

(800) 521-8565 info@greatlakesfilters.com www.greatlakesfilters.com







HIGH CAPACITY BAG FILTER HOUSINGS





Standard Sizes #3 & #4 Filter Housings

Features

- Low pressure drops
- Permanently-piped housings
- Covers are O-ring sealed
- Carbon steel, stainless steel (304 or 316) and aluminum construction for housings
- Easy to clean!
- Adjustable-height legs, standard
- Pipe sizes 3/4 thru 2-inch, NPT or flanged (standard 150 class flange)
- Two basket depths: 6 or 12 inches (nominal)

Options

- Sanitary connections
- Different outlet connections
- Extra-length legs
- · Liquid displacers for easier servicing

In all cases, covers are easily removed without special tools. Available for strainers and bags



Call today! 800-521-8565



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

Operation

Unfiltered liquid enters the housing above the bag or basket and passes down through them. Solids are contained inside the bag or basket, where they're easily and completely removed when the unit is serviced.

Fluid bypass around the basket is prevented because the outside diameter of the filter bag seals radially against the housing inside diameter. A single cover gasket is used to seal the opening, and covers can be installed and removed without tools.



Pressure Drop Data

Basket strainer 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 out should occur at 15 psid.

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

		Viscosity, cps							
	(H ₂ O)	50	100		400		800	1000	2000
Bag style and 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

Follow these easy steps:

- I) Using the desired pipe size and approximate flow rate, determine the basic pressure drop from the appropriate graph.
- Multiply the pressure drop obtained in step I 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 filter.

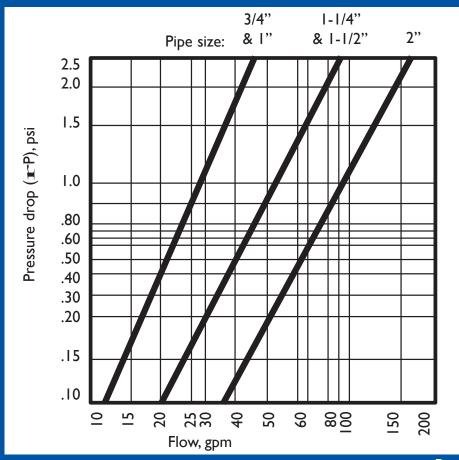
Basket Data

Depth Nominal (inches)	Diameter (inches)	Surface Area (sq. ft.)	Volume (cu. in.)	Bag Size No.
6	3.9	0.5	65	3
12	3.9	1.0	130	4

