

TELEFLO RLТ

STRAINERS & PRESSURE VESSELS

STRAINERS



FOR
PROCESS INDUSTRIES

Y STRAINER

FABRICATED Y-STRAINER



CONSTRUCTION

Teleflo Y-type strainers are supplied with a bolted cover and are available with either flanged or butt weld connections.

MODEL

Y-STD Strainers have covers as per ANSI standards, however model Y-EC have covers designed by Teleflo to cater to different pressure and temperature requirements and thus are cost effective.

Carbon Steel / Stainless Steel / Casted Y-Strainers are available in 150 lb., 300 lb., & 600 lb. Flanged and Butt welded and screwed end connections.

FEATURES

- ▶ The strainer screens are piloted through the use of machined grooves in both the body and cover to ensure proper alignment.
- ▶ The cover gasket is designed for specific pressure and temperature ratings.
- ▶ Studs, Nuts and Blow Down Plug is standard on all Teleflo Strainers.
- ▶ Blow down valve can be supplied on request.

APPLICATIONS

Steam, Water, Oil or Gas where filtration of foreign matter in a pipeline is required.

PARTS LIST

Body	: CS Fabricated, CI, 216WCB SS304, SS316
Filter	: SS304, SS316, Monel, Brass, PP
Gaskets	: CAF, Neoprene, Spiral wound SS
Fasteners	: Carbon Steel, ASTM 193B7



CASTED Y-STRAINER

FILTER ELEMENT

Standard screens are 6mm hole dia perforated sheet lined with 40 mesh and are spot welded for maximum strength. Different size Perforations and meshes are available in stainless steel, monel, and brass to meet specific media requirements. Other screen styles and materials can be supplied on request.

FEATURES

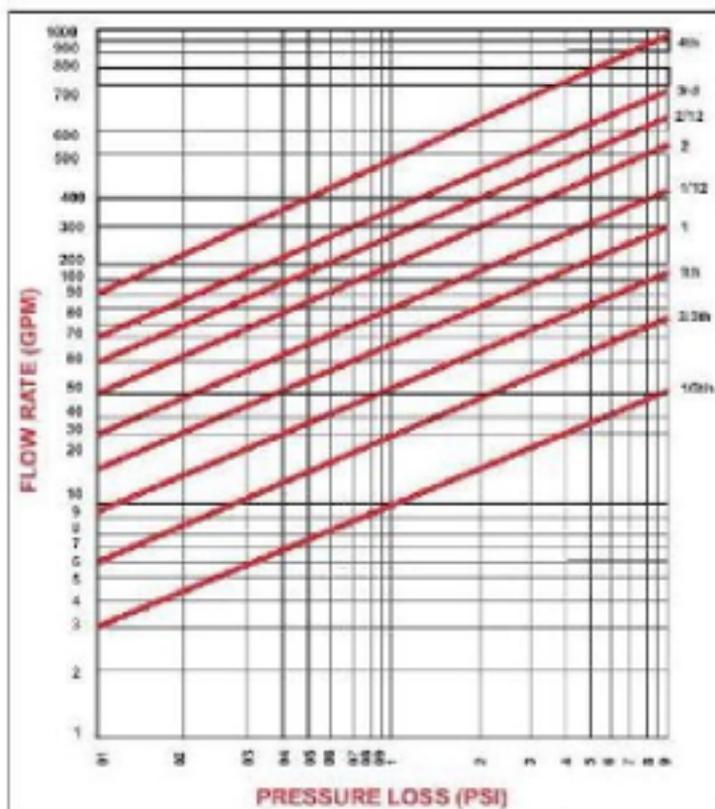
Self cleaning of Teleflo Y-type strainers are accomplished by opening the valve or drain plug connected to the blow off port. Y-STD have free straining area of 4 times the pipe cross section, while Y-EC have free straining area of 2-3 times the pipe cross section.

PRESSURE DROP CHART

Find your desired rate of flow (GPM) on the left hand side of the chart. Follow its corresponding horizontal line to the point where it intersects the diagonal line indicating the strainer pipe size. From this point of intersection, follow the vertical line down to the bottom of the chart to determine the approximate pressure drop.

