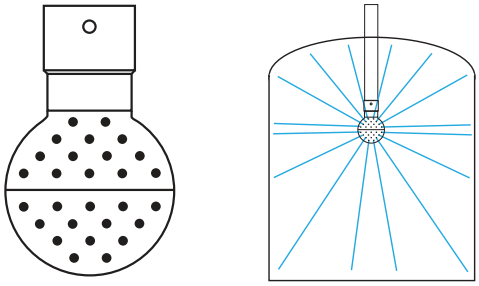
SB-1



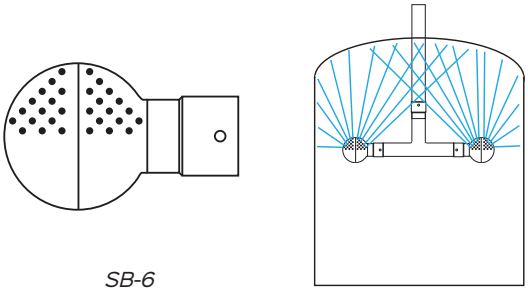
SB-2



SB-4



SB-5



SB-6

Custom Spray Assemblies

Custom-Engineered Solutions

Sani-Matic creates 3-D models of your process vessels to engineer effective static spray device drill patterns for proper coverage of all ports and surfaces.

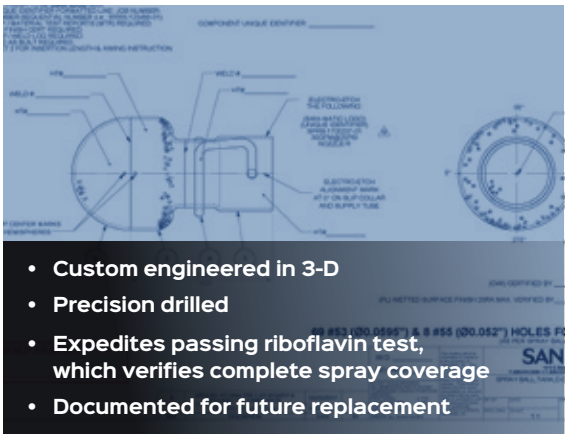
Details regarding your specific process may be required to ensure complete spray coverage. We may request the following information:

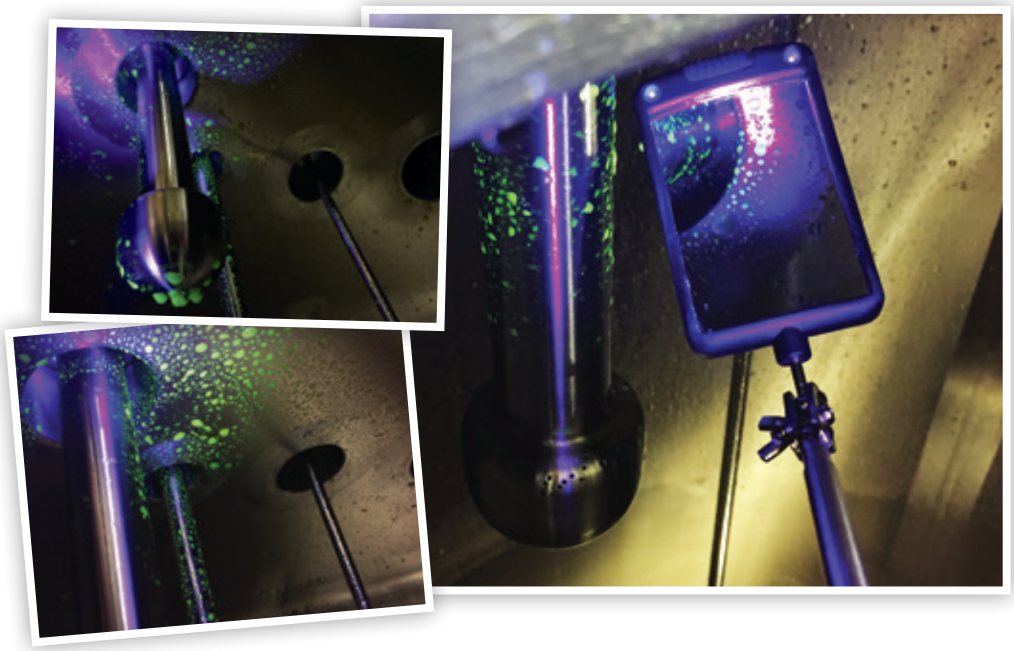
- Tank drawings indicating agitators, dip tubes, anti-foams and spray ball connections
- Available CIP flow and pressure
- Surface finish requirements

Directionally Drilled Spray Balls and Custom Supply Tubes

Once the spray pattern and design have been determined, Sani-Matic will manufacture the spray balls and supply tubes to deliver the cleaning solution.

- Custom patterns drilled with a CNC machine
- Orbital welding
- Product contact welds are ground and polished to meet interior finish requirements
- Orbital welds are borescope inspected to meet ASME BPE standards
- Spray ball patterns are kept on file for easy reorder and to ensure repeatability





Riboflavin testing verifies complete spray coverage.

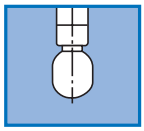
Rotary Spray Devices

Rotary spray devices are used when faster wetting is required, harder-to-clean soils are present, or water savings is important. Sani-Matic provides several types of rotating spray devices (rotating spray balls, spate cleaners, and controlled jet sprays, etc.) from AWH, Armaturenwerk Hötensleben GmbH, a member of NEUMO-Ehrenberg Group. These dynamic spray devices can provide additional cleaning impact from rotation when compared to the cascading cleaning action of static spray devices.

TANKO® RB

The TANKO® RB is an entry-level rotating spray device. Typical applications are similar to those using static spray balls. A major advantage of the rotating ball is its ability to maintain its cleaning function as a static spray ball if the device stops rotating. When rotating, the device's rotating spray jets also create some bounce back or deflective cleaning.

All AWH Spray Devices come with a Material Test Report (MTR).



QUICK TIPS

Will the TANKO RB work if a spray hole is clogged?

If individual spray holes become blocked, the device's rotation allows the remaining spray holes to compensate. This ensures continued complete wetting of the tank walls.

What if the device stops rotating?

Rotating balls can stop working. The TANKO RB will continue performing as a static spray ball if the bearings jam. Operators can troubleshoot by cleaning blocked openings and checking for worn bearings.

GOOD TO KNOW

- **Material:** Body (316L), Ball Bearing (316) stainless steel
- **Maximum Working Temperature:** 446 °F
- Maintains a double ball bearing allowing horizontal installation
- Maintains a small paddle rotor
- Faster wetting capabilities can lead to shorter cleaning cycle times dependent on the application
- The fluid-driven TANKO RB functions by using larger volume flow rates at lower pressure
- Additional Models (RB40 and RB90) with varying flow and pressures are available; contact Sani-Matic Representatives for more information

TANKO RB Rotary Spray Device

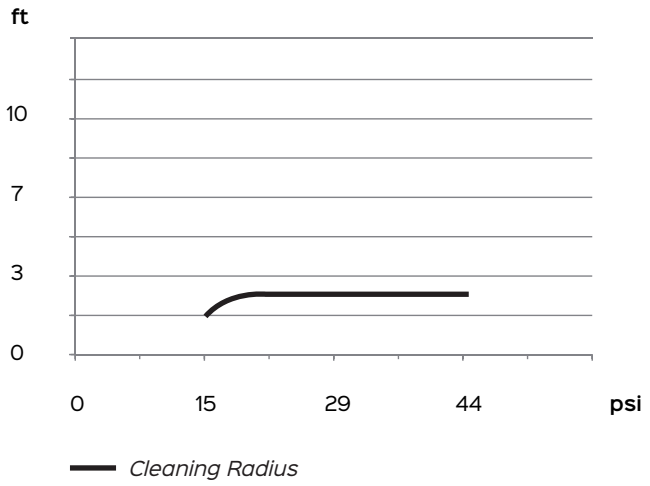
Model	Spray Pattern	Connection Size	Connection Style	Flow (gpm)	Pressure (psi)	Max. Cleaning Radius (ft)	Finish	Part #
TANKO RB30	360° Full Coverage Nozzle Spray	0.50"	SC	11-14	22-44	2.5	32 µin Ra	**053604**
TANKO RB30	360° Full Coverage Nozzle Spray	0.75"	BW	11-14	22-44	2.5	32 µin Ra	**053603**
TANKO RB64	360° Full Coverage Nozzle Spray	1.00"	BW	48-66	22-44	5.0	32 µin Ra	**053607**
TANKO RB64	360° Full Coverage Nozzle Spray	1.00"	SC	48-66	22-44	5.0	32 µin Ra	**053608**

TANKO RB Replacement Parts

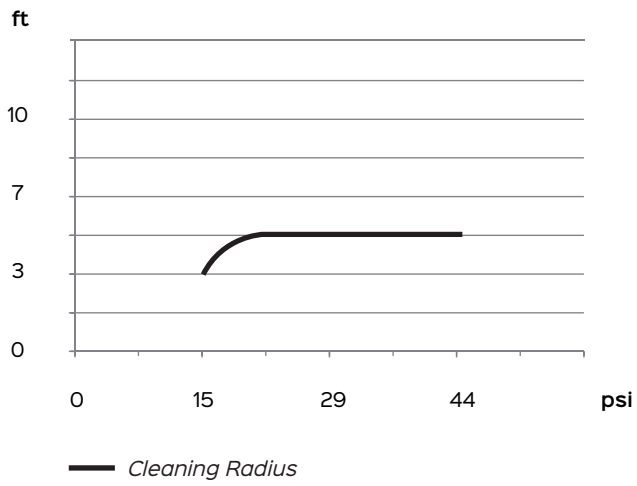
Model	Description	Qty	Connection Style	Finish	Part #
TANKO RB30	Wear Parts Kit, Wire Retaining Pin	4 Pieces	SC	32 µin Ra	**053554**
TANKO RB64	Wear Parts Kit, Wire Retaining Pin	4 Pieces	SC	32 µin Ra	**053555**

TANKO RB Rotary Radius Charts

TANKO RB30 360°



TANKO RB64 360°

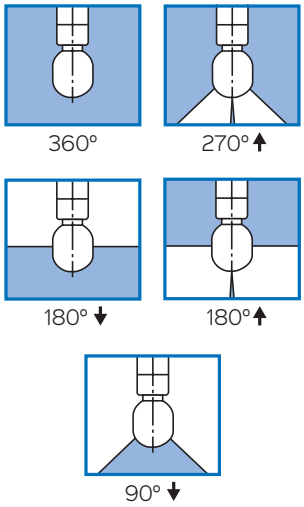


TANKO® S

The TANKO® S series of rotary spray devices are intended to clean light to medium soil loads in a faster cleaning cycle. These rotary spray devices have precision-cut slots without rough edges, which ensure large, directed water droplets for higher impact soil erosion. The rotating spray pattern of this device also provides bounce back or deflective cleaning. As with the TANKO RB, the TANKO S maintains double ball bearings for flexible positioning.

The TANKO S also features a high flow option, the TANKO S HF. It has a wider slot size for a higher flow rate to clean hard-to-clean applications.

All AWH Spray Devices come with a Material Test Report (MTR).



QUICK TIPS

How long will a TANKO S rotary spray operate?

The TANKO S has been tested up to 300 hours but is known to last well beyond the tested number of hours in operation.

Does the TANKO S need to be removed for cleaning?

The TANKO S is designed to be fully CIP-able and self-cleaning.