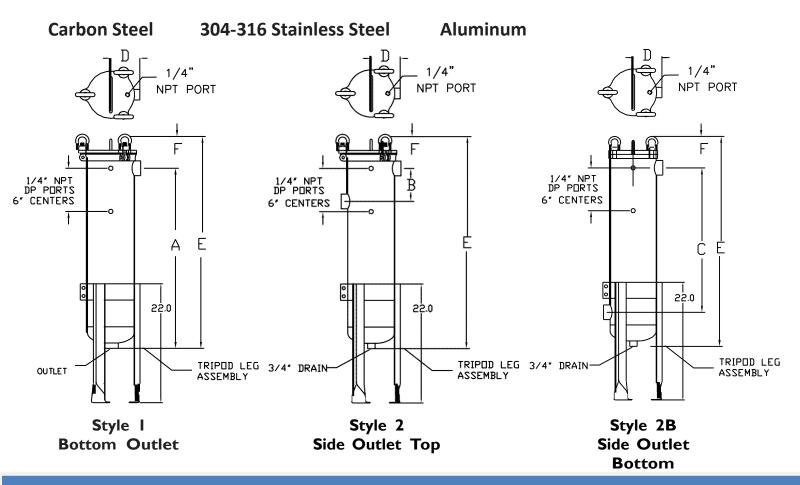
Shown in Aluminum

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

For flow rates to 50 gpm*



Standard Sizes #3 & #4 — Available in three styles and four materials



Carbon Steel 304-316 Stainless Steel Aluminum

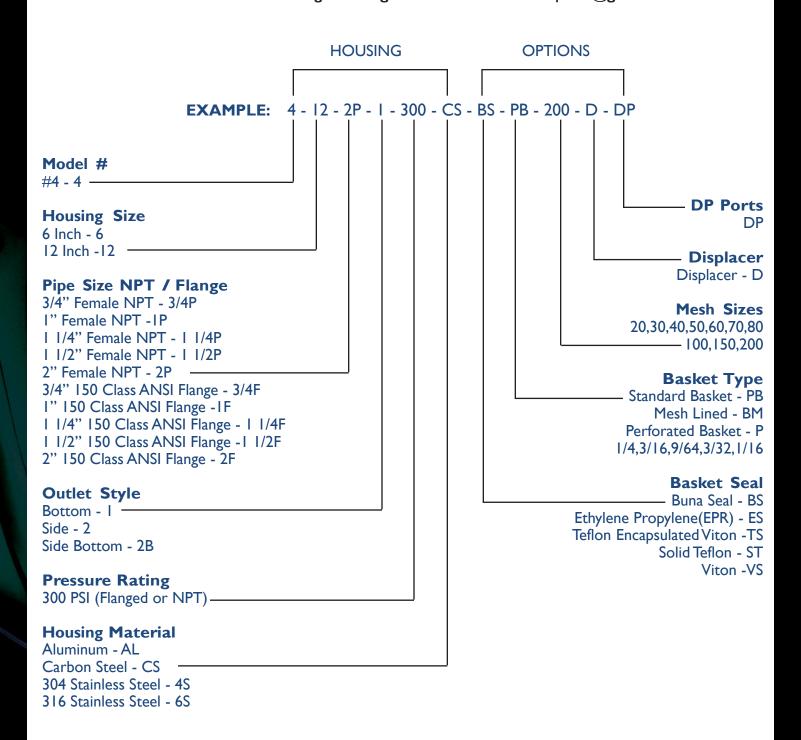
Standard Features

- Hinged Eye Bolt Cover (CS & SS)
- Eye Bolt Cover (Aluminum)
- 304 Stainless Basket
- Buna Seal
- 1/4" NPT Gauge Port
- Adjustable C.S. Legs

Options

- 316 Stainless Basket
- DP Ports
- O-Ring Seal Materials
- 304, 316 Adjustable Legs
- Flange Connections
- Sanitary Connections

	Pipe Size						
#3	In NPT	Α	В	С	D	Е	F
#3	0.75	10.3	4.5	6	3.75	15.3	5.6
	1.00	10.5	4.5	6	3.75	15.5	5.7
SIZE	1.25	10.9	4.5	6	3.75	17.7	5.9
4-6	1.50	11.2	4.5	6	3.75	16.1	6.1
	2.00	11.6	4.8	6	3.75	17	6.3
	Pipe Size						
#4	Pipe Size In NPT	A	В	С	D	E	F
#4		A 16.3	B 4.5	C 12	D 3.75	E 22.1	F 5.6
	In NPT						
SIZE	In NPT 0.75	16.3	4.5	12	3.75	22.1	5.6
	In NPT 0.75 1.00	16.3 16.5	4.5 4.5	12 12	3.75 3.75	22.1 22.2	5.6 5.7
SIZE	In NPT 0.75 1.00 1.25	16.3 16.5 16.9	4.5 4.5 4.5	12 12 12	3.75 3.75 3.75	22.1 22.2 22.6	5.6 5.7 5.9



^{*}Aluminum Housings only available with Eye Bolt Covers

^{*} Carbon Steel & Stainless Housing only available with Hinged Eye Bolt Covers

^{*} All Filter Bag Housings come with Carbon Steel Legs & Standard 304 SS Basket

^{* 304} Stainless & 316 Stainless Legs are available & 316 SS Baskets are available

Bag Filter Housings Sizes #7, #8, & #9

Strainers or Bag Filters: Your Choice!

Model 6 strainer/filter housings are made in 3 sizes 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 special tools.

Features

- Low pressure drops
- Permanently-piped housings
- Covers are O-ring sealed
- Carbon steel or stainless steel (304 or 316) and aluminum construction for housings
- Easy to clean!
- · Adjustable-height legs, standard
- O-Ring seals: Buna N, EPR, Viton®, teflon®
- Three basket depths: 12, 18, or 30 inches (nominal)

Options

- Sanitary connections
- Different outlet connections
- Extra-length legs
- · Liquid displacers for easier servicing





Model shown in Stainless Steel

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 size). This will direct you to choose the correct basket when ordering.

Operation

Unfiltered liquid enters the housing above the bag or basket and passes down through them. Solids are contained inside the bag or basket, where they're easily and completely removed when the unit is serviced.

