

Style GFV

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



Cast Iron Basket Strainer

APPLICATIONS

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

CONSTRUCTION

The Keckley Style GFV 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.

FEATURES

The Keckley Style GFV strainers feature a basket with an angular cutaway design to allow straight through flow and extremely low pressure loss. All sizes have a bolted top cover flange for ease in basket removal. The gasket is a synthetic fiber and is compressed between the body and cover for maximum strength and durability. Keckley Style GFV strainers are furnished standard with a tapped and plugged NPT drain connection.

BASKETS

Standard baskets are 304 stainless steel and 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.

CLEANING

Cleaning of the Style GFV strainer is accomplished by removing the cover and pulling out the basket. **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
	STEAM	125 PSI @ 450°F	862 KPa @ 232°C
405# 5 5 0 5	W.O.G.	1379 KPa @ 66°C	
125# F.F. & D	MEDIA	14" and UP	350 mm and UP
(STANDARD FLANGE)	STEAM	100 PSI @ 353°F	690 KPa @ 178°C
	W.O.G.	150 PSI @ 150°F	1035 KPa @ 66°C
NOM. RATING	MEDIA	2" to 6"	50 mm to 150 mm
250# R.F. & D	STEAM 250 PSI @ 450°F 172		1724 KPa @ 232°C
(EX. HEAVY FLANGE)	W.O.G.	500 PSI @ 150°F	3449 KPa @ 66°C

GOVERNMENT/MILITARY SPECIFICATIONS

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



TECHNICAL DATA DIMENSIONS AND WEIGHTS

Style GFV

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



C B Sizes 8" and up have side drain

STANDARD SCREENS SUPPLIED

SIZE		SCREEN PERFORATION							
31	4 E	FOR L	.IQUID	OPEN FOR STEA		TEAM	OPEN		
in	mm	in	mm	AREA	in	mm	AREA		
2 to 4	50 to 100	1/16	1.6	30%	3/64	1.2	33%		
5 to 16	125 to 400	1/8	3.2	43%	3/64	1.2	33%		

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

									DIMEN	SIONS					1		
SI	SIZE A				В				С			E					
	125#		5#	25	50# 125#		250#		125#		250#		125#		250#		
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
2	50	8	203	8-1/2	216	6	152	3-7/8	98	3-1/2	89	5-1/4	133	3/4	20	1/2	15
2-1/2	65	8-1/4	210	9-1/4	235	7	178	5-3/4	146	3-3/4	95	5-1/4	133	3/4	20	3/4	20
3	80	9-3/4	248	9-1/2	241	8-1/4	210	5-3/4	146	4-1/4	108	5-1/4	133	3/4	20	3/4	20
4	100	11-1/2	292	11-13/16	300	9	229	8-9/16	217	4-3/4	121	6	152	1	25	1	25
5	125	13-1/8	333	15-3/8	391	9-3/4	248	10-1/2	267	6	152	7-3/4	197	1	25	1	25
6	150	14-3/4	375	15-1/2	394	10-1/2	267	10-1/2	267	6-1/4	159	7-3/4	197	1	25	1	25
8	200	18-1/2	470	C,	20	12-3/4	324		20	9	229	See See		1-1/2	40	_	00
10	250	20-1/8	511	Se Stute D		14-3/4	375		ee	10-3/4	273			1-1/2	40		See
12	300	26-1/4	667	Style D	250 ID.	17-1/2	17-1/2 445 Style D 250 lb.		13-1/2	343	Style D 250 lb.		2	50	Style L	Style D 250 lb.	
14	350	30-1/4	768	Con	sult	23-1/2	591			14-1/4	362	Con	sult	3	80	Cor	nsult
16	400	33-1/8	841	Fac	tory	24-1/4	616	Fac	tory	15	381] Fac	tory	3	80	Fac	ctory

blow-off hole.

Consult factory for sizes not shown.

Certified dimensional drawings are available upon request.

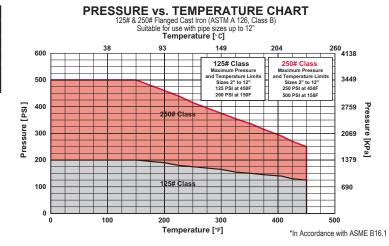
Face to face values tolerance in compliance with ASME B16.1.

WEIGHTS												
Si	ze	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"	14"	16"
125	lbs	23	33	44	67	88	120	220	353	523	814	1041
125	kgs	10	15	20	30	40	54	100	160	237	369	472
250 –	lbs	29	53	65	107	187	224	See Style D 250 lb.				
	kas	13	24	29	49	85	102					

FLOW COEFFICIENTS										
Size	Cv	Size	Cv	Size	Cv	Size	Cv			
2"	42.7	4"	276.7	8"	1486.3	14"	7984.8			
2-1/2"	77.5	5"	442.7	10"	3051.6	16"	9565.9			
3"	120.2	6"	743.1	12"	4980.6					

TOTAL SCREEN AREA											
Size	(in²)	Size	(in²)	Size	(in²)	Size	(in²)				
2"	29.27	4"	108.44	8"	310.03	14"	1141.87				
2-1/2"	45.11	5"	142.29	10"	457.06	16"	1428.51				
3"	78 20	6"	176 75	12"	691 07						

*See DETERMINING RATIOS on page \$5 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

 $Basket\ Strainers\ (\text{Styles}\ \text{GFV}, \text{GFVK}, \text{GFVK7}, \text{BGFV}, \text{SGFVK}, \text{SSGFV}, \text{and}\ \text{SSGFVK})$

This pressure drop chart is based on the flow of clean water through the Keckley strainer styles listed above with screen perforations ranging from 3/64" through 1/8".

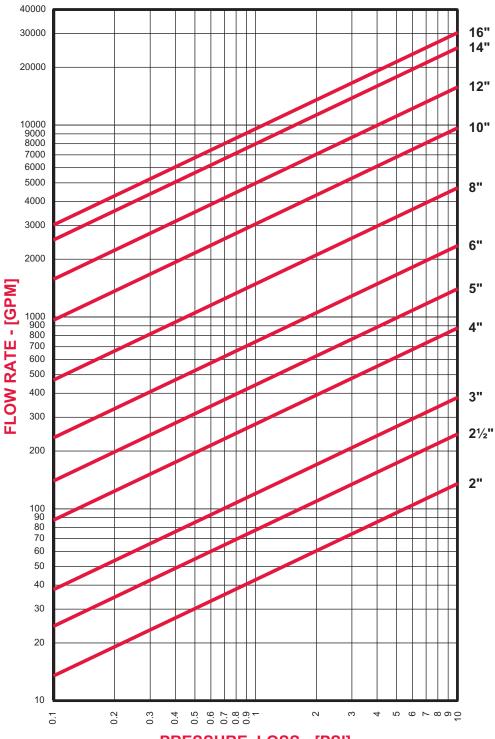
TO USE CHARTS:

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 baskets 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



PRESSURE LOSS - [PSI]