Authorized Distributor

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Process Filtration and Fluid Handling Products

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MAHLE Industry

Bag Filter Housings
Nowata W8 Series

Housings Hold Standard #1 or #2 Size Bags

1. Introduction

The W8 series liquid bag filter housing effectively removes dirt, pipe scale, and other contaminants from process liquids such as water, chemical and petroleum products. These housings can be used with standard #1 or #2 size bags or the included perforated basket as a strainer. These housings are designed for pressures up to 150 psi with flow rates to 220 gpm. Housings come standard in carbon steel or 316 stainless steel construction with FNPT or flanged inlet and outlet.

Standard Design

- Carbon steel or 316 stainless steel construction
- 150 psi working pressure rating
- Low pressure drop
- Flow rates to 220 gpm
- Hinged quick opening swing closure with handle and eye nuts
- Differential, drain and vent ports
- 316 stainless steel strainer basket
- Viton lid seal (optional materials available)
- Adjustable tripod support legs

Optional Features

- Mesh lined strainer baskets
- ASME code stamp
- Higher pressures available
- Other materials of construction available

2. Standard Construction

The W6 series bag filter housings are designed for operation up to 150 psi. The housing design provides a large sump area at the bottom of the basket for particulate accumulation. This design utilizes the filter more efficiently and prolongs the life of the bag filter. The stainless steel basket rests on a steel support ring with an o-ring mounted in a groove, allowing the bag ring to seal and eliminating particulate bypass between the basket and ring. Optional mesh-lined strainer baskets and various materials for o-rings are available.

A vent located in the housing lid and a drain port allow fast evacuation and rapid filling. Gauge ports are located on the body of the housing to install gauges for monitoring of differential pressure across the bag or strainer basket. Permanently piped housings are opened with simple tools without disturbing the piping. Swing bolts with eye-nuts allow easy opening and closing of the lid. There is no need to remove any of the hardware. As a standard finish, all vessels are blast cleaned and painted with a coat of machinery enamel.

3. Dimensional Information

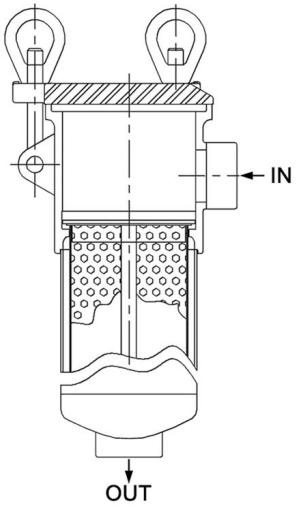
W8 Series Bag Filter Housing Data

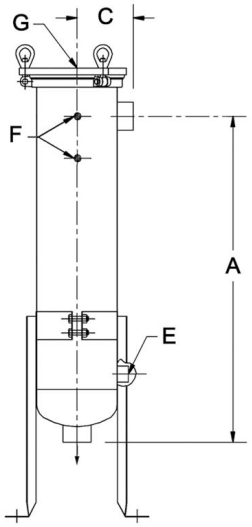
Pipe Size	Bag Depth	A	B	C	D	Drain E	Gauge Ports F	Vent Port G
2	15	24.7	25.4	5.3	6.7	1.0	0.25	0.25
2	30	36.2	37.4					
3	15	24.7	26.5	5.4	7.1	1.0	0.25	0.25
3	30	36.2	38.0					
4	15	24.7	26.6	5.4	7.1	1.0	0.25	0.25
4	30	36.2	38.1					

Basket Data for W8 Series Bag Vessel with Flow Rates to 220 gpm

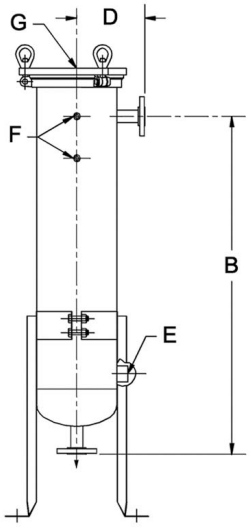
Basket Depth (Nominal)	Basket Diameter	Basket Surface Area (sq. ft.)	Volume (cu. in.)	Standard Bag Size
15	6.7	2.3	500	#1
30	6.7	4.4	1000	#2

Dimensions shown in inches unless otherwise noted. Due to our continuing program of product improvement, specifications are for reference only and subject to change without notice. Dimensions are approximate values and not intended for piping specifications.





FNPT Style Inlet/Outlet



Flanged Style Inlet/Outlet

4. Typical Model Number

W	8	N	U	30	U	15	N	2
Bag Series	Vessel OD Inches	Inlet Location	Material	Basket Depth	ASME Code	Maximum Pressure	Inlet and Outlet Style	Inlet and Outlet Size