

Style A

Y-Strainer

Cast Iron (ASTM A 126, Class B)

125 lb. & 250 lb. Flanged



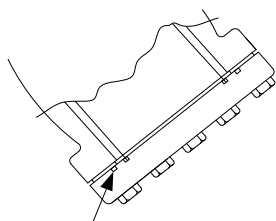
Style GA

(Natural Gas Service)

Y-Strainer

Cast Iron (ASTM A 126, Class B)

125 lb. & 250 lb. Flanged



(Special O-Ring Seal
With Solid Cover Plate)

Cast Iron Y-Strainer

APPLICATIONS

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

CONSTRUCTION

The Keckley Style A strainers are constructed from rugged cast iron castings that are machined to exacting specifications. These bodies have drilled flanges that are in accordance with ASME B16.1.

The Keckley Style GA strainers are used extensively for protecting gas meters and compressors in metering stations. The strainer utilizes a Buna N-70-Durometer O-Ring instead of a conventional gasket on the solid cover plate.

FEATURES

The Keckley Style A 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 a synthetic fiber that is compressed between the body and cover for maximum strength and durability. Keckley Style A strainers can be furnished with a 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 the media is not indicated, screens for *water* will be supplied.

SELF CLEANING

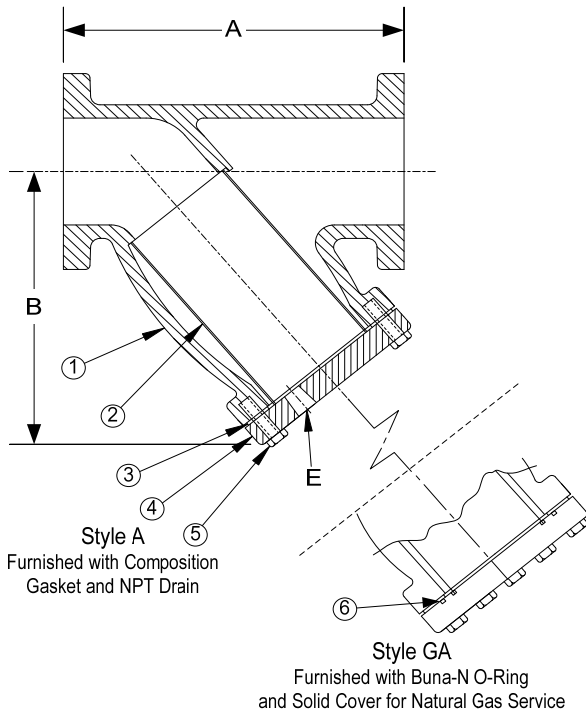
Self cleaning is accomplished by opening the valve or drain plug connected to the blow-off port. **Warning:** See Maintenance Instructions on page S6 of the Strainer Information Section for additional precautions and detailed information on servicing the strainer.

WORKING PRESSURES – NON SHOCK

NOM. RATING	MEDIA	2" to 12"	50 mm to 300 mm
125# F.F. & D. (STANDARD FLANGE)	STEAM	125 PSI @ 450°F	862 KPa @ 232°C
	W.O.G.	200 PSI @ 150°F	1379 KPa @ 66°C
	MEDIA	14" and UP	350 mm and UP
	STEAM	100 PSI @ 353°F	690 KPa @ 178°C
250# R.F. & D. (EX. HEAVY FLANGE)	W.O.G.	150 PSI @ 150°F	1035 KPa @ 66°C
	NOM. RATING	MEDIA	2" to 12"
	STEAM	250 PSI @ 450°F	1724 KPa @ 232°C
	W.O.G.	500 PSI @ 150°F	3449 KPa @ 66°C
	MEDIA	14" and UP	350 mm and UP
	STEAM	200 PSI @ 406°F	1379 KPa @ 208°C
	W.O.G.	300 PSI @ 150°F	2069 KPa @ 66°C

GOVERNMENT/MILITARY SPECIFICATIONS

Style A cast iron flanged strainers meet or exceed government specification WW-S-2739 (Supersedes MIL-S-16293).



Style A & GA

Y-Strainer, 125 lb. & 250 lb. Flanged
Cast Iron (ASTM A 126, Class B)

PARTS LIST

ITEM	DESCRIPTION	MATERIAL
1	BODY	CAST IRON (ASTM A 126, CLASS B)
2	SCREEN	STAINLESS STEEL (304)
3	GASKET	COMPOSITION
4	COVER	CAST IRON (ASTM A 126, CLASS B)
5	HEX HEAD CAP SCREWS	STEEL
6*	O-RING	BUNA-N

Optional: Blow-off Plug, Malleable Iron

*Denotes parts for the Style GA strainer only.

