Model 8 Basket Strainer and Bag Filters

Strainers or bag filters: Your choice!

Model 8 strainer/filter housings are made in 2 sizes and 2 pressure ratings, and can serve as basket strainers (for particle retention down to 74 micron size) or as bag filters (for particle retention down to 1 micron size). In all cases, covers are easily removed, without tools, and the basket or bag is easily cleaned or replaced.

Features

- NSF 61 listed
- Low pressure drops
- Permanently piped housings
- Covers are O-ring sealed
- Carbon steel, or stainless steel (304 or 316) construction for housings
- All housings are electropolished to resist adhesion of dirt and scale
- Easy to clean!
- Adjustable-height legs, standard
- Large-area, heavy-duty baskets
- O-ring seals: Buna N, EPR, Viton®, Teflon®
- ASME code stamp available
- Two pressure ratings: 150 and 300
- Duplex units are available
- Pipe sizes 3/4 thru 6-inch, NPT or flanged
- Two basket depths: 15 or 30 inches (nominal)

Options

- Sanitary construction
- Different outlet connections
- Higher pressure ratings
- Extra-length legs
- Heat jacketing
- Adapters for holding filter cartridges.
- Liquid displacers for easier servicing
- Can be fitted with an adapter to hold cartridge filter elements

NSF®

Certified to NSF/ANSI 61

Choosing A Basket Strainer Or Bag Filter

Choose between straining (removing particles down to 74 micron size) or filtering a fluid (removing particles down to 1 micron). This will direct you in selecting the correct basket when ordering.

Dual Stage Straining/Filter

All Rosedale Model 8 housings can be supplied with a second, inner basket, which is supported on the top flange of the regular basket. Both baskets can be strainers (with or without wire mesh linings) or both can be baskets for filter bags. They can also be mixed: one a strainer basket, the other a filter bag basket. Dual-stage action will increase strainer or filter life and reduce servicing needs.

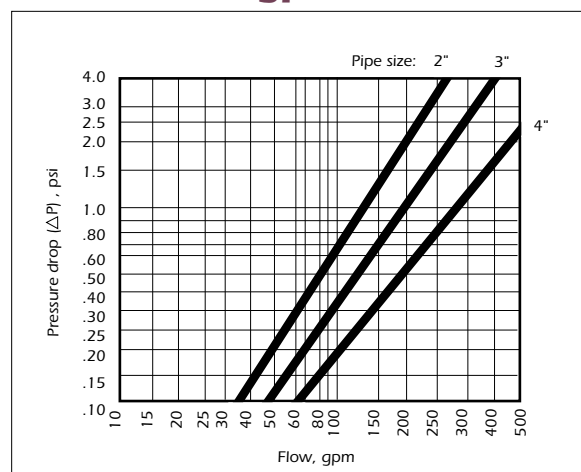## MODEL 8 BASKET STRAINER AND BAG FILTERS

Operation

Unfiltered liquid enters the housing above the bag or basket and flows through. Solids are contained inside the bag or basket, where they are easily removed when the unit is serviced.

A basket bail is pushed down by the closed cover to hold the basket against a positive stop in the housing. A radial seal prevents bypass of unfiltered liquid.
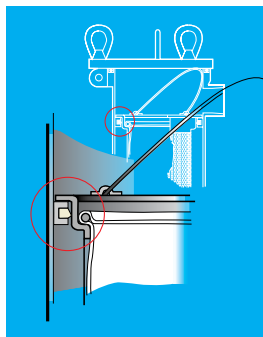
	1 (H$_2$0)	50	100	200	400	600	800	1000	2000
				Viscosity, cps					
All unlined baskets	.65	.85	1.00	1.10	1.20	1.40	1.50	1.60	1.80
40-mesh lined	.73	.95	1.20	1.40	1.50	1.80	1.90	2.00	2.30
60-mesh lined	.77	1.00	1.30	1.60	1.70	2.10	2.20	2.30	2.80
80-mesh lined	.93	1.20	1.50	1.90	2.10	2.40	2.60	2.80	3.50
100-mesh lined	1.00	1.30	1.60	2.20	2.40	2.70	3.00	3.30	4.40
200-mesh lined	1.30	1.70	2.10	3.00	3.40	3.80	4.40	5.00	6.80

Pressure Drop Data

Basket strainers and bag filters are usually selected so that the pressure drop does not exceed 2 psi, when they are clean. Higher pressure drops may be tolerated, when contaminant loading is low. Bag change occurs at 15 psid.

