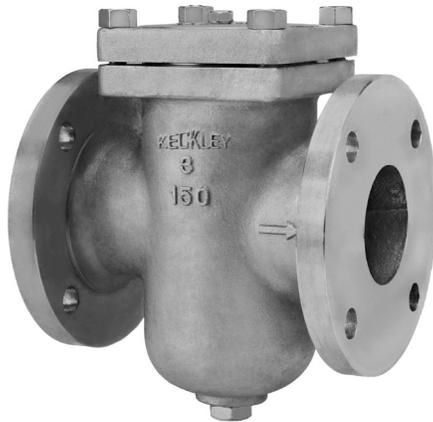


Style BGFV

Basket Strainer

Cast Bronze (ASTM B 62, C83600)

150 lb. & 300 lb. Flanged



Cast Bronze Basket Strainer

APPLICATIONS

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

CONSTRUCTION

The Keckley Style BGFV strainers are constructed from rugged bronze castings that are machined to exacting specifications. These bodies have drilled flanges that are in accordance with ASME B16.24. All flanges come standard with back-faced bolt holes.

FEATURES

The Keckley Style BGFV 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 spiral wound stainless steel and is compressed between the body and cover (for maximum strength and durability) and designed for high pressure and high temperature service. Keckley Style BGFV strainers have hex head cap screws and 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

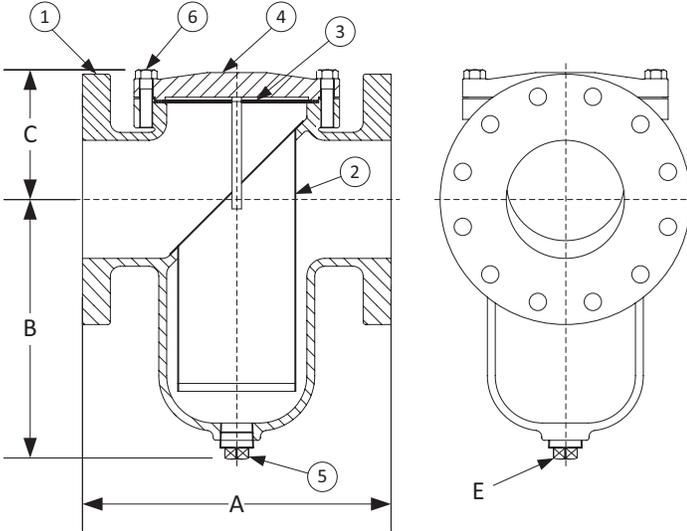
Cleaning of the Style BGFV strainer is accomplished by removing the cover and pulling out the basket. **Warning:** See Maintenance Instructions on page S6 of the Strainer Information Section for additional precautions and detailed information on servicing the strainer.

WORKING PRESSURES - NON SHOCK

NOM. RATING	MEDIA	1-1/2" to 12"	40 mm to 300 mm
150# F.F. & D (STANDARD FLANGE)	STEAM	150 PSI @ 406°F	1035 KPa @ 208°C
	W.O.G.	225 PSI @ 150°F	1552 KPa @ 66°C
NOM. RATING	MEDIA	1-1/2" to 12"	40 mm to 300 mm
300# F.F. & D (EX. HEAVY FLANGE)	STEAM	300 PSI @ 406°F	2069 KPa @ 208°C
	W.O.G.	500 PSI @ 150°F	3449 KPa @ 66°C

Style BGFV

Basket Strainer, 150 lb. & 300 lb. Flanged
Cast Bronze (ASTM B 62, C83600)



PARTS LIST		
ITEM	DESCRIPTION	MATERIAL
1	Body	Cast Bronze (ASTM B 62, C83600)
2	Basket	Stainless Steel (304)
3	Gasket	Spiral Wound Stainless Steel (304)
4	Cover	Cast Bronze (ASTM B 62, C83600)
5	Pipe Plug	Stainless Steel (316)
6	Hex Head Cap Screws	Stainless Steel (316)