CORRECTION FACTORS

For finer mesh screens that are backed with a perforated sheet, multiply the pressure drops shown at left by the following 40 mesh - 1.2, 60 mesh - 1.4, 80 mesh - 1.6



This Pressure drop chart is based on the flow of clean water through the Y type Strainers with 1/8" screen perforations.

BASKET STRAINER



Carbon Steel / Stainless Steel / Casted Basket Strainers are available in 150 lb., 300 lb., & 600 lb. Flanged and Butt welded and screwed end connections.

FEATURES

- ▶ Bolted covers are standard
- ▶ Quick opening and hinged covers can also be supplied on request
- ▶ Higher size strainers can be supplied with davit arm for easy removal of covers
- ▶ Drain and vent with plugs are standard, Valves can be provided on request
- ▶ Free straining area is minimum 6 times pipe cross sectional area for B-STD model and 4 times the pipe cross section area for B-EC model

APPLICATIONS

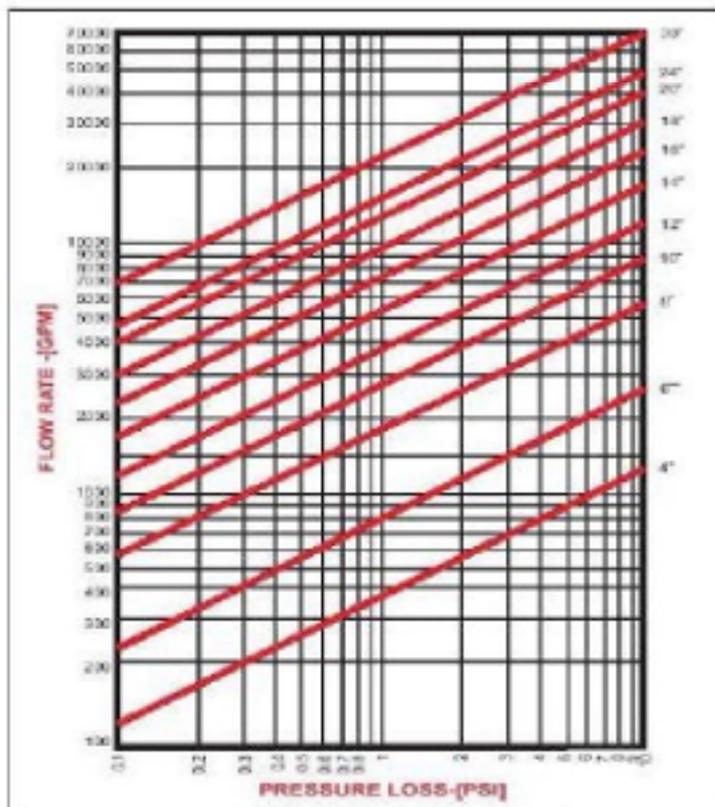
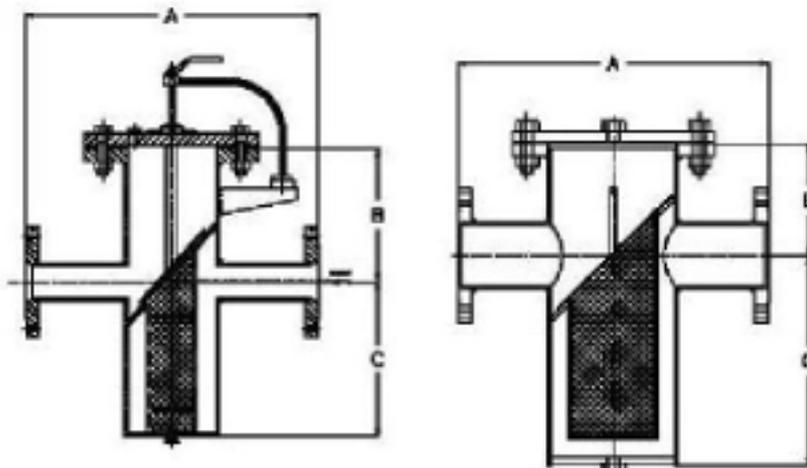
Steam, Water, Oil or Gas where filtration of foreign matter in a pipeline is required.

