

Precision Storage Vessels



TEE STRAINER



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Fabricated TEE Strainer

Fabricated TEE strainers are widely used when standard strainers cannot meet exact piping requirements. Standard units are fabricated as per ASME Section VIII Div. I Standards.

Features

- Suitable for Horizontal or vertical installations. bolted cover is standard.
- Stainless Steel perforated screens as standard.
- End connection can be Buttweld end or Flanged.

Medium

Steam, Liquid, Gas and Oil.

Application

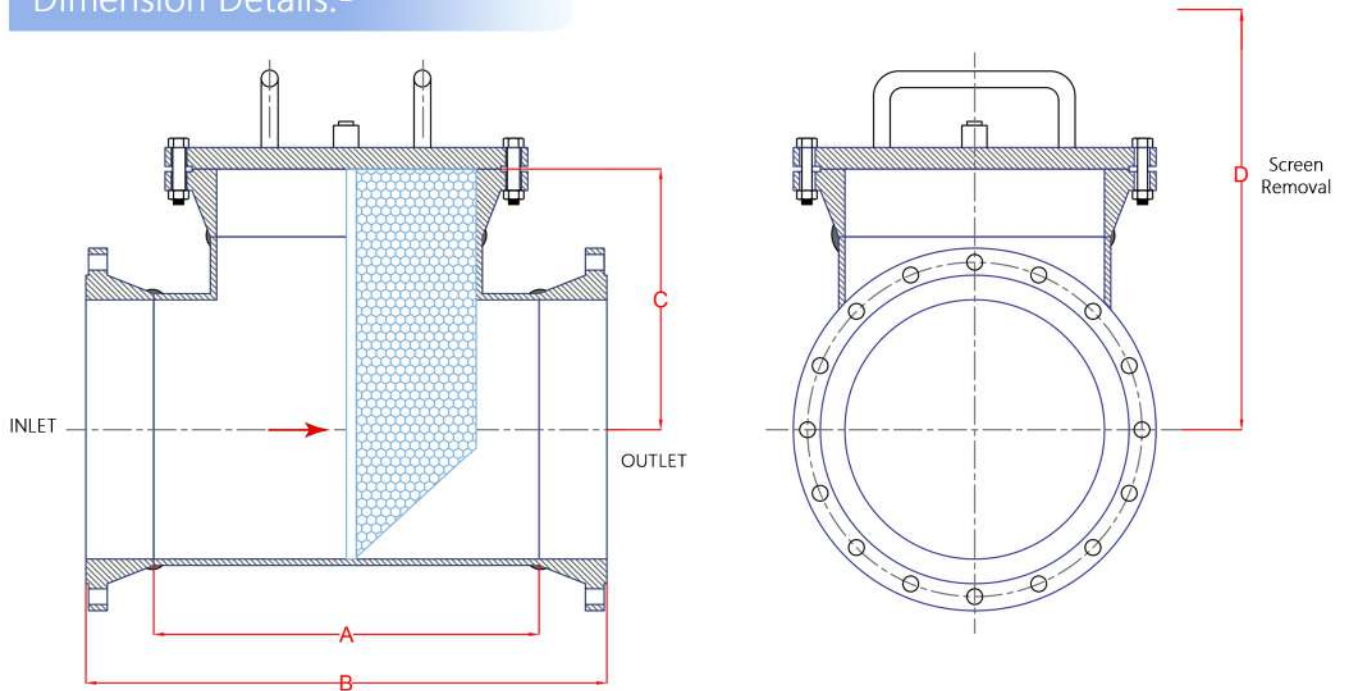
- Waste Water
- Mining
- Process Equipment
- Power Industry

Standard Equipment

Fabricated tee strainers are manufactured in carbon steel A36 Grade. TEE strainers can also be manufactured in stainless steel or other alloy steel as per requirements.

