

KW Series ANSI 150 Class

SIMPLEX CAST STRAINER HOUSINGS

RF Flanged Ends

Connection sizes 2 to 12 inches

INTRODUCTION

The KW series, ANSI 150 class, simplex cast basket strainers are available in 316 stainless steel or carbon steel. These in-line strainer housings have a wedge cut designed strainer basket. Baskets are 1/16" perforated 304 stainless steel as standard, with other options available.

These ANSI 150 class strainers have flanged (RF) end connections, with inlet / outlet connection sizes available from 2 to 12 inches.

The KW series, simplex cast basket strainer, with its large body and sizeable basket, can store large amounts of debris which increases the time between servicing. 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, marine, and food industries.

These KW series ANSI 150 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 150 class rated RF flanges
- 304 SS or Buna-N flat gasket (other materials available)
- Bolted flange closure is standard (Quick opening clamp closure also available)
- 304 SS perforated basket included as standard. (optional materials of construction, basket perforation and mesh sizes are available)
- Plugged cover vent 1/4" NPT provided on all sizes
- Plugged 1/4" NPT gauge taps (inlet and outlet) on sizes 6" and larger
- Cast support legs are provided on sizes 6" and larger
- Designed for horizontal pipelines only
- Stainless steel temperatures to 1000 °F for food, chemical and pharmaceutical industries.*
- Carbon steel temperatures to 800 °F especially suitable for oil and petrochemical industries.*

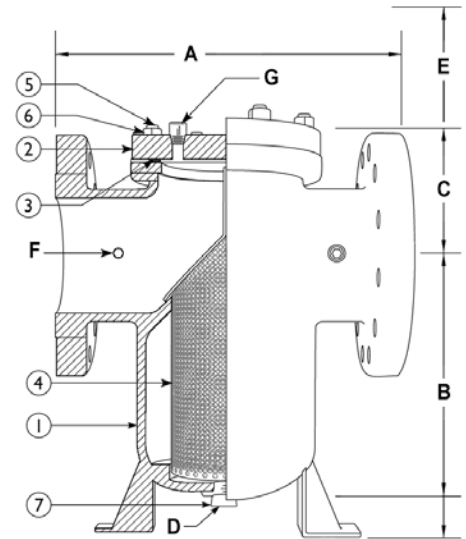
(* When used with correct cover gasket material.)



DIMENSIONAL INFORMATION

Bill of Materials KW Series ANSI 150 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	Bolted cover: Stainless flat gasket Clamp cover: Buna-N o-ring	Bolted cover: Stainless flat gasket Clamp cover: Buna-N o-ring
4	Basket Strainer	304 Stainless steel (other materials available)	304 Stainless steel (other materials available)
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
A Face to Face (+/- 0.12")	8.5	8.0	8.75	11.187	13.875	17.375	22	26.25
B Center Line to Bottom	5.875	5.437	5.25	7.875	13.125	16.375	19.375	23.75
C Center Line to Top	5.0	4.75	5.5	6.125	6.75	8.875	10.75	13.75
D NPT Blow-Off Drain	0.5	0.75	0.75	1.0	1.25	1.50	1.50	2.0
E Clearance Needed for Screen Removal	10.88	10.2	10.75	14	19.88	25.25	30.2	37.5
F NPT Gauge Taps	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
G NPT Cover Vent	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Assembled Weight approx. (lbs.)	27	33	38	64	128	227	362	487
Flow Coefficient (Cv)	43	86	135	290	780	1600	3250	5200

Notes:

- Bill of materials represents standard materials. Optional materials may be available for most parts.
- Dimension B - Centerline to bottom: 2" to 5" is to bottom of boss drain. 6" to 12" is to bottom of support leg.
- Dimension G: Plugged 1/4" cover vent is provided on all sizes.

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, RF flanged ends.

ADDITIONAL INFORMATION

Working Pressures & Temperatures (non-shock)		
KW Series ANSI Class 150	KW Series Carbon Steel (A216 Gr. WCB)	KW Series Stainless Steel (A351 Gr. CF8M)
W.O.G. (Water, Oil, Gas)	285 psi at 100 °F	275 psi at 100 °F
Saturated Steam	150 psi at 366 °F	150 psi at 366 °F
Maximum Liquid	80 psi at 800 °F	20 psi at 1000 °F

Standard Screen Selections				
Inlet/Outlet Sizes	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	15	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	15 = 150 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 for bolted cover) N = Buna-N (standard for clamped cover) V = Viton	B = Bolted Flange C = Clamped style