

Style SB-7

Y-Strainer
Carbon Steel (ASTM A 216, Grade WCB)
600 lb. Threaded
600 lb. Socket Weld



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 SB-7 stainers are constructed from rugged carbon steel castings that are machined to exacting specifications.

Socket Weld bore is in compliance with ASME B16.11 unless otherwise specified.

FEATURES

The Keckley Style SB-7 strainer features a machined groove in the body and cap for proper alignment and to ensure accurate reseating when servicing is required. This strainer has a straight threaded cap and is furnished standard with a NPT blow-off connection. The gasket is 304 stainless steel spiral wound and is compressed between the body and cap (for maximum strength and durability) and designed for both high pressure and high temperature service. Keckley Style SB-7 strainers can be supplied with a carbon steel blow-off plug 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 *steam* 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.

WORKING PRESSURES - NON SHOCK

NOM. RATING MEDIA		1/4" to 3"	8 mm to 80 mm		
600# (THREADED & SOCKET WELD)	STEAM	600 PSI @ 838°F	4138 KPa @ 448°C		
	W.O.G.	1480 PSI @ 100°F	10208 KPa @ 38°C		



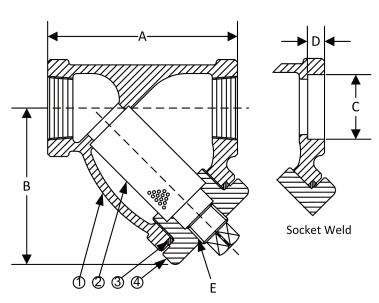
TECHNICAL DATA DIMENSIONS AND WEIGHTS

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Optional: Blow-off Plug, Carbon Steel (ASTM A 105).
*Optional Body Materials Available in LCB, WC6, and WC9.



STANDARD SCREENS SUPPLIED

1	SIZE			SCREEN PERFORATION							
	Oli	<u></u>	SCREEN	FOR S	TEAM	OPEN	FOR L	OPEN			
	in	mm	GAGE	in	mm	AREA	in	mm	AREA		
1	1/4 to 3	8 to 80	21	3/64	1.2	33%	1/16	1.6	30%		

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

SIZE		DIMENSIONS									WEIGHTS		
		Α		В		С		D		E		WEIGHTS	
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lbs	kgs
1/4	8	2-15/16	75	2-7/16	62	0.555	14	3/8	10	1/4	8	3	1
3/8	10	2-15/16	75	2-7/16	62	0.690	18	3/8	10	1/4	8	3	1
1/2	15	2-15/16	75	2-7/16	62	0.855	22	3/8	10	1/4	8	3	1
3/4	20	3-11/16	94	3	76	1.065	27	1/2	13	3/8	10	5	2
1	22	4-9/16	116	4-5/16	110	1.330	34	1/2	13	3/8	10	6	3
1-1/4	32	4-15/16	125	4-3/16	106	1.675	43	1/2	13	3/4	20	8	4
1-1/2	40	5-9/16	141	4-11/16	119	1.915	49	1/2	13	3/4	20	10	5
2	50	6-15/16	176	6-1/4	159	2.406	61	5/8	16	1	25	16	7
2-1/2	65	12	305	9-3/8	238	2.906	74	5/8	16	1-1/4	32	43	20
3	80	12	305	9-3/8	238	3.535	90	5/8	16	1-1/4	32	43	20

Certified dimensional drawings are available upon request.

Threaded

FLOW COEFFICIENTS

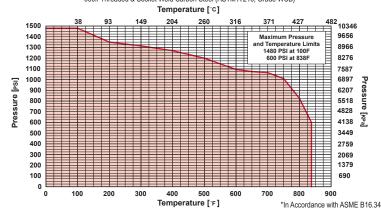
Size	C _v	Size	C _v	Size	C _v
1/4"	9.5	1"	30	2-1/2"	129.7
3/8"	9.5	1-1/4"	44.9	3"	161.3
1/2"	9.5	1-1/2"	61		
3/4"	18.7	2"	98		

TOTAL SCREEN AREA

Size	(in²)	Size	(in²)	Size	(in²)
1/4"	2.75	1"	10.08	2-1/2"	78.14
3/8"	2.75	1-1/4"	12.79	3"	78.14
1/2"	2.75	1-1/2"	16.33		
3/4"	4.71	2"	27.04		

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

PRESSURE vs. TEMPERATURE CHART Off Threaded & Socket Weld Carbon Steel (ASTM A 216, Grade WC)



1-800-KECKLEY

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



PRESSURE DROP CHART

Threaded "Y" Pattern Strainers (Styles B, BDI, E-150, F-300, SB, SB-7, SSB and SSB-7)

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" and is additionally for use with those units equipped with a 20 mesh screen as standard.

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