The pressure drop data is accurate for all housings with strainer or filter bag baskets. When filter bags are added, total pressure drop becomes the sum of the pressure drop as determined by the steps below.

Follow these easy steps:

1. Using the desired pipe size and approximate flow rate, determine the basic pressure drop from the appropriate graph.
2. Multiply the pressure drop obtained in step 1 by the viscosity correction factor found in the accompanying table. This is the adjusted (clean) pressure drop for all baskets without filter bags.
3. Add the pressure drop for the bag.

Note: Filter bags are specified separately. See page 150.

Basket Data

Depth Nominal (inches)	Diameter (inches)	Surface Area (sq. ft.)	Volume (cu. in.)	Bag Size No.
15	6.7	2.3	500	1
30	6.7	4.4	1000	2

Model 8–For flow rates to 220 gpm*

*Based on housing only. Fluid viscosity, filter bag used, and expected dirt loading should be considered when sizing a filter.

Eyenut covers with filter bag and basket.

M O D E L   8   B A S K E T   S T R A I N E R   A N D   B A G   F I L T E R S

Dimensions (IN)

Cover Type

EYENUT COVER
150 PSIG - 3 Bolt Design
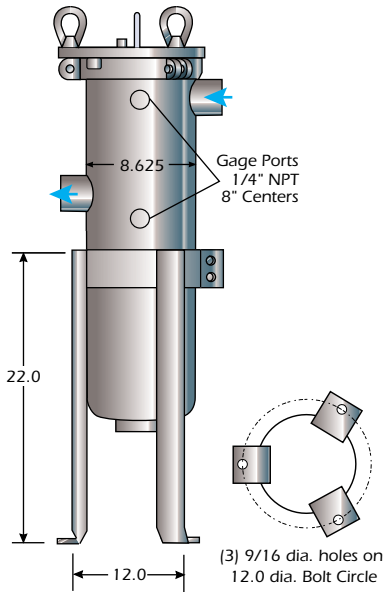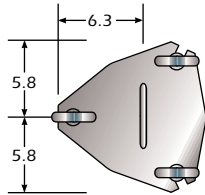
6.3

