

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.

Engineered with durability and simplicity in mind, the tri-clamp connection allows for quick Element Insert removal and easy cleaning. Add the Alignment Pin option to "fool proof" the installation of the strainer and eliminate any possibility of incorrectly positioning the Element Insert.

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.

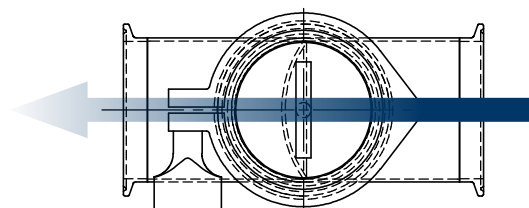
Add the Alignment Pin option to "fool proof" the installation of the strainer and eliminate any possibility of incorrectly positioning the Element.

GOOD TO KNOW

- **Strainer & Element Material:** 316Lss
- **Full Assembly Maximum Pressure Rating (Standard Tri-Clamp):** 125 psi (up to 4" body) / 75 psi (6" body)
- **Full Assembly Maximum Pressure Rating (High Pressure Tri-Clamp):** 200 psi
- **Maximum Temperature Rating:** 250 °F
- 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.
- Tuf-Flex® Gaskets are PTFE gaskets with an EPDM core - they help reduce "stickiness" of the gasket allowing for an easier and quicker strainer element removal process.
- **Recommended Maximum Flows:**

Connection Size	Recommended Max. Flow (gpm)
1.5"	55
2.0"	105
2.5"	165
3.0"	240
4.0"	430
6.0"	980

Concave side of insert should face incoming flow.



Recommended process line installation positioning.

Tee-Line Strainer Model Number Key

Example Model #: TX15T7-P125X01500

		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
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)														
		H	Tri-Clamp - High Pressure Clamp														
		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*														
		8	32 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)														
		T	Tuf-Flex Gasket														
		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	A	Alignment Pin (Standard)														
		0	No Alignment Pin														
16	Option #2	0	None (Standard)														

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

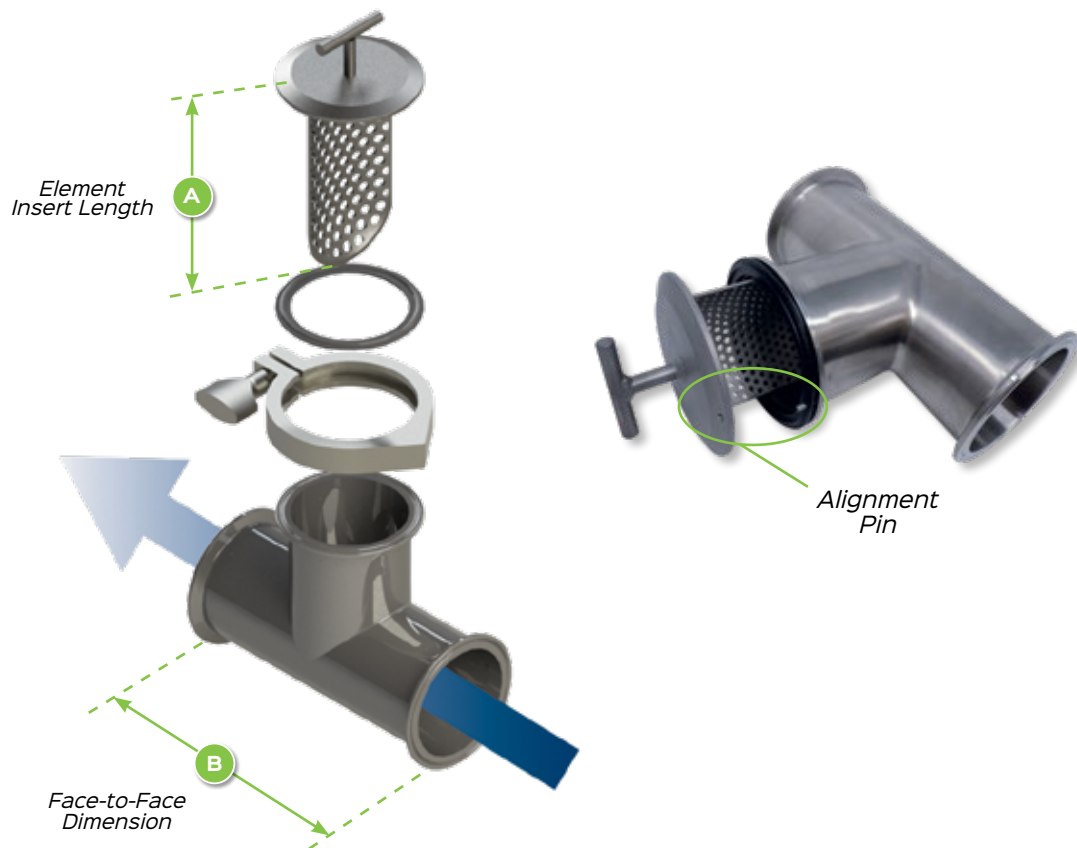
NOTE: Connection size and body size are always equal.

