KECKLEY

Style SGFV

Basket Strainer
Carbon Steel (ASTM A 216, Grade WCB)
150 lb. & 300 lb. Flanged

Style SGFVK

Basket Strainer
Carbon Steel (ASTM A 216, Grade WCB)
150 lb. Flanged

Cast Carbon Steel Basket Strainer

APPLICATIONS

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

CONSTRUCTION

The Keckley Style SGFV and SGFVK strainers are constructed from rugged carbon steel castings and are machined to exacting specifications. These bodies have raised faced and drilled flanges that are in accordance with ASME B16.5. All flanges come standard with back-faced bolt holes.

FEATURES

The Keckley Style SGFV and SGFVK strainers feature a basket with an angular cutaway design to allow straight through flow and extremely low pressure loss. The Style SGFV has a bolted top cover flange for ease in basket removal. The Style SGFVK is furnished with studs and knobs for easy cleaning. The Style SGFV gasket is spiral wound 304 stainless steel and is compressed between the body and cover (for maximum strength and durability) and designed for high pressure and high temperature service. The Style SGFVK is furnished with a Buna-N gasket suitable for temperatures up to 200°F. Keckley Style SGFV strainers have carbon steel hex head cap crews 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 SGFV and SGFVK strainers are 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
150# R.F. & D. (STANDARD FLANGE)	BOLTED COVER	STEAM	150 PSI @ 565°F	1035 KPa @ 296°C
		W.O.G.	285 PSI @ 100°F	1966 KPa @ 38°C
	KNOB TYPE COVER	W.O.G.	200 PSI @ 200°F	1379 KPa @ 93°C
NOM. RATING		**MEDIA**	**2" to 12"**	**50 mm to 300 mm**
300# R.F. & D. (EX. HEAVY FLANGE)	BOLTED COVER	STEAM	300 PSI @ 838°F	2069 KPa @ 448°C
		W.O.G.	740 PSI @ 100°F	5104 KPa @ 38°C

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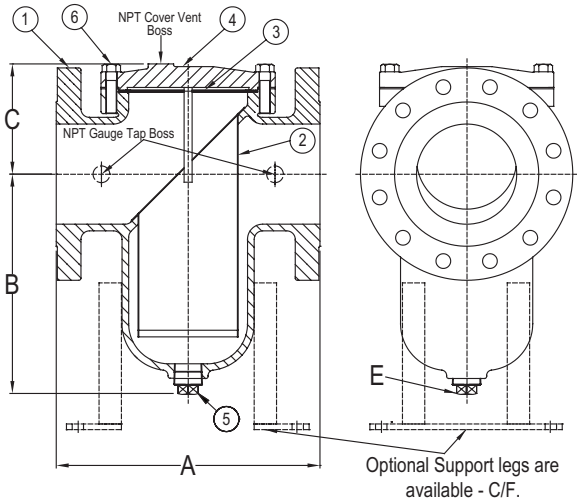
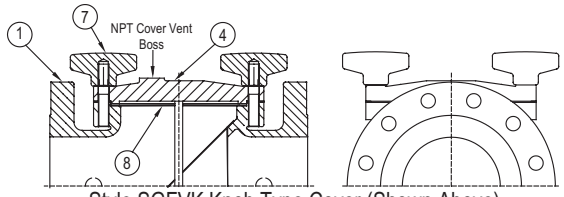
TECHNICAL DATA
DIMENSIONS AND WEIGHTS

Style SGFV & SGFVK

Basket Strainer, Flanged
Carbon Steel (ASTM A 216, Grade WCB)





Style SGFVK Knob Type Cover (Shown Above)
Only Available in 150 lb. Class

PARTS LIST		
ITEM	**DESCRIPTION**	**MATERIAL**
1†	Body	Carbon Steel (ASTM A 216, Grade WCB)
2	Basket	Stainless Steel (304)
3	Gasket	Spiral Wound Stainless Steel (304)
4	Cover	Carbon Steel (ASTM A 216, Grade WCB)
5	Pipe Plug	Carbon Steel (ASTM A 105)
6	Hex Head Cap Screw	Carbon Steel (ASTM A 193, Grade B7)
7*	Knob	Steel
8*	Gasket	Buna-N (Max Temperature 200°F)

*Denotes parts for the Style SGFVK 150 lb. class only.
†Optional Body Materials Available in LCB, WC6, and WC9.

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 14	125 to 350	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	4-1/2	114	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	1-1/2	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
14	350	34-5/16	871	34-5/16	871	28	711	34-3/8	873	16-1/2	419	20-3/16	513	2	50	2	50

†This table reflects only the nearest metric equivalents.
Dimensions and weights are for reference only. When required, request certified drawings.
Face to face values tolerance in compliance with ASME B16.5.

Additional Notes:

- Optional NPT Cover vent is available - C/F.
- Optional NPT Gauge taps are available - C/F.
- Optional Support legs are available - C/F.
- Steam jacketed designs are available - C/F.
- Epoxy coating is available - C/F.
- Designed for horizontal pipelines only.

WEIGHTS

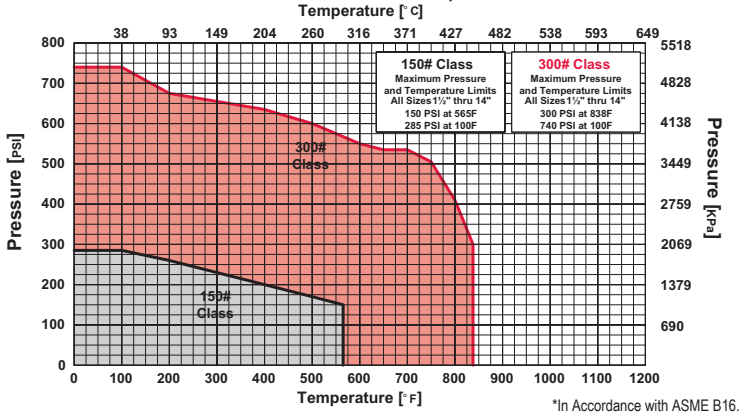
Size		1-1/2"	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"	14"
150	lbs	21	26	29	39	69	79	116	194	324	717	1275
	kgs	10	12	13	18	31	36	53	88	147	325	578
300	lbs	23	32	40	54	99	195	195	333	530	903	1424
	kgs	10	15	18	24	45	88	88	151	240	410	646

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	14"	7600.0
2-1/2"	84	5"	442.7	10"	3051.6		

PRESSURE vs. TEMPERATURE CHART

150# & 300# Flanged Carbon Steel (ASTM A 216, Grade WCB)
For use with Bolted Cover Only



*In Accordance with ASME B16.5

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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