5.8

5.8

8.625

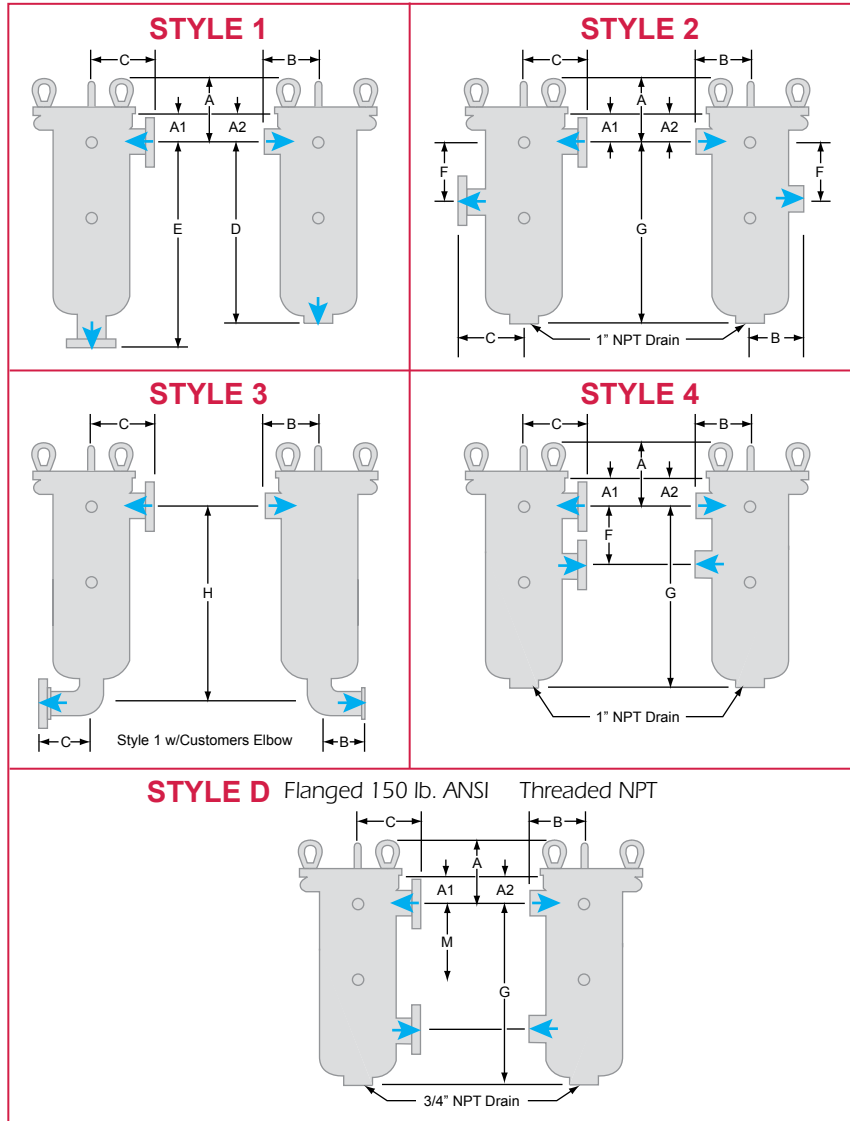Gage Ports
1/4" NPT
8" Centers

22.0

12.0

(3) 9/16 dia. holes on
12.0 dia. Bolt Circle

A clearance distance equal to basket depth must be available above housing for basket removal.

Outlet Styles

Flanged 150 lb. ANSI   Threaded NPT   Flanged 150 lb. ANSI   Threaded NPT

STYLE 1

C   B   A   A1   A2   E   D

STYLE 2

C   B   A   A1   A2   F   G   C   1" NPT Drain   B

STYLE 3

C   B   H

C   Style 1 w/Customers Elbow   B

STYLE 4

C   B   A   A1   A2   F   G   1" NPT Drain

STYLE D *Flanged 150 lb. ANSI   Threaded NPT*

C   B   A   A1   A2   M   G   3/4" NPT Drain

Dimensions (IN) 150 PSIG Design

Model	Pipe Size	A	A1	A2	B	C	D	E	F	G	H	I	J	K	L	M
8-15	2	9.1	5.4	2.9	5.9	7.5	20.6	23.4	8.0	20.9	22.8	3.25	5.0	4.06	4.25	N/A
	3	9.1	5.4	3.7	6.8	7.5	21.3	23.4	8.0	20.9	24.3	3.25	7.25	6.12	4.25	N/A
	4	9.1	5.4	5.0	6.8	8.6	21.3	23.9	8.0	20.9	25.6	3.25	9.0	7.75	4.25	N/A
	6	9.4	5.6	5.9	7.1	8.6	23.6	27.1	9.0	23.4	30.9	4.12	12.5	11.0	4.5	N/A
8-30	2	9.1	5.4	2.9	5.9	7.5	35.6	38.4	8.0	35.9	37.8	3.25	5.0	4.06	4.25	15.0
	3	9.1	5.4	3.7	6.8	7.5	36.3	38.4	8.0	35.9	39.3	3.25	7.25	6.12	4.25	17.0
	4	9.1	5.4	5.0	6.8	8.6	36.3	38.9	8.0	35.9	40.6	3.25	9.0	7.75	4.25	18.0
	6	9.4	5.6	5.9	7.1	8.6	38.6	42.1	9.0	38.4	45.9	4.12	12.5	11.0	4.5	20.0

Dimensions are reference only and should not be used for hard plumbing. Consult factory for certified drawings.

MODEL 8 BASKET STRAINER AND BAG FILTERS

Dimensions (IN)

Cover Type

EYENUT COVER
300 PSIG - 6 Bolt Design
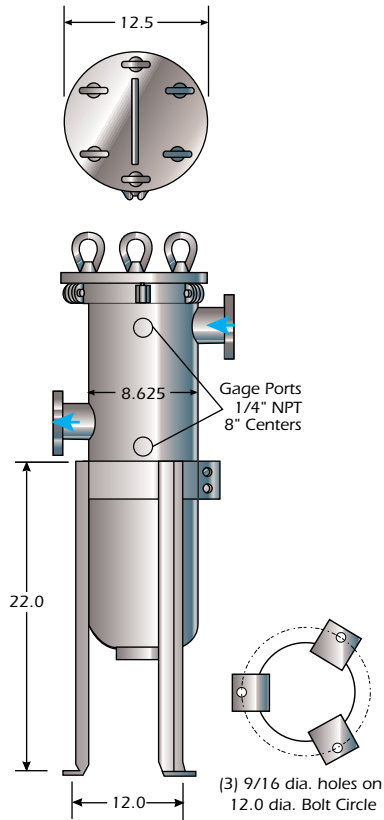
12.5

8.625

Gage Ports
1/4" NPT
8" Centers

22.0

12.0

(3) 9/16 dia. holes on
12.0 dia. Bolt Circle

A clearance distance equal to basket depth must be available above housing for basket removal.

