

Model 4 Bag Filter Housings Sizes #3, #4 & #5

Strainers or Bag Filters: Your Choice!

Model 4 strainer/filter housings are made in 3 sizes with a pressure rating of 300 PSI.

In all cases, covers are easily removed without special tools.

Features

- Low pressure drops
- Permanently-piped housings
- Covers are O-ring sealed
- Carbon steel, stainless steel (304 or 316) or aluminum construction for housings
- All stainless steel models have a glass bead blasted exterior finish.
- Easy to clean!
- Adjustable-height legs, standard
- Pipe sizes 3/4 thru 2 inch, NPT or flanged (standard 150 class flange)
- Three basket depths: 6" (size #3), 12" (size #4) and 22" (size #5) (nominal).

Options

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



Model 4 shown in carbon steel



Model 4 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 it. 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 by radially sealing the outside diameter of the filter bag 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 4 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 out should occur at a ΔP of 15 PSI.

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 accumulated pressure drops as determined by the steps below.

Follow these easy steps:

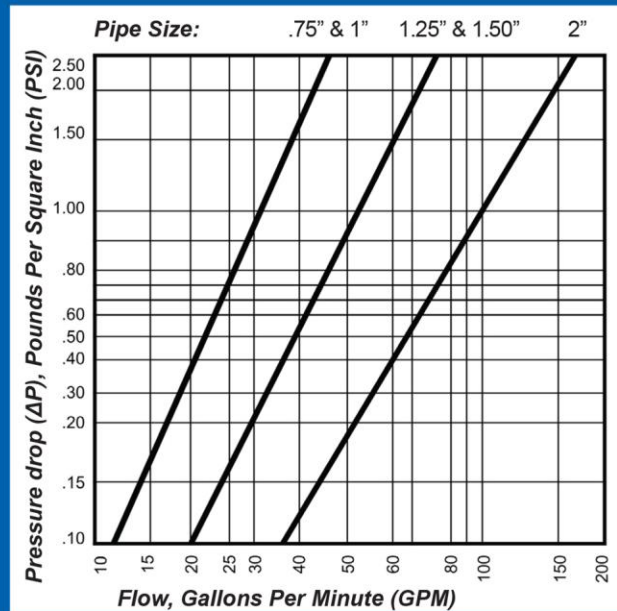
1. Using the desired pipe size and approximate flow rate, determine the basic pressure drop from the appropriate graph.
2. Multiply the pressure drop obtained in step 1 by the viscosity correction factor found in the accompanying table. This is the adjusted (clean) pressure drop for all baskets, without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

Viscosity, CPS									
	1 (H ₂ O)	50	100	200	400	600	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

