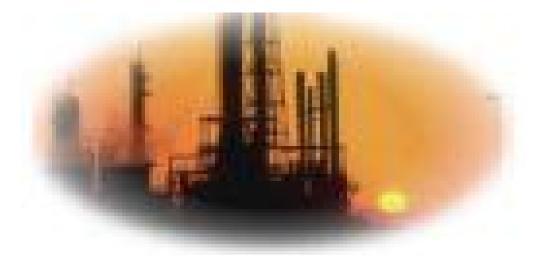
T. ROWE STRAINERS



Manufacturer of Strainers and Paddle Blinds for Pipeline, Oil & Gas, Petrochemical, HVAC, and Commercial Markets.









Quality and Fabrication Excellence







T. Rowe Strainers

A. Strainer Definition and Purpose

Strainers are used for the protection of petroleum process and pipeline equipment installed upstream of the equipment. The equipment protected by T. Rowe Strainers is generally more expensive than the total price of the strainer. This piece of equipment is critical to the operation.

Strainers use perforated and/or wire mesh media for straining purposes. These materials are "two dimensional", meaning they do not have "depth" or "dirt holding" capacity. This means that when a debris particle is caught in the straining media the opening is blocked or plugged. This results in reduced opening area for flow. Strainer sizing and selection are critical to insure your cleaning cycle time, particle size retention and pressure drop requirements are achieved.

B. Straining Media Selection for Basket

The following is a general guideline of media used in various applications:

Liquid Turbine Meters
 1/8" dia. Perforated support

with 40 x 40 mesh liner

Gas Turbine Meters and Regulators
 1/8" dia. Perforated support

with 80 x 80 mesh liner

P.D. Meters
 1/8" Perforated

Centrifugal Pumps Service:

Crude Oil 1/4" dia. Perforated Refined Products 1/8" dia. Perforated

Coke Fines 3/4" flattened expanded metal Water 1/8" dia. To 3/8" dia. Perforated

Typo

T. Rowe Strainers

C. Strainer Design and Selection

Application Description and Dequirement

T. Rowe fabricated strainers are manufactured in several styles or types to meet various applications. Strainer type selection should be base upon your requirements. A general guideline as follows:

CtvIA

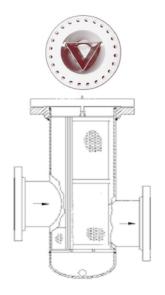
Application Description and Requirement	<u>Style</u>	<u>ıype</u>
 Pumps, Flow Meters, Compressors & Control Valve Protection, Low Pressure Drop, High Capacity, ease maintenance, several optional features. 	Vertical basket	FV or FT
2. Pump Suction & Gas Regulator Protection, relative clean product, very adaptable to various piping arrangements.	Tee Strainers	TSF or TSW TLF or TLW TVF or TVW
3. Pump suction, HVAC, Various types of Water service, Boiler Feedwater, and industrial piping system, relative clean product, blowdown required for basket cleaning.	Y-Strainers	FYW or FYF
4. Temporary Service for Start-up of piping Systems and permanent compressor Packages, permanent service in clean Natural gas applications.	Temporary Cone and Basket Strainers	CP, CWI, CWO BP, BWI, BWO
Low Flow and Small Pipe size, Temporary service only.	Flat Strainers	FP or F-PF

D. Manufacturing Specifications

All T. Rowe Strainers are fabricated to the ASME B31.3 Code unless specified otherwise by customer.

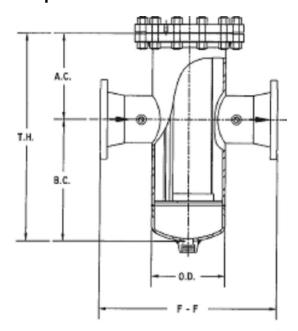
Vertical Basket Strainer

TYPE FT for Horizontal or Vertical Pipe Run





TYPE FT with Angle Basket for Horizontal or Vertical Pipe Run Available with offset nozzles



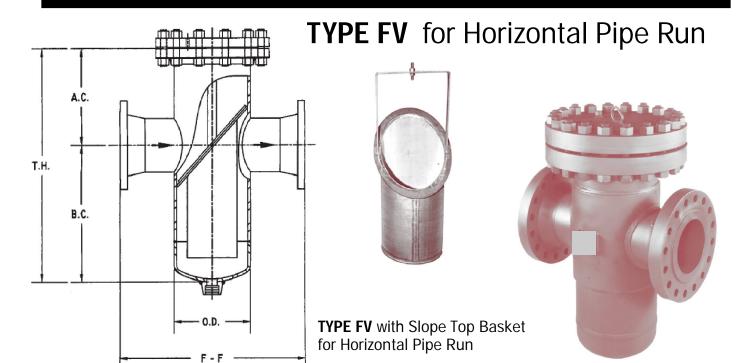
LINE		co	MMON	DIMEN	SIONS		BASKET SURFACE AREA (SQ.IN.)	BASKET OPEN AREA (SQ.IN.)	OPEN AREA RATIO*	LINE
SIZE	O.D.	EE	TH	BC**	AC**	DRAIN	FT	FT	FT	SIZE
2	41/2	17	16	9	7	1	66	26.4	787%	2
3	65/8	20	20	11	9	1	140	56.0	758%	3
4	85/8	23	24	14	10	11/2	245	98.0	770%	4
6	10¾	26	29	17	12	11/2	366	146	505%	6
8	12¾	30	35	21	14	11/2	550	220	440%	8
10	16	34	42	25	17	11/2	813	325	412%	10
12	18	37	46	28	18	2	1037	415	367%	12
14	18	37	53	33	20	2	1247	499	362%	14
16	24	44	60	36	24	2	2019	808	442%	16
18	24	45	65	39	26	2	2170	868	387%	18
20	26	48	71	45	26	2	2569	1028	369%	20
24	30	56	95	64	31	2	4055	1522	403%	24
30	36	62	108	71	37	2	5561	2224	342%	30

