

Y-Type Pipeline Strainers

Y-type strainers in a wide variety of sizes and materials to fit most pipeline straining requirements.



Armstrong

Armstrong Y-Type Strainers

Design Advantages

No Leak - No Crush Screen Chambers are assured by precise machining of both ends of the chamber to provide perfectly round and smooth seating surfaces as well as fixed chamber length. The screen seats snugly on the machined surface so no particle larger than the screen opening can escape around the end of the screen.

Easy-In, Easy-Out Screwed Screen Retainers have straight threads. Less torque is required to obtain a tight seal with proper gasket compression. Less torque is required to remove the retainer. The danger of “freezing in” is considerably less than with hard-to-break tapered pipe threads.

Off Center Blowdown Connections for 2½" and 3" size strainers. The off center drain permits nearly complete removal of liquid and dirt when blowing down the strainer. And less liquid spills when removing the screen retainer.

How To Order

Model Number

■ A ■ FL 125

Connection Size (inches)

Body Material

- CA ■ Cast Iron ASTM A48 Cl. 30
(Screwed ½", ¾", 1, 1½", 2")
- A ■ Cast Iron ASTM A48 Cl. 30
(Screwed 1¼", 2½", 3")
- B ■ Cast Carbon Steel ASTM A216 Gr. WCB
- C ■ Cast Chrome Moly Steel ASTM A217 Gr. WC6
- D ■ Forged Steel ASTM A182 Gr. F22
- E ■ Cast 316 Stainless Steel ASTM A351 Gr. CF8M
- F ■ Cast Bronze ASTM B62

Screen Material

- Please refer to Table 3-1 for applicable screen code.

Flange Class

- 125 ■
- 250 ■
- 150 ■
- 300 ■
- 600 ■
- 1500 ■

Connection Configuration

- SC ■ Screwed
- FL ■ Flanged
- SW ■ Socketweld

Screen Data

Screen Materials

Table 3-1. Screen Material Availability and Particle Retention Size

Screen Specification		Particle Retention, Inches	Materials			
			304 SS	Monel	Brass	316 SS
Perforated	1/64"	0.016	Code 10	Code 18	—	—
	1/32"	0.031	Code 11	Code 19	—	Code 31
	.045 (3/64")	0.045	Code 1	Code 3	Code 4	Code 7
	1/16"	0.062	Code 12	Code 20	—	Code 32
	1/8"	0.125	Code 8	Code 21	Code 28	Code 33
	3/16"	0.188	Code 13	Code 22	—	Code 34
	1/4"	0.25	Code 14	Code 23	—	Code 35
Mesh	20 x 20	0.034	Code 15	Code 5	—	—
	24 x 110	0.0056	—	Code 24	—	Code 2
	30 x 30	0.020	Code 41 (1)	—	—	—
	40 x 40	0.015	Code 16	Code 6	—	Code 37
	100 x 100	0.0055	Code 9	Code 25	—	Code 38
	150 x 150	0.0041	Code 40	—	—	—
	200 x 200	0.0029	Code 17	—	—	Code 39

Shading indicates only available screen choices for CA Series Strainers.

(1) 30 x 30 Mesh screen only available for CA Series Strainers.

Ratio of Open Area of Screen to Inside Area of Pipe.

Table 3-2. Ratio of Open Area of Screen to Inside Area of Pipe. Shading indicates that Back-up Screens are Required.

Strainer Size	Total Screen Area, Sq. In.	Inside Area of Pipe, Sq. In.	Ratio - Perforated Screens							Ratio - Wire Mesh Screens					
			1/64"	1/32"	.045"	1/16"	1/8"	3/16"	1/4"	24x110	20x20	30x30	40x40	100x100	200x200
1/2"	7.2	0.30	5.2	5	6.4(5)	5.2	6.9(5.4)	8.8	10	4.8(3.8)	6.6	7.2	5.2(4.1)	2.2(1.8)	2.5
3/4"	7.2	0.53	4	3.9	5	4	5.4	6.9	7.8	3.8	5.3	7.2	4.1	1.8	2
1"	11	0.86	3.8	3.7	4.7	3.8	5.1	6.5	7.4	3.7	5.2	11	4	1.7	1.9
1 1/4"	15.9	1.49	3.2	3	3.9	3.2	4.2	5.4	6.1	3.2	4.4	—	3.4	1.5	1.6
1 1/2"	23.6	2.03	3.4	3.3	4.3	3.4	4.6	5.9	6.7	3.5	4.8	23.6	2.8	1.6	1.8
2"	34.4	3.35	3	2.9	3.8	3	4.1	5.2	5.9	3.2	4.4	34.4	2.6	1.5	1.6
2 1/2"	54.4	4.78	3.4	3.3	4.2	3.4	4.5	5.8	6.6	3.3	3.5†	—	2.7	1.7	1.9
3" 125#	74	7.39	1.7	2.9	3.7	3	4	5.1	5.8	2.9	3.1†	—	2.3	1.5	1.7
3" 250#	87	7.39	2	3.4	4.3	3.5	4.7	6	6.8	3.5	3.8†	—	2.8	1.8	2
4" 125#	123	12.7	1.7	2.8	3.5	2.9	3.8	4.9	5.6	2.8	3†	—	2.3	1.5	1.6
4" 250#	145	12.7	2	3.3	4.2	3.4	4.5	5.8	6.6	3.4	3.7†	—	2.1	1.8	2
5" 125#	194	20	1.7	2.8	3.5	2.9	3.8	4.9	5.6	1.7	3.1†	—	1.8	1.5	1.7
5" 250#	245	20	2.1	3.5	4.5	3.6	4.9	6.2	7.1	2.2	4†	—	2.3	2	2.2
6" 125#	272	28.9	1.6	2.7	3.4	2.8	3.1	4.8	5.4	1.6	3	—	1.8	1.5	1.6
6" 250#	317	28.9	1.9	3.1	4	3.2	4.3	5.5	6.3	1.9	2.7	—	2.1	1.7	1.9
8" 125#	464	50	1.6	2.6	3.4	2.7	3.7	4.7	5.3	1.6	2.3	—	1.8	1.5	1.7
8" 250#	550	50	1.9	3.1	4	3.3	4.4	5.6	6.3	2	2.8	—	2.1	1.8	2
10" 125#	733	78.8	1.6	2.7	3.4	2.7	3.7	4.7	5.4	1.7	2.3	—	1.8	1.5	1.7
Percentage Open Area			30%*	29%	37%	30%	40%	51%	58%	33%*	46%*	37%	36%*	—	—

Notes: Cast steel, stainless steel and bronze strainers have the same ratios as 250 lb cast iron. *For unbacked screens. † Back-up required, Monel only. This table does not apply to the Forged Steel F22 Strainers on page 10. Numbers in parentheses apply to CA cast iron series only.