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
22	3.9	2.0	260	5



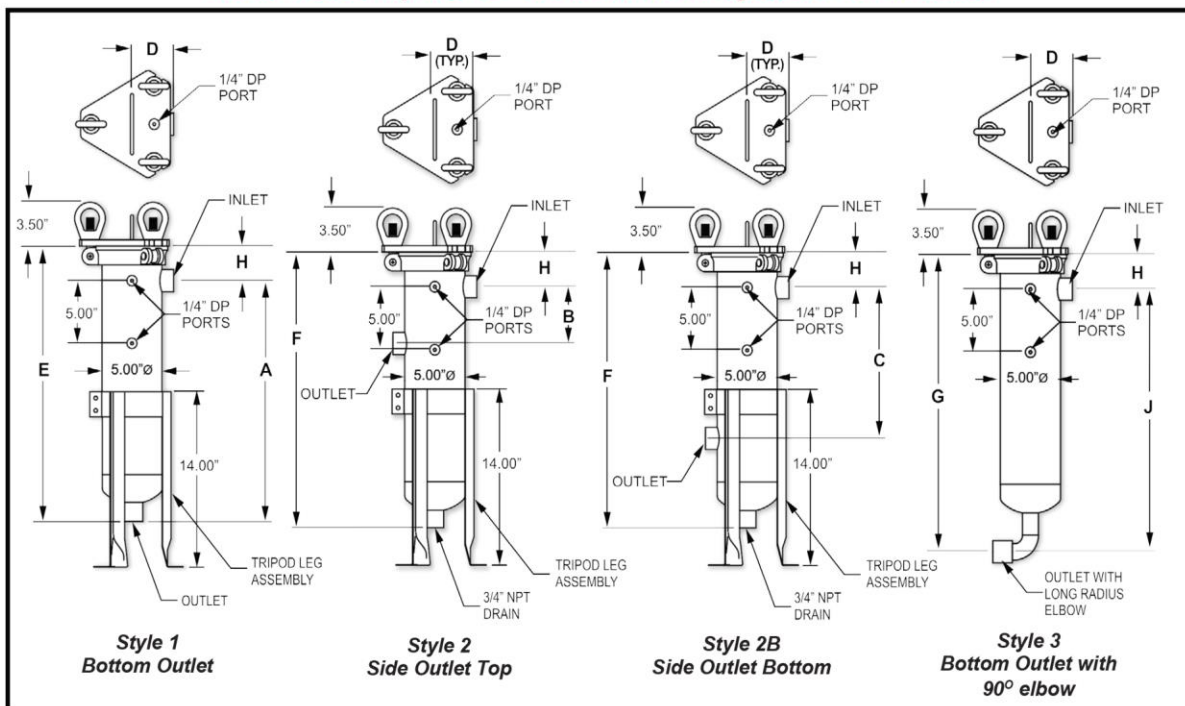
Model 4 Shown in Aluminum



Model 4 — For flow Rates to 50 gpm*

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

Model 4: Sizes #3, #4 & #5 — Available in four styles and four materials



NOTE: Housing dimensions are subject to change. When ordering a housing, request dimensional drawing for your review and approval.

Carbon Steel

304-316 Stainless Steel

Aluminum

Standard Features

- Hinged eye bolt cover (CS & SS)
- Eye bolt cover (aluminum)
- 304 stainless steel basket
- Buna N seal
- 1/4" NPT gauge port
- Adjustable carbon steel legs

Options

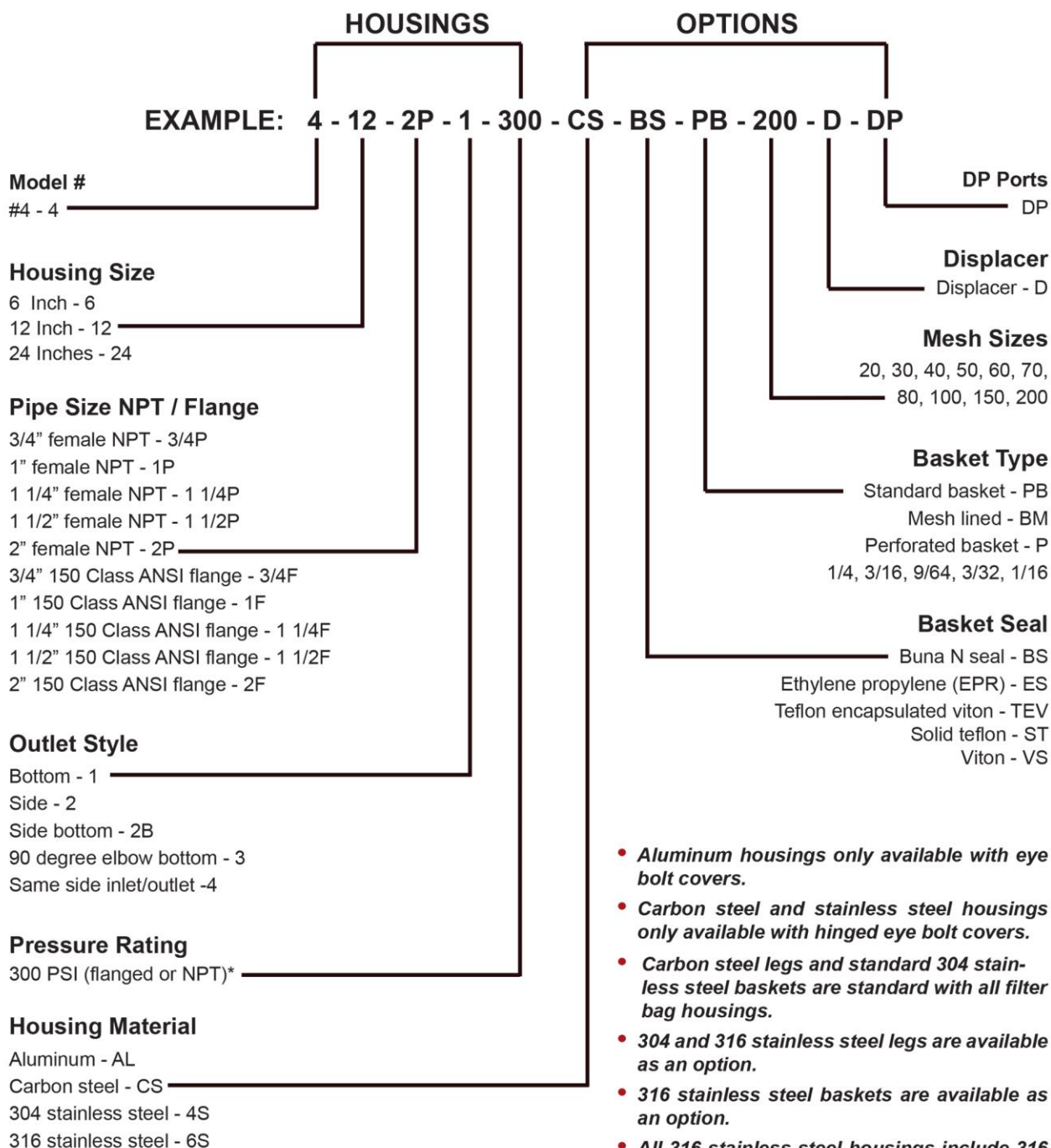
- 316 stainless basket
- DP ports
- O-ring seal materials
- 304 or 316 stainless steel adjustable legs
- Flange connections
- Sanitary connections