^{*}Based on Standard perforated 1/8" diameter holes on 3/16" centers. Open Area and Open Area Ratio also applicable to perforated patterns 1/4" diameter holes on 3/8" diameter holes on 9/16" centers. Other patterns and wire mesh liners available. All dimensions are in inches. **Larger line sizes available**

INFORMATION REQUIRED

- 1. Quantity
- 2. Flow Rate
- 3. Design pressure and temperature
- 4. Special Size Strainer (if other than standard, advise dimensions)
- 5. Line size and flange rating or beveled for welding
- 6. Wire cloth size—under Strainer Design
- 7. Housing and basket material (Carbon steel is standard) others are available
- 8. Special features

Vertical Basket Strainer



LINE		CC	MMON	DIMEN	SIONS		BASKET SURFACE AREA (SQ.IN.)	BASKET OPEN AREA (SQ.IN.)	OPEN AREA RATIO*	LINE
SIZE	O.D.	EE	TH	BC**	AC**	DRAIN	FV	FV	FV	SIZE
2	41/2	17	16	9	7	1	44	17.6	524%	2
3	65/8	20	20	11	9	1	99	39.6	536%	3
4	85/8	23	24	14	10	1 ½	207	82.8	650%	4
6	10¾	26	29	17	12	1 ½	330	132	457%	6
8	123/4	30	35	21	14	1 ½	509	204	408%	8
10	16	34	42	25	17	1 ½	792	317	402%	10
12	18	37	46	28	18	2	1034	414	366%	12
14	18	37	53	33	20	2	1232	493	358%	14
16	24	44	60	36	24	2	1885	754	413%	16
18	24	45	65	39	26	2	2073	829	355%	18
20	26	48	71	45	26	2	2512	1005	345%	20
24	30	56	95	64	31	2	4310	1724	406%	24
30	36	62	108	71	37	2	5938	2375	353%	30

^{*}Based on Standard perforated 1/8" diameter holes on 3/16" centers. Open Area and Open Area Ratio also applicable to perforated patterns 1/4" diameter holes on 3/8" diameter holes on 9/16" centers. Other patterns and wire mesh liners available. All dimensions are in inches.

Larger line sizes available

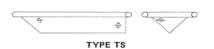
INFORMATION REQUIRED

- 1. Quantity
- 2. Flow Rate
- 3. Design pressure and temperature
- 4. Special Size Strainer (if other than standard, advise dimensions)
- 5. Line size and flange rating or beveled for welding
- 6. Wire cloth size—under Strainer Design
- 7. Housing and basket material (Carbon steel is standard) others are available
- 8. Special features

TEE STRAINERS

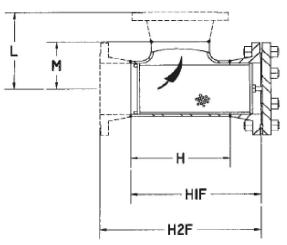




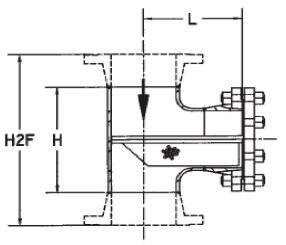




TYPE TVW (Weld Inlet & Outlet)
TYPE TVF (Flanges Inlet & Outlet)
TYPE TVFI (Flanged Inlet, Weld Outlet)
TYPE TVFO (Weld Inlet, Flanged Outlet)



TYPE TSW (Weld Inlet & Outlet)
TYPE TSF (Flanges Inlet & Outlet)
TYPE TSFI (Flanged Inlet, Weld Outlet)
TYPE TSFO (Weld Inlet, Flanged Outlet)



PIPE				150#			300#			600#			
SIZE	Н	М	L	H1F	H2F	L	HIF	H2F	L	H1F	H2F	SIZE	
2	5	2 1/2	5	7	10	5 1/4	7 3/4	10 1/2	5 5/8	8 1/8	11 1/4	2	
3	6 3/4	3 3/8	6 1/8	9 1/2	12 1/4	6 1/2	9 7/8	13	6 7/8	10 1/4	13 3/4	3	
4	8 1/4	41/8	7 1/8	11 1/4	14 1/4	7 1/2	11 5/8	15	8 3/8	12 1/2	16 3/4	4	
6	11 1/4	5 5/8	9 1/8	14 3/4	18 1/4	9 1/2	15 1/8	19	10 1/2	16 1/8	21	6	
8	14	7	11	18	22	11 3/8	18 3/8	22 3/4	12 1/2	19 1/2	25	8	
10	17	8 1/2	12 1/2	21	25	13 1/8	21 5/8	26 1/4	14 3/4	23 1/4	29 1/4	10	
12	20	10	14 1/2	24 1/2	29	15 1/8	25 1/8	30 1/4	16 3/8	26 3/8	32 3/4	12	
14	22	11	16	27	32	16 5/8	27 5/8	33 1/4	17 3/4	28 3/4	35 1/2	14	
16	24	12	17	29	34	17 3/4	29 3/4	35 1/2	19 1/4	31 1/4	38 1/2	16	
18	27	13 1/2	19	32 1/2	38	19 3/4	33 1/4	39 1/2	21	34 1/2	42	18	
20	30	15	20 11/16	35 11/16	41 3/8	21 3/8	36 3/8	42 3/4	22 3/4	37 3/4	45 1/2	20	
24	34	17	23	40	46	23 5/8	40 5/8	47 1/4	25 1/4	421/4	50 1/2	24	

