DELTA Carbon Di-Oxide Gas Filters provide the best filtration solution for high pressure compressed CO₂ gas application. High pressure sealing systems developed in-house have been tested up to 1000 Bar. This technique has been employed in critical applications such as high pressure CO₂ filtration.

Delta CO₂ Gas Filters offer both particulate removal and liquid separation in a single filter housing. Borosilicate glass fibre based filter elements offer the best performance in the industry. The process of pleating introduces 5 times the surface area for filtration as compared to traditional filter elements. The end result is large surface area, long life of filter elements, lowest pressure drop and long Mean Time Between Maintenance (MTBM).

**SALIENT FEATURES:**
- Filters Vessels designed as ASME Code
- 100% Machined Filter Body. No welding for high pressure applications
- With Delta Borosilicate Glass Fibre Filter Elements
- Highest Filtration Area, Low Pressure Drop (0.07 Bar) and long MTBM
- Particulate Filtration down to 0.1 Micron, 99.9999%
- Coalescing Action to ensure less than 0.1 ppm liquid at outlet gas
- Upto 250 Bar Working Pressure
- Hydro Test as per Code.
DELTA Flanged CO2 Gas Filter

DELTA Pleated GlassFibre Cartridges
DELTA CO$_2$ GASE FILTER MODELS

<table>
<thead>
<tr>
<th>MODEL</th>
<th>LINE SIZE (NB)$^1$</th>
<th>END CONNECTION</th>
<th>FLOW RATE (SCMH@250 Bar)$^2$</th>
<th>HOUSING MOC$^3$</th>
<th>ELEMENT MODEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>CO2-025</td>
<td>¼&quot;</td>
<td>BSP / NPT</td>
<td>300</td>
<td>SS304</td>
<td>DW48</td>
</tr>
<tr>
<td>CO2-050</td>
<td>½&quot;</td>
<td>BSP / NPT</td>
<td>500</td>
<td>SS304</td>
<td>DW410</td>
</tr>
<tr>
<td>CO2-075</td>
<td>¾&quot;</td>
<td>BSP / NPT</td>
<td>1000</td>
<td>SS304</td>
<td>DW415</td>
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<tr>
<td>CO2-100</td>
<td>1&quot;</td>
<td>BSP / NPT</td>
<td>1500</td>
<td>SS304</td>
<td>DW420</td>
</tr>
<tr>
<td>CO2-125</td>
<td>1¼&quot;</td>
<td>BSP / NPT</td>
<td>1700</td>
<td>SS304</td>
<td>DW425</td>
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<tr>
<td>CO2-150</td>
<td>1½&quot;</td>
<td>BSP / NPT</td>
<td>2000</td>
<td>SS304</td>
<td>DW430</td>
</tr>
</tbody>
</table>

1. Larger sizes available on request to serve higher gas flow rates
2. Contact us for permissible flow rate at operating pressure other than 250 Bar
3. Filter Housing can be provided in SS316 / SS316L MOC if required

MATERIAL OF CONSTRUCTION

1. Filter Housing: SS304 / SS316 / A106 Gr. B (Options)
2. Gasket: SS Spiral Wound Grafoil filled
3. Filter Media: Borosilicate Glass Fibre
4. Element Support: SS304
5. Filter Element Seals: Viton

APPLICATIONS

DELTA CO$_2$ Filters are widely used in various applications including
- Carbon Di-Oxide generation plants
- Pre-Filters and Post Filters for CO2 Gas Dryers
- Coalescing Filters for moisture removal from CO2 Gas

DELTA FILTERS & SEPARATORS PVT LTD

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