GOOD TO KNOW

- **Material:** Body (316L), Ball Bearing (316) stainless steel
- **Maximum Working Temperature:** 446 °F
- The TANKO S20 - S40 are recommended to operate at a maximum of 43 psi to avoid atomizing the spray droplets
- Double ball bearings allow for versatile mounting (i.e. installation can occur in any orientation)
- There are five sizes of the TANKO S Series (S10, S20, S30, S40, S50)
  - The smaller TANKO S Series, such as the S20, are ideal for shadow areas in tanks
  - The S50 is ideal for large tanks and can operate at higher pressure
- For additional Model Sizes not in the catalog, contact a Sani-Matic Representative

TANKO S Rotary Spray Device

Model	Spray Pattern	Connection Size	Connection Style	Flow (gpm)	Pressure (psi)	Max. Cleaning Radius (ft)	Finish	Part #
TANKO S20	270° Upward Nozzle Spray	0.13"	FNPT	3.5 - 5.7	22 - 44	2.5	32 µin Ra	**053615**
TANKO S20	360° Full Coverage Nozzle Spray	0.13"	FNPT	3.5 - 5.7	22 - 44	2.5	32 µin Ra	**053609**
TANKO S20	180° Downward Nozzle Spray	0.50"	BW	3.5 - 5.7	22 - 44	2.5	32 µin Ra	**053614**
TANKO S20	360° Full Coverage Nozzle Spray	0.50"	BW	3.5 - 5.7	22 - 44	2.5	32 µin Ra	**053610**
TANKO S20	360° Full Coverage Nozzle Spray	0.50"	SC	3.5 - 5.7	22 - 44	2.5	32 µin Ra	**053611**
TANKO S30	360° Full Coverage Nozzle Spray	0.25"	FNPT	8 - 12	22 - 44	3.3	32 µin Ra	**053621**
TANKO S30	270° Upward Nozzle Spray	0.38"	FNPT	8 - 12	22 - 44	3.3	32 µin Ra	**053622**
TANKO S30	360° Full Coverage Nozzle Spray	0.38"	FNPT	8 - 12	22 - 44	3.3	32 µin Ra	**053618**
TANKO S30	270° Upward Nozzle Spray	0.75"	BW	8 - 12	22 - 44	3.3	32 µin Ra	**053624**
TANKO S30	360° Full Coverage Nozzle Spray	0.75"	BW	8 - 12	22 - 44	3.3	32 µin Ra	**053619**
TANKO S30	270° Upward Nozzle Spray	0.75"	SC	8 - 12	22 - 44	3.3	32 µin Ra	**053623**
TANKO S30	90° Downward Nozzle Spray	0.75"	SC	8 - 12	22 - 44	3.3	32 µin Ra	**053625**
TANKO S30	360° Full Coverage Nozzle Spray	0.75"	SC	8 - 12	22 - 44	3.3	32 µin Ra	**053617**
TANKO S40	180° Downward Nozzle Spray	0.50"	FNPT	15 - 20	22 - 44	6.5	32 µin Ra	**053636**
TANKO S40	270° Upward Nozzle Spray	0.50"	FNPT	15 - 20	22 - 44	6.5	32 µin Ra	**053638**
TANKO S40	360° Full Coverage Nozzle Spray	0.50"	FNPT	15 - 20	22 - 44	6.5	32 µin Ra	**053633**
TANKO S40	360° Full Coverage Nozzle Spray	0.75"	BW	15 - 20	22 - 44	6.5	32 µin Ra	**053640**
TANKO S40	270° Upward Nozzle Spray	0.75"	BW	15 - 20	22 - 44	6.5	32 µin Ra	**053641**
TANKO S40	270° Upward Nozzle Spray	0.75"	FNPT	15 - 20	22 - 44	6.5	32 µin Ra	**053639**
TANKO S40	180° Downward Nozzle Spray	0.75"	FNPT	15 - 20	22 - 44	6.5	32 µin Ra	**053644**
TANKO S40	360° Full Coverage Nozzle Spray	0.75"	FNPT	15 - 20	22 - 44	6.5	32 µin Ra	**053632**
TANKO S40	270° Upward Nozzle Spray	1.00"	BW	15 - 20	22 - 44	6.5	32 µin Ra	**053642**
TANKO S40	360° Full Coverage Nozzle Spray	1.00"	BW	15 - 20	22 - 44	6.5	32 µin Ra	**053631**
TANKO S40	270° Upward Nozzle Spray	1.00"	SC	15 - 20	22 - 44	6.5	32 µin Ra	**053634**
TANKO S40	180° Downward Nozzle Spray	1.00"	SC	15 - 20	22 - 44	6.5	32 µin Ra	**053637**
TANKO S40	90° Downward Nozzle Spray	1.00"	SC	15 - 20	22 - 44	6.5	32 µin Ra	**053643**
TANKO S40	360° Full Coverage Nozzle Spray	1.00"	SC	15 - 20	22 - 44	6.5	32 µin Ra	**053630**
TANKO S40 HF	360° Full Coverage, High-Flow Nozzle Spray	0.50"	FNPT	22 - 30	22 - 44	6.5	32 µin Ra	**053655**
TANKO S40 HF	360° Full Coverage, High-Flow Nozzle Spray	0.75"	BW	22 - 30	22 - 44	6.5	32 µin Ra	**053656**
TANKO S40 HF	360° Full Coverage, High-Flow Nozzle Spray	0.75"	FNPT	22 - 30	22 - 44	6.5	32 µin Ra	**053654**
TANKO S40 HF	360° Full Coverage, High-Flow Nozzle Spray	1.00"	BW	22 - 30	22 - 44	6.5	32 µin Ra	**053653**
TANKO S40 HF	360° Full Coverage, High-Flow Nozzle Spray	1.00"	SC	22 - 30	22 - 44	6.5	32 µin Ra	**053652**
TANKO S50	360° Full Coverage Nozzle Spray	2.00"	BW	31 - 79	15 - 44	10.0	32 µin Ra	**053660**
TANKO S50	360° Full Coverage Nozzle Spray	2.00"	SC	31 - 79	15 - 44	10.0	32 µin Ra	**053661**

*NOTE: **Green highlighted** cells indicate stocked items.*

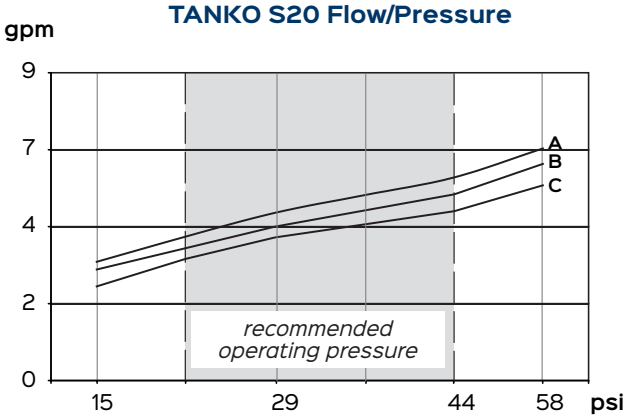
TANKO S Replacement Parts

Model	Description	Quantity	Connection Style	Part #
TANKO S20	Wears Parts Kit, Wire Retaining Pin	4 pieces	SC	**053564**
TANKO S30	Wears Parts Kit, Wire Retaining Pin	4 pieces	SC	**053562**
TANKO S40	Wears Parts Kit, Wire Retaining Pin	4 pieces	SC	**053563**
TANKO S50	Wears Parts Kit, Wire Retaining Pin	4 pieces	SC	**053565**

*NOTE: **Green highlighted** cells indicate stocked items.*

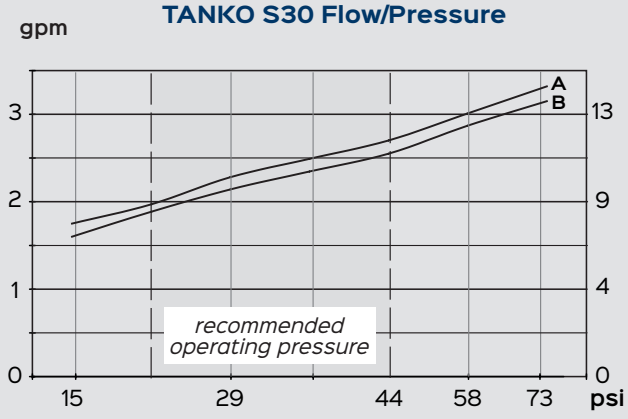
TANKO S Flow/Pressure and Cleaning Radius Charts

TANKO S20 Flow/Pressure



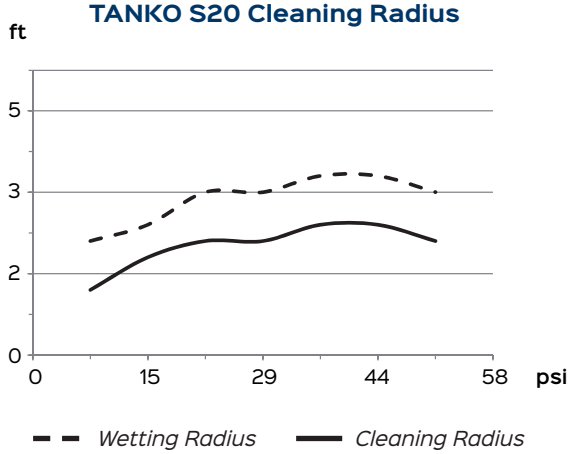
A: *360° / 270° upwards;* **B**: *180° downwards;*
C: *90° downwards*

TANKO S30 Flow/Pressure

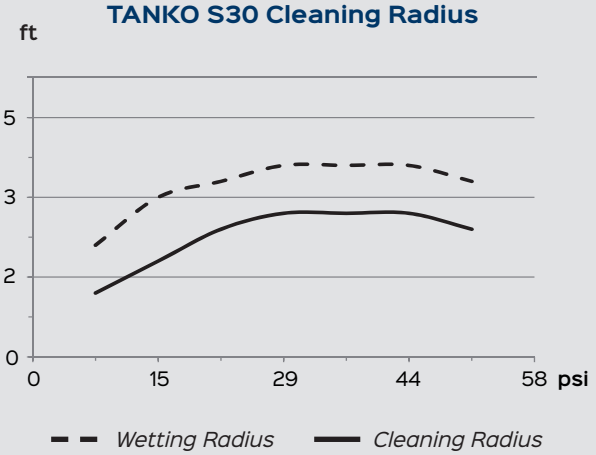


A: *360° / 180° upwards / 180° downwards / 90° downwards*
B: *270° upwards*

TANKO S20 Cleaning Radius

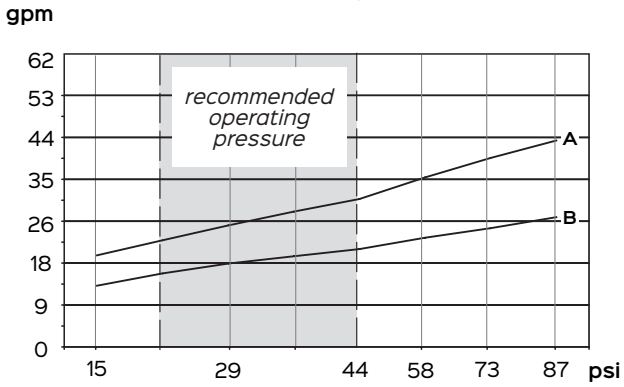


TANKO S30 Cleaning Radius



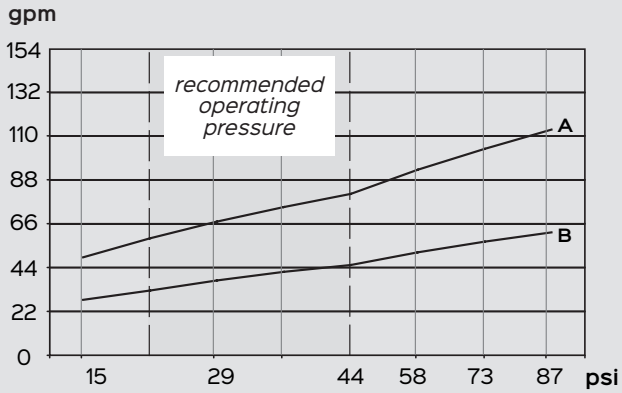
TANKO S with Clip

TANKO S40 Flow/Pressure



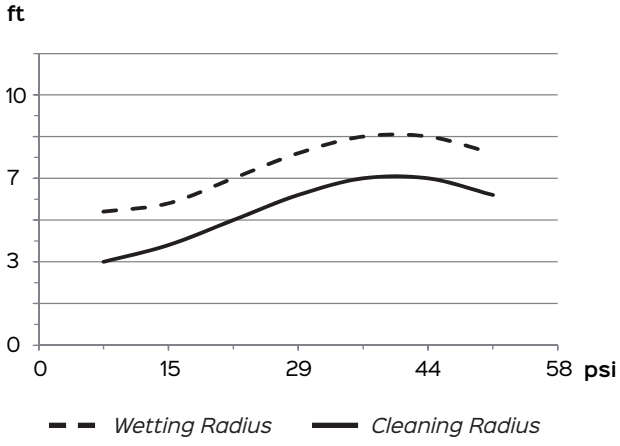
A: *360°HF;* **B**: *360° / 270° upwards / 180° upwards / 180° downwards / 90° downwards*

TANKO S50 Flow/Pressure

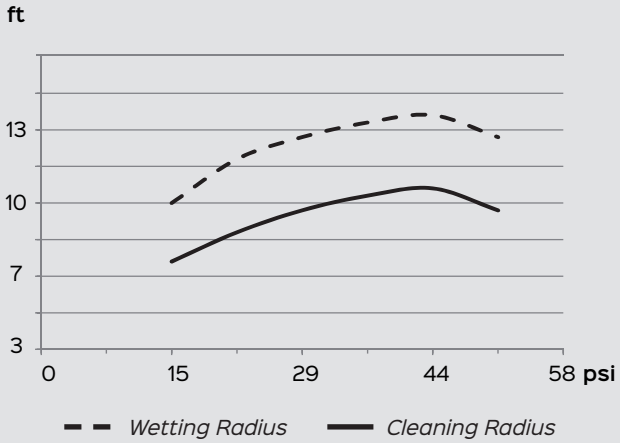


A: *360° / 270° upwards;* **B**: *180° upwards / 180° downwards*

TANKO S40 Cleaning Radius



TANKO S50 Cleaning Radius

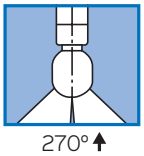


TANKO® SF40

The AWH TANKO® SF40 is a 3-A Certified rotary spray device for tank and vessel cleaning. It is designed with a 270° upward spray, is self-cleaning, and easy to dismantle for inspection with only a few components.

The spray head rotates on a hydrodynamic bearing, being lubricated by the cleaning solution during the cycle. There are no oils, greases, or other lubricants needed.

All AWH Spray Devices come with a Material Test Report (MTR).



QUICK TIPS

What orientation should I mount the SF40 in?