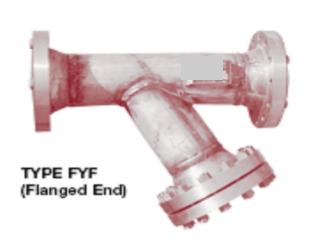
Dimensions in inches and are based on standard weld tee with raised face or ring joint weld neck flanges. Standard weight tee and W.N. bore for 150# and 300#. Extra strong tee and W.N. bore for 600#, 400#, 900#, 1500#, 2500# in RF/FF/RJ and other facings available. Blind flange can be taped for blowdown.

INFORMATION REQUIRED

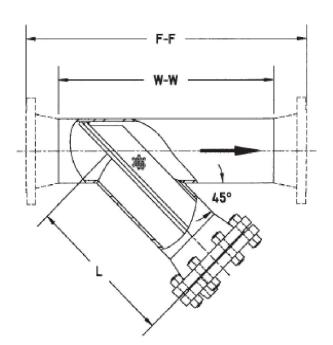
- 1. Quantity
- 2. Line Size
- 3. T. Rowe type
- 4. Flange rating & Face
- 5. Housing material*
- . Housing Pipe Schedule
- 7. Basket material*
- 8. Mesh liner if required
- Additional Features

^{*}Carbon Steel is standard. Other materials are available.

Y—STRAINERS







		TYPE FYW	TYPE FYF		BLOWDOWN
SIZE	O.D.	W-W	F-F	ш	(NPT)
4	4 1/2	18 1/2	26	12	3/4
6	6 5/8	20 1/4	30	16	3/4
8	8 5/8	26	37	20	1
10	10 3/4	33 1/2	46	23	1
12	12 3/4	38 1/4	51	26	1 1/2
14	14	42 1/2	56	29	1 1/2
16	16	47 1/2	62	32	1 1/2
18	18	53	68	36	1 1/2
20	20	57 1/2	73	39	2
24	24	63 1/2	80	43	2

Larger sizes on application

Dimensions are in inches.

T. Rowe Y-Strainers can be fabricated from any commercial available pipe including carbon steel, low and intermediate alloy steels and stainless steel. The F-F dimensions shown for the Type FYF Strainer is applicable for any flange rating or facing 150# ANSI thru 300# ANSI. Higher pressure on application. Special Dimensions available to match your piping requirements.

Standard Basket - Perforated 1/8" Diameter holes on 3/16" Centers Other Patterns, wire mesh and liners available,

INFORMATION REQUIRED

- 1. Quantity
- 2. Line Size
- 3. T. Rowe Type 4. Flange Rating and Face
- 5. Housing material *
- 6. Housing Pipe Schedule
- 7. Basket material *
- 8. Mesh liner if required
- 9. Additional Features

*Carbon Steel is standard. Other materials are available.

WEIGHTS BASED ON CATALOG STANDARD UNITS

FV AND FT STRAINERS

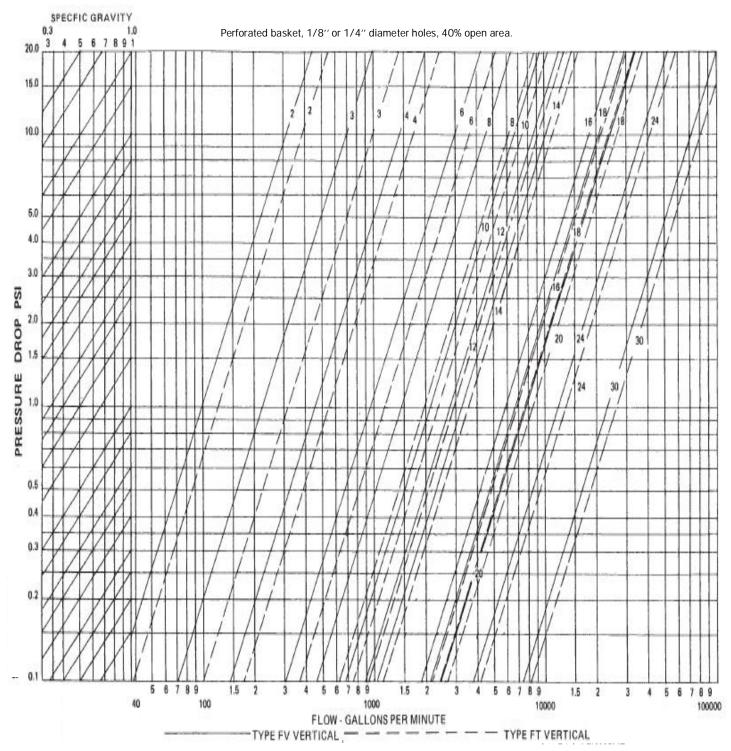
2" 150	# 3"	150#	4" 150#	6" 150 #	8" 150#	10" 150#	12" 150#
68#	1:	20#	190#	295#	460#	690#	910#
			100	200	10011	00011	0.00
2" 300	# 3"	300#	4" 300#	6" 300#	8" 300#	10" 300#	12" 300#
95#	18	30#	280#	450#	670#	1020#	1350#
2" 600	# 3"	600#	4" 600#	6" 600#	8" 600#	10" 600#	12" 600#
140#	2	90#	500#	820#	1120#	1720#	2350#