MODELS

- B-STD : Covers as per ANSI B16.5 150lbs
 B-EC : Covers designed to suit specific pressure and temperature conditions and thus are cost effective

BASKETS

6mm hole dia perforated outer filter element lined with 40 mesh inner filter element is standard. Other filter elements can also be supplied on request. Outer filter element provides strength for the filter screen and the mesh is spot welded to provide for adequate strength.



This Pressure drop chart is based on the flow of clean water through the Basket type Strainers with 1/8" screen perforations.

TO USE CHART

- ▶ Find your desired rate of flow(GPM) on the left hand side of the chart.
- ▶ Follow its corresponding horizontal line to the point where it intersects the diagonal line indicating the strainer pipe size.
- ▶ From this point of intersection, follow the vertical line down to the bottom of the chart to determine the approximate pressure drop.

CORRECTION FACTORS

For finer mesh screens that are backed with a perforated sheet, multiply the pressure drops shown at left by the following :

- * 40 mesh x 1.2
- * 60 mesh x 1.4
- * 80 mesh x 1.6
- * 100 mesh x 1.7



DUPLEX STRAINER



Features: These Strainers are used where frequent shut downs are not possible and where filters have to be changed in operation. They comprise of 2 basket strainers and 2 3-way ball valves for sizes upto 80nb and 4 Butterfly valves for sizes above 80nb.

Materials: Body : CS, SS304, Ss316 - Fabricated
Screen : SS304, SS316
Characteristics : Same as those for simple basket strainers
Other Options : In-Line connection and Davit arm can be provided on request. DP gauges and DP switches can also be provided.

Sizes: 1 inch -24 inch.

MOTORISED ROTARY STRAINER

Features: These strainers are used where continuous operation of filter, without removal for cleaning is required.

Fully automated system with DP switch, DP gauge, motorised drain valve can also be supplied on request.

Principle: When the filter gets choked, pressure drop increased and when the pressure drop reaches a preset level, the controller switches the scrubber motor "ON". The scrubber consists of a brushing arrangement which when rotated brushes the filter element and removes debris which collects at the bottom of the strainer. The motorised drain valve at the bottom opens and debris is flushed out. A timer switches "OFF" the motor after a pre-set time and the strainer is back in operation.

Other Options: Hand operated system without motor and instead with a hand wheel can also be supplied.



TEE STRAINER



Features: Available with special lengths providing straining ratios of many times the pipe area. These units are installed between large flanges. Ideal for application where space Restrictions are an important factor.

Materials: CS Fabricated, CI, 216 WCB, SS304, SS316, A105.

Sizes: 25nb to 1200nb

Filter: SS304, SS316 - 40 mesh standard

Other Options: Perforated outer filter element can be supplied on request.

CONICAL STRAINER

Features: Available in special lengths providing straining ratios of many times the pipe area. These are temporary strainers used for startup only.

Materials: SS 304, SS316, Monel, Brass, Poly-Propylene.

Sizes: 25nb to 1200 nb.

Other Options: The elements can be housed inside a spool piece with flanged ends for permanent usage. However filters cannot be removed on-line.



SUCTION DIFFUSER



PARTS LIST

Description	Material
Body	Cast Iron / 216WCB / IS 3589 / SS304 / SS316
Screen	Stainless Steel (304)
Mesh	Stainless Steel (304)
Cover	Cast Iron /CS to IS 2062
O-Ring	Neoprene
Hex Head Bolt	Steel
Plug	Carbon Steel
Stub	Cast Iron / Carbon Steel

APPLICATIONS

SD - C - F	:	Casted Diffuser - Full base
SD - C - R	:	Casted Diffuser - Reduced Base
SD - FA - F	:	Fabricated Diffuser - Full Base
SD - FA - R	:	Fabricated Diffuser - Reduced Base

APPLICATIONS

The suction diffuser mounts to the suction side of a pump in either a horizontal or vertical position. It is designed to remove any foreign matter that may be hazardous to the pump or other system components, while providing the proper flow conditions to the pump. Where space is limited, the suction diffuser can be used as an elbow or sometimes even as a reducing elbow with a built in strainer for easy maintenance and system performance.