The standard hydrodynamic bearing is intended for vertical positioning. Other positions are available upon request.

GOOD TO KNOW

- **Materials:** 316L stainless steel and TECAPEEK® natural
- **Maximum Working Temperature:** 203 °F
- Self-lubricating slide bearing
- Meets 3-A Standard 78-03 requirements

TANKO SF40 Rotary Spray Device

Model	Spray Pattern	Connection Size	Connection Style	Flow (gpm)	Pressure (psi)	Max. Cleaning Radius (ft)	Finish	Part #
TANKO SF40	270° Upward Nozzle Spray	0.75"	SC	14 - 26	15 - 44	5.0	32 µin Ra	**053665**
TANKO SF40	270° Upward Nozzle Spray	1.00"	BW	14 - 26	15 - 44	5.0	32 µin Ra	**053664**

*NOTE: **Green highlighted** cells indicate stocked items.*

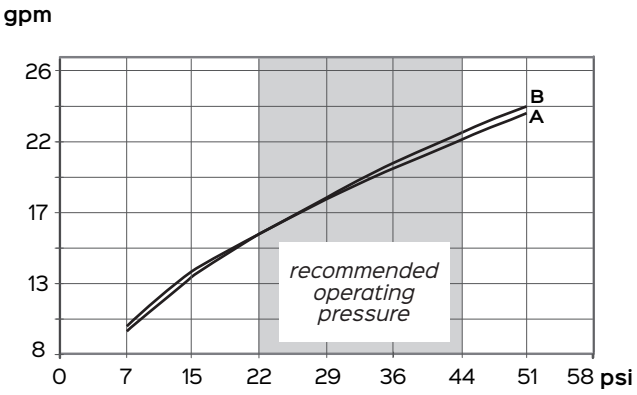
TANKO SF40 Replacement Parts

Model	Description	Qty	Connection Style	Part #
TANKO SF40	Wear Parts Kit, Wire Retaining Pin	4 Pieces	SC	**053929**

*NOTE: **Green highlighted** cells indicate stocked items.*

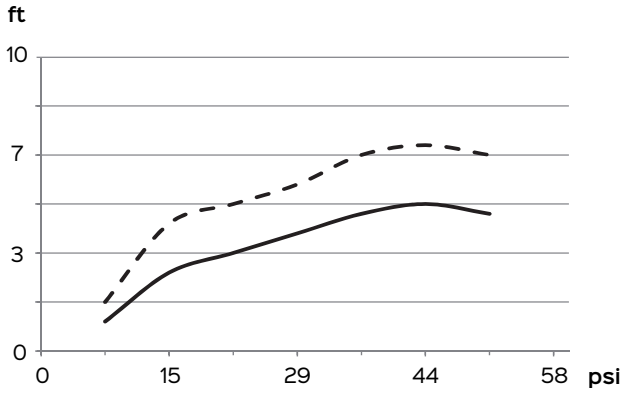
TANKO SF40 Flow/Pressure and Cleaning Radius Charts

TANKO SF40 Flow/Pressure



A: *270° Upwards Weld-On* **B:** *270° Upwards Clip-On*

TANKO SF40 Cleaning Radius

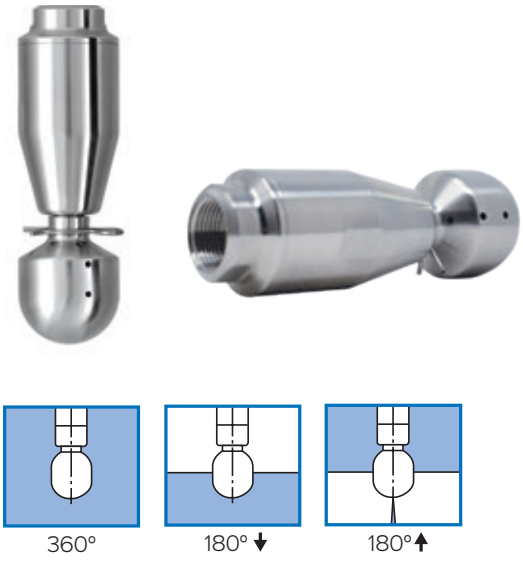


TANKO® CP

The controlled rotary spray devices within the TANKO® CP series provide a slow and even rotation while delivering a high-impact spray. The CP series bridges the rotary and jet spray product lines for a low-cost solution targeting hard-to-clean rings and tough adhesive soils. Applications include cooking kettles and fermentation tanks.

The devices are compact with a plain bearing system and simple structure with only a few moving parts for easy maintenance. The compact TANKO CP series provides 360° spray coverage while targeting the heaviest soils with directed spray.

All AWH Spray Devices come with a Material Test Report (MTR).



QUICK TIPS

Does the TANKO CP have a jet cleaning pattern?

The TANKO CP is in between a rotary spray and jet spray device and doesn't have a dynamic pattern like a jet cleaning device. It produces a consistent pattern of repeating rings that hit targeted spots to loosen soils. The solution provides erosion coverage for the remainder of the tank.

How many sizes are available with the TANKO CP Series?

The TANKO CP Series has a CP2 and CP3. While the CP2 provides a cleaning radius of 6.5 feet, the CP3's cleaning radius is 9.8 feet and is ideal when a wider cleaning range is required. *(The CP3 is not featured in the catalog but is available through Sani-Matic representatives.)*

GOOD TO KNOW

- **Materials:** Solid 316L stainless steel and FDA-compliant PTFE
- **Maximum Working Temperature:** 203 °F
- **Rotations per Minute:** 2-30
- **Minimum Installation Opening (CP2):** 1.89"
- Controlled rotation, not a random spray pattern
- Internal rotor design for a constant, smoother rotation for increased dwell time
- CP Series is a solid ball of stainless steel with no welded hemispheres and the central chamber is drilled creating an internal nozzle

TANKO CP2 Rotary Spray Ball

Model	Spray Pattern	Connection Size	Connection Style	Flow (gpm)	Pressure (psi)	Max. Cleaning Radius (ft)	Finish	Part #
TANKO CP2	180° Downward Nozzle Spray	0.75"	FNPT	11 - 29	44 - 174	6.5	32 µin Ra	**053585**
TANKO CP2	180° Upward Nozzle Spray	0.75"	FNPT	11 - 29	44 - 174	6.5	32 µin Ra	**053586**
TANKO CP2	360° Full Coverage Nozzle Spray	0.75"	FNPT	11 - 29	44 - 174	6.5	32 µin Ra	**053581**
TANKO CP2	360° Full Coverage Nozzle Spray	1.00"	SC	11 - 29	44 - 174	6.5	32 µin Ra	**053582**
TANKO CP2	180° Upward Nozzle Spray	1.00"	SC	11 - 29	44 - 174	6.5	32 µin Ra	**053583**
TANKO CP2	180° Downward Nozzle Spray	1.00"	SC	11 - 29	44 - 174	6.5	32 µin Ra	**053584**

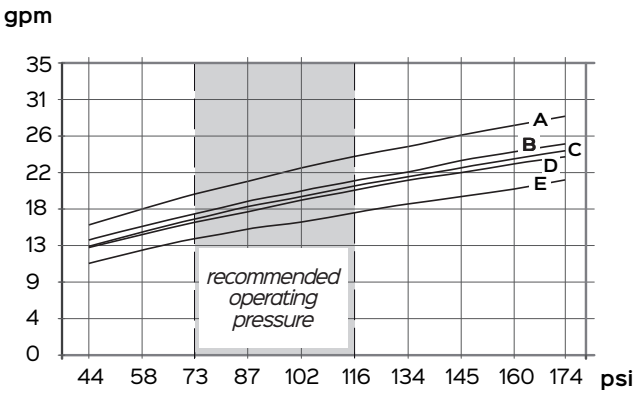
TANKO CP2 Replacement Parts

Model	Description	Part #
TANKO CP2	Wear Parts	**053550**
TANKO CP2	Repair Kit	**053571**

*NOTE: **Green highlighted** cells indicate stocked items.*

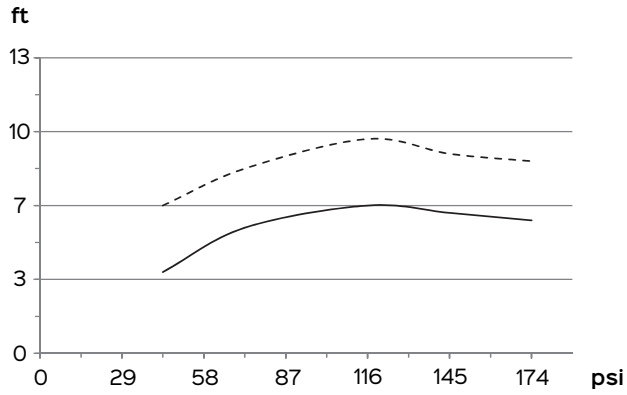
TANKO CP2 Flow/Pressure and Cleaning Radius Charts

TANKO CP2 Flow/Pressure



A: *360° Clip-on;* **B**: *360° thread;* **C**: *180° downwards clip-on;* **D**: *180° downwards clip-on;* **E**: *180° upwards thread / 180° downwards thread*

TANKO CP2 Cleaning Radius



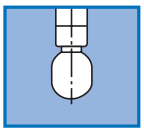
Jet Spray Devices

The AWH jet spray devices generate dynamic spray patterns with powerful impingement to penetrate soils. The device produces a spherical pattern, which ensures all tank surfaces are hit with cleaning solution. And, like rotary spray devices, jet devices provide additional deflective cleaning. A jet device can complete a full rotation in three to five minutes, dependent on cleaning medium.

The jet spray devices maintain a plain bearing and planetary gear system to provide repeatable results. They also have low water consumption requirements and a hygienic design to allow for self-cleaning.

TANKO® MX

The newest jet spray device products from AWH are the TANKO® MX devices. The fluid-driven jet spray devices have internal gears for controlled rotation, and higher efficiency (per pass). The TANKO MX offering has two models with multiple nozzle sizes available. The devices are ideal for cleaning moderate to heavy soils.


360°

The TANKO MX jet spray device cycle generates approximately 44 horizontal rotations to get back to the starting position. These rotations require approximately four to five minutes to complete.

All AWH Spray Devices come with a Material Test Report (MTR).

TANKO MX125

- **Materials:** 316L stainless steel, C-PTFE, PEEK+PTFE (FDA-compliant)
- **Maximum Working Temperature:** 203 °F
- **Minimum Installation Opening:** 5.0"
- **Rotation Speed (RPM):** Approx. 5-14 rpm dependent on pressure
- **Weight:** Approx. 7.0 lbs
- **Design:** 4 nozzles
- **Spray Pattern:** Multi-axis 360° jet spray

TANKO MX150-GR14

- **Materials:** 316L stainless steel, C-PTFE, PEEK+PTFE (FDA-compliant)
- **Maximum Working Temperature:** 203 °F
- **Minimum Installation Opening:** 6.0"
- **Rotation Speed (RPM):** Approx. 5-14 rpm dependent on pressure
- **Weight:** Approx. 7.9 lbs
- **Design:** 4 nozzles
- **Spray Pattern:** Multi-axis 360° jet spray

QUICK TIPS

Is there a way to monitor rotation?

Because the TANKO MX is geared and media-driven, it can be monitored with sensors for proof of rotation. The AWH CIPGuard (TCG-ZR) is available for monitoring proof of rotation.