TEE STRAINERS

2" 150#	3" 150#	4" 150#	6" 150#	8" 150#	10" 150#	12" 150#	16" 150#
Σ 130π	3 130π	- 100π	υ 150#	Ο 130π	10 100#	12 100#	10 100π
W-18#	W-31#	W-51#	W-97#	W-159#	W-238#	W-365#	W-614#
F-30#	F-51#	F-81#	F-145#	F-237#	F-342#	F-525#	F-894#
2" 300#	3" 300#	4" 300#	6" 300#	8" 300#	10" 300#	12" 300#	16" 300#
W-26#	W-47#	W-74#	W-143#	W-224#	W-351#	W-529#	W-887#
F-44#	F-77#	F-124#	F-227#	F-358#	F-533#	F-809#	F-1387#
2" 600#	3" 600#	4" 600#	6" 600#	8" 600#	10" 600#	12" 600#	16" 600#
W-36#	W-67#	W-122#	W-247#	W-387#	W-639#	W-822#	W-1426#
F-60#	F-113#	F-206#	F-409#	F-627#	F-1019#	F-1272#	F-2206#

W= Weld Ends F= Flanged Ends

Estimated Pressure Drop for FV & FT Strainers

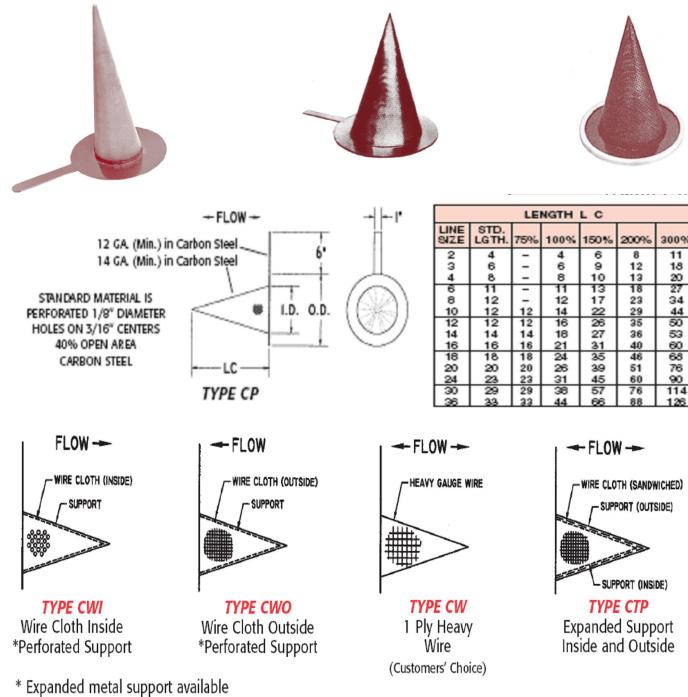


Example: A 6" line flowing 1,000 G.P.M. liquid with a specific gravity of 0.6. To find the pressure drop, enter the chart at 1,000 G.P.M. and intersect the line representing a 6" FV, and FT strainer. Read to the left for each type of fabricated strainer to intersection of S.G. = 1.0. Follow diagonal guide lines down to S.G. = 0.6. Read straight to the left for the corrected pressure drop. In the example the FV strainer would have a pressure drop of 0.65 P.S.I., the FT 0.45 P.S.I. The strainer selection would depend upon piping configuration and allowable pressure drop.

CORRECTION FACTORS. MULTIPLY PRESSURE DROP BY:

VISCOSITY	PERFORATED	WITH WIRE MESH LINER						
SSU	1/8" or 1/4" DIA.	40 mesh	60 mesh	80 mesh	100 mesh			
30 (Water)	Use Chart	1.3	1.5	1.6	1.7			
500	1.6	1.9	21	2.4	26			
1,000	1.7	2.2	2.4	2.6	2.8			
2,000	1.9	24	27	2.9	3.2			

CONE STRAINERS



Percent open areas shown are compared to the cross sectional flow area of Standard Weight Pipe. All dimensions are in inches. Standard length designed to fit weld neck flange plus long radius weld elbow. OD is designed to fit inside flange bolt hole circle. Full face is available, add FF to type of strainer. ID is designed to fit inside standard weight pipe for 150# and 300# rating, extra strong pipe for 600# rating. Advise pipe wall or schedule for higher pressure ratings.



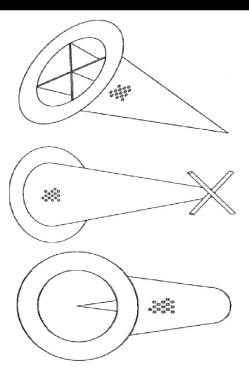
CONE STRAINERS

Additional Features

Cross bracing can be installed in both cone and basket strainers to help prevent collapse.

Vibration supports can be supplied on extra long strainers to help stabilize the strainer off of the pipe wall and prevent vibration.

Both cone and basket strainers can be inverted to obtain a high percent of open area in a tight piping situation.