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-P125X04000	178006	TX40T7-P125X040A0
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*

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NOTE: Butt weld connection "B" dimension is different, see replacement part section for details.

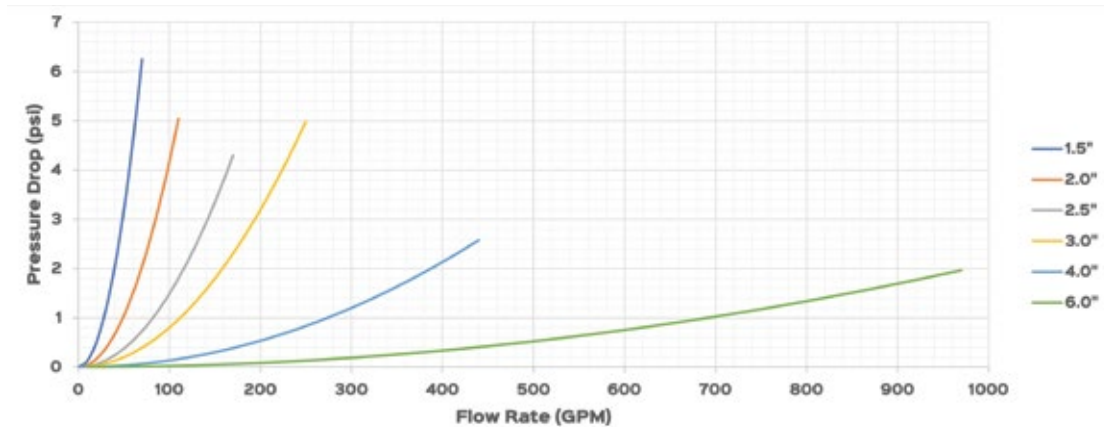


Cv Values & Pressure Drops for Tee-Line Strainers

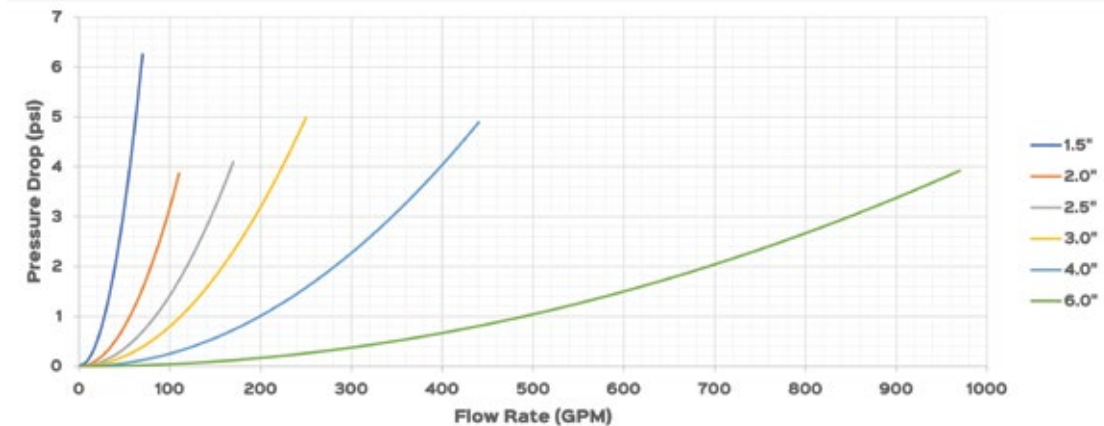
Cv values or the provided pressure drop tables can be used to estimate the pressure drop across a strainer at a given flow rate. Cv values are for water at 70 °F. Contact Sani-Matic for inquiries on pressure drops for fluids with other viscosities.

