

KS Series ANSI 150/300 Class

SIMPLEX CAST BASKET STRAINERS

Sizes 1" to 8" Flanged, 3/8" to 3" NPT

INTRODUCTION

The KS series, simplex basket strainers in cast 316 stainless steel or carbon steel, are in-line T-strainer housings and are commonly installed into pipeline systems to remove debris from the pipeline flow. Basket strainers are commonly used in pipelines where debris loading is high and the collection of solids is required. Straining is achieved by using a perforated or mesh lined straining basket, inside the strainer housing. It is important to note that the proper size of a basket strainer is determined by its job function, not by the size of the pipeline.

These ANSI class 150 or 300 strainers are available with NPT threaded or flanged (RF) end connections, with inlet & outlet sizes available from 3/8 to 8 inches. NPT connections can also be rated for ANSI 300 class service. Housings come equipped with a standard 1/16" perforated 304 stainless steel basket and 1/4" NPT vent. The KS series, simplex basket strainer, with its large body and sizeable basket, can store large amounts of debris which increases the time between servicing. Housings have a machined seat with o-ring that allows fine filtration, down to 40 microns, by preventing debris bypass.

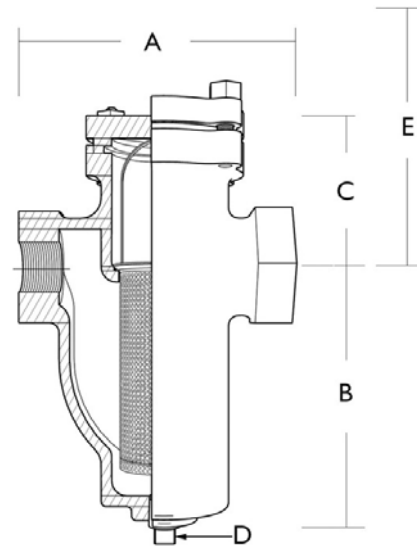
Typical applications include: petroleum, oil and gas, water and wastewater, pulp and paper, chemical and petrochemical, transportation, marine, and food industries.

FEATURES

- Cast carbon steel or 316 stainless steel construction
- ANSI class 300 rating with NPT connections
- ANSI class 150 Rating with NPT or flanged connections
- 304 non-asbestos flat closure gasket as standard (Other materials available)
- Viton or Buna basket seat o-ring
- Bolted flange closure standard
- 1/4 inch NPT vent with plug
- 304 SS perforated basket included as standard
- Variety of basket material, perforation and mesh sizes



DIMENSIONAL INFORMATION



Standard Screen Selections				
Inlet/Outlet Sizes	Liquid Service	Open Area	Steam	Open Area
3/8" to 2"	1/16 (0.0625)	41%	1/32 (0.033)	28%
2 1/2" to 8"	1/16 (0.0625)	41%	3/64 (0.045)	36%

Dimensional Data	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	6	8
A Face to Face (+/- 1/16") Threaded	4.6	4.6	4.6	5.3	6.3	6.3	8.3	11.3	11.3	n/a	n/a	n/a
A Face to Face (+/- 1/16") Flanged	n/a	n/a	n/a	5.7	n/a	7.0	9.0	10.4	11.8	15	20.3	27.4
B Center Line to Bottom - Threaded	4.0	4.0	4.0	4.7	6.5	6.5	7.9	8.8	11.4	n/a	n/a	n/a
B Center Line to Bottom - Flanged	n/a	n/a	n/a	4.7	n/a	6.5	8.0	8.8	11.5	13.8	20	24.3
C Center Line to Top - Threaded	2.5	2.5	2.5	2.75	3.0	3.0	3.7	4.0	4.5	n/a	n/a	n/a
C Center Line to Top - Flanged	n/a	n/a	n/a	3.0	n/a	3.0	3.8	4.0	4.8	6.2	7.9	10.5
D NPT Blow-Off (Both)	3/8	3/8	3/8	3/8	1/2	1/2	3/4	1.0	1.0	2.0	2.0	2.0
E Clearance Needed for Basket Removal	5.0	5.0	5.0	5.9	8.13	8.2	10.2	11.9	14.8	20	29.2	37.2
Assembled Weight Threaded Approx. (lbs.)	6.0	6.0	6.0	8.0	16	16	25.5	49	51	n/a	n/a	n/a
Assembled Weight Flanged Approx. (lbs.)	n/a	n/a	n/a	11	n/a	19.5	31.5	44.5	65.5	118	266	518
Flow Coefficient (Cv)	14	14	14	24	43	43	70	90	140	290	780	1600

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. Illustration shows threaded end connection unit only. Table contains dimensions for both threaded and flanged type units. Threaded (NPT) End Sizes: 3/8" to 3". Raised Face Flanged End Sizes: 1" to 8".

ADDITIONAL INFORMATION

ANSI Class 150 Strainers Working Pressures & Temperatures (non-shock)		
ANSI Class 150	KS Series Carbon Steel (A216 Gr WCB)	KS Series 316 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

ANSI Class 300 Strainers Working Pressures & Temperatures (non-shock)		
ANSI Class 300	KS Series Carbon Steel (A216 Gr WCB)	KS 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

TYPICAL MODEL NUMBER

K	S	S	15	F	2	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 style strainer	S = Stainless Steel C = Carbon Steel	15 = 150 psi 30 = 300 psi	N = NPT threaded F = Flanged	F = 3/8" L = 2 1/2" G = 1/2" 3 = 3" H = 3/4" 4 = 4" 1 = 1" 6 = 6" K = 1 1/2" 8 = 8" 2 = 2"	F = Flat Gasket N = Buna-N (standard) V = Viton	B = Bolted Flange