GOOD TO KNOW

- Vertical positioning is recommended to avoid reduced service life
- Fully drainable in a vertical or horizontal position
- The MX150-G12 is a two-nozzle option available, if you have a relatively small insertion port but require spray throw distance. *(This item is not featured in the catalog but is available through Sani-Matic Representatives.)*

TANKO MX Jet Spray Device

Model	Spray Pattern	Spray Nozzle	Connection Size	Connection Style	Flow (gpm)	Pressure (psi)	Max. Cleaning Radius (ft)	Part #
TANKO MX125	360° Full Coverage Nozzle Spray	Four (4) 5.0 MM Nozzles	1.00"	FNPT	17 - 44	44 - 145	13.0	**053597**
TANKO MX125	360° Full Coverage Nozzle Spray	Four (4) 6.0 MM Nozzles	1.00"	FNPT	17 - 44	44 - 145	13.0	**053598**
TANKO MX150	360° Full Coverage Nozzle Spray	Four (4) 7.0 MM Nozzles	1.50"	FNPT	45 - 81	43.5 - 116	24.0	**053600**
TANKO MX150	360° Full Coverage Nozzle Spray	Four (4) 8.0 MM Nozzles	1.50"	FNPT	45 - 81	43.5 - 116	24.0	**053599**

*NOTE: **Green highlighted** cells indicate stocked items.*

TANKO MX Replacement Parts

Model	Description	Part #
TANKO MX125 / MX150	Wear Parts Kit	**053553**

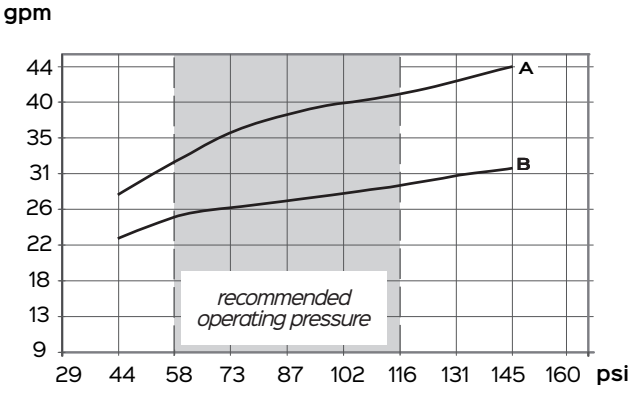
*NOTE: **Green highlighted** cells indicate stocked items.*

TANKO MX Accessories

Model	Description	Part #
CIPGuard	Proof of Rotation Sensor, Complete Kit (TCG-ZR)	**053545**

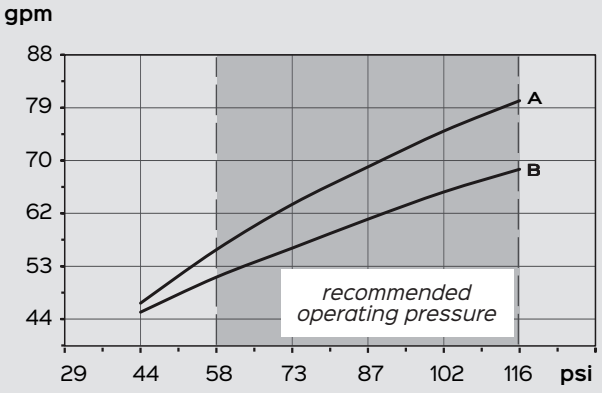
TANKO MX Flow/Pressure and Cleaning Radius Charts

TANKO MX125 Flow/Pressure



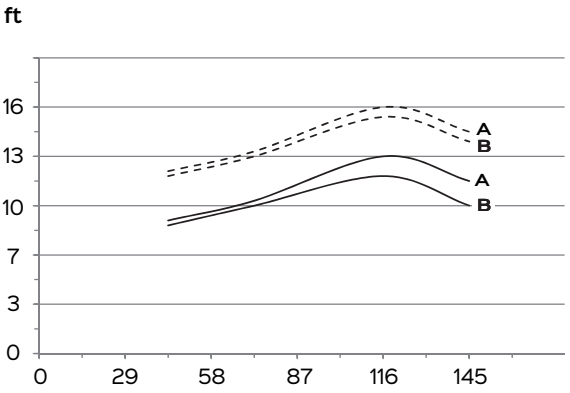
A: *4 x Ø 6.0 mm;* **B**: *Ø 5.0 mm*

TANKO MX150 Flow/Pressure



A: *4 x Ø 8.0 mm;* **B**: *Ø 7.0 mm*

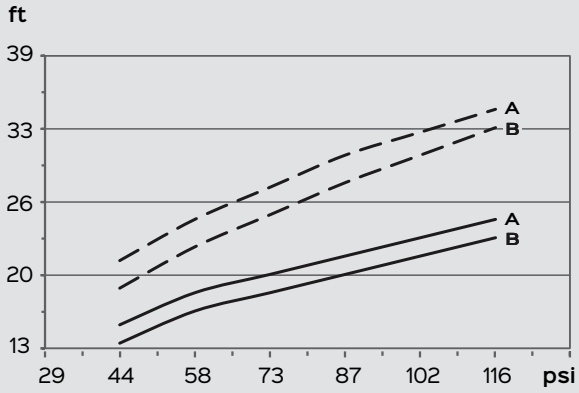
TANKO MX125 Cleaning Radius



A: *4 x Ø 6.0 mm;* **B**: *Ø 5.0 mm*

Wetting Radius *Cleaning Radius*

TANKO MX150 Cleaning Radius



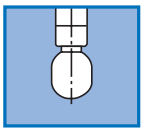
A: *4 x Ø 8.0 mm;* **B**: *Ø 7.0 mm*

Wetting Radius *Cleaning Radius*

TANKO® JM

AWH's TANKO® JM series of jet spray devices have a sturdy, externally mounted bevel gear for easy inspection and cleaning. The series is for applications requiring high-impact impingement and is configurable to adjust the spray volume for optimal process effectiveness. When water savings is a concern, the AWH jet spray devices have low water consumption requirements.

All AWH Spray Devices come with a Material Test Report (MTR) certificate.



360°

TANKO JM100

- **Materials:** 316L and 304 stainless steel, PTFE, PEEF+PTFE
- **Maximum Working Temperature:** 203 °F
- **Minimum Installation Opening:** 4"
- **Rotation Speed (RPM):** Approx. 5-20 rpm
- **Weight:** Approx. 3 lbs 13 oz
- **Design:** Two, two-nozzle sprays
- **Spray Pattern:** Multi-axis 360° jet spray
- Slide bearings for horizontal or vertical mounting
- Approx. four- to five-minute cycle

TANKO JM500

- **Materials:** 316L and 304 stainless steel, PTFE, PEEF+PTFE
- **Maximum Working Temperature:** 203 °F
- **Minimum Installation Opening:** 8.5"
- **Rotation Speed (RPM):** Approx. 5-20 rpm
- **Weight:** Approx. 13 lbs 3 oz
- **Design:** Two, two-nozzle sprays
- **Spray Pattern:** Multi-axis 360° jet spray
- Slide bearings for horizontal or vertical mounting

TANKO JM800

- **Materials:** 316L and 304 stainless steel, PTFE, PEEF+PTFE
- **Maximum Working Temperature:** 203 °F
- **Minimum Installation Opening:** 12"
- **Rotation Speed (RPM):** Approx. 5-20 rpm
- **Weight:** Approx. 18 lbs 6 oz
- **Design:** Three nozzles. Concentrated spray can throw jets of water farther
- **Spray Pattern:** Multi-axis 360° jet spray
- Vertical mounting

QUICK TIPS

How are the external gears cleaned?

The hygienic design includes intentional "leaks," or weep holes, allowing water to clean the external gears throughout the cycle.

GOOD TO KNOW

- Proof of rotation is possible when paired with the FDA-compliant CIPGuard (TCG-ZR) rotation sensor

TANKO JM Jet Spray Device

Model	Spray Pattern	Spray Nozzle	Connection Size	Connection Style	Flow (gpm)	Pressure (psi)	Max. Cleaning Radius (ft)	Material	Finish	Part #
TANKO JM100	360° Full Coverage Nozzle Spray	Four (4) 3.7 MM Nozzles	0.75"	FNPT	9 - 29	44 - 290	13.0 (6.5 Typ.)	304/316	32 µin Ra	**053591**
TANKO JM100	360° Full Coverage Nozzle Spray	Four (4) 4.3 MM Nozzles	0.75"	FNPT	9 - 29	44 - 290	13.0 (6.5 Typ.)	304/316	32 µin Ra	**053590**
TANKO JM500	360° Full Coverage Nozzle Spray	Four (4) 8.0 MM Nozzles	1.50"	FNPT	36 - 129	51 - 189	16.5 (8 Typ.)	316	32 µin Ra	**053593**
TANKO JM500	360° Full Coverage Nozzle Spray	Four (4) 9.5 MM Nozzles	1.50"	FNPT	36 - 129	51 - 189	16.5 (8 Typ.)	316	32 µin Ra	**053594**
TANKO JM500	360° Full Coverage Nozzle Spray	Four (4) 6.5MM Nozzles	1.50"	FNPT	36 - 129	51 - 189	16.5 (8 Typ.)	316	32 µin Ra	**053592**
TANKO JM800	360° Full Coverage Nozzle Spray	Three (3) 9.5 MM Nozzles	1.50"	FNPT	63 - 122	73 - 189	23.0 (11.5 Typ.)	316	32 µin Ra	**053595**
TANKO JM800	360° Full Coverage Nozzle Spray	Three (3) 8.0 MM Nozzles	1.50"	FNPT	63 - 122	73 - 189	23.0 (11.5 Typ.)	316	32 µin Ra	**053596**

*NOTE: **Green highlighted** cells indicate stocked items.*

TANKO JM Replacement Parts

Model	Description	Part #
TANKO JM100	Wear Parts Kit	**053552**
TANKO JM100	Repair Kit, Tool, Rotor, Installation-Removal	**053570**
TANKO JM100 TANKO JM500 TANKO JM800	Repair Kit, Work Holders, 2 Assembly Jaws	**053569**
TANKO JM500 TANKO JM800	Wear Parts	**053566**
TANKO JM500 TANKO JM800	Repair Kit, Tool, Rotor, Installation-Removal	**053567**
TANKO JM500 TANKO JM800	Repair Kit, Special Key for Gear Wheel Installation	**053568**

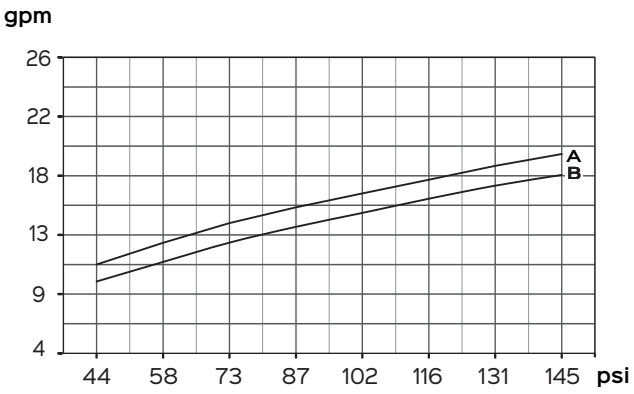
*NOTE: **Green highlighted** cells indicate stocked items.*

TANKO JM Accessories

Model	Description	Part #
CIPGuard	Proof of Rotation Sensor, Complete Kit (TCG-ZR)	**053545**

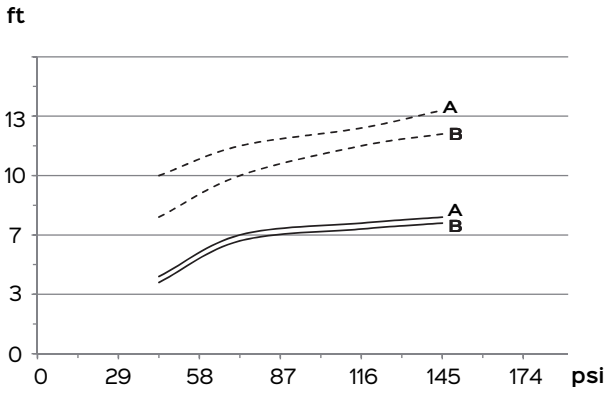
TANKO JM Flow/Pressure and Cleaning Radius Charts

TANKO JM100 Flow/Pressure



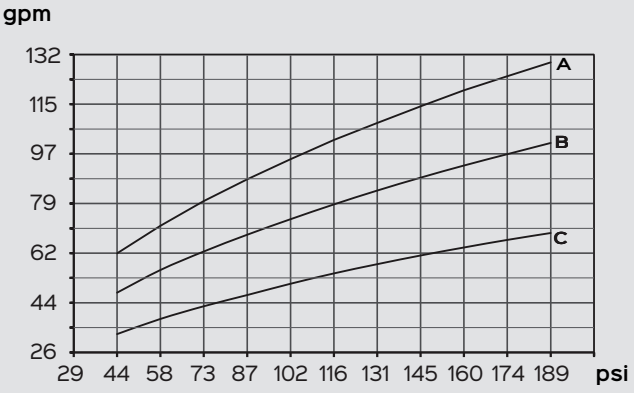
A: *4 x Ø 4.3 mm;* **B**: *Ø 3.7 mm*

TANKO JM100 Cleaning Radius



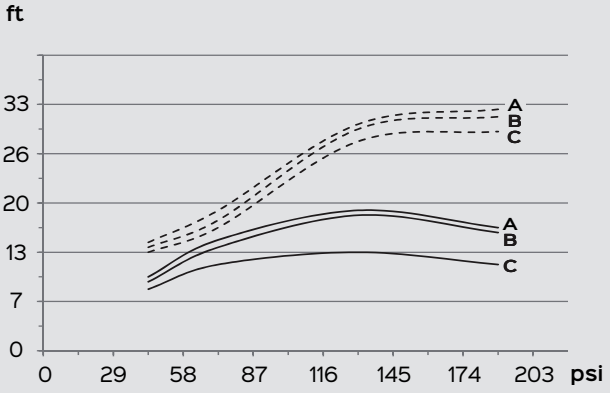
A: *4 x Ø 4.3 mm;* **B**: *Ø 3.7 mm*
Wetting Radius *Cleaning Radius*

TANKO JM500 Flow/Pressure



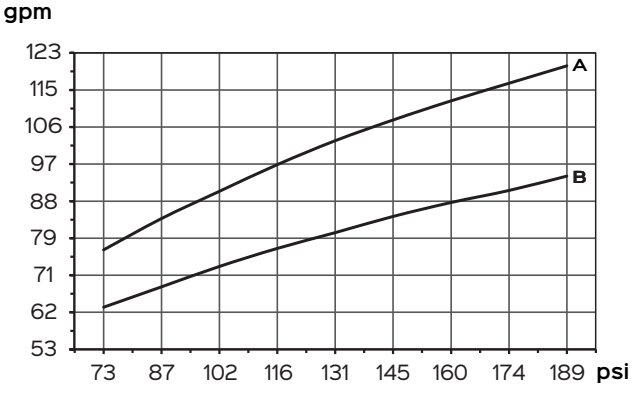
A: *4 x Ø 9.5 mm;* **B**: *Ø 8.0 mm;* **C**: *Ø 6.5 mm*

TANKO JM500 Cleaning Radius



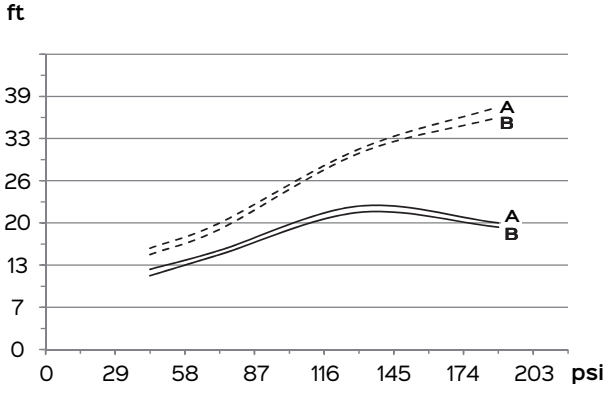
A: *4 x Ø 9.5 mm;* **B**: *Ø 8.0 mm;* **C**: *Ø 6.5 mm*
Wetting Radius *Cleaning Radius*

TANKO JM800 Flow/Pressure



A: *4 x Ø 9.5 mm;* **B**: *Ø 8.0 mm*

TANKO JM800 Cleaning Radius



A: *4 x Ø 9.5 mm;* **B**: *Ø 8.0 mm*
Wetting Radius *Cleaning Radius*

Additional Rotary & Jet Spray Devices

Germany-based AWH, Armaturenwerk Hötensleben GmbH, a member of NEUMO-Ehrenberg Group, has a century of experience making high-quality products at attractive prices. In addition to its more common rotary and jet spray devices, many other unique spray devices and accessories are available through Sani-Matic.