				CONES &	BASKE	T STRAIN	IERS					
			DIMENSIO	ONS IN INC	HES				ASA RING JOINT GASKET NUMBER			
		ID				OD			(Soft iron	cadmium	plated is st	tandard)
SIZE	150/300 lb. RF/FF/RJ	400/600 lb. RF/RJ	900/1500 lb. RF/RJ	150/300 lb. RF/FF	400 lb. RF	600 lb. RF	900 lb. RF	1500 lb. RF	300/400 600 lb. RJ	900 lb. RJ	1500 lb. RJ	2500 lb. RJ
3/4	5/8	5/8		2 1/8	2 1/2	2 1/2	2 5/8	2 5/8	R13	R14	R14	R16
1	7/8	7/8	Advise Pipe	2 1/2	2 3/4	2 3/4	3	3	R16	R16	R16	R18
1 1/4	1 1/8	1 1/8	Schedule or	2 7/8	3 1/8	3 1/8	3 1/4	3 3/8	R18	R18	R18	R21
1 1/2	1 3/8	1 3/8	Flange Dia.	3 1/4	3 5/8	3 5/8	3 3/4	3 3/4	R20	R20	R20	R23
2	1 7/8	1 7/8	of Bore.	4	4 1/4	4 1/8	5 1/2	5 1/2	R23	R24	R24	R26
2 1/2	2 1/4	1 15/16	Strainer ID	4 5/8	5	5	6 1/4	6 3/8	R26	R27	R27	R28
3	2 7/8	2 33/64	will be 1/8"	5 1/4	5 3/4	5 3/4	6 1/2	6 3/4	R31	R31	R35	R32
4	3 3/4	3 5/8	(small sizes)	6 3/4	6 7/8	7 1/2	8	8 1/8	R37	R37	R39	R38
6	5 3/4	5 5/8	to 1/2"	8 5/8	9 5/8	10 1/8	11 1/4	11	R45	R45	R46	R47
8	7 1/2	7 3/8		10 3/4	11 3/4	12 3/8	14	13 3/4	R49	R49	R50	R51
10	9 1/2	9 1/4	(large sizes)	13 1/8	13 7/8	15 1/2	17	17	R53	R53	R54	R55
12	11 1/2	11 1/8	Less than	15 7/8	16 1/4	17 3/4	19 3/8	20 1/4	R57	R57	R58	R60
14	12 7/8		Flange Bore	17 1/2	18 3/4	19 1/8	20 1/4	-	R61	R62	R63	-
16	14 3/4	*		20	20 7/8	22	22 3/8	-	R65	R66	R67	-
18	16 3/4	^		21 3/8	23 1/8	23 7/8	24 7/8	-	R69	R70	R71	_
20	18 3/4			23 5/8	25 1/4	26 5/8	27 1/4	-	R73	R74	R75	-
24	22 3/4			28	30	30 7/8	32 3/4	1	R77	R78	R79	-

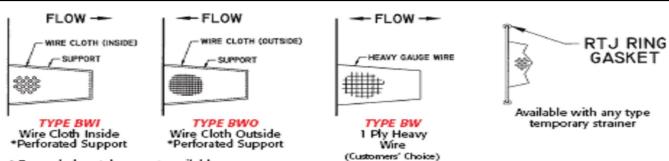
^{*} Advise pipe schedule or flange dia. of bore. Strainer ID will be 1/2" less than flange bore. Larger sizes available.



HOW TO ORDER

- 1. Quantity
- 2. Line Size
- 3. Mating Flange Rating
- 4. Hange face type
- 5. Type of Strainer Required
- 6. Length Required
- 7. Material of Construction
- 8. Wire Mesh & Material if required

BASKET STRAINERS



Expanded metal support available

		11			L	ENG1	TH L B	}
12 GA. (Min.) in Carb	→FLOW → on Steel →	→ ← *	LINE SIZE	С	STD. LGTH.	75%	100%	
14 GA. (Min.) in Carb			2 3 4	11/4 2 21/2	2½ 3 5	1 1 1	2½ 3 5	
Standard Material is	\$ I.D. O.D.		6 8 10	4 5½ 6	6 8 10	- 10	6 8 11	
PERFORATED 1/8" DIAMETER HOLES ON 3/16" CENTERS			12 14 16	7 10 10	11 11 12	11 11 12	12 13 14	
40% OPEN AREA Carbon Steel	TYPE BP		18 20 24	11 13 15	14 16 19	14 16 19	17 19 23	
			30 36	19 23	21 26	21 26	28 38	

Percent open areas shown are compared to the cross sectional flow area of Standard Weight Pipe. All dimensions are in inches. Standard length designed to fit weld neck flange plus long radius weld elbow. OD is designed to fit inside flange bolt hole circle. Full face is available, add FF to type of strainer. ID is designed to fit inside standard weight pipe for 150# and 300# rating, extra strong pipe for 600# rating. Advise pipe wall or schedule for higher pressure ratings.