Fluid bypass around the basket is prevented because the outside diameter of the filter bag seals radially against the housing inside diameter. A single cover gasket is used to seal the opening, and covers can be installed and removed without tools.

Pressure Drop Data

Basket strainer 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 out should occur at 15 psid.

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

		Viscosity, cps							
	(H ₂ O)	50	100	200	400	600	800	1000	2000
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

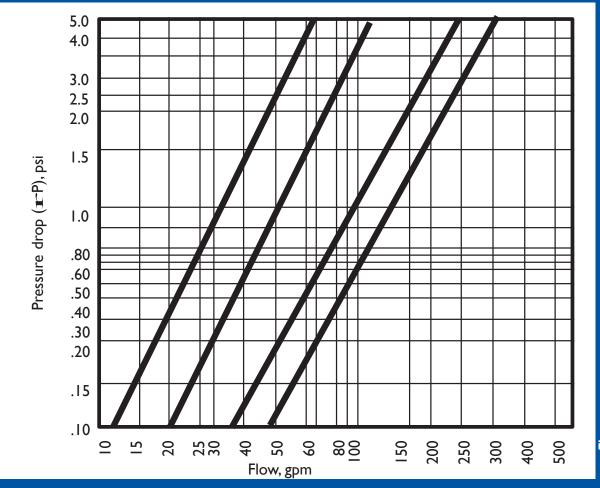
Follow these easy steps:

- I) Using the desired pipe size and approximate flow rate, determine the basic pressure drop from the appropriate graph.
- Multiply the pressure drop obtained in step I 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 filter.

Basket Data

Depth Nominal (inches)	Diameter (inches)	Surface Area (sq. ft.)	Volume (cu. in.)	Bag Size No.
12	5	1.3 2.0	235 350	7 8
30	5	3.4	630	9

For flow rates to 100 gpm*

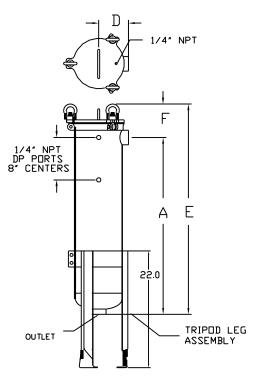


* Based on housing only. Fluid viscosity, bag filter used, and expected dirt loading should be considered when sizing a filter.

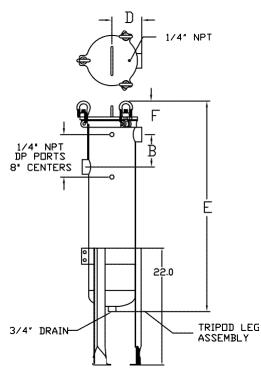
Carbon Steel

304-316 Stainless Steel

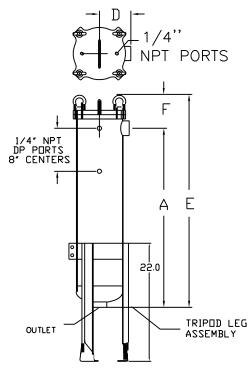
Aluminum



Style I Bottom Outlet



Style 2
Side Outlet Top



Style 2B Side Outlet Bottom

	Pipe Size						
447	In NPT	Α	В	С	D	Ε	F
#7	0.75	18.0	4.5	13	4.30	24.3	5.6
	1.00	18.1	4.5	13	4.30	24.5	5.7
SIZE	1.25	18.3	4.5	13	4.30	24.9	5.9
6-12	1.50	19.3	4.5	13	4.30	25.6	6.1
0-12	2.00	19.6	4.8	13	4.30	25.7	6.3
	3.00	20.1	6.3	13	4.30	26.8	6.9
	Pipe Size						
440	In NPT	Α	В	С	D	Е	F
#8	0.75	22.5	4.5	27	4.30	28.7	5.6
	1.00	22.6	4.5	27	4.30	29.1	5.7
SIZE	1.25	22.8	4.5	27	4.30	29.3	5.9
6-18	1.50	23.8	4.5	27	4.30	29.5	6.1
0.0	2.00	24.0	4.8	27	4.30	29.7	6.3
	3.00	24.6	6.3	27	4.30	30.5	6.9
	Pipe Size						
440	In NPT	Α	В	С	D	Ε	F
#9	0.75	32.0	4.5	27.5	4.30	38.3	5.6
	1.00	32.1	4.5	27.5	4.30	38.5	5.7
SIZE	1.25	32.3	4.5	27.5	4.30	38.9	5.9
6-30	1.50	33.3	4.5	27.5	4.30	39.6	6.1
- 0 50	2.00	33.6	4.8	27.5	4.30	39.7	6.3
	3.00	34.1	6.3	27.5	4.30	40.8	6.9

