

# KW Series ANSI 125 Class

## SIMPLEX CAST STRAINER HOUSINGS

Cast Iron Body, Bolted or Clamped Cover  
Connection Sizes 2 to 12 inches, FF Flanged Ends

### INTRODUCTION

The KW series, simplex basket strainers in cast iron, are in-line T strainer housings and are commonly installed into pipeline systems to remove debris from the pipeline flow.

These ANSI 125 class strainers have flat faced, flanged inlet and outlet connections, and are available with a clamped style closure or a bolted closure. Housing inlet / outlet sizes range from 2 to 12 inches. Housings are equipped with a standard 1/16" perforated 304 stainless steel basket and plugged bottom drain connection. Larger sizes (8 inch to 12 inch) also feature removable / adjustable leg brackets.

The KW series, simplex basket strainer, with its large body and sizeable wedge style basket, can store large amounts of debris which reduces the amount of change-outs that are necessary. It also features a machined seat with o-ring that enables filtration down to 40 microns.

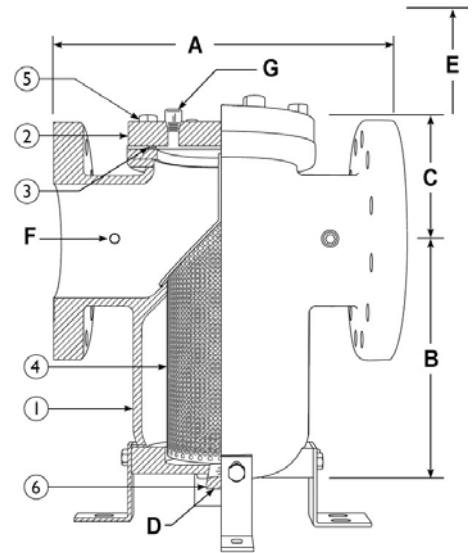
Typical applications include: petroleum, oil and gas, water and wastewater, pulp and paper, chemical and petrochemical, transportation and marine industries.

### FEATURES

- Cast iron body, cover and bottom drain plug
- ANSI class 125 rating with FF flanged connections
- Bolted closure or clamp style closure (photo shows clamp style closure)
- 304 non-asbestos flat gasket standard for bolted cover, Buna-N o-ring standard for clamped cover design
- 1/4 inch NPT cover vent and inlet/outlet gauge taps with plug (on sizes 8" to 12")
- Removable/adjustable leg brackets (on sizes 8" to 12")
- 304 SS perforated basket included as standard
- Variety of basket material, perforations and mesh sizes



## DIMENSIONAL INFORMATION



### Bill of Materials KW Series ANSI 125 Class

No.	Part	Bolted Cover Housing	Clamped Cover Housing
1	Body	Cast iron ASTM A126 Gr. B	Cast iron ASTM A126 Gr. B
2	Cover	Cast iron ASTM A126 Gr. B	Cast iron ASTM A126 Gr. B
3	Cover Gasket	Non-asbestos flat gasket	Buna-N
4	Basket Strainer	304 Stainless steel (other materials available)	304 Stainless steel (other materials available)
5	Cap screws	Carbon steel	Carbon steel
6	Plugs (boss/drain)	Cast iron	Cast iron

Dimensional Data	2	2 1/2	3	4	6	8	10	12
<b>A</b> Face to Face (+/- 0.12")	8.625	7.562	8.75	11.25	14	17.125	22	25.25
<b>B</b> Center Line to Bottom	5.875	5.438	5.25	7.875	8.0	11	16	23.75
<b>C</b> Center Line to Top	4.375	3.75	5.125	5.375	7.0	8	9.25	11.625
<b>D</b> NPT Blow-Off Drain	0.5	0.75	0.75	1.0	1.25	1.50	1.50	2.0
<b>E</b> Clearance Needed for Screen Removal	10.88	10.88	11.25	15.5	18.25	23.38	29	37.5
<b>F</b> NPT Gauge Taps	n/a	n/a	n/a	n/a	n/a	0.25	0.25	0.25
<b>G</b> NPT Cover Vent	n/a	n/a	n/a	n/a	n/a	0.25	0.25	0.25
<b>Assembled Weight</b> Bolted cover approx. (lbs.)	27	30	40	64	142	244	416	732
<b>Assembled Weight</b> Clamped Approx. (lbs.)	28.4	31.5	42	62	142	256.2	436.8	732
<b>Flow Coefficient</b> (Cv)	43	86	135	290	780	1600	3250	5200

#### Notes:

- Bill of materials represents standard materials. Optional materials may be available for some parts.
- Dimension B: Centerline to bottom drain boss, does not include plug or support legs. Removable/adjustable legs can extend the length approx. 3 to 5 inches beyond bottom boss drain.
- Dimension F: Gauge taps are standard on sizes 8 to 12 inches only.
- Dimension G: Plugged 1/4" cover vent is standard on sizes 8 to 12 inches only.

Dimensions in inches except where noted. Due to our continuing program of product improvement, specifications are for reference only and subject to change without notice. Dimensions are approximate values and not intended for piping specifications. Connection sizes from 2 to 12 inches, FF flanged ends.

## ADDITIONAL INFORMATION

KW Series ANSI Class 125	Working Pressures & Temperatures (non-shock)	
	KW Series Bolted Cover (A126 Gr. B cast iron)	KW Series Clamped Cover (A126 Gr. B cast iron)
W.O.G. (Water, Oil, Gas)	200 psi at 150 °F	200 psi at 100 °F
Saturated Steam	125 psi at 353 °F	Not recommended
Maximum Liquid	125 psi at 450 °F	Not recommended

Inlet/Outlet Sizes	Standard Screen Selections			
	Liquid Service	Open Area	Steam	Open Area
2" to 4"	1/16 (0.0625)	41%	3/64 (0.045)	36%
5" to 12"	1/16 (0.0625)	40%	3/64 (0.045)	36%

## TYPICAL MODEL NUMBER

K	W	I	12	F	12	F	B	
Jonell Systems Basket Strainer Series	Cast Type	Body Material	Pressure Rating	Connection Type	Connection Size	Seal Material	Closure Type	
K = Strainer Series	S = Simplex wedge style basket	I = Cast Iron	12 = 125 psi	F = Flanged	2 = 2" L = 2½" 3 = 3" 4 = 4"	6 = 6" 8 = 8" 10 = 10" 12 = 12"	F = Flat Gasket (standard for bolted cover) N = Buna-N (standard for clamped cover)	B = Bolted Flange C = Clamped style