

# MAHLE

Industry

## Simplex Cast Strainer Housings Nowata KW Series ANSI 125 Class

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

## *Request a Quote Today!*

### 1. 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



## 2. Dimensions

Dimensional Data	Inlet and Outlet Size							
	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	8.0	9.25	11.625
<b>D</b> NPT Blow-Off Drain	0.50	0.75	0.75	1.0	1.25	1.50	1.50	2.0
<b>E</b> Clearance 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> <b>Bolted Cover</b> approx. (lbs.)	27	30	40	64	142	244	416	732
<b>Assembled Weight</b> <b>Clamped Cover</b> 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

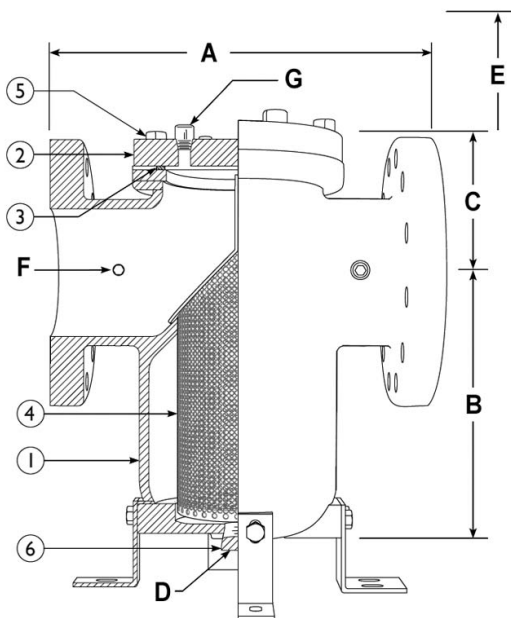
Values are in inches, except where noted. Housing dimensions, weights and flow coefficients are approximate values, for reference only and subject to change without notice. When required, please request a certified drawing. Connection sizes from 2 to 12 inches, FF flanged ends.

**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.



Bill of Materials KW Series ANSI 125 Class			
No.	Part	Bolted Cover Housing	Clamped Cover Housing
1	Body	Cast iron ASTM A126 Gr. B	
2	Cover	Cast iron ASTM A126 Gr. B	
3	Cover gasket	Non-asbestos flat gasket	Buna-N o-ring
4	Basket strainer	304 Stainless steel (other materials available)	
5	Cap screws	Carbon steel	
6	Plugs (boss/drain)	Cast iron	

### 3. Additional Information

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

Standard Screen Selections				
I/O Sizes	Liquid	Open Area	Steam	Open Area
2" - 4"	1/16 (0.062)	41%	3/64 (0.045)	36%
5" - 12"	1/8 (0.125)	40%	3/64 (0.045)	36%

I/O = Standard inlet and outlet sizes

Pressure ratings and temperatures are theoretical and subject to variation during actual operating conditions.

### 4. Typical Model Number

Example

	<b>K</b>		<b>W</b>		<b>I</b>		<b>12</b>		<b>F</b>		<b>12</b>		<b>F</b>		<b>B</b>
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**Nowata Strainer**  
K = Nowata strainer

**Cast Type**  
W = Simplex wedge style basket

**Body Material**  
I = Cast iron

**Pressure rating**  
12 = 125 psi

**Connection Type**  
F = Flanged

**Connection Size Options**

2 = 2"	6 = 6"
L = 2-1/2"	8 = 8"
3 = 3"	10 = 10"
4 = 4"	12 = 12"

**Seal Material**  
F = Flat gasket (standard for bolted cover)  
N = Buna-N (standard for clamped cover)

**Closure Type**  
B = Bolted flange  
C = Clamped style



Authorized MAHLE-Nowata Distributor & Representative

For pricing and information please call  
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