

Style B7

Y-Strainer
Cast Iron (ASTM A 126, Class B)
250 lb. Threaded



Cast Iron Y-Strainer

APPLICATIONS

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

CONSTRUCTION

The Keckley Style B7 stainers are constructed from rugged cast iron castings that are machined to exacting specifications.

FEATURES

The Keckley Style B7 strainer features a straight thread bushing in sizes ¼" thru 3". All Keckley Style B7 strainers are furnished standard with a NPT blow-off connection and can be supplied with a cast iron blow-off plug upon request.

SCREENS

Standard screens are 20 mesh 304 stainless steel through size 2". Sizes 2-1/2" and 3" are furnished with 1/16" perforated 304 stainless steel screens. All screens are spot welded 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 *water* will be supplied.

SELF CLEANING

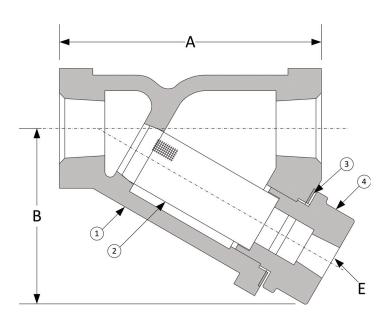
Self cleaning is accomplished by opening the valve or drain plug connected to the blow-off port. **Warning:** See Maintenance Instructions on page S6 of the Strainer Information Section for additional precautions and detailed information on servicing the strainer.

WORKING PRESSURES - NON SHOCK

NOM. RATING	MEDIA	1/4" to 3"	8 mm to 80 mm
250# (Threaded)	STEAM	250 PSI @ 406°F	1724 KPa @ 208°C
	W.O.G.	400 PSI @ 150°F	2759 KPa @ 66°C



TECHNICAL DATA DIMENSIONS AND WEIGHTS



Style B7

Y-Strainer, 250 lb. Threaded Cast Iron (ASTM A 126, Class B)

PARTS LIST						
ITEM	ITEM DESCRIPTION MATERIAL					
1	Body	Cast Iron (ASTM A 126, Class B)				
2	Screen	Stainless Steel (304)				
3	Gasket	Graphite				
4	Bushing	Cast Iron (ASTM A 126, Class B)				

Optional: Blow-off Plug, Malleable Iron

STANDARD SCREENS SUPPLIED

er.	ZE		SCREEN PERFORATION					
31	SIZE		FOR STEAM		OPEN	FOR LIQUID		OPEN
in	mm	GAGE	in	mm	AREA	in	mm	AREA
1/4 to 2	8 to 50	20 MESH STAINLESS STEEL						49%
2-1/2 to 3	65 to 80	28	3/64	1.2	33%	1/16	1.6	30%

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

e.	70	DIMENSIONS						WEIGHTS	
SIZE		Α		В		E		WEIGHTS	
in	mm	in	mm	in	mm	in	mm	lbs	kgs
1/4	8	3-3/16	81	2-1/16	52	1/4	8	2	0.7
3/8	10	3-3/16	81	2-1/16	52	1/4	8	2	0.7
1/2	15	3-3/16	81	2-1/16	52	1/4	8	2	0.7
3/4	20	3-3/4	95	2-7/16	61	3/8	10	3	1.0
1	25	4	102	2-5/8	66	3/8	10	3	1.4
1-1/4	32	5	127	3-3/8	85	3/4	20	5	2.3
1-1/2	40	5-3/4	146	3-7/8	98	3/4	20	7	3.0
2	50	7-	177	4-3/4	121	1	25	13	5.7
2-1/2	65	9-1/4	235	5-7/8	149	1-1/2	40	26	11.4
3	80	10	254	6	152	1-1/2	40	30	13.6

Certified dimensional drawings are available upon request.

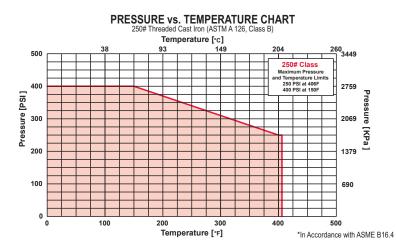
FLOW COEFFICIENTS

Size	C _v	Size	C _v	Size	C _v
1/4"	0.7	1"	22	2-1/2"	110
3/8"	2	1-1/4"	38	3"	160
1/2"	8	1-1/2"	42		
3/4"	15	2"	71		

TOTAL SCREEN AREA

Size	(in²)	Size	(in²)	Size	(in²)
1/4"	3.57	1"	8.06	2-1/2"	47.12
3/8"	3.57	1-1/4"	12.94	3"	47.12
1/2"	3.57	1-1/2"	18.85		
3/4"	6.05	2"	27.44		

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



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



PRESSURE DROP CHART

Threaded "Y" Pattern Strainers (Styles B7)

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