STANDARD SCREENS SUPPLIED							
SIZE		SCREEN PERFORATION					
		FOR LIQUID		OPEN AREA	FOR STEAM		OPEN AREA
in	mm	in	mm		in	mm	
1-1/2 to 4	40 to 100	1/16	1.6	30%	3/64	1.2	33%
5 to 12	125 to 300	1/8	3.2	43%	1/16	1.6	30%

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

SIZE		DIMENSIONS															
		A				B				C				E			
		150#		300#		150#		300#		150#		300#		150#		300#	
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
1-1/2	40	6-1/2	165	7	178	1-1/2	38	4	102	4	102	3-3/4	95	1/2	15	1/2	15
2	50	8-1/2	216	8-13/16	224	5-7/8	149	4-3/4	121	4-3/4	121	3-3/4	95	1/2	15	1	25
2-1/2	65	8	203	9	229	5-7/16	138	5-5/8	143	4-1/4	108	4-5/8	117	3/4	20	1	25
3	80	8-3/4	222	10-1/16	256	5-11/16	144	5-11/16	144	5-5/8	143	5-5/8	143	3/4	20	3/4	20
4	100	11-3/16	284	12	305	8-1/4	210	8-1/4	210	6-1/16	154	6-1/16	154	1	25	1	25
5	125	12-1/4	311	13-1/8	333	10-1/4	260	10-1/4	260	5-5/8	143	5-5/8	143	1	25	1	25
6	150	13-7/8	352	15-9/16	395	12-13/64	310	12-13/64	310	6-5/16	149	6-5/16	160	1-1/4	32	1-1/4	32
8	200	17-3/8	441	18-7/8	479	15-9/16	395	15-9/16	395	8-3/16	208	8-3/16	208	1-1/2	40	1-1/4	40
10	250	22	559	21-5/16	541	16	406	14-3/8	365	10-3/8	264	9-7/8	251	1-1/2	40	2	50
12	300	25	635	25-3/8	645	23-3/4	603	23-3/4	603	12-3/8	314	12-3/8	314	2	50	2	50

Consult factory for sizes not shown.

Certified dimensional drawings are available upon request.

†This table reflects only the nearest metric equivalents.

Face to face values tolerance in compliance with ASME B16.24.

WEIGHTS											
Size	1-1/2"	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"	
150	lbs	22	31	34	42	68	115	115	245	399	450
	kgs	10	14	15	19	31	52	52	111	181	204
300	lbs	24	32	42	56	88	126	150	295	420	500
	kgs	11	15	19	25	40	57	68	134	191	227

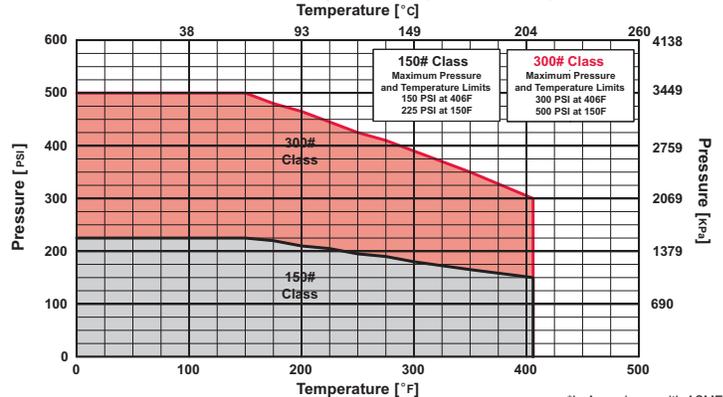
FLOW COEFFICIENTS							
Size	C _v	Size	C _v	Size	C _v	Size	C _v
1-1/2"	32	3"	120.2	6"	743.1	12"	4980.6
2"	42.7	4"	276.7	8"	1486.3		
2-1/2"	84	5"	442.7	10"	3051.6		

TOTAL SCREEN AREA							
Size	(in ²)	Size	(in ²)	Size	(in ²)	Size	(in ²)
1-1/2"	20.10	3"	54.53	6"	215.65	12"	1141.87
2"	53.42	4"	117.94	8"	401.76		
2-1/2"	45.72	5"	129.00	10"	591.73		

*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

150# & 300# Flanged Cast Bronze (ASTM B 62, C83600)



*In Accordance with ASME B16.24



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