Cast Iron 250 lb Screwed 1/2" - 3"

Materials

Table 4-1. 250 lb Screwed 1/2" - 3"

Connection Size	Body	Standard Screen	Screen Retainer	Gasket	Bolting
1/2", 3/4"	ASTM A48 Class 30 Cast Iron	30x30 SS Mesh or 304 SS .045" perforated †	ASTM A48 Class 30 Cast Iron	Spiral Wound	N/A
1", 1 1/2", 2"				Soft Steel	
1 1/4"		Non-asbestos		Cap Screws ASTM A193 Gr. B7	
2 1/2", 3"					

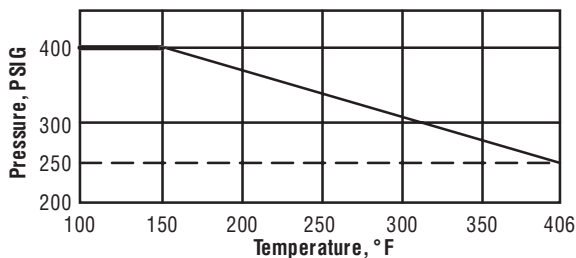
† Note: Other Screen Materials Available. See Page 3.

Physical Data

Table 4-2. 250 lb Screwed 1/2" - 3"

Size	Ordering Code, Standard Screen	Wt. (lb)	Dimensions, inches			Max. Pressure		Screen Retainer Type	Conn.
			"A"	"B"	"C"	Saturated Steam psig	150 °F non-shock psig		
1/2"	CA1SC CA41SC	3	4 1/4	3	3/8	250	400	Threaded	ANSI B1.20.1 Screwed
3/4"		3	4 1/4	3	3/8	250	400		
1"		4 1/2	5	3 3/4	1/2	250	400		
1 1/4"	A1SC	7	5 1/2	4	1/2	250	400		
1 1/2"	CA1SC CA41SC	10	6 5/16	4 7/16	1/2	250	400		
2"		15	7 1/2	5 7/16	1/2	250	400		
2 1/2"	A1SC	24 1/2	8 1/2	6 7/16	3/4	250	400	Bolted	
3"	A1SC	45 1/2	10 1/2	8	1 1/4	250	400		

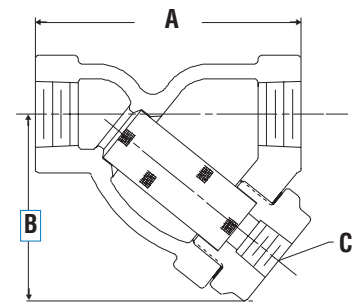
Pressure / Temperature Rating



CA1SC / CA41SC

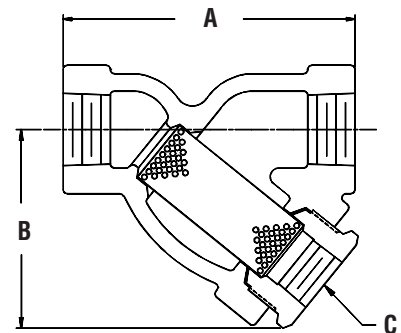
1/2" - 1"

1 1/2" - 2"



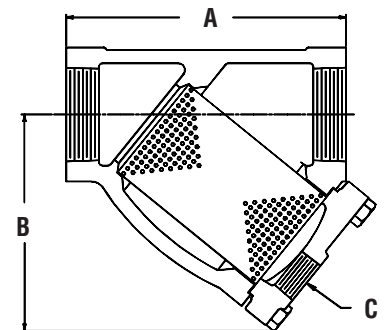
A1SC

1 1/4"



A1SC

2 1/2", 3"



All dimensions and weights are approximate. Use certified print for exact dimensions

Cast Iron Class 125 Flanged 2" - 10" and Class 250 Flanged 2" - 8"

Materials

Table 5-1. Class 125 Flanged 2" - 10" and Class 250 Flanged 2" - 8"

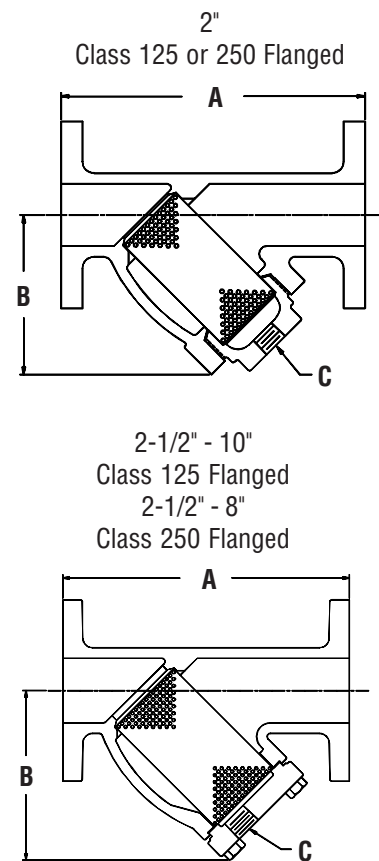
Connection Size	Body	Screen Retainer	Gasket	Bolting	Standard Screen
2"	ASTM A48 Class 30 Cast Iron	ASTM A48 Class 30 Cast Iron	Soft Steel	N/A	304 SS .045" perforated †
2½, 3", 4", 6", 8"			Non-asbestos	Cap Screws ASTM A193 Gr. B7	
10" Class 125 Only					

† Note: Other Screen Materials Available. See Page 3.

