

MODELS 4, 6, 8 High-Capacity Strainers and Filters

Strainers or Bag Filters for Hydraulic Fluids and Other Oils

Strainer/filter housings are made in many sizes, and all 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

- Large-area, heavy-duty baskets
- Low pressure drops
- Housings are permanently piped
- Covers are O-ring sealed
- Carbon steel, or stainless steel (304 or 316) housings
- All housings are electropolished to resist adhesion of dirt and scale
- Adjustable-height legs, standard on Models 6 and 8; optional extra on Model 4
- Easy to clean
- Liquid displacers for easier servicing (optional)

These filters meet the more exacting needs of hydraulic and lubricating fluid filtration.

Construction Materials

All housings and other wetted parts not otherwise specified can be ordered in carbon steel, 304 stainless steel, or 316 stainless steel. Four different materials can be ordered for all seals involved. All baskets and mesh linings are made of stainless steel. 304 stainless steel will be supplied with carbon and 304 housings, 316 stainless with 316 housings.

Choose a basket strainer or bag filter

Once the choice between straining a fluid (removing particles down to one 74 micron size) and filtering it (removing particles down to one micron) has been made, the choice of which size Flow Ezy filter model must be made. All three models (4, 6 and 8) and the baskets and bags that go in them, are of the same basic design. They differ in dimensions, capacities, maximum pressure ratings, and pipe size. Selection is based on these variables.

Pressure Drop

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. That pressure drop information is accurate for all housings with strainer or filter bag baskets only. When filter bags are added, the total pressure drop becomes the sum of the existing pressure drop plus the pressure drop through the bag. Consult the factory for the formula to determine the pressure drop for your application.



Additional sizes are available. Ask for our Bag Filter Catalog.