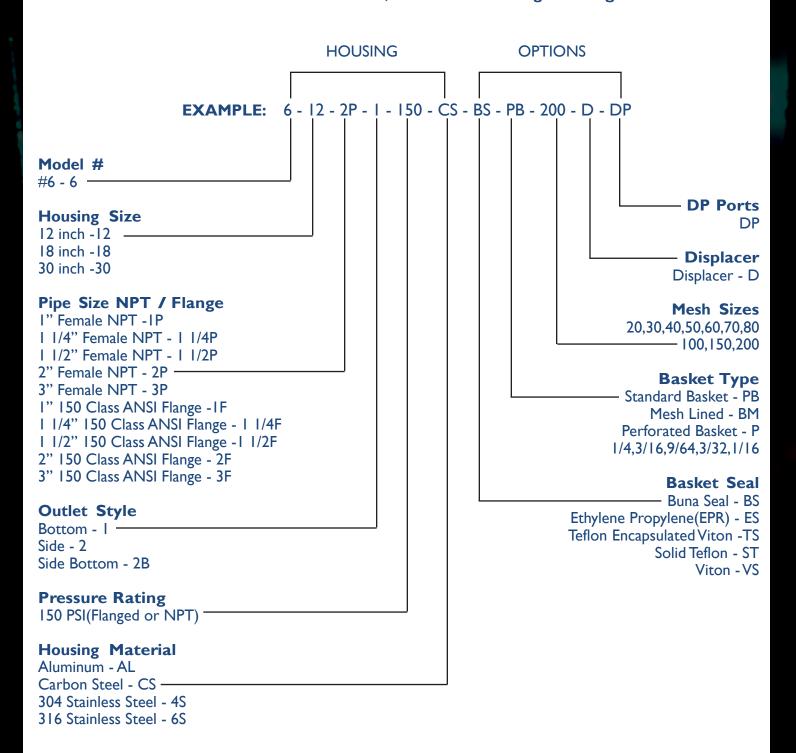
Standard Features

- Hinged Eye Bolt Cover (CS & SS)
- Eye Bolt Cover (Aluminum)
- 304 Stainless Basket
- Buna Seal
- 1/4" NPT Gauge Port
- Adjustable C.S. Legs

Options

- 316 Stainless Basket
- DP Ports
- O-Ring Seal Materials
- 304, 316 Adjustable Legs
- Flange Connections
- Sanitary Connections

How To Order Size #7, #8 & #9 Filter Bag Housings



^{*}Aluminum Housings only available with Eye Bolt Covers

^{*} Carbon Steel & Stainless Housing only available with Hinged Eye Bolt Covers

^{*} All Filter Bag Housings come with Carbon Steel Legs & Standard 304 SS Basket

^{* 304} Stainless & 316 Stainless Legs are available & 316 SS Baskets are available

Bag Filter Housings Sizes #1 & #2

Strainers or Bag Filters: Your Choice!

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

Features

- Low pressure drops
- Permanently-piped housings
- Covers are O-ring sealed
- Carbon steel or stainless steel (304 or 316) and aluminum construction for housings
- Easy to clean!
- · Adjustable-height legs, standard
- O-Ring seals: Buna N, EPR, Viton®, teflon®
- Duplex unites are available
- Pipe sizes 3/4 thru 4-inch, NPT or flanged
- Two basket depths: 15 or 30 inches (nominal)

Options

- Sanitary connections
- Different outlet connections





Model shown in Stainless Steel

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 I micron size). This will direct you to choose the correct basket when ordering.

Operation

Unfiltered liquide enters the housing above the bag or basket and passes down through them. Solids are contained inside the bag or basket, where they're easily and completely removed when the unit is serviced.

Fluid bypass around the basket is prevented because the outside diameter of the filter bag seals radially against the housing inside diameter. A single cover gasket is used to seal the opening, and covers can be installed and removed without tools.

Model 8 Pressure Drop Data

Basket strainer 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 out should occur at 15 psid.

