This general purpose, single-cartridge filter housing is designed for controlling particulate and microbial contamination in liquids and gases. It offers high reliability, security and economy for continuous or point-of-use service, as well as for small and medium batch processing applications.

**Design Features**

- Accepts one 5", 10", 20", 30" or 40" cartridge filter
- Flow rates to 20 gpm (76 L min⁻¹) for liquids, or 300 scfm (510 Nm³ h⁻¹) for gases
- Electropolished 316L stainless steel construction gives maximum durability and corrosion resistance
- Quick-release closure clamp allows easy disassembly and fast cartridge filter replacement
- Effective in a wide range of process applications
- Three configurations available to fit many cartridge filter styles
- Sealing surfaces on investment cast head are machined and finished to exacting tolerances
- Upstream and downstream ports permit venting, draining, sampling or pressure gauge placement

**Water Flow Rates**

<table>
<thead>
<tr>
<th>Flow Rate, gpm</th>
<th>0</th>
<th>5</th>
<th>10</th>
<th>15</th>
<th>20</th>
<th>25</th>
<th>30</th>
<th>35</th>
<th>40</th>
<th>45</th>
<th>50</th>
<th>55</th>
<th>60</th>
<th>65</th>
<th>70</th>
<th>75</th>
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</thead>
<tbody>
<tr>
<td>L min⁻¹</td>
<td>0</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
<td>15</td>
</tr>
<tr>
<td>Differential Pressure, psig</td>
<td>0</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
<td>15</td>
</tr>
</tbody>
</table>

**Air Flow Rates**

<table>
<thead>
<tr>
<th>Flow Rate, scfm</th>
<th>0</th>
<th>50</th>
<th>100</th>
<th>150</th>
<th>200</th>
<th>250</th>
<th>300</th>
<th>350</th>
<th>400</th>
<th>450</th>
<th>500</th>
<th>550</th>
<th>600</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nm³ h⁻¹</td>
<td>0</td>
<td>50</td>
<td>100</td>
<td>150</td>
<td>200</td>
<td>250</td>
<td>300</td>
<td>350</td>
<td>400</td>
<td>450</td>
<td>500</td>
<td>550</td>
<td>600</td>
</tr>
<tr>
<td>Differential Pressure, psig</td>
<td>0</td>
<td>5</td>
<td>10</td>
<td>15</td>
<td>20</td>
<td>25</td>
<td>30</td>
<td>35</td>
<td>40</td>
<td>45</td>
<td>50</td>
<td>55</td>
<td>60</td>
</tr>
<tr>
<td>(eqv) μv</td>
<td>0</td>
<td>5</td>
<td>10</td>
<td>15</td>
<td>20</td>
<td>25</td>
<td>30</td>
<td>35</td>
<td>40</td>
<td>45</td>
<td>50</td>
<td>55</td>
<td>60</td>
</tr>
</tbody>
</table>

Graphs valid for 5", 10", 20", 30" and 40" housings
- **DOE Style Housing**
- **222/226 Style Housing**
Specifications

Materials of Construction
Head & Bowl: 316L stainless steel
V-band Clamp: Stainless steel with plastic knob and brass insert
Closure O-ring: EPR standard
DOE Seal Nut: Polypropylene with 316 stainless steel insert
DOE Guide Post: Polypropylene with EPR O-ring standard

*Viton® and Teflon® are registered trademarks of E.I. du Pont de Nemours & Co.

Surface Finish
All surfaces are electropolished to a high quality finish.