150%

200% 300%

BASKET STRAINERS

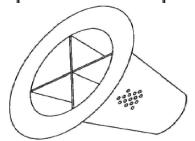
Additional Features

				CONES &	BASKE	T STRAIN	IERS					
			DIMENSIO	NS IN INC	IES				ASA RING JOINT GASKET NUMBER			
	ID OD								(Soft iron	cadmium	plated is st	tandard)
SIZE	150/300 lb. RF/FF/RJ	400/600 lb. RF/RJ	900/1500 lb. RF/RJ	150/300 lb. RF/FF	400 lb. RF	600 lb. RF	900 lb. RF	1500 lb. RF	300/400 600 lb. RJ	900 lb. RJ	1500 lb. RJ	2500 lb. RJ
3/4	5/8	5/8		2 1/8	2 1/2	2 1/2	2 5/8	2 5/8	R13	R14	R14	R16
1	7/8	7/8	Advise Pipe	2 1/2	2 3/4	2 3/4	3	3	R16	R16	R16	R18
1 1/4	1 1/8	1 1/8		2 7/8	3 1/8	3 1/8	3 1/4	3 3/8	R18	R18	R18	R21
1 1/2	1 3/8	1 3/8	Schedule or	3 1/4	3 5/8	3 5/8	3 3/4	3 3/4	R20	R20	R20	R23
2	1 7/8	1 7/8	Flange Dia.	4	4 1/4	4 1/8	5 1/2	5 1/2	R23	R24	R24	R26
2 1/2	2 1/4	1 15/16	of Bore.	4 5/8	5	5	6 1/4	6 3/8	R26	R27	R27	R28
3	2 7/8	2 33/64	Strainer ID	5 1/4	5 3/4	5 3/4	6 1/2	6 3/4	R31	R31	R35	R32
4	3 3/4	3 5/8	will be 1/8"	6 3/4	6 7/8	7 1/2	8	8 1/8	R37	R37	R39	R38
6	5 3/4	5 5/8	(small sizes)	8 5/8	9 5/8	10 1/8	11 1/4	11	R45	R45	R46	R47
8	7 1/2	7 3/8	to 1/2"	10 3/4	11 3/4	12 3/8	14	13 3/4	R49	R49	R50	R51
10	9 1/2	9 1/4	(large sizes)	13 1/8	13 7/8	15 1/2	17	17	R53	R53	R54	R55
12	11 1/2	11 1/8	Less than	15 7/8	16 1/4	17 3/4	19 3/8	20 1/4	R57	R57	R58	R60
14	12 7/8		Flange Bore	17 1/2	18 3/4	19 1/8	20 1/4	-	R61	R62	R63	-
16	14 3/4	*	rialige bore	20	20 7/8	22	22 3/8	-	R65	R66	R67	-
18	16 3/4	^		21 3/8	23 1/8	23 7/8	24 7/8	-	R69	R70	R71	-
20	18 3/4			23 5/8	25 1/4	26 5/8	27 1/4	-	R73	R74	R75	-
24	22 3/4			28	30	30 7/8	32 3/4	-	R77	R78	R79	-

^{*} Advise pipe schedule or flange dia. of bore. Strainer ID will be 1/2" less than flange bore. Larger sizes available.

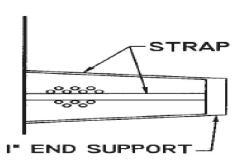
Cross bracing can be installed in both cone and basket strainers to help prevent collapse.

Both cone and basket strainers can be inverted to obtain a high percent of open area in a tight piping situation.



TYPE BSW or BSP

Stiffeners on side and top of basket Can be supplied on BP, BW or BWI Strainers.

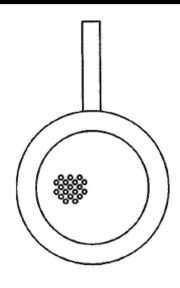


HOW TO ORDER

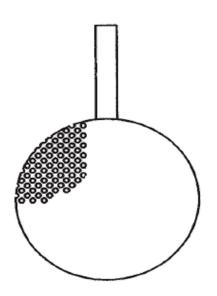
1. Quantity

- 2. Line Size
- 3. Mating Flange Rating
- 4. Flange face type
- 5. Type of Strainer Required
- 6. Length Required
- 7. Material of Construction
- 8. Wire Mesh & Material if required

FLAT STRAINERS



TYPE FP PERFORATED WITH SOLID RING (3" and larger only)



TYPE F-PF ALL PERFORATED



	TYPE	FP AND F	W FLAT STR	AINERS	
			O.D.		
SIZE	I.D.	125 lb. FF 150 lb. RF	250 lb. FF 300 lb. RF	400 lb. RF	600 lb. RF
3/4	1	2 1/8	2 1/2	2 1/2	2 1/2
1	1 1/8	2 1/2	2 3/4	2 3/4	2 3/4
1 1/4	1 3/8	2 7/8	3 1/8	3 1/8	3 1/8
1 1/2	1 5/8	3 1/4	3 5/8	3 5/8	3 5/8
2	2 1/4	4	4 1/4	4 1/4	4 1/4
3	3 1/4	5 1/4	5 3/4	5 3/4	5 3/4
4	4 1/4	6 3/4	7	6 7/8	7 1/2
5	5 1/8	7 1/2	8 3/8	8 1/4	9 3/8
6	6 3/8	8 5/8	9 3/4	9 5/8	10 3/8
8	8 3/8	10 7/8	12	11 7/8	12 1/2
10	10 1/2	13 1/4	14 1/8	14	15 5/8
12	12 1/2	16	16 1/2	16 3/8	17 7/8
14	14	17 1/2	19	18 7/8	19 1/4
16	16	20	21 1/8	21	22 1/8
18	18	21 3/8	23 3/8	23 1/4	24
20	20	23 5/8	25 5/8	25 3/8	26 3/4
24	24	28	30 3/8	30 1/8	31