TANKO® CR

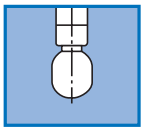
The TANKO® CR is a chemically resistant rotary spray device. It is constructed of a modified, second-generation PTFE that is a smoother and more hygienic surface than conventional PTFE, and resistant to aggressive chemicals.

The series operates at a constant speed under different operating conditions with focused fan jets for fast wetting and effective cleaning.

The TANKO CR series rotates in a slow, defined manner on a hydrodynamic plain bearing. The bearing is flushed throughout operation avoiding wear and shaving, as well as allowing for a variety of installation angles.

The TANKO CR is also suitable for SIP vessel sterilization, and is only available with a BSP fitting.

All AWH Spray Devices come with a Material Test Report (MTR).



360°

GOOD TO KNOW

- **Material:** Modified, second-generation PTFE
- **Maximum Working Temperature:** 250 °F
- **Minimum Installation Opening:** 1.85"
- **Flow Rate:** 11.9-20.7 gpm
- **Connection Size:** ½" BSP female thread. The TANKO weld-on adapter is required.
- **Cleaning Radius:** 6.6 feet

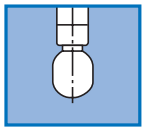
TANKO® JX

The TANKO® JX is an externally driven jet spray device. The electric motor is located outside the vessel and drives the rotation rather than being hydraulically driven. This greatly minimizes water use and allows for easy rotation speed adjustments. The series is available in two models, the JX 70 and JX 75, both with a two-nozzle design for a 360° spray pattern.

All AWH Spray Devices come with a Material Test Report (MTR).

TANKO JX 70

Complete TANKO JX Jet Spray Device



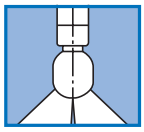
360°

TANKO® RT

The TANKO® RT has an extending and retracting spray arm ideal for vessels with projecting agitators or other internal fittings that create space constraints for traditional spray devices. The design allows the spray arm to rest outside of the vessel within its housing during process operations and pneumatically extends into the vessel for cleaning.

A slotted rotating spray device resides near the end of the spray arm designed with a 270° upward spray. It is available in stroke lengths of 4, 6, 10, and 20 inches.

All AWH Spray Devices come with a Material Test Report (MTR).



270°

TANKO RT

TANKO® AN

The TANKO® AN weld-on adapter allows an AWH device with a BSP connection to be welded to a supply tube. This adapter provides an internal turbulence zone for self cleaning and a lip that reduces contamination at the connection point.

All AWH Spray Devices come with a Material Test Report (MTR).

Supply Tubes

Precise Spray Ball Placement for a Complete Clean

Determining the proper supply tube for your spraying system is critical for thorough cleaning.

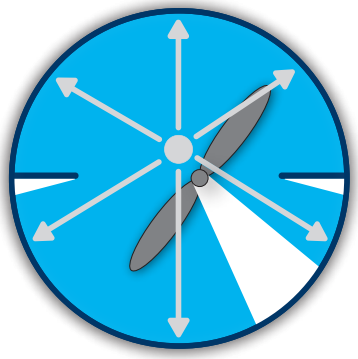
Although spray balls are thought of as the only part to your spray solution, they will only provide a complete clean if they are positioned correctly for proper head and nozzle coverage. And, the right supply tube is an integral part of proper positioning.

Sani-Matic is 3-A certified for its supply tube design, however, if your process requires a custom-designed supply tube, contact a Sani-Matic representative to ensure it meets 3-A certification.

QUICK TIPS

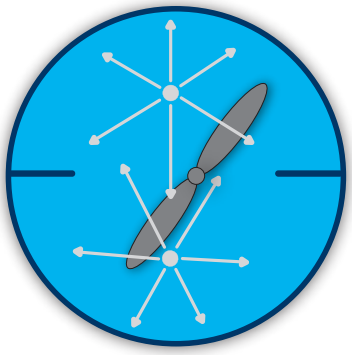
How do you properly clean tanks with baffles or agitators?

When tanks have baffles or agitators, a shadowing effect occurs within the tank and leaves areas without full spray coverage. Using multiple spray assemblies for full spray coverage combats shadowing.



Shadowing

This top view of a tank with baffles and agitator shows the shadowing of spray due to obstructions within the tank.

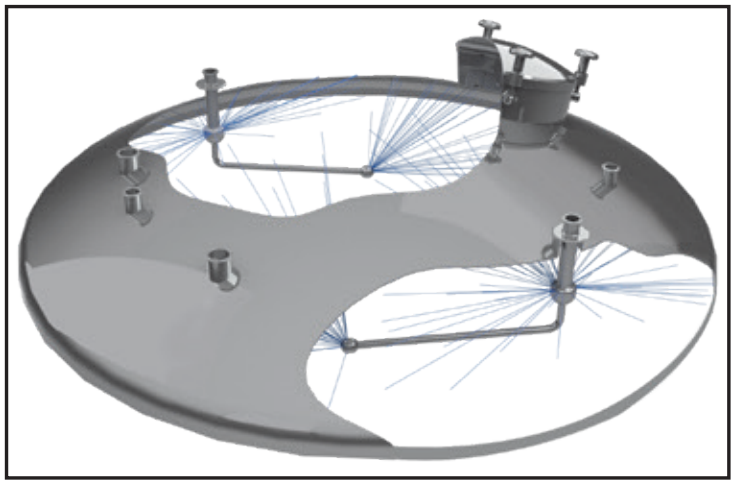


Multiple Spray Assemblies

For complete coverage, multiple spray sources are needed to compensate for the shadowing effect.

GOOD TO KNOW

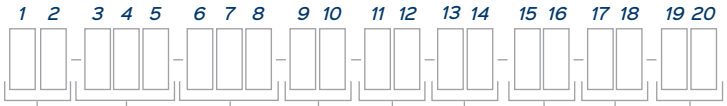
- **Material:** 316L stainless steel
- Supply tubes may require longer lead times if engineering for specific tank requirements
- Material Test Reports (MTRs) are available
- Sani-Matic supply tubes are used with static spray balls, rotary, and jet spray devices
- With double ball tees, flow rate is divided between both spray balls



Custom supply tube and directionally drilled static spray ball configuration.

Supply Tubes Model Number Key

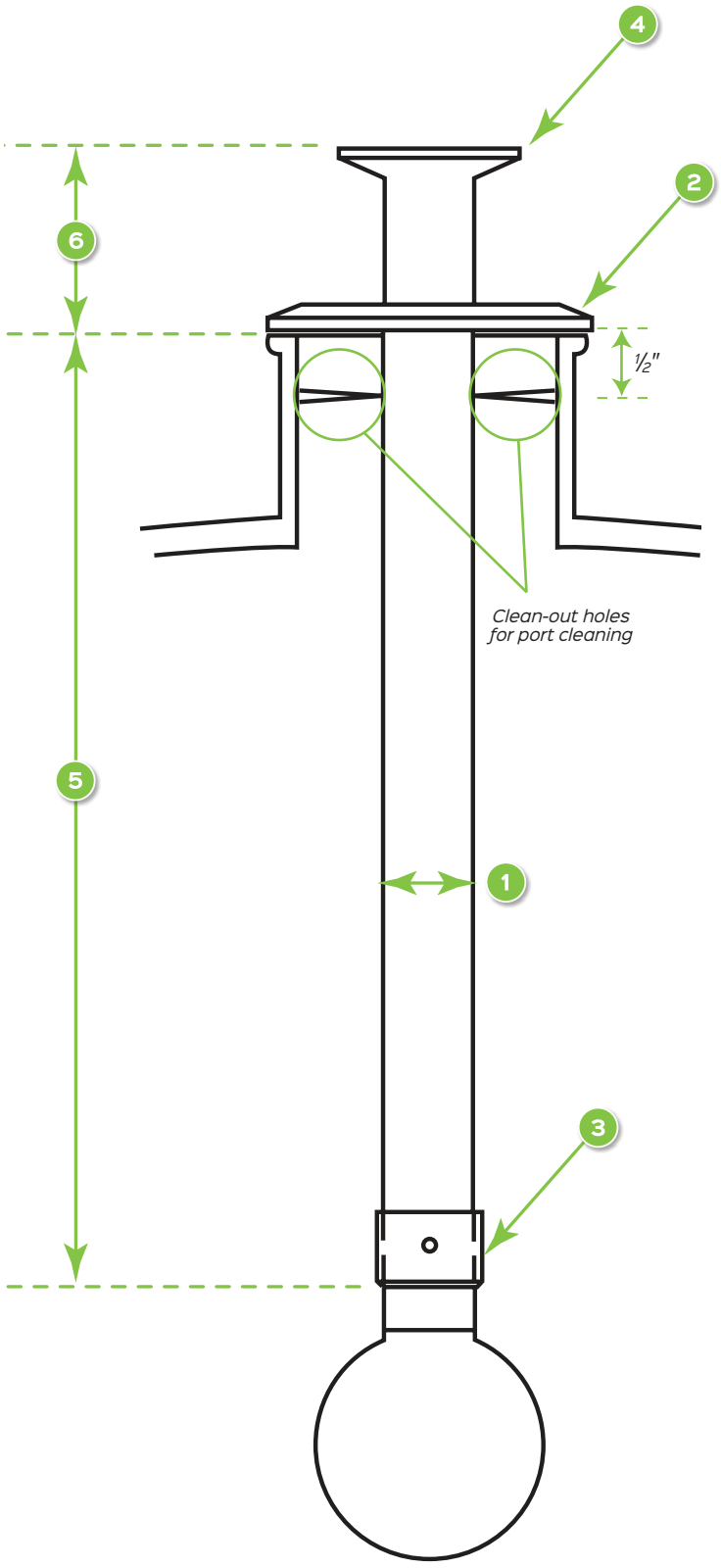
Example Model #:
ST-150-300-SC-TC-12-0S-32-MP



1, 2	**Component Model**	
	ST	Supply Tube
3-5	**Tube Diameter**	
	050	0.50" Tube Diameter
	075	0.75" Tube Diameter
	100	1.00" Tube Diameter
	150	1.50" Tube Diameter
	200	2.00" Tube Diameter
	250	2.50" Tube Diameter
6-8	**Tank Connection Size & Type**	
	000	None
	150	1.50" End Cap Tri-Clamp
	200	2.00" End Cap Tri-Clamp
	250	2.50" End Cap Tri-Clamp
	300	3.00" End Cap Tri-Clamp
	400	4.00" End Cap Tri-Clamp
	600	6.00" End Cap Tri-Clamp
9, 10	**Spray Ball Connection Type**	
	SC	Slip Collar (Standard)
	BW	Butt Weld
	TC	Tri-Clamp [1]
	HC	Half Coupling (FNPT) [1]
	PN	Pipe Nipple (MNPT) [1]
11, 12	**External Connection Type**	
	TC	Tri-Clamp (Standard)
	BW	Butt Weld
	HC	Half Coupling (FNPT) [1]
	PN	Pipe Nipple (MNPT) [1]
13, 14	**Internal Length**	
	##	Custom Internal Length (inches)
15, 16	**External Length**	
	0S	Standard Length (1 $^{11}/_{16}$") with End Cap (Standard)
	##	Custom Length without End Cap (inches)
17, 18	**Finish**	
	32	32 µin Ra (Standard)
	20	20 µin Ra
	15	15 µin Ra
19, 20	**Polish**	
	MP	Mechanical Polish (Standard)
	EP	Electropolish

 # Specify custom length values when ordering.

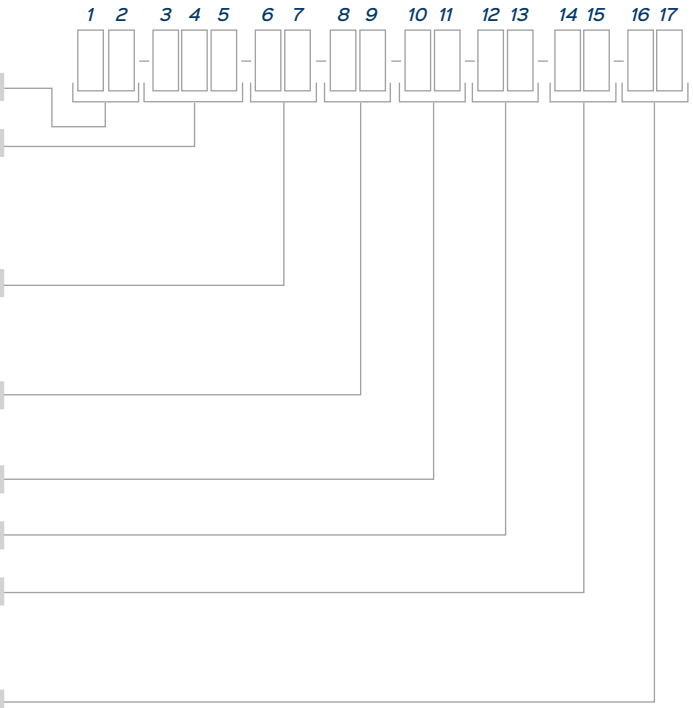
[1] Does not conform to 3-A standard.