Service Ratings
Liquid: 250 psig @ 70º F (17 bar @ 21º C)
Air/gas: 125 psig @ 70º F (9 bar @ 21º C)

Connections
Inlet/outlet: 3/4” or 1” NPT
Vents/drain: 1/4” NPT

Cartridge Lengths (Nominal)
222/DOE: 10”, 20”, 30” or 40”
(25 cm, 50 cm, 75 cm or 100 cm)
226: 5”, 10”, 20”, 30” or 40”
(12 cm, 25 cm, 50 cm, 75 cm or 100 cm)

Cartridge Connections
222 Style: Accepts single-open-ended (SOE) 10”, 20”, 30” or 40” cartridge filter with external, -222 O-ring style adapter. Housing shell is designed to prevent filter with closed fin end from unseating during use. To secure filter with closed cap end in place, an accessory compression spring is required.

226 Style: Accepts single-open-ended (SOE) 5”, 10”, 20”, 30” or 40” cartridge filter with external, -226 O-ring style locking adapter. A bayonet connector engages locking tabs on adapter and locks filter in position to prevent dislodging during use.

DOE Style: Accepts double-open-ended (DOE) 10”, 20”, 30” or 40” cartridge filter with knife edge or gasket seal ends. Filter is aligned within the housing by a tie rod and secured in place by a seal nut before closure.

Mounting
The housing can be mounted in any position and supported on suitably braced, rigid pipe connections. An accessory wall mounting bracket is available for use in flexible tubing installations.

Options
In addition to our standard housings, Meissner Filtration Products, Inc. designs and manufactures specially engineered filter housings to meet unique design or process requirements. Variations include, but are not limited to: thermal jacketing, customized inlet/outlet connections such as sanitary flange, RF flange or other specialty connection types and sizes. If you need a housing with a unique combination of features, Meissner will custom engineer it to meet your specific requirements. Contact us for details.

Safety
Each Meissner housing is individually inspected, tested and serialized to ensure the highest quality and safety.

Ordering Information

Replacement Parts & Accessories

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
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<tr>
<td>19140-10</td>
<td>Housing Clamp, V-band</td>
</tr>
<tr>
<td>19040-10</td>
<td>Housing Clamp, Cast, SS</td>
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<tr>
<td>19145-00</td>
<td>Housing Clamp, High Pressure, SS</td>
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<td>4205-343</td>
<td>Closure O-ring - EPR</td>
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<tr>
<td>4209-343</td>
<td>Closure O-ring - Buna</td>
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<tr>
<td>4205-343</td>
<td>Closure O-ring - Silicone</td>
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<tr>
<td>420V-343</td>
<td>Closure O-ring - Viton®</td>
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<tr>
<td>420X-343</td>
<td>Closure O-ring - Teflon® over Viton®</td>
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<tr>
<td>420T-343</td>
<td>Closure O-ring - Teflon® over Silicone®</td>
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<tr>
<td>10466-00</td>
<td>DOE Seal Nut, SS</td>
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<td>10470-00</td>
<td>DOE Guide Post, SS</td>
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<td>4200-C2E</td>
<td>DOE Guide Post O-ring, EPR</td>
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<td>DOE Guide Post O-ring, Viton®</td>
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<tr>
<td>4200-C2X</td>
<td>DOE Guide Post O-ring, Teflon® over Viton®</td>
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<td>19300-00</td>
<td>Mounting Bracket Kit, SS</td>
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<tr>
<td>19110-00</td>
<td>Compression Spring, SS</td>
</tr>
</tbody>
</table>

HA1-01 Industrial Filter Housing

HA1 - 01 -

Closure Options
A = Standard-V-band Clamp
D = Cast Clamp
E = High Pressure Bolted Clamp

Element Length
1 = 10”
2 = 20”
3 = 30”
4 = 40”
5 = 50”

Inlet/Outlet Option
Sanitary Flange
SF = 1”
Threaded (NPT)
TE = 3/4”
TF = 1”

Cartridge Connection
150# RF Flange
FF = 1”
FH = 1.5”
FI = 2”

Closure O-ring
2 = 222 Style
6 = 226 Style
R = DOE with tie rod & seal nut

E = EPR
B = Buna
S = Silicone
T = Teflon®
X = Teflon® over Silicone
V = Viton®

3.5” (8.9 cm)

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