Stainless Steel Industrial Filters

High efficiency stainless steel industrial filters for critical process applications & caustic environments

The nano P-Series¹ range of industrial filters are fabricated from polished 304 or 316 stainless steel for critical compressed air and gas applications in the high tech manufacturing, food processing, and beverage industries.

This range encompasses ten models with connections from 1/4” to 3” and rated flows from 50 to 1150 scfm.

Specifically designed for the efficient and effective removal of contaminants in sterile or caustic environments, these filters are ideally suited for process applications such as food and beverage facilities with washdown requirements.

The unique interchangeable borosilicate microfiber elements incorporate stainless steel support media and a positive double o-ring click-lock seal to ensure optimal filtration integrity.

High performance filtration for industrial process facilities

With high efficiency low pressure drop performance and a choice of adsorbing, coalescing and particulate elements, there is no better filter for your industrial process needs.
## Technical Specification

<table>
<thead>
<tr>
<th>Filter Model</th>
<th>Inlet &amp; Outlet</th>
<th>Rated Flow (1)</th>
<th>Dimensions (inches)</th>
<th>Approx. Weight</th>
<th>Replacement Element</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>NPT(F)</td>
<td>scfm</td>
<td>Nm³/h</td>
<td>A</td>
<td>B (2)</td>
</tr>
<tr>
<td>PF 0050 (grade) -N</td>
<td>¼”</td>
<td>50</td>
<td>85</td>
<td>9.45</td>
<td>4.14</td>
</tr>
<tr>
<td>PF 0065 (grade) -N</td>
<td>¼”</td>
<td>65</td>
<td>110</td>
<td>9.45</td>
<td>4.14</td>
</tr>
<tr>
<td>PF 0085 (grade) -N</td>
<td>½”</td>
<td>85</td>
<td>144</td>
<td>9.45</td>
<td>4.25</td>
</tr>
<tr>
<td>PF 0120 (grade) -N</td>
<td>½”</td>
<td>120</td>
<td>204</td>
<td>9.45</td>
<td>4.92</td>
</tr>
<tr>
<td>PF 0170 (grade) -N</td>
<td>1”</td>
<td>170</td>
<td>289</td>
<td>11.40</td>
<td>4.92</td>
</tr>
<tr>
<td>PF 0295 (grade) -N</td>
<td>1 ½”</td>
<td>295</td>
<td>501</td>
<td>12.70</td>
<td>5.51</td>
</tr>
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<td>PF 0460 (grade) -N</td>
<td>2”</td>
<td>460</td>
<td>782</td>
<td>19.02</td>
<td>6.70</td>
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<td>PF 0680 (grade) -N</td>
<td>2”</td>
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<td>1156</td>
<td>29.37</td>
<td>6.70</td>
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<tr>
<td>PF 0850 (grade) -N</td>
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<td>850</td>
<td>1444</td>
<td>29.53</td>
<td>7.17</td>
</tr>
<tr>
<td>PF 1150 (grade) -N</td>
<td>3”</td>
<td>1150</td>
<td>1954</td>
<td>40.04</td>
<td>7.17</td>
</tr>
</tbody>
</table>

### Specifications

- **Design operating pressure range**: 0 to 232 psig
- **Inlet & outlet connections**: NPT(F)
- **Drain & vent connections**: 1/4” BSPP
- **Differential pressure indicator / gauge**: on request
- **Filter housing material**: 304 stainless steel
- **Maximum particle size (ISO Class) (3)**: 2 1 1
- **Maximum oil content (ISO Class) (3)**: 2 1 1
- **Particle removal (microns)**: 1 0.01 -
- **Max oil carry over at 68°F (ppm or mg/m³)**: 0.1 0.01 0.003
- **Oil removal efficiency at 68°F**: >99.99% >99.999%
- **Recommended operating temp range (°F)**: 35 - 212 35 - 450 35 - 77
- **Design operating temp range (°F)**: 35 - 248 35 - 450 35 - 122
- **Pressure drop - clean**: 1.0 psid 1.5 psid 1.85 psid
- **Maximum element life**: 12 months or 8000 hours 6 months or 1000 hrs

### Pressure Correction Factors

- **Operating pressure (psig)**: 60 70 85 100 115 145 175 205 232
- **Correction factor**: 0.76 0.84 0.92 1.00 1.07 1.19 1.31 1.41 1.51

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(1) At 100 psig. For all other pressures, refer to the pressure correction factors above.
(2) +/- 0.118”
(3) Per ISO 8573-1:2001 (E)
- Install with air flow from inside to outside for coalescing and from outside to inside for dry dust filtration.