STANDARD MATERIAL IS
PERFORATED 1/8" DIAMETER
HOLES ON 3/16" CENTERS
40% OPEN AREA
CARBON STEEL

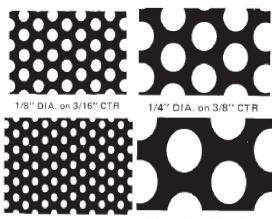
Materials Data

Perforated and Wire Cloth

PERFORATED PATTERNS NORMALLY STOCKED

PA	TTERN	% OPEN	# HOLES	MATERIAL/GAUGE			
DIA	CENTERS	AREA	PSI	c.s.	30488	31688	
1/16	1/8	23	74	16	22	·	
1/8	3/16	40	33	14,11	14	14*	
3/16	1/4	51	18	14	16		
1/4	3/8	40	8	11	14,11	14,11	
3/8	9/16	40	3,7	11	11		
1/2	11/16	48	2,4	11	11	-	

^{*} Also in Monel



1/16" DIA. on 1/8" CTR

3/8" DIA. on 9/16" CTR

EXPANDED METAL NORMALLY STOCKED

For Straining or Fine Mesh Wire Cloth Support

SIZE	GAUGE	% OPEN AREA	MATERIAL	
1/2	16 Flattened	62	C.S; 304SS	
3/4	13 Flattened	72	C.S; 304SS	



WIRE CLOTH NORMALLY STOCKED

Coarse mesh for straining or support

MESH*	WIRE DIA.	OPENING	% OPEN AREA		
3 x 3	3 x 3 .080		57.6		
4 x 4	.063	.1870	56.0		
8 x 8	.035	.0900	51.8		
8 x 8	.047	.0780	38.9		
10 x 10	.035	.0650	42.3		

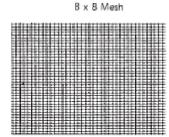


MESH*	WIRE DIA.	OPENING	% OPEN AREA	
20 x 20	.016	.0340	46.2	
30 x 30	.013	.0203	37.1	
40 x 40	.010	.0150	36.0	
60 x 60	.0075	.0092	30.5	
80 x 80	.0055	.0070	31.4	
100 x 100	.0045	.0055	30.3	

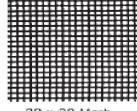




60 x 60 Mesh



40 x 40 Mesh



20 x 20 Mesh

*Number of wires per linear inch. All meshes shown are available, 304 S.S. and 316 S.S.

Many other meshes and material are available. All dimensions in inches.

Paddle Blinds — Isolation & Hydrotest Thickness

T. Rowe provides only excellence in fabrication.

Demanding only quality, whether renting or purchasing all blinds will be delivered with Costumer Satisfaction.

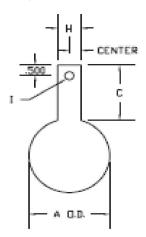
Available in Raised Face, Mill or Serrated—Ring Tongue Joint, Oval or Octagonal, Male or Female configurations.

- Flange sizes 1/2" 96"
- Flange ratings 150 2500#
- 125–250 RMS Serrated Finishes or Mill Finish Available
- Ring Tongue Joint Male or Female Oval Octagonal
- Stamped with Size & Rating
- Ground to provide smooth edges
- Q/A & Q/C: Manufactured under our strict Quality Assurance Program

Our inventory consists of 516—Gr70 Spec Carbon Steel material made to ASME/ANSI B16.4 standards.

Line sizes up to 96" Available.

Standard isolation thickness is 5/16" (+/-1/16), Any thickness available upon request.

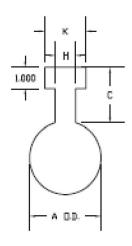


When Ordering Specify:

- Flange Rating
- Line Size
- Mill or Serrated Face
- Thickness (Isolation, Hydro, or Custom)
- Handle Type (If necessary)
- Material
- Quantity
- · Delivery Date

Additionally:

- Gasket Types
 & Quantities
- Bolt & Nut Quantities



Other ratings and alloys also available

The blank thicknesses as shown in the tables are per ASME/ANSI B16-1 or B16-5 pressure temperature rating for the flanges. The thicknesses were calculated using the equation for blanks in ANSI B31-3 as follows: +m=dg 3P 16SE + C where: C=0.02, DG=1.D. of ring gaskets (inches), T=Blank Thickness (inches), SE-24,400 psi, SF= Safety Factor

