

# MAHLE

Industry

## Simplex Cast Iron Strainer Housings Nowata KS Series ANSI 125 Class

Flanged (FF) or NPT Threaded Connections  
Sizes 1" to 8" Flanged, 3/8" to 3" NPT

### **Request a Quote Today!**

#### 1. Introduction

The KS series, ANSI 125 class, Simplex basket strainers in cast iron, are in-line T strainer housings and are commonly installed into pipeline systems 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 125 cast iron strainers are available with either NPT threaded connections from 3/8" to 3" or flanged (flat-faced) end connections with inlet & outlet sizes available from 1" to 8".

Both models are epoxy painted and have, as standard, plugged bottom drain connections. Housings come equipped with a high straining capacity, perforated 304 stainless steel basket.

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

#### Features

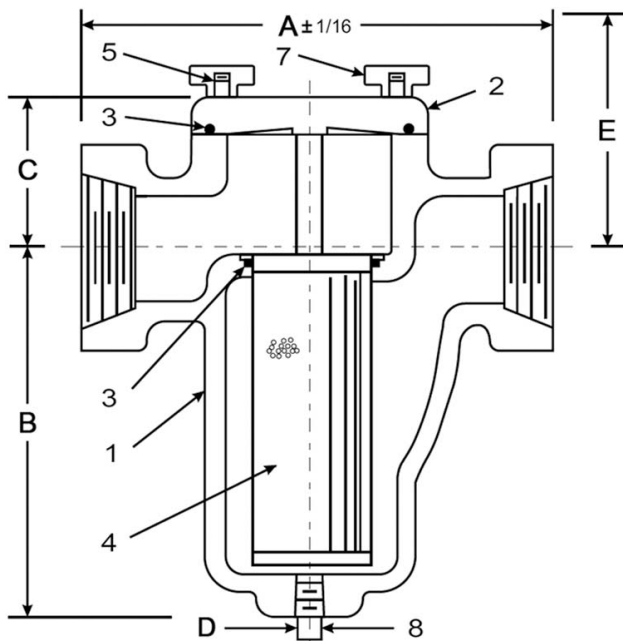
- ASTM A126 Grade B cast iron body and cover
- Quick opening cover (knob type, as shown) is standard and a full ANSI rated bolted cover is also available
- Threaded end connection sizes: 3/8" to 3" or flanged sizes: 1" to 8"
- Both cover and basket seat o-rings are Buna-N, (other materials available)
- 304 stainless perforated basket included as standard
- Variety of basket material, perforation and mesh sizes
- Bottom drain / blow-off connection and safety vent in cover are furnished with steel plug, as standard
- Carbon steel and stainless steel units are also available



## 2. Dimensions

Dimensional Data	Inlet and Outlet Size										
	3/8	1/2	3/4	1	1-1/2	2	2-1/2	3	4	6	8
<b>A</b> Face to Face - Threaded	4.562	4.562	4.562	5.312	6.312	8.25	9.625	11.25	n/a	n/a	n/a
<b>A</b> Face to Face - Flanged	n/a	n/a	n/a	5.687	7.0	9.0	10.44	11.75	15	20.25	27.375
<b>B</b> Center Line to Bottom - Threaded	4.0	4.0	4.0	4.687	6.50	7.875	8.75	11.375	n/a	n/a	n/a
<b>B</b> Center Line to Bottom - Flanged	n/a	n/a	n/a	4.687	6.50	8.0	8.75	11.50	13.75	20	24.24
<b>C</b> Center Line to Top - Threaded	2.50	2.50	2.50	2.75	3.0	3.625	4.0	4.50	n/a	n/a	n/a
<b>C</b> Center Line to Top - Flanged	n/a	n/a	n/a	3.0	3.0	3.75	4.0	4.75	6.18	7.88	10.55
<b>D</b> NPT Plug/Blow-Off (Both)	3/8	3/8	3/8	3/8	1/2	3/4	1.0	1.0	2.0	2.0	2.0
<b>E</b> Clearance Needed for Basket Removal (Both)	4.82	4.82	4.82	5.88	8.2	10.2	11.88	14.82	19.88	29.2	37.2
<b>Assembled Weight</b> Threaded Approx. (lbs.)	5.5	5.5	5.5	8.0	14	27	36	55.5	n/a	n/a	n/a
<b>Assembled Weight</b> Flanged Approx. (lbs.)	n/a	n/a	n/a	11.5	21	34	48.5	64	118	266	215
<b>Flow Coefficient</b> (Cv)	14	14	14	24	43	70	90	140	290	780	1600

All dimensions are in inches, except where noted. Strainer values are approximate and are not intended for piping specifications. Illustration refers to quick open cover with flanges ends only. Optional bolted cover and NPT end connections not shown. Certified drawings available upon request.



Bill of Materials ANSI 125 Cast Iron Strainers		
No.	Part	Material
1	Body	ASTM A126 Gr. B cast iron
2	Cap/cover	ASTM A126 Gr. B cast iron
3	O-ring/gasket	Buna-N
4	Basket strainer	304 Stainless steel
5	Studs	Alloy steel
6	Nuts (not shown)	Carbon steel
7	Knobs	Ductile steel
8	Bottom drain plug	Carbon steel

Bill of Materials represents standard materials. Equivalent or better materials may be substituted at the manufacturer's discretion. Nuts (Part No. 6) only applies to non-standard bolted covers which are not shown.

### 3. Additional Information

Working Pressures & Temperatures (non-shock)	
<b>KS Series</b> ANSI Class 125	<b>Cast Iron</b> (ASTM A126 Gr. B)
<b>W.O.G.</b> (Water, Oil, Gas)	200 psi at 100 °F
<b>Saturated Steam</b>	Not recommended
<b>Maximum Liquid</b>	Not recommended

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 4"	1/16 (0.0625)	41 %	3/64 (0.045)	36 %
5" to 8"	1/8 (0.125)	40 %	3/64 (0.045)	36 %

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

### 4. Typical Model Number

Example

	<b>K</b>		<b>S</b>		<b>I</b>	<b>12</b>		<b>N</b>	<b>3</b>		<b>F</b>	<b>B</b>
<b>Nowata Strainer</b>												
K = Nowata strainer												
<b>Cast Type</b>												
S = Simplex style strainer												
<b>Body Material</b>												
I = Cast iron												
<b>Pressure rating</b>												
12 = 125 psi												
<b>Connection Type</b>												
N = NPT threaded												
<b>Connection Size Options</b>												
F = 3/8"                      L = 2-1/2"												
G = 1/2"                      3 = 3"												
H = 3/4"                      4 = 4"												
I = 1"                            6 = 6"												
K = 1-1/2"                    8 = 8"												
2 = 2"												
<b>Seal Material</b>												
F = Flat gasket												
N = Buna-N (standard)												
V = Viton												
<b>Closure Type</b>												
B = Bolted flange												
Q = Quick opening												



Authorized MAHLE-Nowata Distributor & Representative

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