I GH 3-18
industrial gas housing

Stainless steel filter housings for critical applications in Food & Beverage, Pharmaceutical and Microelectronics industries

The IGH 3-18 series are floor mounted filter housing with top flange cover specifically designed for safe and efficient filtration of compressed air and nitrogen in utility and process applications. They are available for 3 to 18 cartridges in a wide range of configurations and are manufactured in compliance with the industry standards. The stainless steel housings with high quality elektro-polish finishing provide maximum durability and resistance to corrosion while ensuring ultimate gas quality.

Together with the Atlas Copco filter cartridges series PFG-G, PFP-G, ARC, SFG-G and SMT-G they provide safe, reliable and efficient performance.

Key features:
- High flow and low pressure drop
- High quality electro-polish surface treatment
- Forward- and reverse flow version
- Top flange cover with swing bolts for easy access

Applications:
- Compressed air, nitrogen and other gases
- Pre-, after- and final filtration
- Particle removal, coalescing and sterilizing purposes

Qualifications:
- Manufacturing acc. ISO 9001
- Design ASME VIII, div. 1
- ASME UM-stamp/CE approval
- Gasket material meets FDA title 21 and EU Regulation No. 1935/2004
- Documentation (CoC, material certificates, etc.) included

Protecting process, products and people

Atlas Copco’s process filters optimize your productivity while protecting your process, product and consumers. Our portfolio of cartridges and housings covers all your filtration needs. The products are made from proven, high quality materials from reputable suppliers and manufactured in a controlled environment subjected to strict QA/QC procedures.
Product specifications

Materials

Housing: SS304/SS316L
Internals (seat cups, tie rods, compression plate, wing nuts): SS304/SS316L
Swing bolts/washers/nuts: SS304
Gasket: Silicone, Viton, EPDM

Design

Design code: ASME VIII div. 1
Approval: CE/UM-Stamp
Design pressure: -1/12.1 bar(g) - 14.5/175 PSIG
Design temperature: -20/94°C - -4/200 °F
Vessel style: Z - side inlet and outlet, forward flow (particle removal)
ZR - side inlet and outlet, reverse flow (coalescing/adsorption)
Closure: CEB - Cover + swing bolts + eye nuts
CBN - Cover + swing bolts + nuts
Installation: Fixed legs (3) for floor mounting

Finishing

Internal/external Electro-polish, other treatments available
Weld finishing: As welded, ground or polish options available

Options

Differential pressure gauge: Stainless steel 0-1 bar/0-15 PSI
Ball valve: Stainless steel for drain and vent

Product configuration

<table>
<thead>
<tr>
<th>Series</th>
<th>Housing Style</th>
<th>Pressure PSIG</th>
<th>Cartridge</th>
<th>Housing Material</th>
<th>Gasket Material</th>
<th>Closure</th>
<th>Finish</th>
<th>In/Outlet</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>IGH</td>
<td>Z⁵</td>
<td>175</td>
<td>3 / 5</td>
<td>10&quot;</td>
<td>C7</td>
<td>SS304</td>
<td>E</td>
<td>See table CE</td>
<td></td>
</tr>
<tr>
<td>ZR²</td>
<td>7 / 10</td>
<td>20&quot;</td>
<td>C8</td>
<td>SS316L</td>
<td>E = EPDM</td>
<td>CBN</td>
<td>UM</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12 / 18</td>
<td>30&quot;</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

¹ = Forward flow (outside – inside), ² = Reverse flow (outside – inside), ³ = Electro polish (internal/external)

Example: IGH Z 175 S 20" C8 SS316L CBN E 4"ANSI150# UM

Note: Some combination are invalid, please check with the local Atlas Copco representative

Connections

<table>
<thead>
<tr>
<th>Cartridge</th>
<th>Housing Diameter</th>
<th>Drain¹ Connection</th>
<th>Vent¹ Connection</th>
<th>Gauge¹ Connection</th>
<th>In/Outlet Connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>No.</td>
<td>Length</td>
<td>No. 10&quot;</td>
<td>mm</td>
<td>Inch</td>
<td>¼&quot; F</td>
</tr>
<tr>
<td>3</td>
<td>10&quot;</td>
<td>3</td>
<td>219</td>
<td>8</td>
<td>¼&quot; F</td>
</tr>
<tr>
<td>3</td>
<td>20&quot;</td>
<td>6</td>
<td>219</td>
<td>8</td>
<td>½&quot; F</td>
</tr>
<tr>
<td>5</td>
<td>10&quot;</td>
<td>5</td>
<td>233</td>
<td>9</td>
<td>¼&quot; F</td>
</tr>
<tr>
<td>5</td>
<td>20&quot;</td>
<td>10</td>
<td>233</td>
<td>9</td>
<td>½&quot; F</td>
</tr>
<tr>
<td>5</td>
<td>30&quot;</td>
<td>15</td>
<td>233</td>
<td>9</td>
<td>⅝&quot; F</td>
</tr>
<tr>
<td>7</td>
<td>20&quot;</td>
<td>14</td>
<td>233</td>
<td>9</td>
<td>¼&quot; F</td>
</tr>
<tr>
<td>7</td>
<td>30&quot;</td>
<td>21</td>
<td>233</td>
<td>9</td>
<td>⅝&quot; F</td>
</tr>
<tr>
<td>10</td>
<td>20&quot;</td>
<td>20</td>
<td>305</td>
<td>12</td>
<td>⅝&quot; F</td>
</tr>
<tr>
<td>10</td>
<td>30&quot;</td>
<td>30</td>
<td>305</td>
<td>12</td>
<td>⅜&quot; F</td>
</tr>
<tr>
<td>12</td>
<td>20&quot;</td>
<td>24</td>
<td>355</td>
<td>14</td>
<td>⅝&quot; F</td>
</tr>
<tr>
<td>12</td>
<td>30&quot;</td>
<td>36</td>
<td>355</td>
<td>14</td>
<td>⅜&quot; F</td>
</tr>
<tr>
<td>18</td>
<td>20&quot;</td>
<td>36</td>
<td>405</td>
<td>16</td>
<td>⅝&quot; F</td>
</tr>
<tr>
<td>18</td>
<td>30&quot;</td>
<td>54</td>
<td>405</td>
<td>16</td>
<td>⅜&quot; F</td>
</tr>
</tbody>
</table>

¹ = BSP for ISO flanges, NPT for ANSI flanges