Physical Data

Table 5-2. Class 125 Flanged 2" - 10" and Class 250 Flanged 2" - 8"

Size	Ordering Code, Standard Screen	Wt. (lb)	Dimensions, inches			Max. Pressure		Screen Retainer Type	Conn.
			"A"	"B"	"C"	Saturated Steam psig	150 °F non-shock psig		
2"	A1FL 125	22	9¾	5⅞	½	125	175	Threaded	Class 125 ANSI B16.1 Flat Faced
2½"	A1FL 125	36	11⅛	6⅞	¾	125	175	Bolted	
3"	A1FL 125	49	12¼	7¼	1¼	125	175		
4"	A1FL 125	83	14⅞	9½	1¼	125	175		
6"	A1FL 125	187	20⅞	13⅞	1½	125	175		
8"	A1FL 125	320	23¾	17¾	2	125	175		
10"	A8FL 125	566	29⅞	21½	2	125	175		
2"	A1FL 250	25	10¼	5⅞	½	250	400	Threaded	Class 250 ANSI B16.1 ¼" R.F.
2½"	A1FL 250	42	11⅛	6⅞	¾	250	400	Bolted	
3"	A1FL 250	70	14⅞	8½	1¼	250	400		
4"	A1FL 250	125	17⅞	10¾	1¼	250	400		
6"	A1FL 250	294	23½	15¾	1½	250	400		
8"	A1FL 250	508	27½	20¼	2	250	400		



All dimensions and weights are approximate. Use certified print for exact dimensions

Cast Carbon Steel (WCB) 600 lb and 900 lb Screwed or Socketweld 1/2" - 3"

Materials

Table 6-1. 600 lb and 900 lb Screwed or Socketweld 1/2" - 3"

Connection Size	Body	Screen Retainer	Gasket	Bolting	Standard Screen
1/2", 3/4"	ASTM A216 Gr. WCB	ASTM A108 Gr. 1045	Soft Steel	N/A	304 SS .045" Perforated †
1"		ASTM A108 Gr. 1040			
1 1/4", 1 1/2", 2"		ASTM A216 Gr. WCB	304 SS Spiral wound Non-asbestos	Studs ASTM A193 Gr. B7 Nuts ASTM A194 Gr. 2H	
3"			Non-asbestos	Cap Screws ASTM A193 Gr. B7	

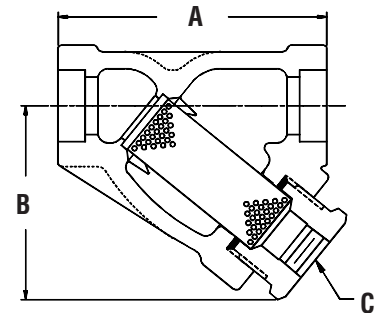
† Note: Other Screen Materials Available. See Page 3.

Physical Data

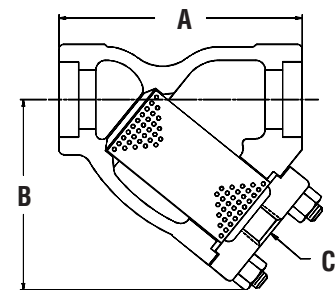
Table 6-2. 600 lb and 900 lb Screwed or Socketweld 1/2" - 3"

Size	Ordering Code, Standard Screen		Wt. (lb)	Dimensions, Inches			Max. Pressure		Screen Retainer Type	Conn.
	Screwed	Socketweld		"A"	"B"	"C"	Saturated Steam psig	100 °F non-shock psig		
1/2"	B1SC	B1SW	2 1/2	3 3/4	2 1 1/16	3/8	1635	2220	Threaded	ANSI B1.20.1 Screwed
3/4"	B1SC	B1SW	3 1/2	4 3/16	2 15/16	1/2	1635	2220		
1"	B1SC	B1SW	6	5	3 1/2	1/2	1635	2220		
1 1/4"	B1SC	B1SW	9	5 1/2	4 3/16	1/2	1135	1480	Bolted	ANSI B16.11 Socketweld
1 1/2"	B1SC	B1SW	11	6 5/16	4 13/16	1/2	1135	1480		
2"	B1SC	B1SW	19	7 3/4	5 5/8	1/2	1135	1480		
3"	B1SC	B1SW	46	11 3/8	8 3/16	1 1/4	1135	1480		

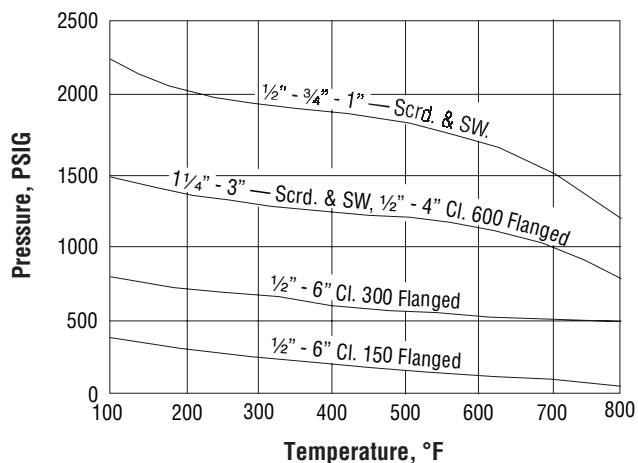
900 lb - B1SC/B1SW
1/2", 3/4", 1"



600 lb - B1SC/B1SW
1 1/4", 1 1/2", 2", 3"



Pressure / Temperature Rating



All dimensions and weights are approximate. Use certified print for exact dimensions

Cast Carbon Steel (WCB) Class 150, 300 Flanged 1/2" - 6" and Class 600 Flanged 1/2" - 4"

Materials

Table 7-1. Class 150, 300 Flanged 1/2" - 6" and Class 600 Flanged 1/2" - 4"

Connection Size	Body	Screen Retainer	Gasket	Bolting	Standard Screen
1/2", 3/4"	ASTM A216 Gr. WCB	ASTM A108 Gr. 1045	Soft Steel	N/A	304 SS .045" Perforated †
1"		ASTM A216 Gr. WCB	304 SS Spiral Wound Non-asbestos	Studs ASTM A193 Gr. B7 Nuts ASTM A194 Gr. 2H	
1 1/4", 1 1/2", 2"				Cap Screws ASTM A193 Gr. B7	
3", 4", 6"					

