

Style GFV

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



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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# E E 0 D	W.O.G.	200 PSI @ 150°F	1379 KPa @ 66°C
125# F.F. & D (STANDARD FLANGE)	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	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).

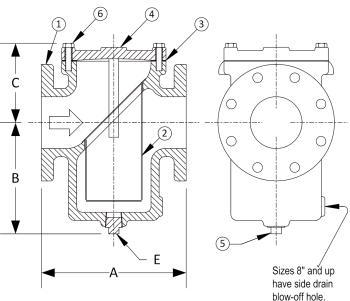


TECHNICAL DATA DIMENSIONS AND WEIGHTS

Style GFV

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





STANDARD SCREENS SUPPLIED

ei.	ZE				REEN PE				
OI.	Z E	SCREEN	FOR S	TEAM	OPEN	FOR L	.IQUID	OPEN	
in	mm	GAGE	in	mm	AREA	in	mm	AREA	
2 to 3	50 to 80	28	1/16	1.6	30%	1/8	3.2	43%	
4 to 16	100 to 400	24 - 20	1/8	3.2	43%	1/8	3.2	43%	

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

									DIMEN	ISIONS							
SI	ZE			Ą				В			(<u> </u>				E	
		12	5#	250	O#	12	5#	25	0#	12	5#	25	0#	12	:5#	25	0#
in	mm in mm in mm		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	7 178 5		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	-1/4 210 5		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	Se	00	12-3/4	324	See		9	229	Se	20	1-1/2	40	9	ee
10	250	20-1/8	511			14-3/4	375	Style D		10-3/4	10-3/4 273			1-1/2	40		
12	300	26-1/4	667	Style D	200 ID.	17-1/2	7-1/2 445 Si		200 ID.	13-1/2	343	Style D	200 ID.	2	50	1 Siyle D	250 lb.
14	350			23-1/2	591	Conquit	Factory	14-1/4	362	Conquit	Footony	3	80	Conquit	Footony		
16	400	33-1/8	841	Consult	raciory	24-1/4	616	Consult	гасіогу	15	381	Consult	Factory	3	80	Consult	Factory

Consult factory for sizes not shown.

Certified dimensional drawings are available upon request.

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

					W	EIGH1	ΓS					
Size 2" 2-1/2" 3" 4" 5" 6" 8" 10" 12" 14" 16												16"
125 lbs		23	33	44	67	88	120	220	353	523	814	1041
kgs		10	15	20	30	40	54	100	160	237	369	472
250 lbs		29	53	65	107	187	224	See Style D 250		250 Ih		
230	kas	13	24	29	49	85	102		000 0	tyle D 2	200 10.	

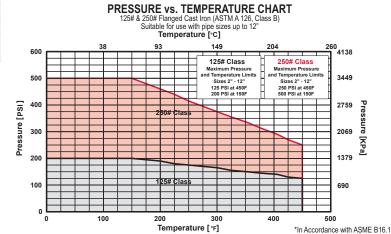
FLOW COEFFICIENTS

Size	C _v	Size	C _v	Size	C _v	Size	C _v
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.



KECKLEY COMPANY



PRESSURE DROP CHART

 $Basket\ Strainers\ (\text{Styles}\ \text{GFV},\ \text{HLC},\ \text{BGFV},\ \text{SGFV-K},\ \text{SSGFV},\ \text{and}\ \text{SSGFV-K})$

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".

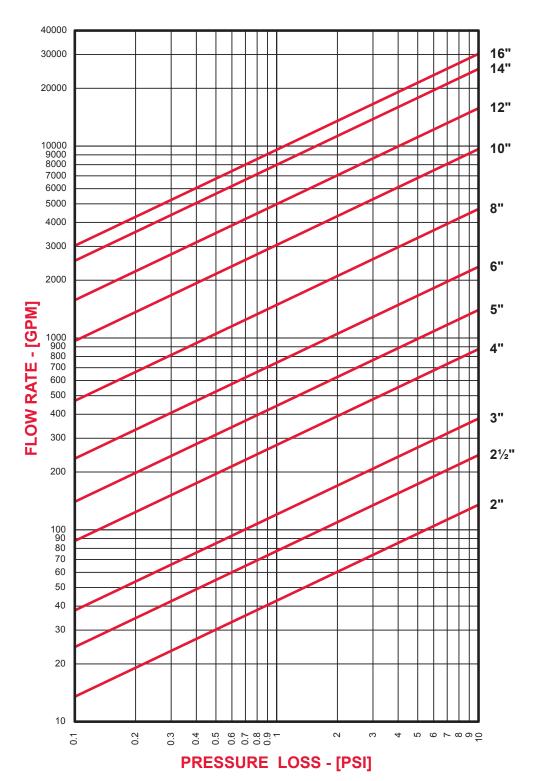
TO USE CHARTS:

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.