STANDARD SCREENS SUPPLIED

SIZE		SCREEN GAGE	SCREEN PERFORATION					
			FOR STEAM		OPEN AREA	FOR LIQUID		OPEN AREA
in	mm		in	mm		in	mm	
2 to 4	50 to 100	28	3/64	1.2	33%	1/16	1.6	30%
5 to 10	125 to 250	24	3/64	1.2	33%	1/8	3.2	43%
12	300	24	1/16	1.6	30%	1/8	3.2	43%
14 & UP	350 & UP	20	1/8	3.2	43%	1/8	3.2	43%

Standard screens supplied are for **liquid service**, unless otherwise specified.

Options: Other perforations, meshes, and screen materials are available.

SIZE		DIMENSIONS												WEIGHTS			
		A				B				E							
		125#		250#		125#		250#		125#		250#		125#		250#	
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lbs	kgs	lbs	kgs
2	50	8-3/8	213	9-7/8	251	8-3/8	213	6-1/4	159	1-1/4	32	1/2	15	30	14	33	15
2-1/2	65	9-7/8	251	11-1/4	286	8-3/8	213	7-3/4	197	1-1/4	32	1	25	35	16	49	22
3	80	10-1/4	260	12-1/2	318	7-3/8	187	8-1/4	210	1	25	1	25	35	16	57	26
4	100	12-1/8	308	14-5/8	371	8-3/4	222	10-1/8	257	1-1/2	40	1-1/4	32	65	29	106	48
5	125	15-5/8	397	18	457	12	305	12-1/2	318	2	50	1-1/4	32	105	48	157	71
6	150	18-9/16	471	20-3/8	518	14	356	14-3/8	365	2	50	1-1/2	40	155	70	215	98
8	200	24-1/8	613	23-7/8	606	17-3/4	451	17-1/2	445	2	50	1-1/2	40	240	109	315	143
10	250	29-9/16	751	29-5/8	752	21-1/4	540	21	533	2	50	2	50	400	181	525	238
12	300	33-3/4	857	33-3/4	857	24	610	23-5/8	600	2	50	2	50	500	227	700	318
14	350	37-1/8	943	37-1/4	946	25-1/2	648	27-1/8	689	2	50	2	50	825	374	1400	635
16	400	42-3/8	1076	42-3/8	1076	29-1/8	740	29-1/4	743	2	50	2	50	1050	476	1850	839
18	450	46-3/16	1173	--	--	41	1041	--	--	2	50	--	--	1723	782	--	--
20	500	54-1/2	1384	--	--	43	1092	--	--	2	50	--	--	2660	1207	--	--
24	600	55-13/16	1418	--	--	41	1041	--	--	2	50	--	--	3400	1542	--	--

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	Size	C _v
2"	62	5"	364	12"	2261	20"	8064
2 1/2"	98	6"	585	14"	3479	Reflects 125# castings only.	
3"	155	8"	942	16"	5060		
4"	269	10"	1572	18"	6008		

TOTAL SCREEN AREA

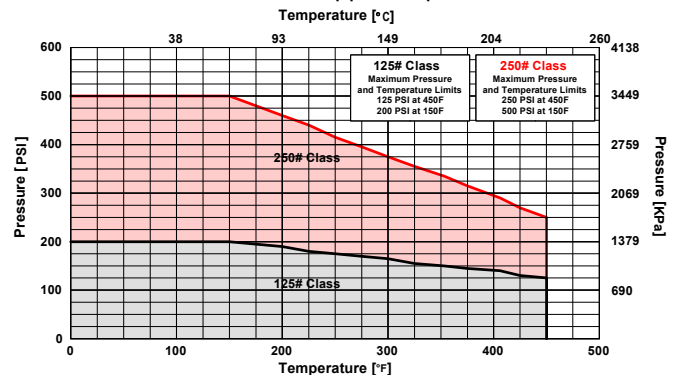
Size	(in ²)	Size	(in ²)	Size	(in ²)	Size	(in ²)
2"	51.55	5"	136.09	12"	835.53	20"	2947.1
2 1/2"	70.01	6"	242.72	14"	1175.30	Reflects 125# castings only.	
3"	61.34	8"	411.16	16"	1471.34		
4"	99.64	10"	610.51	18"	2381.54		

*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

125# & 250# Flanged Cast Iron (ASTM A126, Class B)

Suitable for use with pipe sizes up to 12"



*In Accordance with ASME B16.1

PRESSURE DROP CHART

Flanged "Y" Pattern Strainers (Styles A, BA, BA-7, SA, SA-7, SSA and SSA-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".

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

