

Style SA7

Y-Strainer Carbon Steel (ASTM A 216, Grade WCB) Class 150 & 300 RF Flanged



Cast Carbon Steel Y-Strainer

APPLICATIONS

Steam, water, oil or gas where protection from foreign matter in a pipeline is required.

CONSTRUCTION

The Keckley Style SA7 strainers are constructed from rugged carbon steel castings and are machined to exacting specifications. These bodies have drilled flanges that are in accordance with ASME B16.5. All flanges come standard with back-faced bolt holes.

FEATURES

The Keckley Style SA7 strainer features a machined groove in both the body and cover for proper screen alignment and to ensure accurate reseating when servicing is required. The gasket is 304 stainless steel spiral wound and is compressed between the body and cover (for maximum strength and durability) and designed for high pressure and high temperature service. All Keckley Style SA7 strainers have cap screws and can be furnished with a steel blow-off plug upon request.

Blind covers are available upon request.

SCREENS

Standard perforated 304 stainless steel screens are spot welded along the seam for maximum strength. Different size perforations and meshes are available in stainless steel, monel, and brass to meet specific media requirements. If media is not indicated, screens for *liquid* will be supplied.

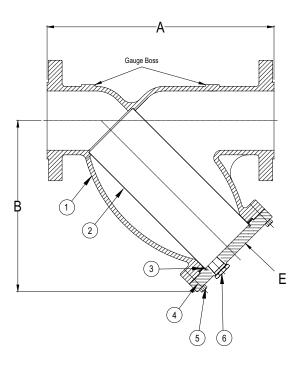
SELF CLEANING

Self cleaning is accomplished by opening the valve or drain plug connected to the blow-off port. Warning: See Maintenance Instructions on page S6 of the Strainer Information Section for additional precautions and detailed information on servicing the strainer.

1/2" to 14" NOM. RATING **MEDIA** 15 mm to 350 mm STEAM 150 PSI @ 565°F 1035 KPa @ 296°C CLASS 150 W.O.G. 285 PSI @ 100°F 1966 KPa @ 38°C NOM. RATING **MEDIA** 1/2" to 14" 15 mm to 350 mm STEAM 300 PSI @ 838°F 2069 KPa @ 448°C CLASS 300 W.O.G. 740 PSI @ 100°F 5104 KPa @ 38°C

WORKING PRESSURES - NON SHOCK





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PARTS LIST						
ITEM	DESCRIPTION	MATERIAL				
1*	Body	Carbon Steel (ASTM A 216, Grade WCB)				
2	Screen	Stainless Steel (304)				
3	Gasket	Spiral Wound Stainless Steel (304)				
4	Cover	Carbon Steel (ASTM A 216, Grade WCB)				
5	Hex Head Cap Screw	Carbon Steel (ASTM A 193, Grade B7)				

Optional: Blow-off Plug, Carbon Steel.

*Optional Body Materials Available in LCB, WC6, and WC9.

STANDARD SCREENS SUPPLIED

SIZE		SCREEN PERFORATION							
		FOR LIQUID		OPEN	FOR S	OPEN			
in	mm	in	mm	AREA	in	mm	AREA		
1/2 to 4	15 to 100	1/16	1.6	30%	3/64	1.2	33%		
5 to 10	125 to 250	1/8	3.2	43%	3/64	1.2	33%		
12 & 14	300 & 350	1/8	3.2	43%	1/16	1.6	30%		

Standard screens supplied are for **liquid service**, unless otherwise specified. Options: Other perforations, meshes, and screen materials are available.