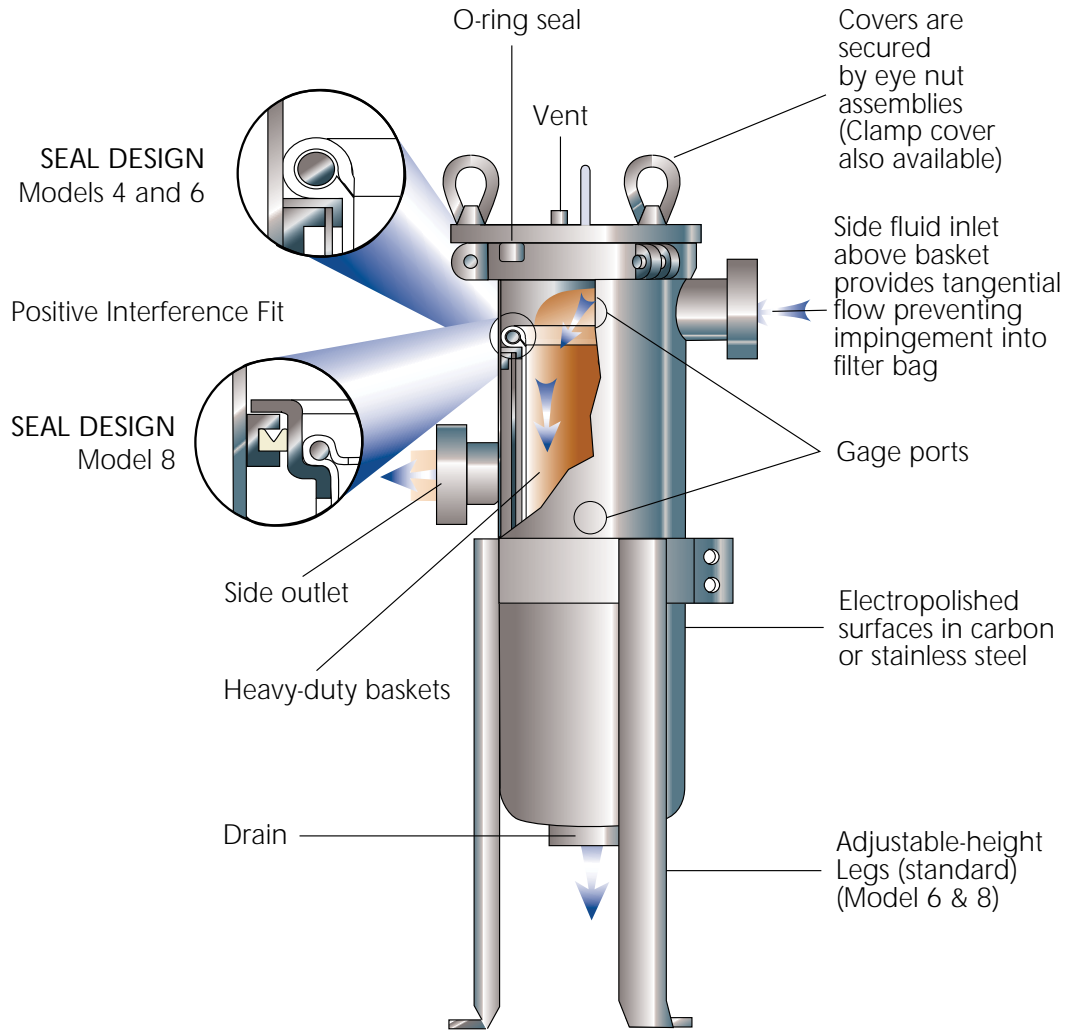
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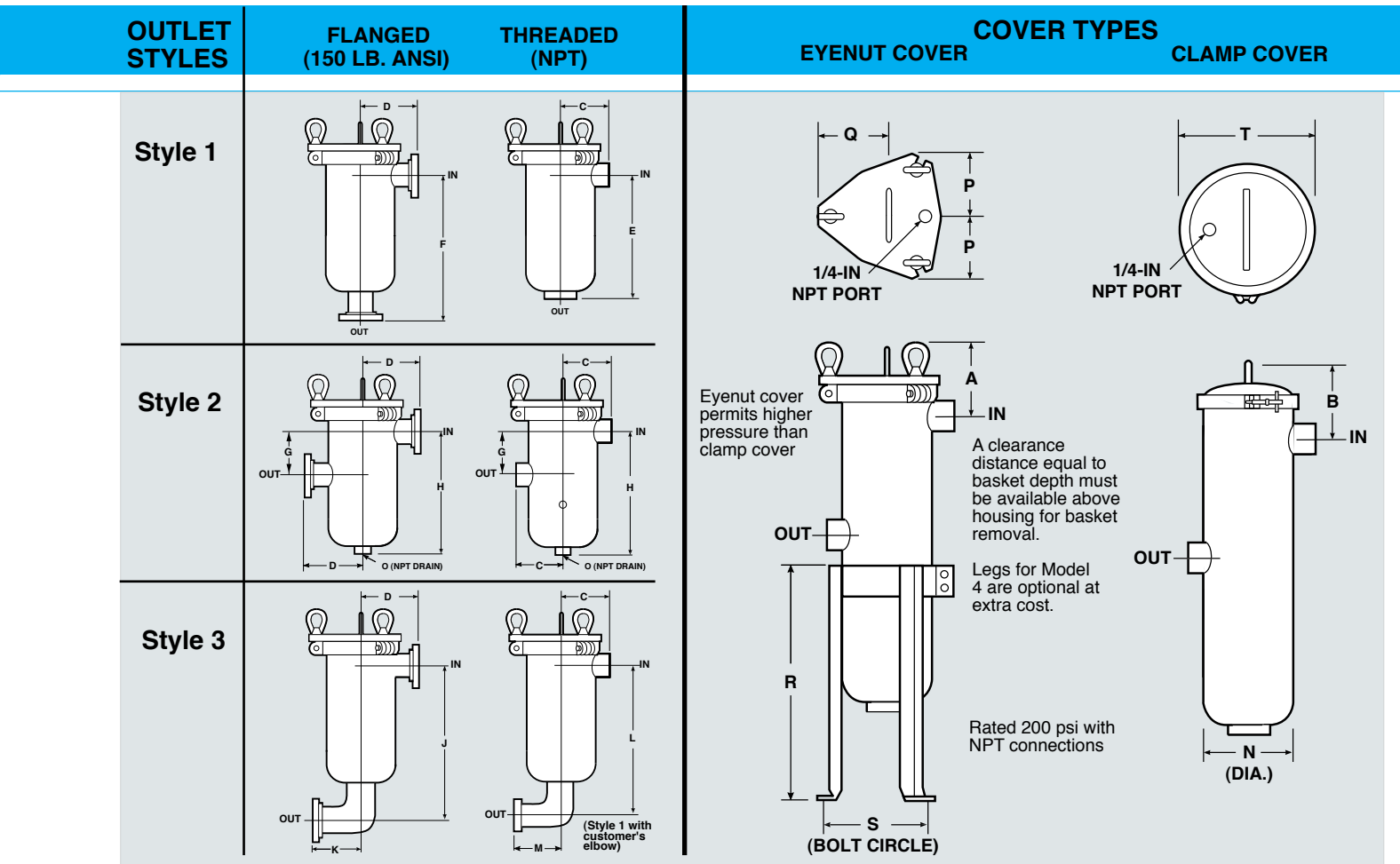
OPERATION