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

		Viscosity, cps							
	- 1	50	100	200	400	600	800	1000	2000
	(H ₂ O)								
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
						2.12			
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
100-mesii iiiled	1.00	1.50	1.60	2.20	2.70	2.70	3.00	3.30	т.т∪
200-mesh lined	1.30	1.70	2.10	3.00	3.40	3.80	4.40	5.00	6.80

Follow these easy steps:

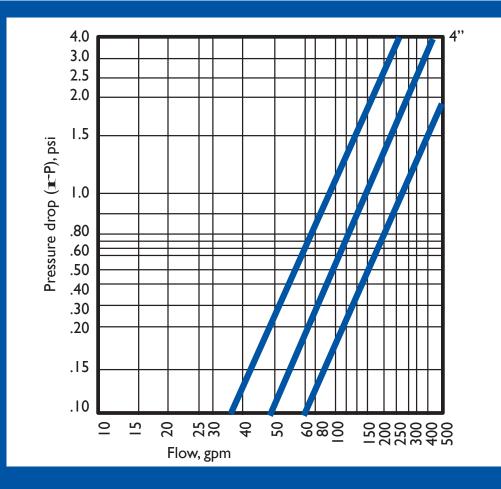
- I) Using the desired pipe size and approximate flow rate, determine the basic pressure drop from the appropriate graph.
- 2) Multiply the pressure drop obtained in step I by the viscosity correction factor found in the accompanying table. This is the adjusted (clean) pressure drop for all baskets,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

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

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For flow rates to 220 gpm*



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

Sizes #1 & #2 — Available in four styles and four materials

Carbon Steel 304-316 Stainless Steel **Aluminum** 1/4" NPT 1/4" NPT PORTS 1/4" NPT 1/4" NPT 1/4' NPT DP PORTS DP PORTS 8" CENTERS DP PORTS 8" CENTERS 8" CENTERS Ε Α C 22.0 22.0 0.\$5 TRIPOD LEG 3/4" DRAIN TRIPOD LEG ASSEMBLY TRIPOD LEG 3/4" DRAIN-OUTLET ASSEMBLY Style I Style 2 Style 2B **Bottom Outlet Side Outlet Top Side Outlet Bottom**

Carbon	Steel	
304-316	Stainless	Steel
Aluminu	m	

Standard Features

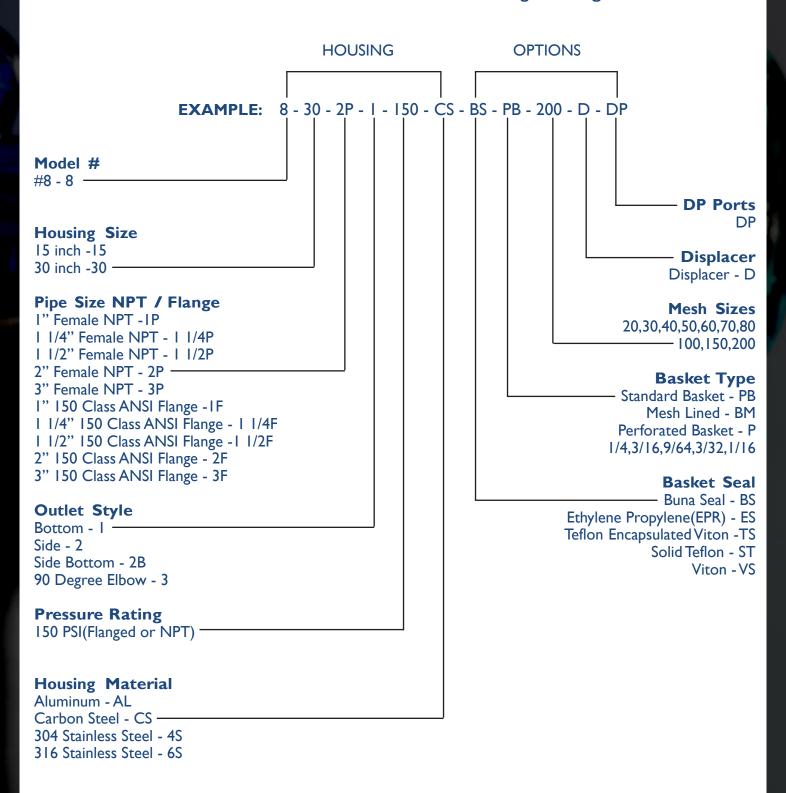
- Hinged Eye Bolt Cover (CS & SS)
- Eye Bolt Cover (Aluminum)
- 304 Stainless Basket
- Buna Seal
- 1/4" NPT Gauge Port
- Adjustable C.S. Legs

