# W8 Series

## BAG FILTER HOUSINGS

### Housings Accommodate #1 or #2 Size Bags

**INTRODUCTION**

The W8 series (formerly Nowata) 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.

**FEATURES**

- 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**

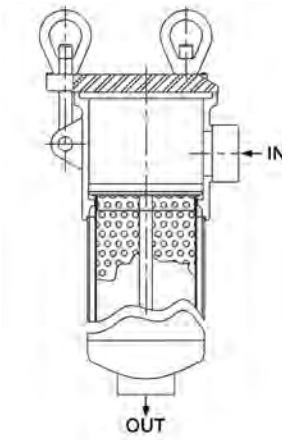
- Mesh lined strainer baskets
- ASME code stamp
- Higher pressures available
- Other materials of construction available

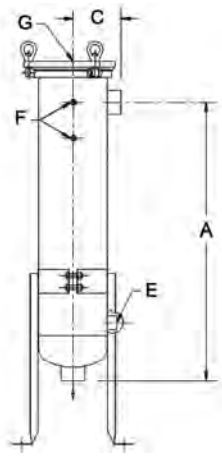
## STANDARD CONSTRUCTION

The W8 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.

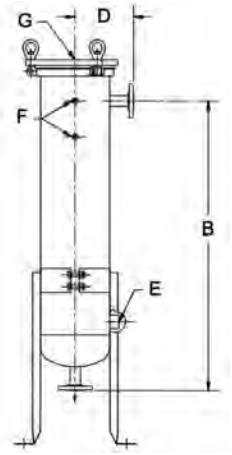
A vent located in the housing lid and a drain port allow fast evacuation and rapid filling. Gauge ports are located on the body of the housing to install gauges for monitoring of differential pressure across the bag or strainer basket. Permanently piped housings are opened with simple tools without disturbing 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.

## DIMENSIONAL INFORMATION




FNPT Style
Inlet/Outlet




Flanged Style
Inlet/Outlet

| W8 Model Bag Filter Housing Data | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Pipe Size | Bag Depth | A | B | C | D | E Drain | F Gauge Port | G Vent Port |
| 2 | 15<br>30 | 24.7<br>36.2 | 25.4<br>37.4 | 5.3 | 6.7 | 1.0 | 0.25 | 0.25 |
| 3 | 15<br>30 | 24.7<br>36.2 | 26.5<br>38.0 | 5.4 | 7.1 | 1.0 | 0.25 | 0.25 |
| 4 | 15<br>30 | 24.7<br>36.2 | 26.6<br>38.1 | 5.4 | 7.1 | 1.0 | 0.25 | 0.25 |

| Basket Data for W6 Series Bag Vessel with Flow Rates to 100 gpm | | | | |
|---|---|---|---|---|
| Basket Depth (Nominal) | Basket Diameter | 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 in inches except where 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.

## TYPICAL MODEL NUMBER

| W | 8 | T | U | 30 | U | 15 | W | 2 | V | E | |
|---|---|---|---|---|---|---|---|---|---|---|---|

**Jonell Systems Series**

| | |
|---|---|
| W | Bag Series |

**Vessel OD**

| | | | |
|---|---|---|---|
| 4 | 4" | 24 | 24" |
| 6 | 6" | 30 | 30" |
| 8 | 8" | 36 | 36" |
| 18 | 18" | 42 | 42" |
| 22 | 22" | 48 | 48" |

**Inlet Location**

| | |
|---|---|
| T | Over the Top Entry |
| N | Side Entry |
| B | Bottom Entry |

**Material**

| | |
|---|---|
| U | 316 SS Wetted |
| C | Carbon Steel |
| H | Hastelloy Wetted |
| A | 304 SS Wetted |

**Basket Depth**

| | |
|---|---|
| 12 | 12" |
| 15 | 15" |
| 18 | 18" |
| 30 | 30" |

**ASME Code**

| | |
|---|---|
| C | ASME U stamp |
| U | ASME UM stamp |
| N | Non-code |

**Maximum Pressure**

| | |
|---|---|
| 10 | 100 psi |
| 15 | 150 psi |
| 30 | 300 psi |

**Inlet/Outlet Style**

| | |
|---|---|
| N | FNPT |
| F | RFSO |
| W | RFWN |
| B | Butt Welded |
| K | Sanitary Connection |

**Inlet/Outlet Size**

| | | | |
|---|---|---|---|
| 1 | 1" | 6 | 6" |
| K | 1½" | 8 | 8" |
| 2 | 2" | 10 | 10" |
| 3 | 3" | 12 | 12" |
| 4 | 4" | | |

**O-ring Material**

| | |
|---|---|
| N | Buna |
| V | Viton |
| E | EPDM |
| S | Teflon encapsulated silicon |
| T | Teflon encapsulated Viton |

**Outlet Location**

| | |
|---|---|
| B | Bottom |
| E | Bottom Elbow Outlet |
| S | Side Outlet |
| T | Tee Bottom |

**Options**

| | |
|---|---|
| O | Opposite Hand I/O orientation |
| S | Strainrite hinged lid with special body length |