

# KW Series ANSI 300 Class

## SIMPLEX CAST STRAINER HOUSINGS

RF Flanged ends

Connection sizes 2 to 12 inches

### INTRODUCTION

The KW series, cast stainless steel or carbon steel, ANSI 300 class simplex strainer housings effectively remove dirt, pipe scale, and other contaminants from process liquids such as water, chemical and petroleum products in many industrial filtration applications.

These ANSI class 300 strainers have raised face, flanged ends with sizes available from 2 to 12 inches. Standard housing material is either 316 stainless steel or carbon steel. Housings come equipped with a heavy duty, perforated 304 stainless steel basket. Custom perforation sizes or mesh lined baskets are also available. Models are furnished with gauge taps with plugs on both the inlet and outlet sides. Gauge taps allow for easy installation of pressure gauges to monitor differential pressure which help to determine when basket cleaning is necessary. The straight flow path and slanted design of the straining basket minimize the pressure loss.

Typical markets include waste water, pulp and paper, petrochemical, petroleum, oil and gas, transportation, marine industry and food industry.

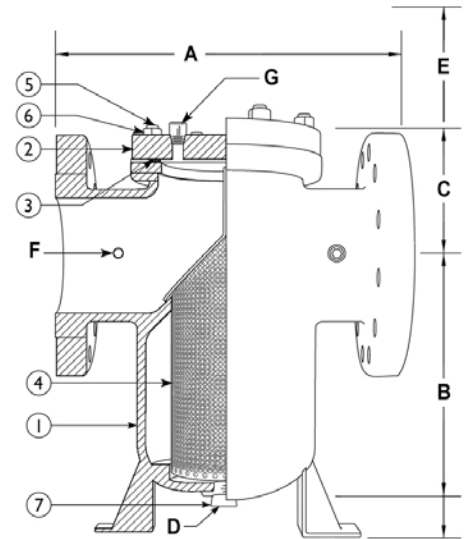
These KW series ANSI 300 strainers are ideal for many industrial and petrochemical filter applications that have higher pressure and temperature requirements.

### FEATURES

- Cast carbon steel or 316 stainless steel bodies
- ANSI 300 class rated RF flanges
- Gauge taps with plugs are standard on all models
- 304 non-asbestos flat gasket seal standard, (other materials available)
- Bolted flange closure is standard, (optional cover designs are available)
- Adjustable, removable support legs are provided on sizes 4" and larger
- Tapped NPT blow-off with plug
- 304 stainless steel perforated basket included as standard (optional materials of construction available)
- Large basket area with ability to collect substantial amounts of debris



## DIMENSIONAL INFORMATION



### Bill of Materials KW Series ANSI 300 Class

No.	Part	Carbon Steel Housing	Stainless Steel Housing
1	Body	Carbon steel A216 Gr. WCB	Stainless steel A351 Gr. CF8M
2	Cover	Carbon steel A216 Gr. WCB	Stainless steel A351 Gr. CF8M
3	Cover Gasket	Stainless steel spiral wound	Stainless steel spiral wound
4	Straining Element	304 Stainless steel	304 Stainless steel
5	Studs	Alloy steel A193-B7	Stainless steel 18-8 series 300
6	Nuts	Carbon steel A194-2H	Stainless steel 18-8 series 300
7	Blow-off plug NPT	Carbon Steel	Stainless Steel

Dimensional Data	2	2 1/2	3	4	6	8	10	12
<b>A</b> Face to Face (+/- 0.12")	8.50	8.687	9.562	11.875	14.75	18.125	22.875	25.375
<b>B</b> Center Line to Bottom	6.125	6.25	8.0	CF	CF	15.625	16.515	24.575
<b>C</b> Center Line to Top	CF	5.453	6.079	CF	CF	CF	CF	11.703
<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	9.0	10	10	10	20	20	26	35
<b>F</b> NPT Gauge Taps	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
<b>G</b> NPT Cover Vent	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
<b>Assembled Weight</b> approx. (lbs.)	40	63	63	108	200	342	542	CF
<b>Flow Coefficient (Cv)</b>	43	86	135	290	780	1600	3250	5200

#### Notes:

- CF = Contact Factory for further information.

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. When required, please request a certified drawing. Connection sizes from 2 to 12 inches, flanged ends, raised face.

## ADDITIONAL INFORMATION

KW Series ANSI Class 300	Working Pressures & Temperatures (non-shock)	
	KW Series Carbon Steel (A216 Gr. WCB)	KW Series 316 Stainless Steel (A351 Gr. CF8M)
W.O.G. (Water, Oil, Gas)	740 psi at 100 °F	720 psi at 100 °F
Saturated Steam	300 psi at 420 °F	300 psi at 420 °F
Maximum Liquid	400 psi at 800 °F	350 psi at 1000 °F

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%	30 mesh	44.8%

## TYPICAL MODEL NUMBER

K	W	S	30	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	W = Simplex wedge style basket	S = 316 Stainless steel C = Carbon Steel	30 = 300 psi	F = Flanged raised face	2 = 2" L = 2 1/2" 3 = 3" 4 = 4" 6 = 6" 8 = 8" 10 = 10" 12 = 12"	F = Flat Gasket (standard) N = Buna-N V = Viton	B = Bolted Flange