KECKLEY

Style GFVK

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

Cast Iron Basket Strainer

APPLICATIONS

The Keckley Style GFVK is designed for liquid service where a quick open cover and protection from foreign matter in pipelines is required.

CONSTRUCTION

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

FEATURES

The Keckley Style GFVK strainers feature a basket with an angular cutaway design to allow straight through flow and extremely low pressure loss. All sizes have a quick opening clamped cover for ease in basket removal. The Style GFVK has an o-ring that is compressed between the body and cover for a positive shut off and to maximize durability. Keckley Style GFVK 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.

CLEANING

Cleaning of the Style GFVK 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
125# (Flanged)	W.O.G.	200 PSI @ 100ºF	1379 KPa @ 38ºC

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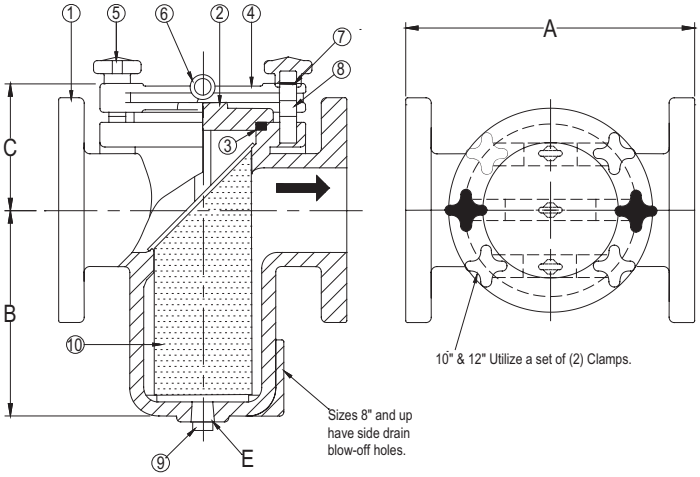
TECHNICAL DATA
DIMENSIONS AND WEIGHTS

Style GFVK

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



PARTS LIST		
ITEM	DESCRIPTION	MATERIAL
1	Body	Cast Iron (ASTM A 126, Class B)
2	Cover	Cast Ductile Iron (ASTM A 536, Grade 65-45-12)
3	O-ring	Nitrile
4	Clamp	Cast Ductile Iron (ASTM A 536, Grade 65-45-12)
5	Hand Nut	Cast Ductile Iron (ASTM A 536, Grade 65-45-12)
6	Eye Bolt	Carbon Steel (ASTM A 307)
7	Bushing	Stainless Steel (304)
8	Full Bolt	Carbon Steel (ASTM A 307)
9	Pipe Plug	Malleable Iron
10	Basket	Stainless Steel (304)

STANDARD SCREENS SUPPLIED

SIZE		SCREEN PERFORATION FOR LIQUID		OPEN AREA
in	mm	in	mm	
2 to 4	50 to 100	1/16	1.6	30%
5 to 12	125 to 300	1/8	3.2	43%

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

SIZE		DIMENSIONS								WEIGHTS	
		A		B		C		E			
in	mm	in	mm	in	mm	in	mm	in	mm	lbs	kgs
2	50	8	203.2	4-7/8	123	3-3/4	95	3/4	20	27	12
2-1/2	65	8-1/4	209.6	5-13/16	147	3-13/16	97	3/4	20	38	17
3	80	9-3/4	247.7	7-1/8	181	4-3/4	120	3/4	20	49	22
4	100	11-1/2	292.1	8	203	5-3/8	137	1	25	63	28.5
5	125	13-1/8	333.4	8-1/2	216	6-3/4	171	1	25	95	43
6	150	14-3/4	374.7	9-3/8	238	6-15/16	177	1	25	127	57.6
8	200	18-1/2	740	11-1/2	291	9-1/4	235	1-1/2	40	230	104.4
10	250	20-1/8	511.2	13-9/16	344	11	280	1-1/2	40	408	185
12	300	26-1/4	666.8	16-3/16	411	13-3/8	340	2	50	536	243

Certified dimensional drawings are available upon request.
†This table reflects only the nearest metric equivalents.
Face to face values tolerance in compliance with ASME B16.1.

FLOW COEFFICIENTS

Size	C_v	Size	C_v	Size	C_v
2"	42.7	4"	276.7	8"	1486.3
2-1/2"	77.5	5"	442.7	10"	3051.6
3"	120.2	6"	743.1	12"	4980.6

TOTAL SCREEN AREA

Size	(in^2)	Size	(in^2)	Size	(in^2)
2"	23.63	4"	108.51	8"	310.23
2-1/2"	45.23	5"	142.25	10"	456.43
3"	78.11	6"	176.94	12"	690.83

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

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PRESSURE DROP CHART

Basket Strainers (Styles GFV, GFVK, GFVK7, BGFV, SGFV, SGFVK, SSGFV, and 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