



Style SB-7BCC9

Y-Strainer, 600 lb. Threaded & Socket Weld
Bolted Cover
Cast Chrome-Moly (ASTM A 217, Grade WC9)

PARTS LIST		
ITEM	DESCRIPTION	MATERIAL
1*	BODY	CAST CHROME-MOLY (ASTM A 217, GRADE WC9)
2	SCREEN	STAINLESS STEEL (304)
3	GASKET	SPIRAL WOUND STAINLESS STEEL (304) - WITH GRAPHITE FILLER
4	CAP	CAST CHROME-MOLY (ASTM A 217, GRADE WC9)
5	STUD	CARBON STEEL (ASTM A 193, GRADE B7)
6	NUT	CARBON STEEL (ASTM A 194, GRADE 2H)
7	PLUG	CARBON STEEL (ASTM A 105)

*Optional Body Materials Available in LCB and WC6.

STANDARD SCREENS SUPPLIED

SIZE		SCREEN GAGE	SCREEN PERFORATION					
in	mm		FOR STEAM		FOR LIQUID		OPEN AREA	
			in	mm	in	mm		
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	
		A		B		C		D		E			
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lbs	kgs
1/4	8	3	76	2-1/2	63	.555	14	3/8	10	1/4	8	3	1.3
3/8	10	3	76	2-1/2	63	.690	18	3/8	10	1/4	8	3	1.3
1/2	15	3-7/8	99	3-1/4	83	.855	22	3/8	10	1/4	8	4	1.8
3/4	20	4-1/4	108	4-1/4	108	1.065	27	1/2	13	3/8	10	5	2.3
1	25	4-15/16	125	4-5/8	117	1.330	34	1/2	13	1/2	15	7	3
1-1/4	32	5-5/8	143	5-1/2	140	1.675	43	1/2	13	3/4	20	11	5
1-1/2	40	6-1/4	159	6-1/4	159	1.915	49	1/2	13	3/4	20	16	7.25
2	50	7-1/2	191	7-1/4	184	2.406	61	5/8	16	1	25	22	10
2-1/2	65	12	305	9-3/8	238	2.906	74	5/8	16	1-1/4	32	43	19.5
3	80	12	305	9-3/8	238	3.535	90	5/8	16	1-1/4	32	43	19.5

Certified dimensional drawings are available upon request.
†This table reflects only the nearest metric equivalents.

FLOW COEFFICIENTS

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

TOTAL SCREEN AREA

Size	(in ²)	Size	(in ²)	Size	(in ²)
1/4" - 3/8"	4.36	1"	13.84	2"	35.48
1/2"	4.36	1-1/4"	20.83	2-1/2"	69.82
3/4"	9.372	1-1/2"	24.02	3"	69.82

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

PRESSURE DROP CHART

Threaded "Y" Pattern Strainers (Styles 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