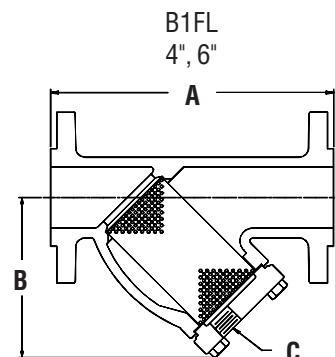
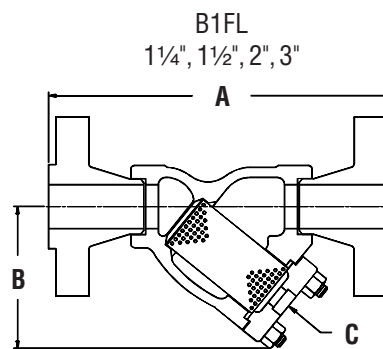
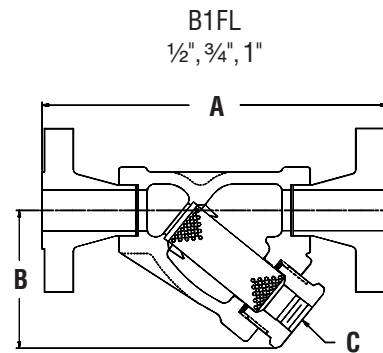
† Note: Other Screen Materials Available. See Page 3.

Physical Data

Table 7-2. Class 150, 300 Flanged 1/2" - 6" and Class 600 Flanged 1/2" - 4"

Size	Ordering Code, Standard Screen	Wt. (lb)	Dimensions, Inches			Max. Pressure		Screen Retainer Type	Flanges
			"A"	"B"	"C"	Saturated Steam psig	100 °F non-shock psig		
1/2"	B1FL 150	5	6 7/8	2 1 1/16	3/8	205	285	Threaded Bolted	Class 150 ANSI B16.5 1/16" R.F.
3/4"	B1FL 150	10	7 3/8	2 15/16	1/2	205	285		
1"	B1FL 150	10 1/2	8 1/2	3 1/2	1/2	205	285		
1 1/4"	B1FL 150	15	9	4 3/16	1/2	205	285		
1 1/2"	B1FL 150	20	10 1/4	4 13/16	1/2	205	285		
2"	B1FL 150	29	11 1/2	5 5/8	1/2	205	285		
3"	B1FL 150	82	15 5/8	8 3/16	1 1/4	205	285		
4"	B1FL 150	112	16 5/8	10 3/4	1 1/4	205	285		
6"	B1FL 150	275	22 5/8	15 1/4	1 1/2	205	285		
1/2"	B1FL 300	6 1/2	7 1/4	2 1 1/16	3/8	605	740	Threaded Bolted	Class 300 ANSI B16.5 1/16" R.F.
3/4"	B1FL 300	12	7 3/4	2 15/16	1/2	605	740		
1"	B1FL 300	13 1/2	8 7/8	3 1/2	1/2	605	740		
1 1/4"	B1FL 300	17 1/2	9 5/8	4 3/16	1/2	605	740		
1 1/2"	B1FL 300	26	10 3/4	4 13/16	1/2	605	740		
2"	B1FL 300	33	12 1/8	5 5/8	1/2	605	740		
3"	B1FL 300	92	16 3/8	8 3/16	1 1/4	605	740		
4"	B1FL 300	130	17 1/4	10 3/4	1 1/4	605	740		
6"	B1FL 300	301	23 1/2	15 1/4	1 1/2	605	740		
1/2"	B1FL 600	11	7 1 1/16	2 1 1/16	3/8	1135	1480	Threaded Bolted	Class 600 ANSI B16.5 1/4" R.F.
3/4"	B1FL 600	12	8 1/4	2 15/16	1/2	1135	1480		
1"	B1FL 600	13 1/2	9 3/8	3 1/2	1/2	1135	1480		
1 1/4"	B1FL 600	18 1/2	10 1/4	4 3/16	1/2	1135	1480		
1 1/2"	B1FL 600	28	11 5/16	4 13/16	1/2	1135	1480		
2"	B1FL 600	36	12 3/4	5 5/8	1/2	1135	1480		
3"	B1FL 600	95	17 1/8	8 3/16	1 1/4	1135	1480		
4"	B1FL 600	152	18 1/4	10 3/4	1 1/4	1135	1480		

Note: For pressure/Temperature Ratings See Page 6.



All dimensions and weights are approximate. Use certified print for exact dimensions

Cast Chrome Moly Steel (WC6) 1500 lb Screwed, Socketweld and Cl. 1500 Flanged 1/2" - 2"

Materials

Table 8-1. 1500 lb Screwed, Socketweld and Cl. 1500 lb Flanged 1/2" - 2"

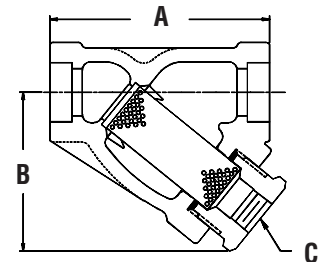
Connection Size	Body	Screen Retainer	Gasket	Bolting	Standard Screen
1/2", 3/4", 1"	ASTM A217 Gr. WC6	ASTM A276	Soft Steel	N/A	304 SS .045" perforated †
1 1/4", 1 1/2", 2"		ASTM A217 Gr. WC6	316L SS Spiral Wound Non-asbestos	Studs ASTM A193 Gr. B16 Nuts ASTM A194 Gr. 2H	

Physical Data

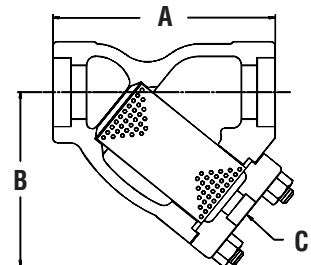
Table 8-2. 1500 lb Screwed, Socketweld and Cl. 1500 lb Flanged 1/2" - 2"