1. Tube Diameter
2. Tank Connection
3. Spray Ball Connection
4. External Connection
5. Internal Length (Length of tube within the tank)
6. External Length (Length of tube outside the tank)

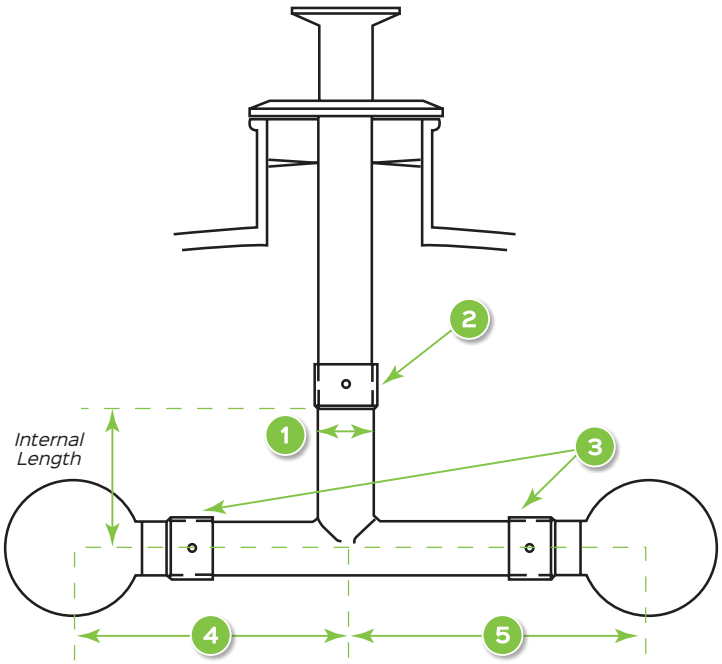
Double Ball Tee Model Number Key

Example Model #:
DT-150-SC-12-12-32-MP



1, 2	**Component Model**	
	DT	Double Ball Tee
3-5	**Tube Diameter**	
	075	0.75" Tube Diameter
	100	1.00" Tube Diameter
	150	1.50" Tube Diameter
	200	2.00" Tube Diameter
6, 7	**Supply Tube Connection Type**	
	SC	Slip Collar (Standard)
	BW	Butt Weld
	TC	Tri-Clamp
8, 9	**Spray Ball Connection Type**	
	SC	Slip Collar (Standard)
	BW	Butt Weld
10, 11	**Right Leg Length**	
	##	Custom Length (inches)
12, 13	**Left Leg Length**	
	##	Custom Length (inches)
14, 15	**Finish**	
	32	32 µin Ra (Standard)
	20	20 µin Ra
	15	15 µin Ra
16, 17	**Polish**	
	MP	Mechanical Polish (Standard)
	EP	Electropolish

 # Specify custom length values when ordering.



1. Tube Diameter
2. Supply Tube Connection
3. Spray Ball Connection
4. Left Leg Length
5. Right Leg Length

Tube Diameter (selection ⓘ)	Standard Internal Length
0.75"	1.0"
1.0"	1 11/16"
1.5"	2 13/32"
2.0"	2 11/16"

Model TS-4

Tanker Spray Washers

Reliable Spray Options for Small to Large Tankers

Sani-Matic provides two different models of drop-in style tanker spray washers for tanks transporting bulk food grade liquids. The TS-4 static spray washer and TS-5 impingement spray washer are capable of cleaning a variety of soils including dairy, juice, and more.

Model TS-5

The TS-4 is designed to thoroughly clean tankers up to 44 feet in length. It features a center-positioned, static spray ball with a top-to-bottom spray pattern. The top of the tanker is sprayed directly with the solution, which then cascades down the sides of the tank removing soil. It also includes two multi-bore jet nozzles to reach all product contact surfaces.

The TS-5 is ideal for cleaning tanks up to 50 feet, as well as tanks that require high-impact cleaning for tough soils. Its S-shaped manifold positions the rotary spray device's nozzle for 360° spray coverage without obstruction, cleaning all product contact surfaces inside the tank.

QUICK TIPS

Did you know Tanker Spray Washers do not need to be 3-A certified?

There is not a 3-A standard for tank cleaning devices that are removed. The only 3-A standard for tank cleaning is standard number 78-03 for Spray Cleaning Devices Intended to Remain in Place. 3-A standard number 05-15 for Automotive Transportation Tanks for Bulk Delivery and Farm Pick-Up Service, allows for these tanks to be cleaned by impingement or flowing cleaning solutions over the surface, but gives no other stipulation.

GOOD TO KNOW

Model TS-4

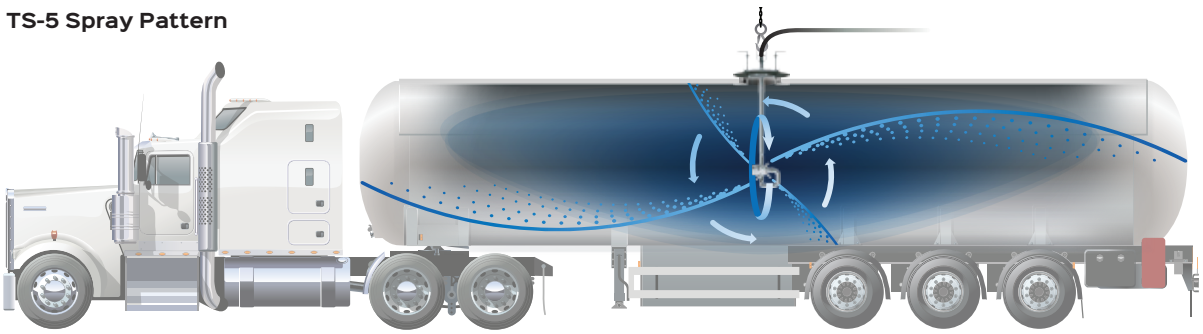
The TS-4 features a center spray ball for a top spray pattern and two multi-bore jet nozzles for tank end washing. The vented manway cover has a bail handle and two hold downs with gasket.

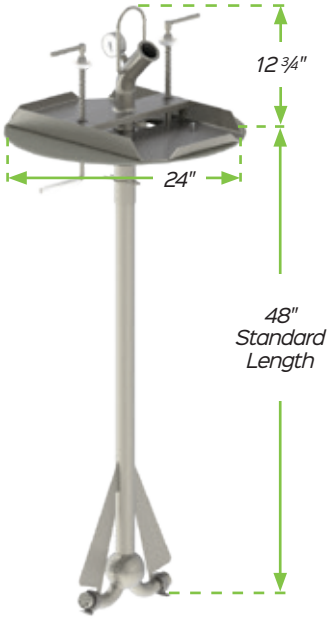
Model TS-5

The S-shaped manifold doubles the spray volume to the ends of the tanker. Combined with the rotary spray device, it creates 360° spray coverage allowing direct impingement of the cleaning solution to the entire tank. High-pressure nozzles provide the reach needed to clean long tankers.

TS-4 Spray Pattern

TS-5 Spray Pattern



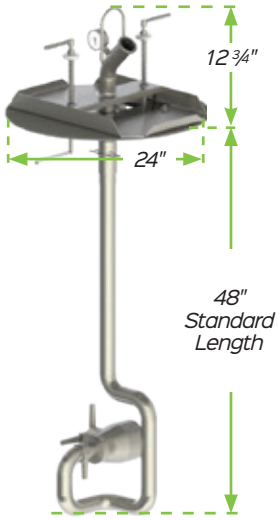


Model TS-4 Complete Assembly

Drop-in style washer is ideal for 44' tankers.

Connection Description	Connection Size	Flow Requirements	Approximate Weight	Max. Temperature Rating	Part #
Tri-Clamp	2.0"	120 gpm @ 55 psi	50 lbs	212 °F	**153190**
Bevel Seat	2.0"	120 gpm @ 55 psi	50 lbs	212 °F	**S10090**

NOTE: Temperature rating is with a neoprene manway gasket.



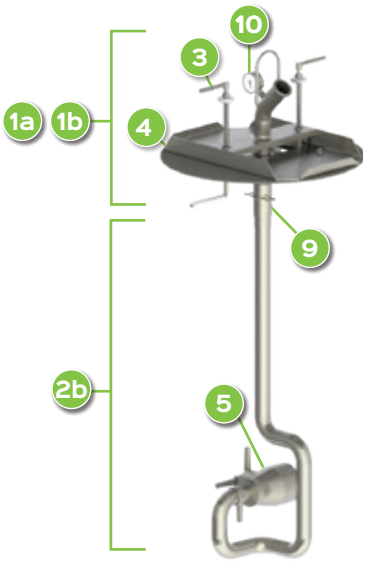
Model TS-5 Complete Assembly

Drop-in style washer is ideal for 50' tankers.

Connection Description	Connection Size	Flow Requirements	Approximate Weight	Max. Temperature Rating	Part #
Tri-Clamp	2.0"	74 gpm @ 60 psi	70 lbs	194 °F	**239965**
Bevel Seat	2.0"	74 gpm @ 60 psi	70 lbs	194 °F	**239966**

Replacement Parts

TS-4 Tanker Spray Washer

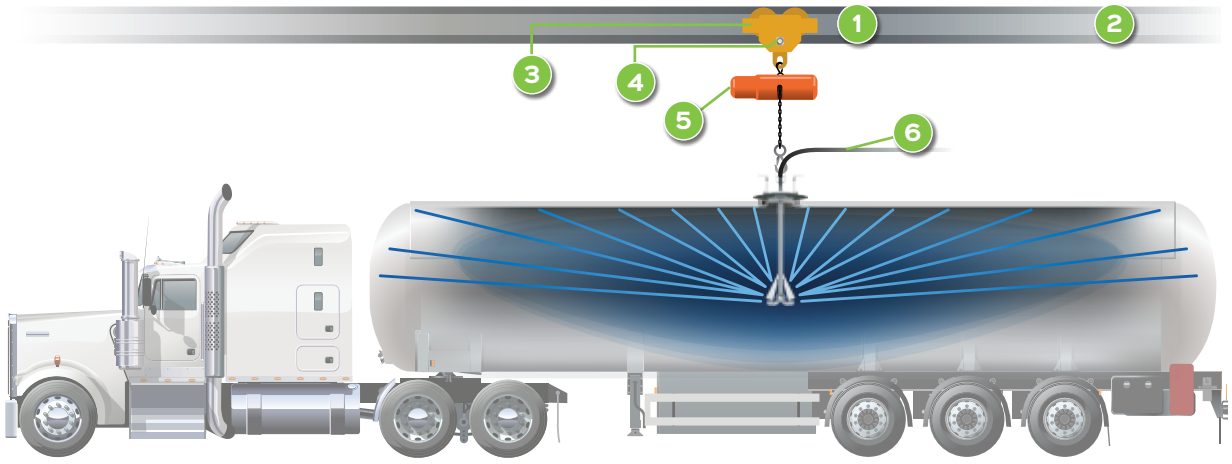


TS-5 Tanker Spray Washer

Item	Part #
1a Top only (bevel seat)	**360004**
1b Top only (tri-clamp)	**138806**
2a Bottom only – TS-4	**360075**
2b Bottom only – TS-5 (no spray)	**138890**
3 Arm/Spring Assembly (set of 2)	**S10093**
4 TS-4/TS-5 Manway Gasket (Neoprene, standard, 212 °F max)	**320053**
5 TS-5 Spray Nozzle[1]	**048812**[2]
6 TS-4 Nozzle	**321793**
7 TS-4 Nozzle Gasket (EPDM)	**020455**
8 Nozzle Clamp	**020473**
9 Clip	**320068**
10 Pressure Gauge	**031564**

[1]*Recommended operating pressure 40-100 psi.*

Accessories: Optional Equipment for Drop-In Handling



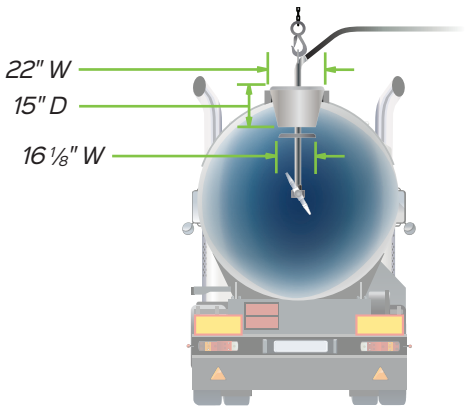
Item	Description	Part #
1 Rail[1]	4" I-beam, carbon steel primed *NOTE: Mounting pads are sold separately (part #320136)*	**Call for Part #**
2 Turns	90° / 48" radius bend, prime coated 180° / 48" radius bend, prime coated	**341477** **341478**
3 Carrier	Rolling carrier, adjustable I-Beam fit	**020231**
4 Balancer	Operate at 55 - 70 lbs.	**020766**
5 Electric Hoist	1/6 HP, 300-lb. capacity	**021047**
6 CIP Hose	Tri-clamp discharge hose (2"), 20' long	**032757**

[1] *Number of required I-Beam rail mounting pads is dependent on length of rail. Rail is priced per foot.*

Tapered Manway Assembly

For use with rotating spray heads. Used in applications where impingement cleaning is required to remove heavily soiled products.