Outlet Styles

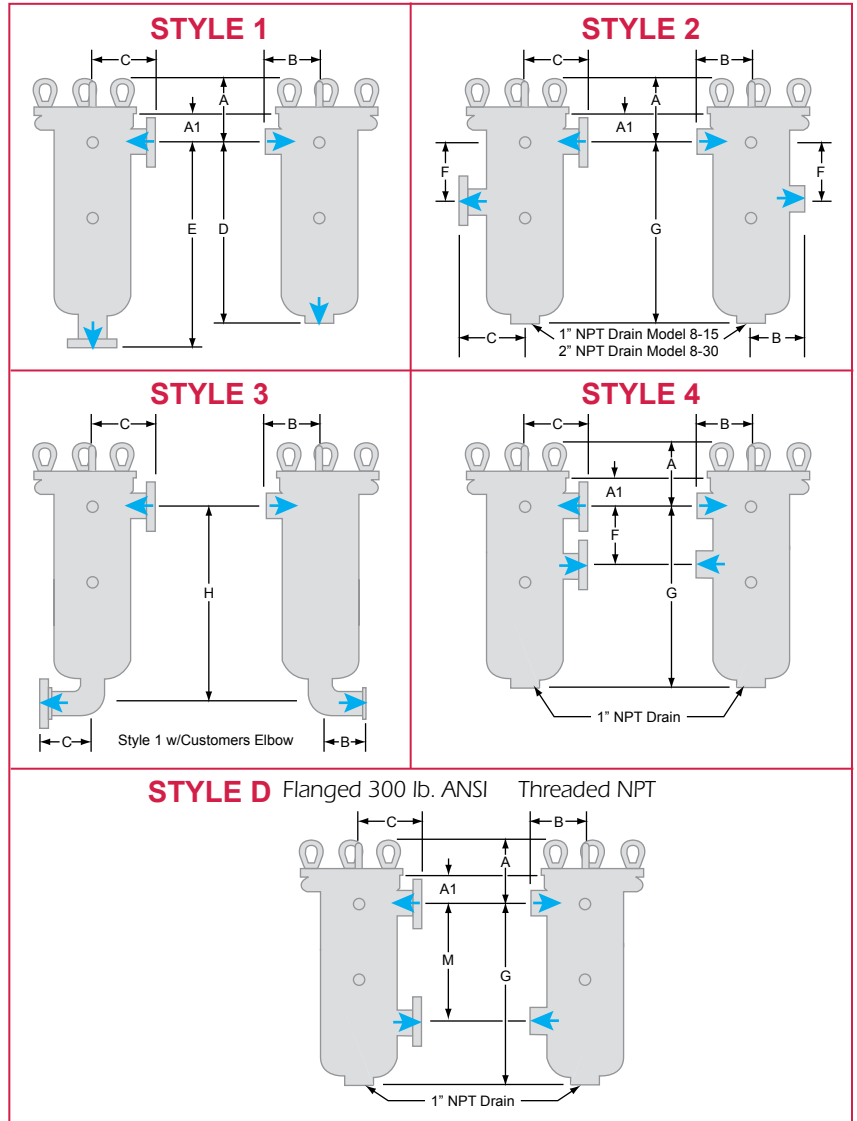Flanged 300 lb. ANSI   Threaded NPT   Flanged 300 lb. ANSI   Threaded NPT