		DIMENSIONS								WEIGHTS					
SIZE		Α			В				E						
		Class	s 150	Class	s 300	Class 150 Class 300			Class 150 & 300		Class 150		Class 300		
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lbs	kgs	lbs	kgs
1/2	15	6-1/2	165	6-1/8	156	3-3/4	95	3-3/4	95	3/8	10	7	3.02	8	3.45
3/4	20	7-3/8	187	7-3/4	197	4-1/4	108	4-1/4	108	1/2	15	10	4.46	13	5.68
1	25	7-3/8	187	7-7/8	200	4-1/4	108	4-1/4	108	1/2	15	10	4.28	13	5.59
1-1/4	32	7	178	8-1/8	206	5-1/8	130	5-1/8	130	1/2	15	13	5.86	21	9.28
1-1/2	40	7-1/8	181	8-1/4	210	5-1/8	130	5-1/8	130	1/2	15	14	6.20	21	9.37
2	50	7-7/8	200	9-1/2	241	6	152	6	152	1/2	15	23	10.15	27	11.83
2-1/2	65	9-3/4	248	10-3/8	264	7	178	7	178	1	25	36	16.16	41	18.53
3	80	10-1/16	256	12	305	7-7/16	189	7-5/16	186	1	25	40	17.76	56	25.06
4	100	12-1/8	308	14-1/2	368	8-15/16	227	8-15/16	227	1-1/2	40	61	27.26	95	42.83
5	125	15-1/2	394	19-5/16	491	13-1/32	331	13-1/32	331	2	50	101	45.58	189	85.72
6	150	18-1/2	470	19-5/16	491	13-1/4	337	13-1/4	337	2	50	134	60.72	189	85.57
8	200	21-3/8	543	23-3/8	594	15-1/2	394	15-1/2	394	2	50	224	101.30	320	144.91
10	250	26	660	27-3/8	695	18-7/16	468	18-7/16	468	2	50	326	147.49	481	218.01
12	300	29-7/8	759	32	813	21-5/8	549	21-5/8	549	2	50	622	282.08	839	380.12
14	350	34-1/2	876	36	914	25	635	25	635	2	50	791	358.62	1017	460.96

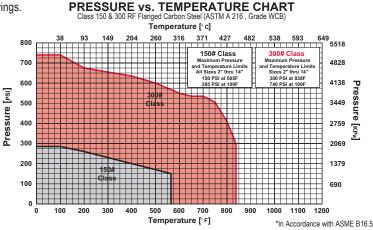
[†]This table reflects only the nearest metric equivalents.

Dimensions and weights are for reference only. When required, request certified drawings. Face to face values have a tolerance in compliance with ASME B16.5.

TOTAL SCREEN AREA

Size	(in²)	Size	(in²)	Size	(in²)	Size	(in²)
1/2"	6.46	1-1/2"	18.68	4"	91.89	10"	532.80
3/4"	12.32	2"	30.28	5"	209.41	12"	600.71
1"	12.32	2-1/2"	46.91	6"	241.18		reen area 50 lb. class
1-1/4"	18.68	3"	57.62	8"	342.86		50 ib. ciass IV)

*See DETERMINING RATIOS on page S5 of the Strainer Information Section for calculating NET FREE AREA of the screen to inside pipe area.



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PRESSURE DROP CHART

Flanged "Y" Pattern Strainers (Styles A, BA, BA7, SA, SA7, SSA and SSA7)

This pressure drop chart is based on the flow of clean water through the Keckley "Y" strainers listed above with screen perforations ranging from 3/64" through 1/8".

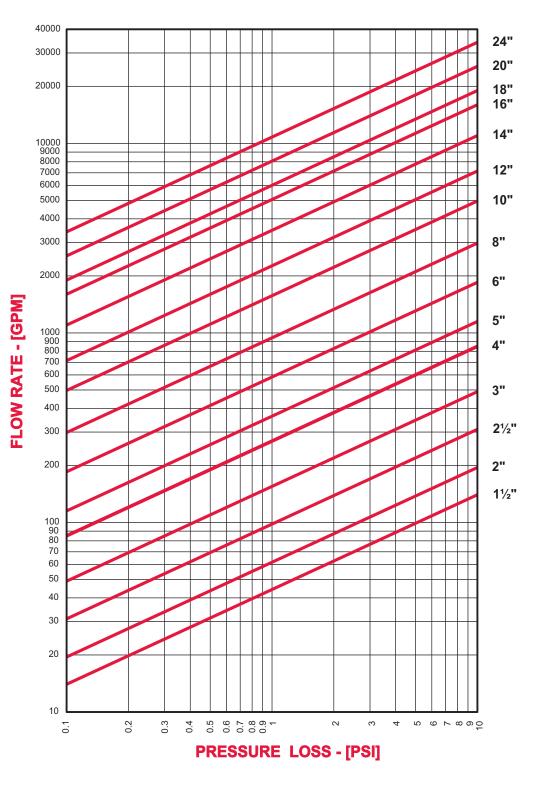
TO USE CHARTS:

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 right by the following:

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



1-800-KECKLEY Y51