Connection Size	Approximate Weight	Part #
1.5" MNPT (both supply and nozzle connections)	72 lbs	**360115**



System Accessories

System Accessories and Replacement Parts to Meet Diverse Cleaning Needs

Whether manufactured in Wisconsin by our dedicated craftsmen or sourced from long-trusted suppliers, our lineup of accessories and replacement parts are available to help you meet your sanitation goals — and make your work day easier.

From CIP air eliminators, mushroom air vents, transfer panels and chemical pumps to COP steam regulator valves, hose racks and COP baskets, we offer the accessories and replacement parts needed for a sanitary cleaning process.

COP System Accessories

In-Tank Steam Mixer/Sparger

The steam mixer/sparger mixes steam with water in the tank to reduce noise and maximize heating capacity. Steam mixers/spargers are attached to either in-tank piping or a coupling that is mounted through the tank sidewall.

Description	Steam Inlet Connection	Length	Part #
316L stainless steel with one-piece ferruled assembly	0.5" FNPT	8.69"	**252795**
	0.75" FNPT	9.44"	**252790**
	1.0" FNPT	8.13"	**252792**

NOTE: Sizing is determined by the steam valve through which steam is delivered.

NOTE: For older models with coupling welded into sidewall call a Sani-Matic sales representative.

Steam Regulator Valve

The steam regulator automatically controls the temperature of your cleaning unit without the use of external power. With a vapor pressure thermal system, the steam regulator senses temperature change and positions the valve plug to regulate the heating or cooling medium to maintain a desired temperature.

Description	Connection Size	Part #
Brass with an FNPT connection type	0.5"	**020494**
	0.75"	**020495**
	1.0"	**020506**

NOTE: Maximum temperature setpoint is 170 °F.

Thermowell for Steam Regulator Thermal Bulb

Description	Part #
Tri-Clamp x NPT Connection Thermowell, 321 stainless steel tube, 9.25" overall length, 316 stainless steel fitting, 2.0" Tri-Clamp tank connection x 1.0" FNPT Thermowell connection	**221907**

Tri-Clamp x NPT Fitting Thermowell

Electric Immersion Heater

Description	Power Rating	Part #
Manual Thermostat, Thermocouple, 3" Tri-Clamp, NEMA 4X Head, 50° - 250 °F, 460V AC	7.5 kW	**042243**
	9.0 kW	**042244**
	12.0 kW	**042245**

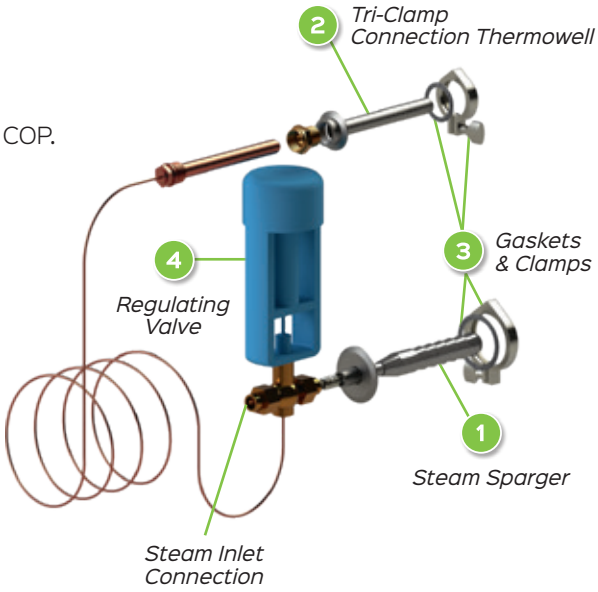
NOTE: Additional voltages and sizes are available upon request.

In-Tank Steam Kit

All the components for adding steam capabilities to your COP.

Steam Inlet Connection	Kit Assembly	Part #
0.50 FNPT	1 Steam Sparger 2 Thermowell 3 Clamps & Gaskets 4 Regulating Valve	**160813**
0.75 FNPT	Same as above	**160814**
1.0 FNPT	Same as above	**160815**

NOTE: Maximum pressure for mixer/sparger is determined by the incoming connection line.



Hose Racks

Stainless steel hose racks provide a convenient way to store hoses at cleaning stations and COP tanks. They are available in two styles.

Description	Model #	Part #
5" x 12" backing plate	201A	**740017**
Mounting holes at each end	201B	**740684**

Model 201A

Model 201B

COP Parts Washer Accessories

The following options are available to enhance your previously purchased COP system.

Electric Motor Starter

NEMA 4X, stainless steel enclosure UL 508A.

COP Model	Voltage	Part #
RW06	5 HP, 460V AC	**835391**
RW08	7.5 HP, 230V AC	**836523**

COP Cover

Counterweighted sanitary cover assembly.

Description	COP Model	Part #
304 stainless steel	RW06	**166376**
	RW08	**172152**

Heavy-Duty Casters

Add flexibility to your COP washer. Set of four (4) complete swivel caster assemblies.

Description	Part #
304 stainless steel	**138593**

Push-in Adjustable Feet Kit

Kit includes set of four (4) feet.

Description	Part #
1.50" diameter, stainless steel clad	**256416**
2.00" diameter, stainless steel clad	**256417**

Removable End-Drain Table

Drain table to place parts for drying or reassembly.

Description	Part #
304 stainless steel	**144416**

NOTE: Drain tables cannot be used with a hinged cover when the cover is closed.

Please contact your Sani-Matic Sales Representative about installation recommendations and options.

Standard COP Parts Baskets

Sani-Matic COP Parts Baskets allow for thorough cleaning, while reducing the number of damaged and lost parts. Baskets make it easy and safe for workers to handle valuable components. The second number listed in the model designates the baskets handle height (e.g., URWB-7-18 has an 18" handle height).

Model	Description	Part #	Basket Dimensions (inches)	Handle Height (inches)	COP Without Cover				COP With Cover			
					UW	RW	PW	TW	UW	RW	PW	TW
URWB-1 (Standard)	**Placement:** Tank bottom, non-stacking **Construction:** 316L sheet, 3/8" diameter perforations, bead blast finish	**460030**	19.00 x 15.00 x 3.50	17.50	✓	✓	✓	✓	✓	✓	✓	✓
URWB-2 (Standard)	**Placement:** Tank bottom, non-stacking **Common Uses:** Fittings **Construction:** 316L sheet, 3/8" diameter perforations, bead blast finish	**020132**	19.75 x 15.00 x 4.00	15.75	✓	✓	✓	✓	✓	✓	✓	✓
URWB-5-17 (Standard)	**Placement:** Edge of tank (hanger style) **Common Uses:** Small parts **Construction:** 316L sheet, 3/16" diameter perforations, electropolished finish	**020139**	12.00 x 6.00 x 10.00	17.63	✓	✓	✓	✓	✓	✓	✓	✓
URWB-5-19	**Placement:** Edge of tank (hanger style) **Common Uses:** Small parts **Construction:** 316L sheet, 3/16" diameter perforations, electropolished finish	**221298**	12.00 x 6.00 x 10.00	19.00	✓	✓	✓	✓		✓	✓	✓
URWB-6-24 (Standard)	**Placement:** Tank bottom, non-stacking **Common Uses:** Small parts **Construction:** 316L round bar, 1" spacing electropolished finish	**020136**	22.00 x 10.50 x 10.00	24.00	✓	✓	✓	✓				✓
URWB-6-15	**Placement:** Tank bottom, non-stacking **Common Uses:** Small parts **Construction:** 316L round bar, 1" spacing electropolished finish	**218495**	22.00 x 10.50 x 10.00	15.00	✓	✓	✓	✓	✓	✓	✓	✓
URWB-6-19	**Placement:** Tank bottom, non-stacking **Common Uses:** Small parts **Construction:** 316L round bar, 1" spacing electropolished finish	**218496**	22.00 x 10.50 x 10.00	19.00	✓	✓	✓	✓		✓	✓	✓
URWB-7-29 (Standard)	**Placement:** Tank bottom, non-stacking **Common Uses:** Large parts **Construction:** 316L round bar, 1" spacing, electropolished finish	**440021**	22.00 x 22.00 x 18.00	29.00		✓	✓	✓			✓	
URWB-7-18	**Placement:** Tank bottom, non-stacking **Common Uses:** Large parts **Construction:** 316L round bar, 1" spacing, electropolished finish	**221293**	22.00 x 22.00 x 18.00	18.00		✓	✓	✓		✓	✓	✓

NOTE: Non-standard basket lead times may be longer.
NOTE: Custom baskets are available. Contact a Sani-Matic Representative.

URWB-1

URWB-2

URWB-5-17

URWB-6-24

URWB-7-29

CIP System Accessories

Level Probe

The three-point level probe maintains the correct solution levels in a tank.

Connection Size	Part #
2" Tri-Clamp connection for mounting on the top of tanks	**220293**

NOTE: All probes are cut to length. For replacement level probes, please measure the lengths of the existing model.

Orifice Plates

These flow restrictors come with an 1/8" diameter pilot hole, but can be drilled to your specifications.

Connection Size	Material	Gasket OD	Gasket ID	Part #
0.75" Tri-Clamp	EPDM	0.860	0.620	**048700**
1.0" Tri-Clamp	EPDM	1.984	0.900	**048701**
1.5" Tri-Clamp	EPDM	1.984	1.400	**022074**
2.0" Tri-Clamp	EPDM	2.515	1.900	**048696**
2.5" Tri-Clamp	EPDM	3.050	2.400	**023641**
3.0" Tri-Clamp	EPDM	3.579	2.900	**048695**
4.0" Tri-Clamp	EPDM	4.682	3.869	**048702**

NOTE: Also available in Viton.

Mushroom-Style Air Vent

These vents are constructed of 316L stainless steel with a solid radiused and panned top. The underside portion is constructed with 1/8" perforated material. The vents may be installed on CIP tanks to prevent foreign materials from entering the tank.

Connection Size	Diameter (OD)	Height (H)	Part #
1.5" Tri-Clamp	3 1/8"	1 13/16"	**740828**
2.0" Tri-Clamp	5"	1 13/16"	**740829**
2.5" Tri-Clamp	5"	1 13/16"	**740830**
3.0" Tri-Clamp	6"	1 13/16"	**740831**
4.0" Tri-Clamp	7 3/4"	1 13/16"	**740832**
6.0" Tri-Clamp	10"	2 3/8"	**741502**

Anti-Siphon

The anti-siphon is constructed of 316L stainless steel and eliminates the siphoning of water from the tank back into the process water.

Height (Face-to-Face Dimensions): 3 3/4"

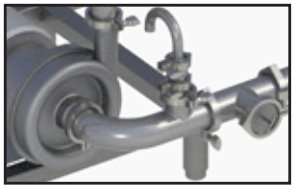
Tank Connection	Tube Adapter	Flow Capacity	Part #
3.0" Tri-Clamp	1.5" Tri-Clamp	100 gpm	**123416**
3.0" Tri-Clamp	2.0" Tri-Clamp	240 gpm	**129208**

Sanitary Air Eliminator

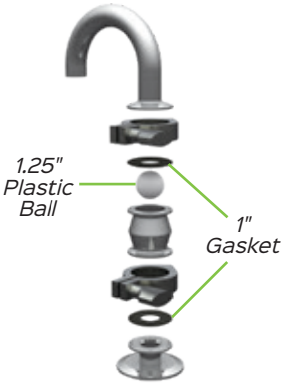
The air eliminator is constructed of 316L stainless steel and installed at the suction of a CIP return pump to remove air from CIP return solution and prevent air lock in a centrifugal pump.

NOTE: If the pump is used during processing to transfer product, the air eliminator is usually removed and the port is capped.