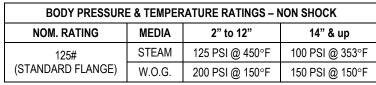
CORRECTION FACTORS:

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



KECKLEY COMPANY B29



		PARTS LIST							
ITEM	DESCRIPTION	MATERIAL							
1	BODY	CAST IRON (ASTM A 126, CLASS B)							
2	BASKET	STAINLESS STEEL (304)							
3	GASKET	COMPOSITION							
4	COVER	CAST IRON (ASTM A 126, CLASS B)							
5	PIPE PLUG	MALLEABLE IRON							
6	HEX HEAD CAP SCREW	STEEL							

p า		SIZE		DIMENSI	ONS (in)		co	VER	WEIGHT
	Product Number†	U.LL	Α	В	С	Е	No. of Bolts	Size of Bolts	(lbs)
	21FFS-CI125P34-FB	2	8	6	3-1/2	3/4	4	5/8-11 x 1-1/2	23
	21/21FFS-CI125P34-FB	2-1/2	8-1/4	7	3-3/4	3/4	4	5/8-11 x 1-1/2	33
	31FFS-CI125P34-FB	3	9-3/4	8-1/4	4-1/4	3/4	4	5/8-11 x 1-1/2	44
١	41FFS-CI125P34-FB	4	11-1/2	9	4-3/4	1	8	5/8-11 x 1-3/4	67
П	51FFS-CI125P34-FB	5	13-1/8	9-3/4	6	1	8	3/4-10 x 1-3/4	88
П	61FFS-CI125P34-FB	6	14-3/4	10-1/2	6-1/4	1	8	3/4-10 x 1-3/4	12
П	81FFS-CI125P34-FB	8	18-1/2	12-3/4	9	1-1/2	8	3/4-10 x 2	220
П	101FFS-CI125P34-FB	10	20-1/8	14-3/4	10-3/4	1-1/2	12	7/8-9 x 2-1/4	353
	121FFS-CI125P34-FB	12	26-1/4	17-1/2	13-1/2	2	12	7/8-9 x 2-1/2	523
	141FFS-CI125P34-FB	14	30-1/4	23-1/4	14-1/4	3	16	7/8-9 x 2-1/2	814
	161FFS-CI125P34-FB	16	33-1/8	24-1/4	15	3	16	7/8-9 x 2-1/2	1041

†See "Style GFV Product Number Configuration" for additional options.

	(1) (6) (4)	3
C		
B		
	→ A — E	Sizes 8" and up have side drain blow-off hole.

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STANDARD SCREENS SUPPLIED

SIZE			SCREEN PE	RFORATION			
SIZE	SCREEN	FOR STEAM	OPEN	FOR LIQUID	OPEN		
in	GAGE	in	AREA	in	AREA		
2 to 3	28	1/16	30%	1/8	43%		
4 to 16	24 – 20	1/8	43%	1/8	43%		

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

		DRAWING NO.
KKECK	LEY	AL 73188
DIMENSIONAL ASSE	EMBLY	PART NO.
125# Flange Style GFV	Cast Iron	SCALE: NTS
Basket Strainer w/ 304	ss screen	DATE: 07/01/2011
MAT'L:	REQ	DR. BY DSF

HOW TO ORDER

STYLE GFV PRODUCT NUMBERS

Below Is An Example Of Building A Part Number For Ordering A Strainer

Size	Pressure Class	End Conn.	Strainer Type		Body Material	Perf Or Mesh	Screen Type	Screen Material		Gasket Type	Cover Conn.	Origin	Style
8	3	RF	S	-	CI	125	Р	34	-	F	В	I	GFV

Description: 8" 250 lb. Flanged Basket Strainer, Cast Iron Body, 1/6" Perforated 304ss screen, Fiber Gasket, Bolted Cover, Import, GFV.

S	İ	Z	e

Pressure Class

ı	Ordering	ASME
	Number	Pressure Class
	1	125 Lb.
	3	250 Lb.

End Connection

Ordering	End	
Number	Connection	
FF†	Flat Faced Flange	
RF*	Raised Face Flange	

†Available in 125 Lb. Class only. *Available in 250 Lb. Class only.

Strainer Type

Ordering Number	Strainer Type
S	Simplex Basket Strainer

Body Material

Ordering Number	Body Material
CI	Cast Iron (ASTM A 126, Class B)

Perf or Mesh

Ordering	Perf. or
Number	Mesh
033	1/32"
045	3/64"
062	1/16"
094	3/32"
125	1/8"
156	5/32"
188	3/16"
250	1/4"
375	3/8"
500	1/2"
750	3/4"
M20	20 Mesh
M30	30 Mesh
M40	40 Mesh
M50	50 Mesh
M60	60 Mesh
M80	80 Mesh
M100	100 Mesh
M150	150 Mesh
M200	200 Mesh
M300	300 Mesh
Χ	Special

Screen Type

Ordering Number	Screen Type
Р	Perforated
M	Mesh
L	Perforated with Mesh Lining
S	Perforated with Mesh Lined Start Up
Χ	Special

Screen Material

Ordering Number	Screen Material
34	Type 304 Stainless Steel
36	Type 316 Stainless Steel
BR	Brass
ML	Monel
TI	Titanium
HC	Hastelloy C276
DS	Duplex Stainless Steel
Х	Special

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Gasket Type

Ordering Number	Gasket Type	
F	Fiber	
В	Buna	
V	Viton	
Р	PTFE	
Х	Special	

Cover Connection

Ordering Number	Cover Connection
В	Bolted

Origin

Country Code	Origin
В	Domestic (Buy American)
	Import