Design Code	- ASME Section VIII Div. I
Body Material	- Carbon Steel SA234 / SA 516 Gr70 / A36
Top Cover	- Forged Carbon Steel SA105
Top Cover Open Assembly	- Forged Carbon Steel SA105
Screen Material	- Stainless Steel 304
Bolts	- Carbon Steel SA193-B7
Nuts	- Carbon Steel SA194-2H
Flanges	- PN16, PN25, PN40, Class 150 & Class 300
Type of Flanges	- Weld Neck Flanges
Design Pressure	- Standard 10 bar, other pressure upon request

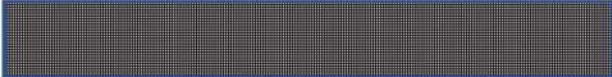
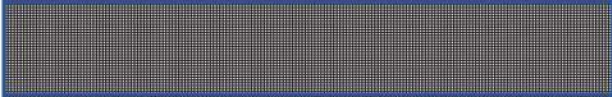
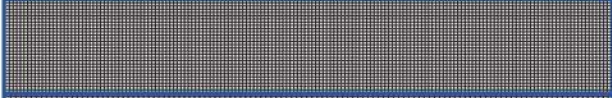


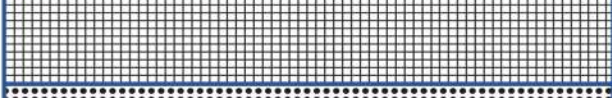









Dimension Details:-



Model No.	In/Out Inch	A mm	B mm	C mm	D mm
PTES-2	2"	127	255	128	300
PTES-2.5	2.5"	152	292	146	340
PTES-3	3"	172	312	156	370
PTES-4	4"	210	362	181	425
PTES-5	5"	248	426	213	500
PTES-6	6"	286	464	232	550
PTES-8	8"	356	550	280	680
PTES-10	10"	432	636	318	775
PTES-12	12"	508	736	368	900
PTES-14	14"	560	814	407	1000
PTES-16	16"	610	864	432	1075
PTES-18	18"	686	966	483	1200
PTES-20	20"	762	1052	526	1300
PTES-24	24"	864	1168	584	1475

Model Precision Tee Strainer	Size
PTES	2" - 30"