Connection Size	Part #
1.5"	**740636**
2.0"	**740637**
2.5"	**740638**
3.0"	**740639**
4.0"	**740640**



Sanitary Air Eliminator



Replacement Parts	Part #
1" Gaskets (Buna-N, Qty. 2 Required)	**020388**
Plastic Ball (1.25")	**020280**

CIP Return Pump Air Vent

The return pump air vent is installed to expel air, avoiding cavitation and air lock that can cause wash program disruption. Ball valve shut-off is available.

Description	Part #
304 stainless steel, 1/4" FNPT	**720001**

Transfer Panels

Reduce piping and valve costs by creating multi-port flow selector stations with a Transfer Panel.

Description	Custom
Three styles: round, rectangular and square	**Designed for your process***

**Call a Sani-Matic representative to discuss your Transfer Panel requirements.*

CIP & COP System Accessories

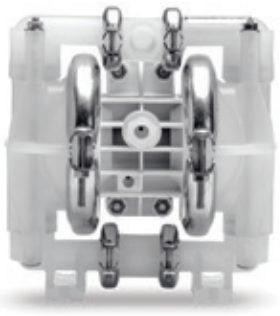
Chemical Pumps

Sani-Matic offers high-quality Wilden pumps on our chemical pump assemblies. The Air-Operated Double-Diaphragm (AODD) pumps ensure reliability and easy installation.

Pump Features/Benefits

- Self-priming
- Variable speed
- Dry-run without damage
- Longest Mean Time Between Repair (MTBR)
- Anti-freezing
- Robust design
  - **Polypropylene -** wetted parts, outer piston, center section and air valve
  - **PTFE -** valve ball, diaphragm O-ring (neoprene back-up) and valve seat O-ring (encap. Viton)

Diaphragm Pump, ¼" connection size



Diaphragm Pump, ½" connection size

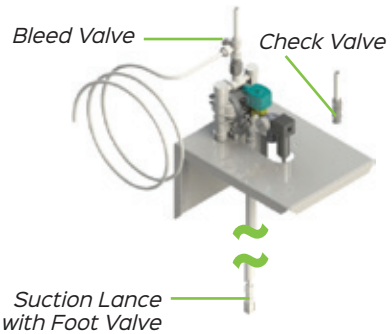
Pump Only

Description	Connection Size	Max gpm	Part #
Diaphragm pump, 1/4", Polypropylene	1/4"	4.8	**900028**
Diaphragm pump, 1/2", Polypropylene	1/2"	15.0	**900510**

Pump Assemblies

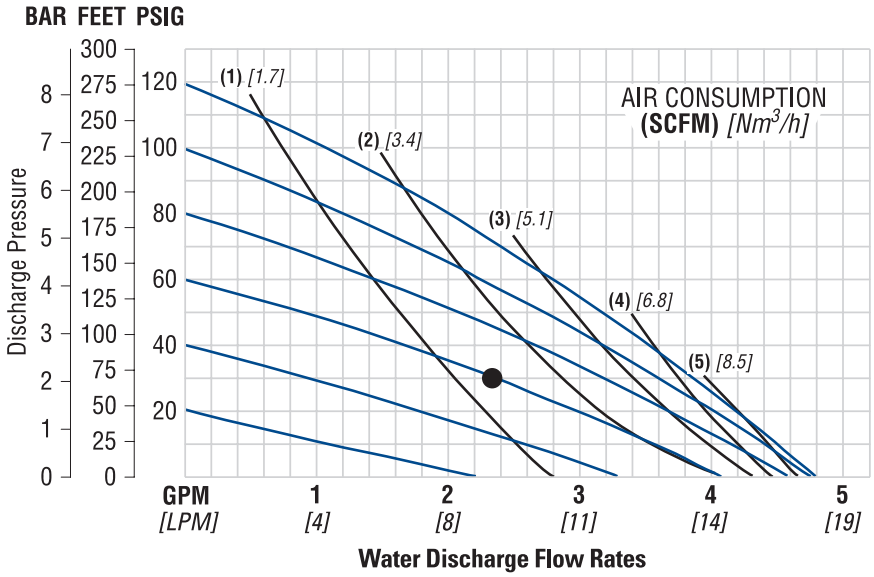
Assemblies include mounting bracket, check valve, and complete piping kit.

Max gpm	Voltage	Part #
4.8	24V DC	**109640**
4.8	120V AC	**760504**
15.0	24V DC	**109211**
15.0	120V AC	**760455**

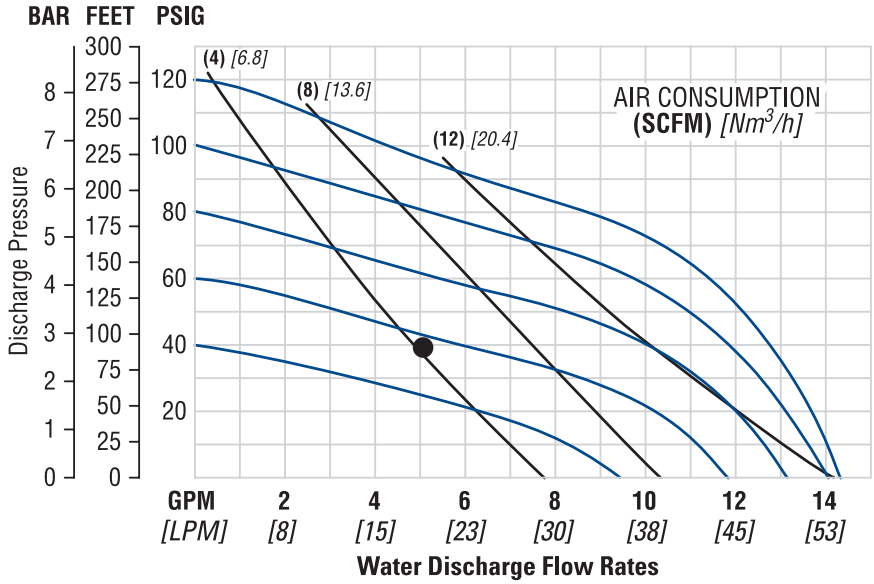


Chemical Pump Performance Curves

Curve for Pump with ¼" Connection Size (Part # 900028)



Curve for Pump with ½" Connection Size (Part # 900510)



Documentation Packages

Sani-Matic can provide complete component documentation packages to meet your validation requirements.

- Material Test Reports (MTRs)
- Weld qualification, log and inspection reports
- Weld map
- Mechanical polishing procedures
- Electropolishing procedures and certifications
- Surface finish certification
- General and subassembly as-built drawings
- Spray pattern layout with degrees and angles
- Weld procedures

Component Documentation / Turn Over Packages (TOP)				
Document Name	**Document Description**	**Basic**	**Standard**	**Premium**
Material Test Report (MTR)	MTR is a quality assurance document that certifies a material's chemical and physical properties and states the product made is compliant within the specific set standards. It also states the identification number of the batch/lot of steel, which the part/material was made from at the mill.	✓	✓	✓
3-A Certification	A document certifying that the equipment listed conforms fully with 3-A Accepted Practices.	✓	✓	✓
Sani-Matic Certificate of Compliance	A document that the equipment listed conforms fully with Sani-Matic's Internally Accepted Practices.	✓	✓	✓
Certified "As-Built"	A certified drawing that documents the as-built dimensions and surface finish produced in manufacturing.		✓	✓
Heat Map	A certified document that contains details of an assembly where each of the materials' heat numbers are recorded. A heat map can stand by itself or be combined with a weld map and slope map.		✓	✓
Weld Map	A certified document that contains details of a piping assembly where each weld is identified with a unique number. The identifying number is used on the weld log which profiles each weld.		✓	✓
Weld Log	A certified document that records all welds contained in a weld map. The profile of each weld recorded includes heat numbers of the material, the detail where the weld is located, the welder's I.D., the date of the weld, the machine used to weld, and the Quality Inspector's approval signoff.		✓	✓
Surface Finish Certification	Part of the as-built drawing that states Sani-Matic has verified the assembly or that the parts' surface finish meets the agreed upon requirements in the sales order.		✓	✓
Borescope Video Documentation	The AWS-certified weld inspector will utilize a borescope to inspect the welds. The inspector will record all weld inspections. The videos are loaded to a DVD, which corresponds with the weld map/weld log.			✓
Electropolish Certification (EP Cert)	A certified document that states that electropolishing was performed to the assembly or parts as agreed upon in the sales order.			✓
Passivation Certification	A certified document that states that citric acid passivation was performed to assemblies or parts as agreed upon in the sales order.			✓
Slope Map	Part of the as-built drawing where the actual slope of the piping or sheet is recorded to verify slope for proper drainage.			✓

Product Certifications / Standards

Product	CRN	3-A	Notes
Strainers			
Angle-Line Strainers (4" Body Size)	✓	✓	All 4" Angle-Line Strainers have a CRN except those with a Butt Weld connection type, Magnetic Trap, Sight Glass or Drain Port option. See sanimatic.com/resource-center/ for current registered provinces and details.
High-Capacity Angle-Line Strainers (6" Body Size)		✓	3-A Certified when using perforated elements. See sanimatic.com/resource-center/ for the 3-A Certificate.
Angle-Line Strainer w/ Magnetic Trap			
Straight-Line Strainers		✓	3-A Certified when using perforated elements. See sanimatic.com/resource-center/ for the 3-A Certificate.
Tee-Line Strainers			
Y-Strainers		✓	3-A Certified when using perforated elements. See sanimatic.com/resource-center/ for the 3-A Certificate.
Basket Strainers		✓	3-A Certified when using perforated elements. See sanimatic.com/resource-center/ for the 3-A Certificate.
Static Spray Devices			
Static Spray Balls		✓	3-A Certified when Tri-Clamp or threaded connections are NOT used. See sanimatic.com/resource-center/ for the 3-A Certificate.
Supply Tubes			
Supply Tubes		✓	3-A Certified when threaded connections or tri-clamp spray ball connections are NOT used. See sanimatic.com/resource-center/ for the 3-A Certificate.
Double Ball Tees		✓	3-A Certified. See sanimatic.com/resource-center/ for the 3-A Certificate.
Rotary Spray Devices			
TANKO RB			
TANKO S			
TANKO SF40		✓	3-A Certified. See sanimatic.com/resource-center/ for the 3-A Certificate.
TANKO CP			
Jet Spray Devices			
TANKO MX			
TANKO JM			
Additional Rotary & Jet Spray Devices			
TANKO CR			
TANKO JX			
TANKO RT			

NOTE: For more details on Canadian Registration Number (CRN) registrations and provinces, as well as 3-A Certificates, visit our Resources page at sanimatic.com/resource-center/.

Capabilities Overview

Food & Beverage Systems

The most well-known and respected food and beverage processors put product safety at the top of their priority list. That's why they turn to Sani-Matic for sanitary process cleaning solutions. From Clean-Out-of-Place (COP) Parts Washers, cabinet washers, tunnel washers and boosted pressure systems to multi-tank and multi-circuit Clean-In-Place (CIP) Systems, Sani-Matic delivers a complete clean, every time. The Sani-Matic team is experienced in developing systems, equipment and procedures that meet industry sanitary standards — and provide customers with total Cleaning Confidence.

Bio-Pharm Systems

Sani-Matic's hygienic process cleaning equipment for the pharmaceutical and biotech industries meets cGMP and ASME BPE standards, as well as individual safety and manufacturing standards for a repeatable and validatable clean.

The Sani-Matic bio-pharm offering includes portable and stationary Clean-In-Place (CIP) Systems to clean tanks, process lines, bioreactors and fermenters, as well as Clean-Out-of-Place (COP) Systems. The COP systems include Immersion Parts Washers for cleaning hoses, fittings, gaskets and clamps—and GMP cabinet washers for cleaning pharmaceutical glassware and small parts or entire suites of process items.

Hygienic Components such as Sani-Matic's directionally drilled spray balls and fully drainable strainers are also available for bio-pharm applications.

Food & Beverage | Bio-Pharm

Sanitary Components

High-quality, off-the-shelf and custom-designed components are part of Sani-Matic's extensive sanitary process cleaning equipment and component offering. From Angle-Line and Y-Strainers to Static, Rotary, and Jet Spray Devices, and much more, Sani-Matic has components for your sanitary process cleaning needs.

The company's experienced team of design and engineering experts ensures your components are properly specified to meet your exact process. And, most components are manufactured by Sani-Matic's Wisconsin-based craftsmen for quick order turnaround. Select components are designed to meet 3-A standards.

Services

Sani-Matic has a large team of field service engineers to provide preventive maintenance, system start-up and aftermarket service. And, through the Tactical Solutions program, Sani-Matic offers system analyses and consultation to help optimize your current cleaning process.

The motivated service team has decades of experience identifying, troubleshooting and solving the difficult cleaning challenges you face every day.

Whether you'd like routine maintenance to ensure ongoing high-quality system performance, or an expert to assess your current system to identify cost-saving adjustments, Sani-Matic has the resources to offer Cleaning Confidence before, during and after your cleaning system purchase.

Sanitary Components

Strainers • Spray Devices • Supply Tubes
Tanker Spray Washers • System Accessories

sanimatic.com

SANI-MATIC®

Sani-Matic, Inc. (p) 800-356-3300 (f) 608-222-5348

FBC-0001.3