GAS FILTRATION

Filters and Separators
NOWATA FILTRATION FOR GAS

DRY GAS FILTER

Removes particulate contamination from dry gas including dust, dirt, sand and pipe scale.

- Standard cartridge: NFG-36 or NFG-336 with 1 or 0.5 micron ratings.
- Vertical and Horizontal configurations available.
- High flow rate at low differential pressure.
- Single stage filtration.

FILTER/SEPARATOR

Removes particles of dust, dirt, sand and pipe scale plus liquids including water, natural gas liquids, and light hydrocarbons.

- Standard cartridge: NFG-36 or NFG-336.
- Includes two-stage construction with cartridges and mist eliminator.
- Horizontal units offer separate individual lower sump for liquids collection.
- Optional custom instrumentation and automation.

Not intended for the exclusive removal of oil aerosols.

COALESCER

Removes compressor oil, trace hydrocarbons and water. Not intended to remove particles or large amounts of water.

- Standard cartridge: High-efficiency 0.3 micron NFF-36 or NFF-336 reverse flow coalescer.
- Configured vertically regardless of flow rate to utilize gravitational liquid removal benefits.
- Automation available for monitoring and dumping collected liquids.

Contains a large bottom sump area for collected liquids as well as a standard upper chamber sump.
CARTRIDGES

FORWARD FLOW CARTRIDGES

NFG Series cartridges are designed to filter particles and coalesce liquids from natural gas without excessive pressure differential build-up in forward flow (outside in) applications.

<table>
<thead>
<tr>
<th>Cartridge Number</th>
<th>Nominal Micron Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>NFG-36</td>
<td>1</td>
</tr>
<tr>
<td>NFG-36-UF</td>
<td>0.5</td>
</tr>
<tr>
<td>NFG-336</td>
<td>1</td>
</tr>
<tr>
<td>NFG-336-UF</td>
<td>0.5</td>
</tr>
</tbody>
</table>

REVERSE FLOW CARTRIDGES

NFF Series cartridges are designed to coalesce extremely fine liquid aerosols, including lubricating oil downstream of a compressor, in reverse flow (inside out) applications. Extremely durable, these cartridges can withstand over 75 PSI differential pressure in either direction.

<table>
<thead>
<tr>
<th>Cartridge Number</th>
<th>Nominal Micron Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>NFF-36-R</td>
<td>0.3</td>
</tr>
<tr>
<td>NFF-36-R1</td>
<td>0.1</td>
</tr>
<tr>
<td>NFF-336-R</td>
<td>0.3</td>
</tr>
<tr>
<td>NFF-336-R1</td>
<td>0.1</td>
</tr>
</tbody>
</table>

Better than 99.98% efficient (Beta 5000 removal).

NFG-36 and NFF-36 cartridges are 3 9/16" OD x 2" ID x 36" long. NFG-336 and NFF-336 cartridges are 4 1/2" OD x 3" ID x 36" long.

Other lengths available include: 12", 18", 24" and 72".

Molded fiberglass tube is made from compressed glass fibers bonded with inert phenolic binders.

Heavy-duty spiral-locked center core supports the fiberglass tube and protects against collapse at high differential pressures.

Maximum operating temperature: 275°F.

Recommended change-out differential: 15 PSI.

The Right Choice

Nowata’s nationwide organization of exclusive representatives and regional managers will provide excellent field support for your operations. Fax, email or regular mail us your completed Gas Application Sizing Worksheet today and let us show you what a difference the right choice can make.

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GAS PRODUCTION FLOW PROCESS

**PRODUCTION**

1. Before gas reaches the stage, seed it through a NovaTata Dry Gas Filter or Filter Separator.
2. Use a NovaTata Filter Separator to filter gas to prevent corrosion and exposure to gas concentration equipment.
3. Use a NovaTata Filter Separator to filter gas to prevent corrosion and exposure to gas concentration equipment.
4. Use a NovaTata Filter Separator to filter gas to prevent corrosion and exposure to gas concentration equipment.

**TREATMENT**

5. Use a NovaTata Filter Separator to remove liquid and particulate before Amine or Glycol processing.
6. Run gas through a NovaTata Filter Separator or Collector after Amine processing to remove carry-over debris.
7. After Glycol processing and before pipeline transportation, filter gas with a NovaTata Filter Separator or Collector to remove carry-over Glycol.

**PIPEDLINE**

8. Use a NovaTata Filter Separator to filter gas after compressor stations before the gas enters in the distribution system.

**DISTRIBUTION**

9. Use a NovaTata Filter Separator to filter gas after compressor stations before the gas enters in the distribution system.

**Filter Specifications**

NovaTata filtration systems are customized and constructed using corrosion-resistant materials to ensure optimal performance.

- **Molecular Process**
  - Use a NovaTata Filter Separator to remove liquid and particulate before Amine or Glycol processing.
  - Run gas through a NovaTata Filter Separator or Collector after Amine processing to remove carry-over debris.
- **Amine Process**
  - After Glycol processing and before pipeline transportation, filter gas with a NovaTata Filter Separator or Collector to remove carry-over Glycol.
- **Euthol Process**
  - Use a NovaTata Filter Separator to filter gas after compressor stations before the gas enters in the distribution system.
- **Amine Process**
  - After Glycol processing and before pipeline transportation, filter gas with a NovaTata Filter Separator or Collector to remove carry-over Glycol.
- **Determining Your Gas Application Size**
  - NovaTata Filtration Systems are designed to meet the specific needs of the customer.
  - The system size is determined by the amount of gas that needs to be filtered at a given pressure.

**Our Promise at NovaTata Filtration:**

Customer Satisfaction...Continual Improvement

NovaTata Filtration Systems are designed to meet the specific needs of the customer. The system size is determined by the amount of gas that needs to be filtered at a given pressure. We aim to provide a cost-effective solution that meets the customer's requirements.

**DowNTM**

DowNTM provides a comprehensive solution for gas production processes. It includes a series of integrated systems designed to optimize the production flow process. The systems are designed to work seamlessly with each other, ensuring maximum efficiency and reliability.

**Conclusion**

DowNTM's technical team is dedicated to providing the highest quality filtration systems. We are committed to providing a cost-effective solution that meets the customer's requirements.