Size	Ordering Code, Standard Screen		Wt. (lb)	Dimensions, Inches			Max. Pressure		Screen Retainer Type	Connections
	Screwed	Socketweld		"A"	"B"	"C"	Saturated Steam psig	100 °F non-shock psig		
1/2"	C1SC	C1SW	2 1/2	3 3/4	2 11/16	3/8	2090	3000	Threaded	ANSI B1.20.1 Screwed
3/4"	C1SC	C1SW	3 1/2	4 3/16	2 15/16	1/2	2090	3000	Threaded	
1"	C1SC	C1SW	5 1/2	5	3 1/2	1/2	2090	3000	Threaded	
1 1/4"	C1SC	C1SW*	17	6 3/4	6	3/4	2515	3600	Bolted	ANSI B16.11 Socketweld
1 1/2"	C1SC	C1SW*	17	6 3/4	6	3/4	2515	3600	Bolted	
2"	C1SC	C1SW*	25	8 1/4	7 7/16	1	2515	3600	Bolted	
1/2"	C1FL 1500		12	8 1/4	2 11/16	3/8	2090	3000	Threaded	Class 1500 ANSI B16.5 1/4" R.F.
3/4"	C1FL 1500		15 1/2	9 3/8	2 15/16	1/2	2090	3000	Threaded	
1"	C1FL 1500		22 1/2	10 1/4	3 1/2	1/2	2090	3000	Threaded	
1 1/4"	C1FL 1500*		37	12 7/8	6	3/4	2515	3600	Bolted	
1 1/2"	C1FL 1500*		45	12 7/8	6	3/4	2515	3600	Bolted	
2"	C1FL 1500*		78	15 5/8	7 7/16	1	2515	3600	Bolted	

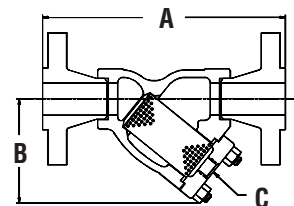
C1SC/C1SW
1/2", 3/4", 1"



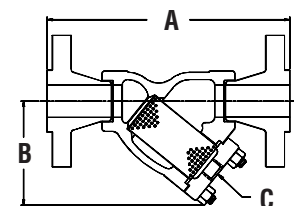
C1SC/C1SW
1/2", 3/4", 1"



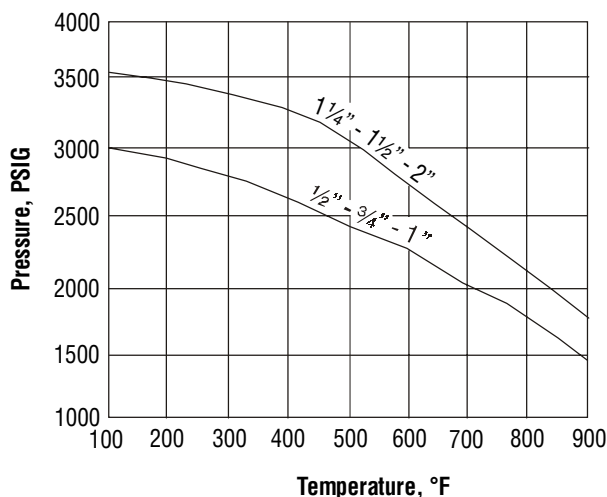
C1SC/C1SW
1/2", 3/4", 1"



C1SC/C1SW
1/2", 3/4", 1"



Pressure / Temperature Rating



All dimensions and weights are approximate. Use certified print for exact dimensions

Forged Steel (F22) 2500 lb Socketweld 1/2" - 2"

Materials

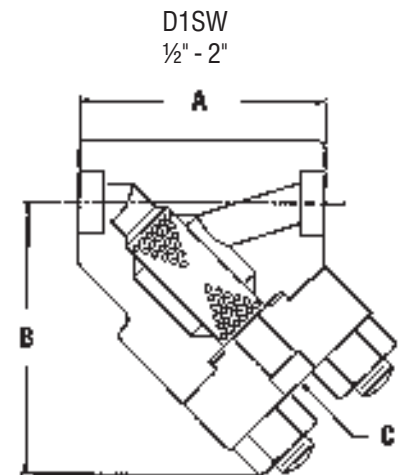
Table 9-1. 2500 lb Socketweld 1/2" - 2"

Connection Size	Body	Screen Retainer	Gasket	Bolting	Standard Screen
1/2", 3/4", 1", 1 1/4", 1 1/2", 2"	ASTMA182 Gr. F22	ASTM A182 Gr. F22	347 SS Spiral wound Non-asbestos	Studs ASTM A193 Gr. B16 Nuts ASTM A194 Gr. 2H	304 SS .045" perforated

Physical Data

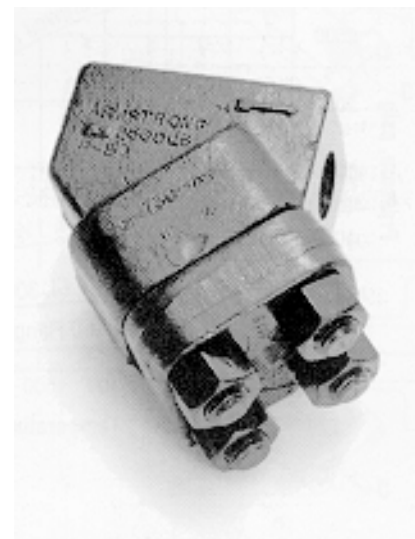
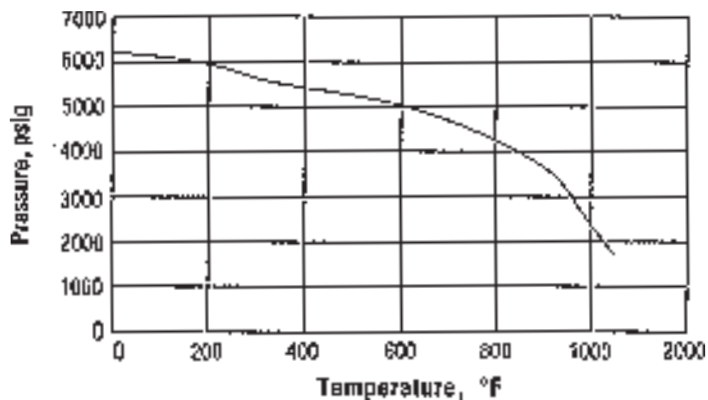
Table 9-2. 2500 lb Socketweld 1/2" - 2"

