

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 strainers 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 1/4" 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

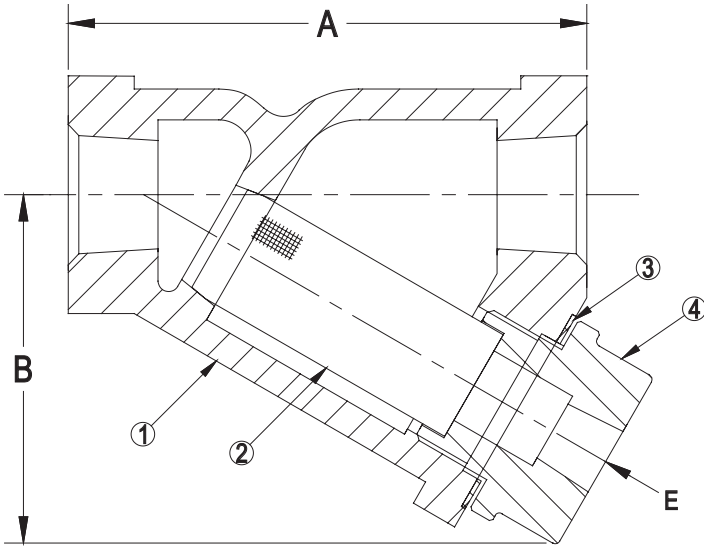
Self cleaning is accomplished by opening the valve or drain plug connected to the blow-off port. **Warning:** See Maintenance Instructions on page S6 of the Strainer Information Section for additional precautions and detailed information on servicing the strainer.

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

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PARTS LIST

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

SIZE		SCREEN PERFORATION					
		FOR STEAM		OPEN AREA	FOR LIQ-UID		OPEN AREA
in	mm	in	mm		in	mm	
1/4 to 2	8 to 50	20 MESH STAINLESS STEEL				49%	

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

SIZE		DIMENSIONS						WEIGHTS	
		A		B		E			
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.

†This table reflects only the nearest metric equivalents.

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		

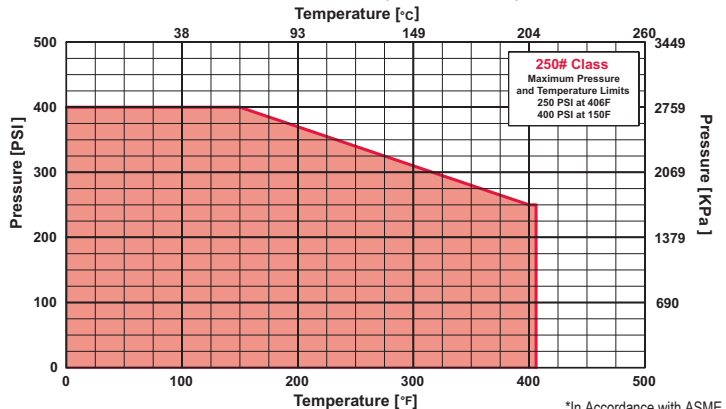
TOTAL SCREEN AREA

Size	(in ²)	Size	(in ²)	Size	(in ²)
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.

PRESSURE vs. TEMPERATURE CHART

250# Threaded Cast Iron (ASTM A 126, Class B)



*In Accordance with ASME B16.4