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. A hinged basket bail is pushed down by the closed cover, to hold the basket against a positive stop in the housing. It helps prevent bypassing of unfiltered liquid.

Fluid bypass around the basket is prevented by an optional O-ring seal between the basket rim and the housing ID. This seal is required on Model 8 bag filters. Model 4 and 6 bag filters don't need this O-ring because the OD of the filter bag seals against the housing itself, rather than against the ID of the basket rim.

A single cover gasket is used to seal the opening, and covers can be installed and removed without tools.





DIMENSIONS (inches)

Model	Pipe Size	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	Q	R	S	T	
4-6	3/4	5.5	5.2			10.1	12.0	3.0	10.1	10.4		11.2	1.3								
	1	5.5	5.2			10.1		3.0	10.1	10.9		11.5	1.5								
	1-1/4	6.0	5.8	3.5	5.0	9.4	12.0	4.3	9.5	10.5	4.0	11.1	1.8	4.5	1/2	3.5	3.6	14.0	6.8	5.6	
	1-1/2	6.0	5.8			9.3		4.3	9.5	10.8		11.3	2.0								
	2	6.0	5.8			9.3		4.3	9.5	11.6		11.8	2.3								
4-12	3/4	5.5	5.2			16.1		3.0	16.1	16.4		17.2	1.3								
	1	5.5	5.2			16.1		3.0	16.1	16.9		17.5	1.5								
	1-1/4	6.0	5.8	3.5	5.0	15.4	18.0	4.3	15.5	16.5	4.0	17.1	1.8	4.5	1/2	3.5	3.6	14.0	6.8	5.6	
	1-1/2	6.0	5.8			15.3		4.3	15.5	16.8		17.3	2.0								
	2	6.0	5.8			15.3		4.3	15.5	17.6		17.8	2.3								
6-12	1	6.1		4.3		17.3	19.8	4.3	17.3	18.1	5.0	18.6	1.5								
	1-1/4	6.1		4.3		17.3	19.8	4.8	17.3	18.4	5.0	19.0	1.8								
	1-1/2	6.1	N/A	4.3	6.0	17.3	19.8	4.8	17.3	18.8	5.0	19.3	2.0	6.0	3/4	5.0	5.3	18.0	9.5	N/A	
	2	6.1		4.3		17.2	19.7	4.8	17.3	19.6	5.0	19.7	2.3								
	3	7.0		4.4		18.2	20.7	6.6	18.2	22.0	4.8	21.9	3.1								
6-18	1	6.1				23.3	25.8	4.3	23.3	24.1	5.0	24.6	1.5								
	1-1/4	6.1				23.3	25.8	4.8	23.3	24.4	5.0	25.0	1.8								
	1-1/2	6.1	N/A	4.3	6.0	23.3	25.8	4.8	23.3	24.8	5.0	25.3	2.0	6.0	3/4	5.0	5.3	18.0	9.5	N/A	
	2	6.1				23.2	25.7	4.8	23.3	25.6	5.0	25.7	2.3								
	3	7.0				24.2	26.7	6.6	24.2	28.0	4.8	27.9	3.1								
6-30	1	5.5				35.3	37.8	4.3	35.3	36.1	5.0	36.6	1.5								
	1-1/4	6.0				35.3	37.8	4.8	35.3	36.4	5.0	37.0	1.8								
	1-1/2	6.1	N/A	4.3	6.0	35.3	37.8	4.8	35.3	36.8	5.0	37.3	2.0	6.0	3/4	5.0	5.3	18.0	9.5	N/A	
	2	6.1				35.2	37.7	4.8	35.3	37.6	5.0	37.7	2.3								
	3	7.0				36.2	38.7	6.6	36.2	40.0	4.8	39.9	3.1								
8-15	2	6.6		5.9	7.5	20.9	23.5	4.8	21.0	23.2	3.3	23.1	2.3								
	3	7.4	N/A	6.8	7.5	36.7	39.6	6.6	36.9	40.5	4.8	40.9	3.1	8.6	1	5.8	6.3	22.0	12.0	N/A	
	4	7.4		6.8	8.6	21.5	25.1	8.4	21.9	26.8	6.3	27.6	3.8								
8-30	2	6.6		5.9	7.5	35.9	38.5	4.8	36.0	38.2	3.3	38.1	2.3								
	3	7.4	N/A	6.8	7.5	39.6	39.6	6.6	36.9	40.5	4.8	40.9	3.1	8.6	1	5.8	6.3	22.0	12.0	N/A	
	4	7.4		6.8	8.6	40.1	25.1	8.4	36.9	41.8	6.3	42.6	3.8								