STYLE 1

STYLE 2

1" NPT Drain Model 8-15
2" NPT Drain Model 8-30

STYLE 3

Style 1 w/Customers Elbow

STYLE 4

1" NPT Drain

STYLE D Flanged 300 lb. ANSI   Threaded NPT

1" NPT Drain

Dimensions (IN) 300 PSIG Design

Model Size	Pipe	A	A1	B	C	D	E	F	G	H	I	J	K	L	M
8-15	2	9.25	5.4	5.9	7.5	20.6	23.4	8.0	20.9	22.8	3.25	5.0	4.06	4.25	N/A
	3	9.25	5.4	6.8	7.5	21.3	23.4	8.0	20.9	24.3	3.25	7.25	6.12	4.25	N/A
	4	9.25	5.4	6.8	8.6	21.3	23.9	8.0	20.9	25.6	3.25	9.0	7.75	4.25	N/A
	6	9.4	5.6	7.1	8.6	23.6	27.1	9.0	23.4	30.9	4.12	12.5	11.0	4.5	N/A
8-30	2	9.25	5.4	5.9	7.5	35.6	38.4	8.0	35.9	37.8	3.25	5.0	4.06	4.25	15.0
	3	9.25	5.4	6.8	7.5	36.3	38.4	8.0	35.9	39.3	3.25	7.25	6.12	4.25	17.0
	4	9.25	5.4	6.8	8.6	36.3	38.9	8.0	35.9	40.6	3.25	9.0	7.75	4.25	18.0
	6	9.4	5.6	7.1	8.6	38.6	42.1	9.0	38.4	45.9	4.12	12.5	11.0	4.5	20.0

Dimensions are reference only and should not be used for hard plumbing. Consult factory for certified drawings.

How To Order

Build an ordering code as shown in the example

HOUSING — **OPTIONS** — **OPTIONAL INNER BASKET**

Example: 8-15-3P-1-150-C-B-S-M-200-D-C - 2M 50

MODEL NO.
8   = **8**

HOUSING SIZE
15 inch   = **15**
30 inch   = **30**

PIPE SIZE, NPT and FLANGED[1]
3/4-in. female NPT	= **3/4P**
1-in. female NPT	= **1P**
1-1/4-in. female NPT	= **1-1/4P**
1-1/2-in. female NPT	= **1-1/2P**
2-in. female NPT	= **2P**
3-in. female NPT	= **3P**
3/4-in. 150 class ANSI flange	= **3/4F**
1-in. 150 class ANSI flange	= **1F**
1-1/4-in. 150 class ANSI flange	= **1-1/4F**
1-1/2-in. 150 class ANSI flange	= **1-1/2F**
2-in. 150 class ANSI flange	= **2F**
3-in. 150 class ANSI flange	= **3F**
4-in. 150 class ANSI flange	= **4F**
6-in. 150 class ANSI flange	= **6F**

OUTLET STYLE
Bottom	= **1**
Side High 180	= **2**
Bottom elbow	= **3**
Same Side High	= **4**
Same Side Low	= **D**

PRESSURE RATING[2]
150 psi (NPT or flanged)	= **150**
300 psi (NPT or flanged)	= **300**

HOUSING MATERIAL
Carbon steel	= **C**
304 stainless steel	= **S**
316 stainless steel	= **S316**

COVER SEAL
Buna N	= **B**
Ethylene Propylene	= **E**
Viton® Fluoroelastomer	= **V**
Teflon® Encapsulated Viton®	= **TEV**[5]
Teflon® (solid white) (6 Bolt Cover)	= **TSW**[5]

BASKET SEAL
Seal required   = **S**

OPTIONAL INNER BASKET, MEDIA SIZE-No symbol if type 2B basket was selected

Perforation diameters
(for type 2P baskets)
1/4, 3/16, 9/64, 3/32, 1/16

Mesh sizes (for type 2M and 2BM baskets) 20, 30, 40, 50, 60, 70, 80, 100, 150, 200

OPTIONAL INNER BASKET TYPE
2B	= Filter bag basket, 9/94 perforations[3]
2P	= Strainer basket, perforated metal
2BM	= Filter bag basket, perforated, mesh lined[3]
2M	= Strainer basket, perforated, mesh lined

ASME CODE STAMP
C	= Code
NSF	= NSF 61 listed

DISPLACER
D   = Displacer

BASKET, MEDIA SIZE-No symbol if type B basket was selected
Perforation diameters (for type P baskets)
1/4, 3/16, 9/64, 3/32, 1/16

Mesh sizes (for type M and BM baskets)
20, 30, 40, 50, 60, 70, 80, 100, 150, 200

BASKET TYPE
PB	= Filter bag basket, 9/64 perforations[3]
P	= Strainer basket, perforated metal
BM	= Filter bag basket, perforated, mesh lined[3]
M	= Strainer basket, perforated, mesh lined
HWM	= Filter bag basket, heavy wire mesh[3]

1. Flanges provided with the housing match the pressure rating of the vessel. Housings rated 150 psi have 150 class flanges. Housings rated 300 psi have 300 class flanges. ANSI B16.5 Pressure-Temperature rating tables determine flange class for ASME code housings. Consult factory.
2. Higher pressure ratings available. Consult factory.
3. Filter bags are specified separately. See page 150.
4. 150 psi unit has 150 class flanges. 300 psi unit has 300 class flanges.
5. 300 psi design only (6 bolt lid).