Size	Ordering Code, Standard Screen	Wt. (lb)	Dimensions, inches			Max. Pressure		Screen Retainer Type	Connections
			"A"	"B"	"C"	Saturated Steam psig	100°F non-shock psig		
1/2"	D1SW	26	5 1/8	5 5/8	1/2	2500	6000	Bolted	ANSI B16.11 Socketweld
3/4"	D1SW	26	5 1/8	5 5/8	1/2				
1"	D1SW	26	5 1/8	5 5/8	1/2				
1 1/4"	D1SW	56	6 5/8	7 3/8	1/2				
1 1/2"	D1SW	56	6 5/8	7 3/8	1/2				
2"	D1SW	56	6 5/8	7 3/8	1/2				



*Socketweld Blowdown Connections for 1/2" Pipe

Pressure / Temperature Rating



All dimensions and weights are approximate. Use certified print for exact dimensions

Cast Stainless Steel (CF8M)

1500 lb and 600 lb Screwed or Socketweld 1/2" - 3"

Materials

Table 10-1. 1500 lb and 600 lb Screwed or Socketweld 1/2" - 3"

Connection Size	Body	Screen Retainer	Gasket	Bolting	Standard Screen
1/2", 3/4", 1"	ASTMA351 Gr. CF8M	ASTM A276	316 SS Flat	N/A	316 SS .045" perforated †
1 1/4", 1 1/2", 2"		ASTM A351 Gr. CF8M	304 SS Spiral wound Non-asbestos	Studs ASTM A193 Gr. B7 Nuts ASTM A194 Gr. 2H	
3"				Non-asbestos	

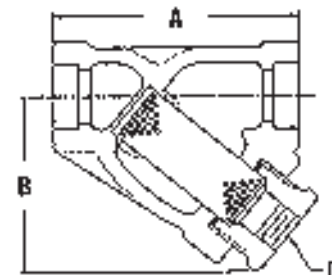
† Note: Other Screen Materials Available. See Page 3.

Physical Data

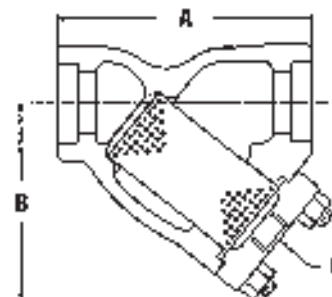
Table 10-2. 1500 lb and 600 lb Screwed or Socketweld 1/2" - 3"

Size	Ordering Code, Standard Screen		Wt. (lb)	Dimensions, inches			Max. Pressure		Screen Retainer Type	Connections
	Screwed	Socketweld		"A"	"B"	"C"	Saturated Steam psig	100°F non-shock psig		
1/2"	E7SC	E7SW	2 1/2	3 3/4	2 1 1/16	3/8	2090	3000	Threaded	ANSI B1.20.1 Screwed
3/4"	E7SC	E7SW	3 1/2	4 3/16	2 15/16	1/2	2090	3000		
1"	E7SC	E7SW	6	5	3 1/2	1/2	2090	3000		
1 1/4"	E7SC	E7SW	9	5 1/2	4 9/16	1/2	935	1440	Bolted	ANSI B16.11 Socketweld
1 1/2"	E7SC	E7SW	11	6 5/16	4 13/16	1/2	935	1440		
2"	E7SC	E7SW	19	7 3/4	5 5/8	1/2	935	1440		
3"	E7SC	E7SW	50	11 3/8	8 9/16	1 1/4	935	1440		

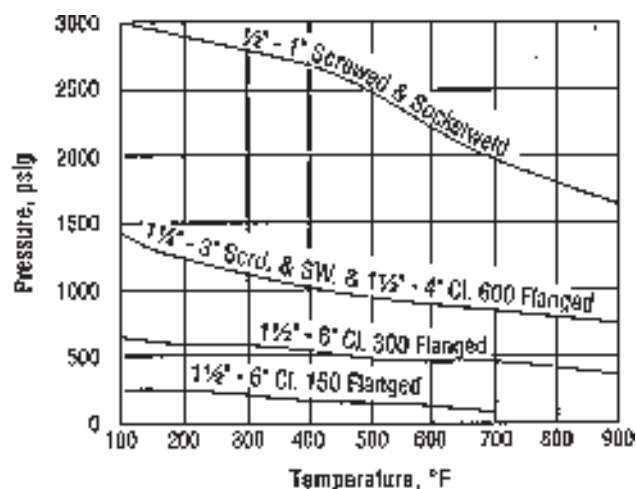
E7SC/E7SW
1/2", 3/4", 1"



E7SC/E7SW
1 1/4", 1 1/2", 2", 3"



Pressure / Temperature Rating



All dimensions and weights are approximate. Use certified print for exact dimensions

Cast Stainless Steel (CF8M)

Cl. 150, 300 Flanged 1/2" - 6" and Cl. 600 Flanged 1/2" - 4"

Materials

Table 11-1. Cl. 150, 300 Flanged 1/2" - 6" and Cl. 600 Flanged 1/2" - 4"

Connection Size	Body	Screen Retainer	Gasket	Bolting	Standard Screen
1/2", 3/4", 1"	ASTM A351 Gr. CF8M	ASTM A276	316 SS Flat	N/A	316 SS .045" perforated †
1 1/2", 2"		ASTM A351 Gr. CF8M	304 SS Spiral wound Non-asbestos	Studs ASTM A193 Gr. B7 Nuts ASTM A194 Gr. 2H	
3", 4", 6"			Non-asbestos	Cap Screws ASTM A193 Gr. B7	

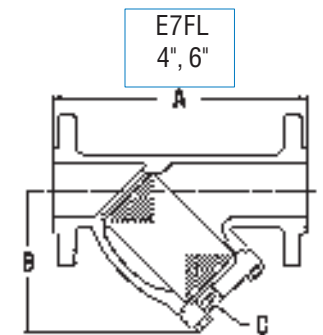
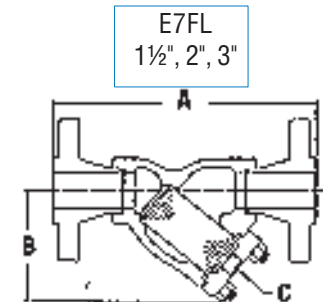
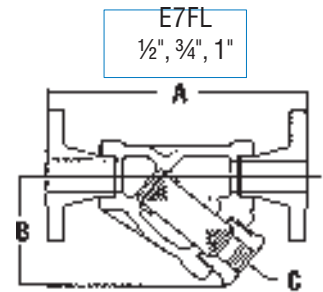
† Note: Other Screen Materials Available. See Page 3.