PADDLE BLINDS — HYDROTEST THICKNESS CHART

	Flange Rating											
LINE SIZE	150	#	300#		600#		900#		1500#		250	Ю#
INCHES	SF 2	2.5	\$F	2.5	SF 3.0		SF 3.0		SF 3.0		SF 3.0	
	O.D.	TKNS	O.D.	TKNS	O.D.	TKNS	O.D.	TKNS	O.D.	TKNS	O.D.	TKNS
1/2"	1 3/4"		2		2		2 3/8		2 3/8	5/16	2 5/8	3/8
3/4"	2 1/8"		2 1/2		2 1/2	5/16	2 5/8	5/16	2 5/8	3/8	2 7/8	3/8
1"	2 1/2"		2 3/4	5/16	2 3/4		3		3	3/8	3 1/4	3/8
1 1/4"	2 7/8"	5/16	3 1/8		3 1/8	3/8	3 3/8	3/8	3 3/8	3/8	4	1/2
1 1/2"	3 1/4"	3/10	3 5/8		3 5/8		3 3/4		3 3/4	1/2	4 1/2	1/2
2	4 "		4 1/4		4 1/4		5 1/2	1/2	5 1/2	1/2	5 5/8	5/8
2 1/2"	4 3/4"		5	3/8	5	1/2 6 3/8	6 3/8	174	6 3/8	5/8	6 1/2	3/4
3	5 1/4"		5 3/4	J/O	5 3/4	172	6 1/2	5/8	6 3/4	3/4	7 5/8	7/8
3 1/2"	6 1/4"		6 3/8		6 1/4							
4	6 3/4"	3/8	7	1/2	7 1/2	5/8	8	3/4	8 1/8	7/8	9 1/8	1 1/8
5	7 5/8"	3/0	8 3/8		9 3/8	1	9 5/8		9 7/8	1 1/8	10 7/8	1 3/8
6	8 5/8"		9 3/4	5/8	10 3/8	3/4	11	7/8	11	1 3/8	12 3/8	1 5/8
8	10 7/8"	1/2	12		12 1/2	7/8	14	1	13 3/4	1 5/8	15 1/8	2 1/8
10	13 1/4"	1/2	14 1/8	7/8	15 5/8	1 1/8	17	1 3/8	17	2	18 5/8	2 5/8
12	16	5/8	16 1/2	1	17 5/8	1 3/8	19 1/2	1 5/8	20 3/8	2 3/8	21 1/2	3 1/8
14	17 5/8"	3/4	19	1 1/8	19 1/4	1 5/8	20 3/8	1 7/8	22 5/8	2 5/8		
16	20 1/8"	7,7	21 1/8	1 1 /4	22 1/8	1 3/4	22 1/2	2 1/8	25 1/8	3		
18	21 1/2"	7/8	23 3/8	1 1/2	24	2	25	2 3/8	27 5/8	3 3/8		
20	23 3/4"	1	25 5/8	1 5/8	26 3/4	2 1/8	27 3/8	2 5/8	29 5/8	3 3/4		
22	25 7/8"	1 1/8	27 5/8	1 3/4	28 3/4	2 1/2						
24	28 1/8"	1 1/4	30 3/8	1 7/8	31	2 3/4	32 7/8	2 7/8	35 3/8	4 3/8		
26	30 3/8"	1 3/8	32 3/4	2	34	2 7/8	34 5/8	3 1/2				
28	32 5/8"	1 1/2	35 1/4	0.0	35 7/8	3 1/8	37 1/8	3 3/4				
30	34 5/8"	1 5/8	37 3/8	2 1/8	38 1/8	3 3/8	39 5/8	4 1/8				
32	36 7/8"	1 3/4	39 1/2"	2 3/8	40 1/8"	3 5/8	42 1/8"	4 3/8				
34	38 7/8"	1 7/8	41 1/2	2 5/8	42 1/8	4 1/8	44 5/8	5				
36	41 1/8"	2	43 7/8	2 3/4	44 3/8	4 1/4	47 1/8	5 1/4				
38	43 5/8"	2 1/8	41 3/8	3	43 3/8	4 1/2	47 1/8	5 1/2				
40	45 5/8"	2 1/4	43 3/4	3	45 3/8	4 3/4	49 1/8	5 7/8				
42	47 7/8"	2 3/8	45 3/4	3 1/4	47 7/8	5	51 1/8	6 1/8				
44	50 1/8"	2 1/2	47 7/8	3 3/8	49 7/8	5 1/4	53 3/4	6 3/8				
46	52 1/8"		50	3 5/8	51 7/8	5 1/2	56 3/8	6 3/4				
48	54 3/8"	2 5/8	52	3 3/4	54 5/8	5 3/4	58 3/8	7				

T. ROWE CONTACT LIST

Travis Rowe

President 580-362-3911 (Work)

126 S. Elm 580-716-7282 (Cell)

Newkirk, OK 74647 travis@trowepipe.com

David Stieber

Fabrication Manager 580-362-3911 (Work)

126 S. Elm

Newkirk, OK 74647 david@trowepipe.com

Carol Baur

Controller 580-362-3911 (Work)

126 S. Elm

Newkirk, OK 74647 carol@trowepipe.com

Joe C. Rowe

Sr. Project Manager 580-362-3911 (Work)

126 S. Elm 580-362-0693 (Cell)

Newkirk, OK 74647 joe@trowepipe.com

Michael Rowe

Project Coordinator 580-362-3911 (Work)

126 S. Elm 580-382-1418 (Cell)

Newkirk, OK 74647 michael@trowepipe.com

Junior Godfrey

Safety Resource 580-362-3911 (Work)

126 S. Elm 580-362-0742 (Cell)

Newkirk, OK 74647 junior@trowepipe.com

T. Rowe Strainer Inquiry Form

Please complete the following information below and Fax to T. Rowe Pipe @ 580-362-3915. We will be happy to recommend a Strainer for your application. You can also visit with one of our representatives (Page 17).

Name:						
Company:						
Address:						
City:			State:		Zip Code:	
e-mail:						
Telephone:				Fax: _		
Strainer Typ	e:					
Strainer Hou	ısing Materia	l: _				
Line Size:	_					
Flange Ratin	ng:					
Product Serv	vice:					
Manufacturii	ng Design Co	ode:				
Paint Requir	rements:					
Other inform	nation / Optio	nal Access	sories:			

T. ROWE STRAINERS

Permanent & Temporary Strainers
Isolation & Hydrotest Paddle Blinds



Piping Fabrication

Alloy Weld Overlays

Commercial Blasting & Coating



126 S. Elm Newkirk, OK 74647

Phone: 580-362-3911

Fax: 580-362-3915