Options

- 316 Stainless Basket
- DP Ports
- O-Ring Seal Materials
- 304, 316 Adjustable Legs
- Style 3 90 Elbow
- Flange Connections
- Sanitary Connections

	Pipe Size							
	In NPT	Α	В	С	D	Е	F	
#1	0.75	30.5	5.6	13	5.3	24.3	5.6	
	1.00	30.5	5.6	13	5.3	24.5	5.7	
SIZE	1.25	30.5	5.6	13	5.3	24.9	5.9	
8-15	1.50	30.5	5.6	13	5.3	25.6	6.1	
0-13	2.00	30.5	6.1	13	5.3	25.7	6.3	
	3.00	30.5	7.3	13	5.3	26.8	6.9	
	4.00	30.5	8.3	13	5.3	27.9	7.4	
	Pipe Size							
	In NPT	Α	В	С	D	Е	F	
#2								
	0.75	34.5	5.6	27	5.3	38.3	5.6	
	1.00	34.5	5.6	27	5.3	38.5	5.7	
SIZE	1.25	34.5	5.6	27	5.3	38.9	5.9	
8-30	1.50	34.5	5.6	27	5.3	39.6	6.1	
0-30	2.00	34.5	6.1	27	5.3	39.7	6.3	
	3.00	34.5	7.3	27	5.3	40.8	6.9	
s.com	4.00	34.5	8.3	27	5.3	41.9	7.4	

How To Order Size #1 & #2 Filter Bag Housings



^{*}Aluminum Housings only available with Eye Bolt Covers

^{*} Carbon Steel & Stainless Housing only available with Hinged Eye Bolt Covers

^{*} All Filter Bag Housings come with Carbon Steel Legs & Standard 304 SS Basket

^{* 304} Stainless & 316 Stainless Legs are available & 316 SS Baskets are available

Duplex Bag Filter Housings Trouble-free, continuous operation

Duplex filters permit continuous operation, reducing overall operating costs. Flow can be switched back and forth between two filter vessels, allowing one side to be serviced while the other is in use.

A duplex housing, using a single multi-port valve operating system, is a better solution, and offers many benefits:

- Four separate valves are used all operated simultaneously by a single lever.
- Valves use the standard butterfly design, known for their effective seal, low pressure drop, and low cost.
- Any of the valves can be serviced individually, without need to disturb the other valves or piping. Replacements are readily available.
- Valves are soft-seated to provide bubble-tight closure.
- A variety of valve seal materials are available for use with a number of hard-tohandle fluids.
- Pressure drop is minimized because the flow path has the equivalent of only four elbows instead of the usual six.
- Mechanical stops assure that the valves are completely open or closed.
- A single-valve pressure balancing vent system is furnished to ease movement of the lever and to fill the just serviced vessel before use.
- Vents in filter covers and drain ports in filter housing speed evacuation and filling.

Basket Data (each basket, two baskets total)

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

Features

- Low pressure drops
- Permanently-piped housings
- Covers are O-ring sealed
- Carbon steel or stainless steel (304 or 316)
- NPT or Flange styles
- · Adjustable-height legs, standard
- · Large-area, heavy-duty baskets

Options

- 316 stainless steel basket perforation
- Extra-length legs
- · Liquid displacers for easier servicing
- DP ports





Dual Bag Filter Housings

Dual capacity housings can serve as either basket strainers or bag filters. Covers are easily removed without tools, and the basket or bag is quickly and easily replaced.

Low price, greater dirt holding capacity, and higher flow rates make the 88 housing a very cost-efficient choice.

Features

- Low pressure drops
- Permanently-piped housings
- Covers are O-ring sealed
- Carbon steel or stainless steel (304 or 316)
- NPT or Flange styles
- Adjustable-height legs, standard
- For flow rates to 440 gpm*
- Large-area, heavy-duty baskets

Options

- 316 stainless steel basket perforation
- Extra-length legs
- · Liquid displacers for easier servicing
- Mesh sizes
- DP ports
- Sanitary connections

Basket Data (each basket, two baskets total)

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

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