#3	Pipe Size	A	B	C	D	E	F	G	H	J
	0.75"	13.28"	4.50"	6.00"	3.41"	15.89"	15.89"	17.53"	2.61"	14.92"
	1.00"	13.21"	4.50"	6.00"	3.47"	15.97"	15.89"	17.60"	2.75"	14.85"
	1.25"	13.34"	4.50"	6.00"	3.77"	16.29"	15.89"	18.18"	2.95"	15.23"
	1.50"	13.28"	4.50"	6.00"	3.82"	16.37"	15.89"	18.46"	3.09"	15.37"
	2.00"	13.28"	4.80"	6.00"	4.03"	16.63"	15.89"	19.12"	3.36"	15.76"

#4	Pipe Size	A	B	C	D	E	F	G	H	J
	0.75"	19.28"	4.50"	12.00"	3.41"	21.89"	21.89"	23.53"	2.61"	20.92"
	1.00"	19.21"	4.50"	12.00"	3.47"	21.97"	21.89"	23.60"	2.75"	20.85"
	1.25"	19.34"	4.50"	12.00"	3.77"	21.29"	21.89"	24.18"	2.95"	21.23"
	1.50"	19.28"	4.50"	12.00"	3.82"	21.37"	21.89"	24.46"	3.09"	21.37"
	2.00"	19.28"	4.80"	12.00"	4.03"	21.63"	21.89"	25.12"	3.36"	21.76"

#5	Pipe Size	A	B	C	D	E	F	G	H	J
	0.75"	31.28"	4.50"	24.00"	3.41"	33.89"	33.89"	35.53"	2.61"	32.92"
	1.00"	31.21"	4.50"	24.00"	3.47"	33.97"	33.89"	35.60"	2.75"	32.85"
	1.25"	31.34"	4.50"	24.00"	3.77"	33.29"	33.89"	36.18"	2.95"	33.23"
	1.50"	31.28"	4.50"	24.00"	3.82"	33.37"	33.89"	36.46"	3.09"	33.37"
	2.00"	31.28"	4.80"	24.00"	4.03"	33.63"	33.89"	37.12"	3.36"	33.76"

How To Order Model 4: Size #3, #4 & #5 Filter Bag Housings



- *Aluminum housings only available with eye bolt covers.*
- *Carbon steel and stainless steel housings only available with hinged eye bolt covers.*
- *Carbon steel legs and standard 304 stainless steel baskets are standard with all filter bag housings.*
- *304 and 316 stainless steel legs are available as an option.*
- *316 stainless steel baskets are available as an option.*
- *All 316 stainless steel housings include 316 stainless steel baskets*

* *Model 4 vessels are rated at 300 PSI. Standard flanged and NPT connections are rated at 150 PSI. Flanges and NPT connections that are rated at 300 PSI are available as an option upon request.*