Perforated Element Size	Connection Size	Cv
1/8"	1.5"	28
	2.0"	49
	2.5"	82
	3.0"	112
	4.0"	274
	6.0"	692
1/4"	1.5"	28
	2.0"	56
	2.5"	84
	3.0"	112
	4.0"	199
	6.0"	490

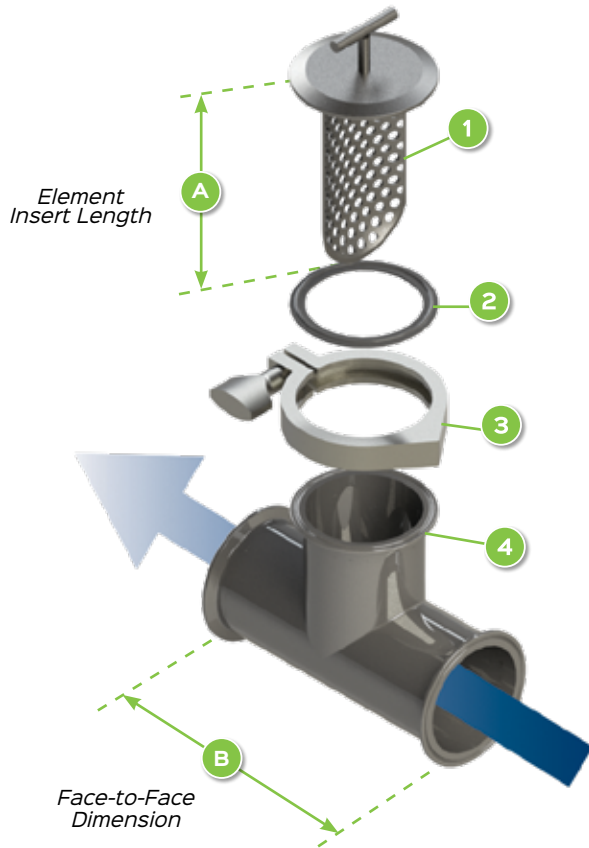
Tee-Line Strainer Pressure Drop - 1/8" Perforated



Tee-Line Strainer Pressure Drop - 1/4" Perforated



Tee-Line Strainer Replacement Parts



- 1 Element Insert
- 2 TC Gasket
- 3 TC 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 Tri-Clamp (TC) Gaskets

Connection Size	EPDM		Tuf-Flex		Viton		Buna-N	
	Standard Gasket	Gasket w/ Alignment Pin Hole	Standard Gasket	Gasket w/ Alignment Pin Hole	Standard Gasket	Gasket w/ Alignment Pin Hole	Standard Gasket	Gasket w/ Alignment Pin Hole
1.5"	021027	020455	046735	334132	028727	334124	020089	334129
2.0"	021028	258816	046736	334133	028728	295294	020090	328673
2.5"	021029	277242	046737	334136	028729	295586	020091	317192
3.0"	021030	277243	046738	334137	028730	300883	020092	334130
4.0"	021031	277244	046739	334138	020474	294209	020226	323099
6.0"	022975	277245	046740*	334145*	023847	334127	020263*	334131*

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

3 Tri-Clamp (TC) Clamps

Connection Size	Standard Clamp Part #	High Pressure Clamp Part #
1.5"	020081	020912
2.0"	020082	020913
2.5"	020083	020914
3.0"	020084	020915
4.0"	020225	020916
6.0"	020976	025686



4 Strainer Body

Tri-Clamp (TC) Connection Size	Face-to-Face Tee Dimension (TC Connections) B	Face-to-Face Tee Dimension (Butt Weld Connections) B	Tee-Line Body w/o Alignment Pin Part #	Tee-Line Body w/ Alignment Pin Part #
1.5"	5.5"	4.5"	020901	288162
2.0"	7.0"	6.0"	020902	288163
2.5"	7.0"	6.0"	020903	288164
3.0"	7.5"	6.5"	020904	288165
4.0"	9.0"	8.0"	020905	288166
6.0"	13.0"	11.25"	034337*	288167*

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



ID Tag

Custom tag your components with an engraved stainless steel tag, affixed to the component using ball chain. Up to 10 characters can be specified.

Description	Part #
ID Tag, 2.0" x 0.5", 304ss	720826