FEATURES

- ▶ Reduces installation costs by replacing the Strainer, elbow, and entry pipe on the suction side of the pump.
- ▶ Integral straightening vanes ensure uniform flow to the suction inlet of the pump.
- ▶ Minimal pressure drop (oversized body & screen)
- ▶ Perforated stainless steel screen with a 40 mesh Stainless steel removable start-up sleeve to help promote a cleaner more trouble free system.
- ▶ Bolted cover plate - Standard.
- ▶ Supporting pads on the diffuser body offer easy mounting of standard I.D. support foot.
- ▶ Tapping for inlet and outlet differential connections Optional.
- ▶ Drain connection with plug standard.

FOOT VALVE with STRAINER

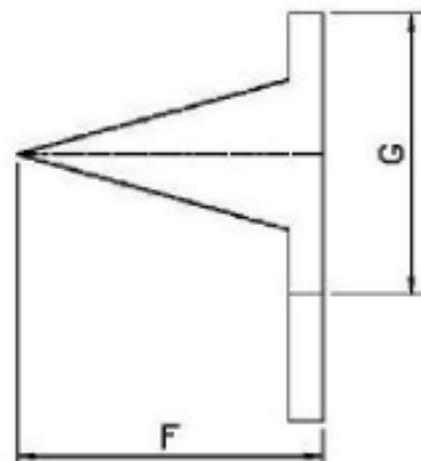
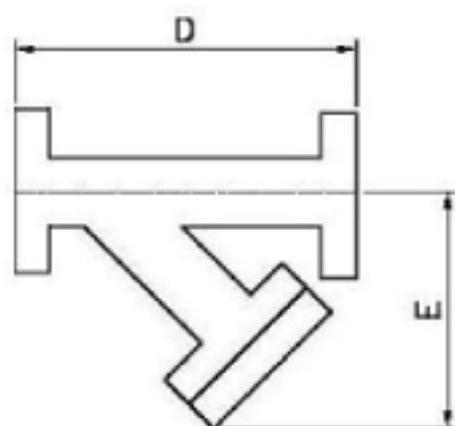
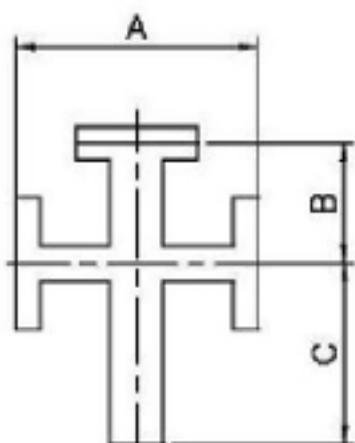


APPLICATION

Water, Oil, Chemicals

CONSTRUCTION

Type	:	Spring Loaded Lift Type
Body	:	Carbon Steel, Cast Iron, Cast Steel, SS304, SS316
Trim	:	SS304, SS316
Size	:	25Nb to 1200 Nb
Connection	:	Flanged to ANSI, IS, DIN Standards
Strainer Element	:	Custom made as per requirement



DIMENSIONS

SIZE (INCH)	SIZE (MM)	BASKET STRAINERS			Y-STRAINERS		CONICAL STRAINERS	
		A	B	C	D	E	F	G
1	25	180	80	120	200	125	64	127
1½	40	210	100	187	235	150	83	171
2	50	260	90	240	270	170	102	232
2½	65	290	100	300	310	198	121	257
3	80	340	120	370	344	235	133	324
4	100	410	140	460	395	285	171	432
5	125	415	140	570	470	350	180	550
6	150	460	150	720	540	408	219	660
8	200	590	200	925	700	530	276	838
10	250	660	235	1150	850	658	337	1016
12	300	710	260	1375	1000	767	406	1245
14	350	810	310	1570			441	1372
16	400	920	360	1775			511	1575
18	450	1100	400	2050			540	1803
20	500	1215	400	2245			597	2007
24	600	1315	450	2690			706	2413
26	650	1380	475	2900				
28	700	1475	500	3150				
30	750	1475	550	3360				
32	800	1525	600	3570				
36	900	1715	700	3980				
40	1000	1810	800	4400				
48	1200	2015	900	5230				

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