Physical Data

Table 11-2. Cl. 150, 300 Flanged 1/2" - 6" and Cl. 600 Flanged 1/2" - 4"

Size	Ordering Code, Standard Screen	Wt. (lb)	Dimensions, inches			Max. Pressure		Screen Retainer Type	Flanges Type
			"A"	"B"	"C"	Saturated Steam psig	100°F non-shock psig		
1/2"	E7FL 150	5	6 7/8	2 1/16	3/8	200	275	Threaded	ANSI B16.5 1/16" R.F.
3/4"	E7FL 150	10	7 3/8	2 5/16	1/2	200	275		
1"	E7FL 150	11	8 3/8	3 1/2	1/2	200	275		
1 1/2"	E7FL 150	20	10 1/8	4 3/16	1/2	200	275	Bolted	
2"	E7FL 150	25	11 1/2	5 5/8	1/2	200	275		
3"	E7FL 150	55	15 5/8	8 9/16	1 1/4	200	275		
4"	E7FL 150	79	16 5/8	10 3/4	1 1/4	200	275		
6"	E7FL 150	—	22 5/8	15 1/4	1 1/2	200	275		
1/2"	E7FL 300	6 1/2	7 1/4	2 1/16	3/8	495	720	Threaded	
3/4"	E7FL 300	9 1/2	7 7/8	2 5/16	1/2	495	720		
1"	E7FL 300	13 1/2	8 3/8	3 1/2	1/2	495	720		
1 1/2"	E7FL 300	22	10 3/4	4 3/16	1/2	495	720	Bolted	
2"	E7FL 300	33	12 1/8	5 5/8	1/2	495	720		
3"	E7FL 300	74	16 3/8	8 9/16	1 1/4	495	720		
4"	E7FL 300	144	17 1/4	10 3/4	1 1/4	495	720		
6"	E7FL 300	301	23 1/2	15 1/4	1 1/2	495	720		
1/2"	E7FL 600	8 1/2	7 1/16	2 1/16	3/8	935	1440	Threaded	ANSI B16.5 1/4" R.F.
3/4"	E7FL 600	9 1/2	8 1/4	2 5/16	1/2	935	1440		
1"	E7FL 600	13 1/2	9 3/8	3 1/2	1/2	935	1440		
1 1/2"	E7FL 600	27	11 5/16	4 3/16	1/2	935	1440	Bolted	
2"	E7FL 600	31	12 3/4	5 5/8	1/2	935	1440		
3"	E7FL 600	74	17 1/8	8 9/16	1 1/4	935	1440		
4"	E7FL 600	152	18 1/4	10 3/4	1 1/4	935	1440		

Note: For Pressure/Temperature Ratings See Page 10.



All dimensions and weights are approximate. Use certified print for exact dimensions

Cast Bronze 300 lb Screwed 1/2" - 2"

Materials

Table 12-1. 300 lb Screwed 1/2" - 2"

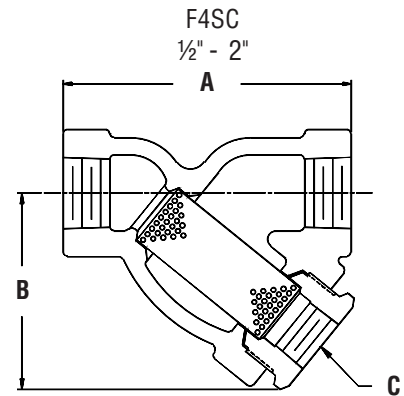
Connection Size	Body	Screen Retainer	Gasket	Bolting	Standard Screen
1/2", 3/4", 1" 1 1/4", 1 1/2", 2"	ASTM B62	Brass	Copper	N/A	Brass .045" perforated †

† Note: Other Screen Materials Available. See Page 3.

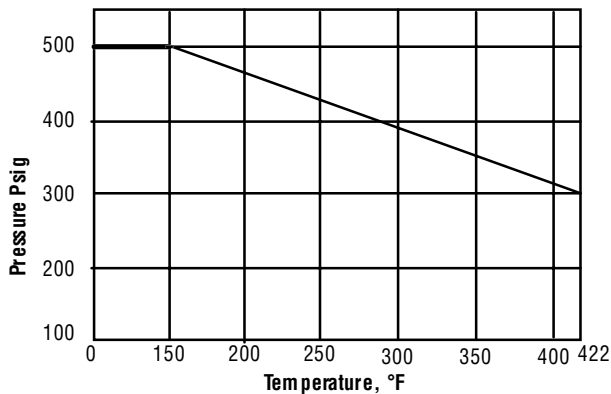
Physical Data

Table 12-2. 300 lb Screwed 1/2" - 2"

Size	Ordering Code, Standard Screen	Wt. (lb)	Dimensions, inches			Max. Pressure		Screen Retainer Type	Connections
			"A"	"B"	"C"	Saturated Steam psig	150°F non-shock psig		
1/2"	F4SC	1 1/2	3 1/2	2 1/2	3/8	300	500	Threaded	ANSI B1.20.1 Screwed
3/4"	F4SC	2	4	2 7/8	1/2	300	500		
1"	F4SC	3 1/2	4 3/4	3 5/16	1/2	300	500		
1 1/4"	F4SC	5	5 1/4	4	1/2	300	500		
1 1/2"	F4SC	7 1/2	6	4 3/8	1/2	300	500		
2"	F4SC	12	7	5 1/2	1/2	300	500		