HOW TO ORDER Build an ordering code as shown in the example

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

MODEL NO.

4 = 4
6 = 6
8 = 8

HOUSING SIZE

6 inch = 6 (Model 4 only)
12 inch = 12 (Models 4 & 6 only)
18 inch = 18 (Model 6 only)
15 inch = 15 (Model 8 only)
30 inch = 30 (Models 6 & 8 only)

PIPE SIZE, NPT and FLANGED¹

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
(Models 6 & 8 only)
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
(Models 6 & 8 only)
4-in. 150 class ANSI flange = 4F
(Models 6 & 8 only)
6-in. 150 class ANSI flange = 6F
(Model 8 only)

OUTLET STYLE

Bottom = 1
Side = 2
Bottom elbow = 3

PRESSURE RATING²

150 psi (NPT or flanged) = 150
(Models 6 & 8 only)
200 psi (NPT) (Model LCO4 only) = 200
210 psi (NPT) (Model 6 only) = 210
300 psi (flanged) = 300
500 psi (NPT) (Model 4 only) = 500

HOUSING MATERIAL

Carbon steel = C
304 stainless steel = S
316 stainless steel = S316

COVER GASKET

Buna N = B
Ethylene Propylene = E
Viton® Fluoroelastomer = V
Teflon® Fluorocarbon Resin (300 psi only) = T

OPTIONAL INNER BASKET

FOR MODEL 8 ONLY

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 perforations³
2P = Strainer basket, perforated metal
2BM = Filter bag basket, perforated, mesh lined³
2M = Strainer basket, perforated, mesh lined

ASME CODE STAMP

C = Code

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 perforations³
P = Strainer basket, perforated metal
BM = Filter bag basket, perforated, mesh lined³
M = Strainer basket, perforated, mesh lined
HWM = Filter bag basket, heavy wire mesh³

BASKET SEAL

S = Seal required (on strainer type baskets)
N = No seal (with bag type baskets)