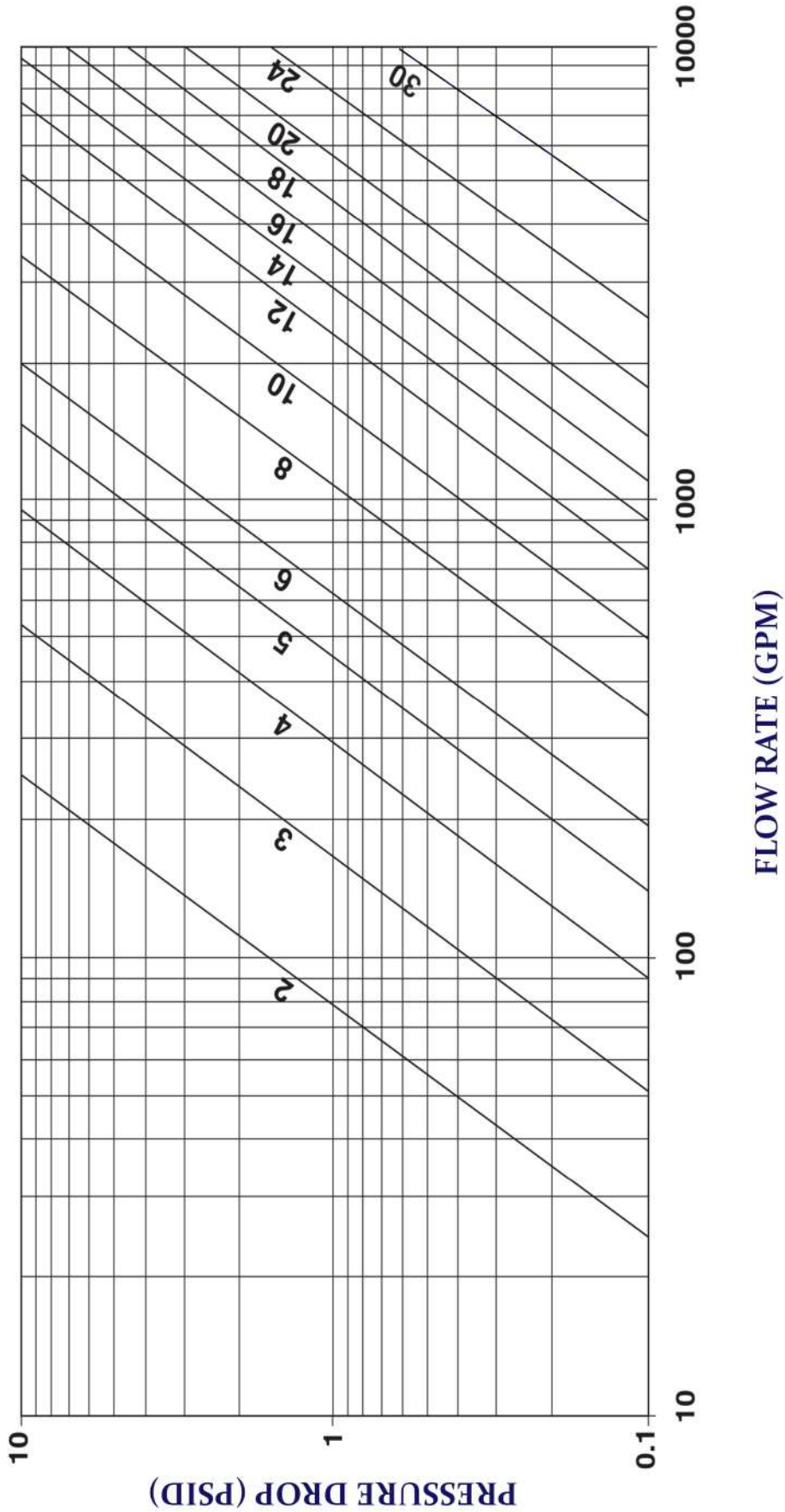
SCREEN OPENINGS

	100 Mesh - 30% O.A. 0.006" Openings
	80 Mesh - 36% O.A. 0.008" Openings
	60 Mesh - 38% O.A. 0.010" Openings
	40 Mesh - 41% O.A. 0.016" Openings
	30 Mesh - 45% O.A. 0.022" Openings
	20 Mesh - 49% O.A. 0.035" Openings
	0.027" Dia. - 23% O.A.
	0.033" Dia. - 28% O.A.
	3/64" Dia. 36% O.A.
	1/16" Dia - 37% O.A.
	3/32" Dia. - 39% O.A.
	1/8" Dia. - 40% O.A.
	5/32" Dia. - 58% O.A.
	3/16" Dia. - 50% O.A.
	1/4" Dia. - 40% O.A.

Size	Standard Screen	Materials
2" - 12"	1/8" Perf	304SS
14" - 30"	3/16" Perf.	304SS

PRESSURE DROP - LIQUIDS

Water Service, Clean Basket, 1/32" - 1/4" Perforated Screen



Notes:

Pressure drop curves are based on water flow with standards screens. Refer Screen Correction Factor Chart for other fluids and/or screen openings.

FABRICATED TEE STRAINER

Open Area Ratios With Standard Perforated Screen

Size (Inch)	Perf. Diameter (Inch)	Opening %	XH Pipe Inlet Area (In ²)	Gross Screen Area (In ²)	Free Screen Area (In ²)	Open Area Ratio (OPR)
2	1/8	40%	3.36	22	9	2.7
2.5	1/8	40%	4.79	25	10	2.1
3	1/8	40%	7.39	40	16	2.2
4	1/8	40%	12.73	58	23	1.8
5	1/8	40%	20.01	82	33	1.6
6	1/8	40%	28.89	105	42	1.5
8	1/8	40%	50.03	167	67	1.3
10	1/8	40%	78.85	235	94	1.2
12	1/8	40%	113.10	330	132	1.2
14	3/16	50%	140.50	420	210	1.5
16	3/16	50%	185.66	510	255	1.4
18	3/16	50%	237.10	640	320	1.3
20	3/16	50%	294.83	770	390	1.3
24	3/16	50%	429.13	1,060	530	1.2

Specification

Precision Tee Strainer shall be designed and manufactured to meet ASME B31.1, ASME B31.3 or ANSI B31.4 and/or ASME Section VIII Div. 1. The strainer shall be straight flow design with vertical screen supports. The screen shall be size _____ perforated Stainless Steel. The strainer shall have a bolted cover. The strainer shall be have an inlet size of _____ and Open Area Ratio of _____.

Notes:-

A series of horizontal dashed lines for writing notes.

RANGE OF PRODUCTS

- ❖ HEAT EXCHANGER PACKAGE
- ❖ AIR RECEIVERS
- ❖ ELECTRIC WATER HEATERS
- ❖ OIL AND GAS FIRED WATER HEATERS
- ❖ INDIRECT HEATED STORAGE CALORIFIERS
- ❖ AIR SEPARATORS
- ❖ EXPANSION VESSELS
- ❖ SURGE VESSELS
- ❖ BASKET STRAINERS
- ❖ BLOWDOWN VESSELS
- ❖ CHILLED WATER BUFFER TANKS



PRECISION

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