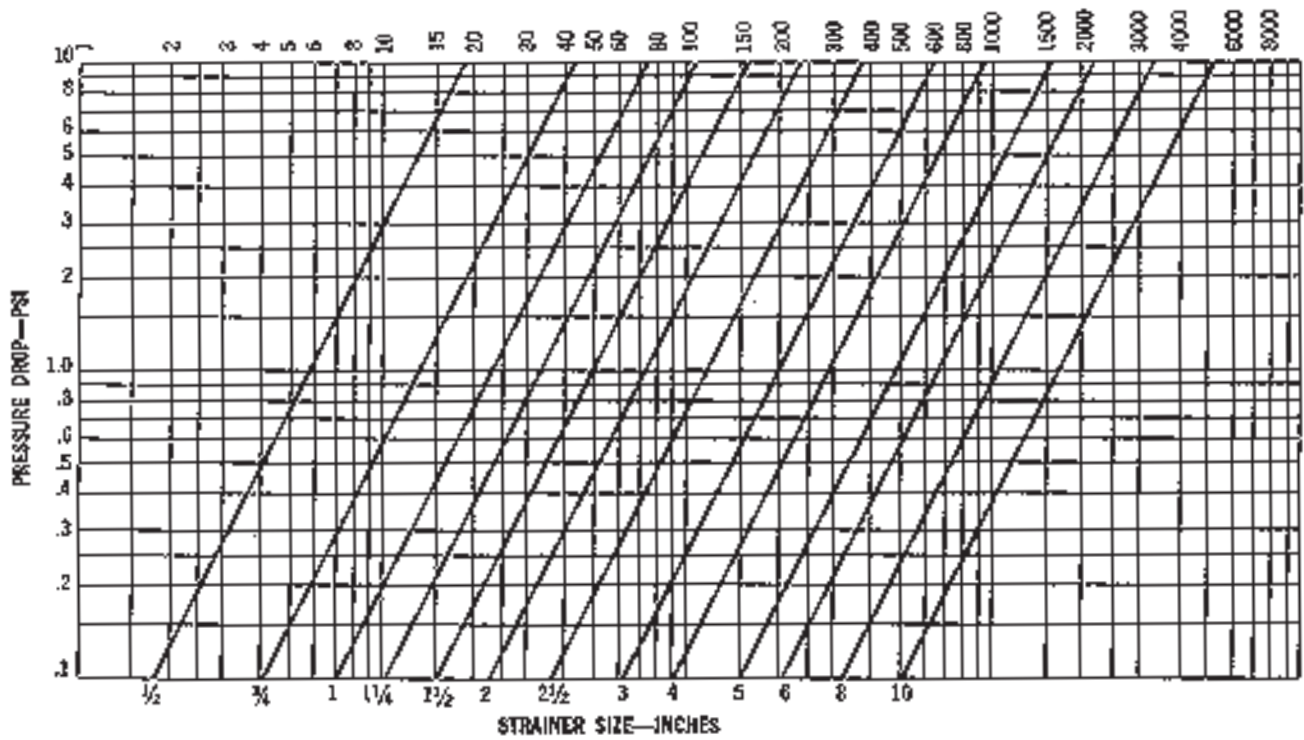
Pressure / Temperature Rating



Water Flow Capacities

Water Flow Capacities

Chart 13-1. Water Flow Capacities in U.S. Gallons per minute (gpm).



Armstrong Y-Type Strainers – Master Selection Table

Master Selection Table

Material	Connections	Sizes	Pressure-Temperature Ratings		Cataloged on Page
			Steam, Non-Shock	Cold, Non-Shock	
Cast Iron ASTM A48 Class 30	Screwed — 250 lb	½" - 3"	250 psig @ 406°F	400 psig @ 150°F	4
	Class 125 Flanged	2" - 10"	125 psig @ 353°F	175 psig @ 150°F	5
	Class 250 Flanged	2" - 8"	250 psig @ 406°F	400 psig @ 150°F	5
Cast Carbon Steel ASTM A216 Gr. WCB	Screwed & Socketweld — 900 lb	½" - 1"	1635 psig @ 609°F	2220 psig @ 100°F	6
	Screwed & Socketweld — 600 lb	1¼" - 3"	1135 psig @ 562°F	1480 psig @ 100°F	6
	Class 150 Flanged	½" - 6"	205 psig @ 390°F	285 psig @ 100°F	8
	Class 300 Flanged	½" - 6"	605 psig @ 490°F	740 psig @ 100°F	8
	Class 600 Flanged	½" - 4"	1135 psig @ 562°F	1480 psig @ 100°F	8
Cast Chrome Moly Steel ASTM A217 Gr. WC6	Screwed & Socketweld — 1500 lb	½" - 1"	2090 psig @ 643°F	3000 psig @ 100°F	9
	Screwed & Socketweld — 1500 lb	1¼" - 2"	2515 psig @ 670°F	3600 psig @ 100°F	9
	Class 1500 Flanged	½" - 1"	2090 psig @ 643°F	3000 psig @ 100°F	9
	Class 1500 Flanged	1¼" - 2"	2515 psig @ 670°F	3600 psig @ 100°F	9
Forged Steel ASTM A182 Gr. F22	Socketweld — 2500 lb	½" - 2"	2500 psig @ 1025°F	6000 psig @ 100°F	10
Cast Stainless Steel ASTM A351 Gr. CF8M	Screwed & Socketweld — 1500 lb	½" - 1"	2090 psig @ 643°F	3000 psig @ 100°F	11
	Screwed & Socketweld — 600 lb	1¼" - 3"	935 psig @ 538°F	1440 psig @ 100°F	11
Cast Stainless Steel ASTM A351 Gr. CF8M	Class 150 Flanged	½" - 6"	200 psig @ 388°F	275 psig @ 100°F	13
	Class 300 Flanged	½" - 6"	495 psig @ 467°F	720 psig @ 100°F	13
	Class 600 Flanged	½" - 4"	935 psig @ 540°F	1440 psig @ 100°F	13
Cast Bronze ASTM B62	Screwed — 300 lb	½" - 2"	300 psig @ 422°F	500 psig @ 150°F	14

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