# Contour Gas

## Large Diameter Depth Cartridge

Contour Gas melt blown cartridge filters utilise the very latest in high strength fibre production to create a large diameter high flowing element. They are available in core-free configuration as well as single open ended (SOE).

Available in two removal ratings, the filter has been designed for the economic removal of particulate such as 'black powder' from gas transmission lines.

Contour Gas filters can be supplied to retrofit directly into existing systems. If improved maintenance e.g. removal of retained bulk black powder, is required a new design housing and SOE cartridge filter assembly can be provided.

The graded density of the melt blown structure ensures the efficient removal of fine sub-micron particles while also providing an ideal surface for cake formation. This is a critical feature for the very high particulate loadings associated with corroded transmission lines.

Particle removal efficiencies have been verified against the practical engineering standards of the oil majors to ensure continuous outstanding performance in the real world .

Contour Gas fibres are blown continuously onto a central production mandrel, without the need for resin binders or lubricants. This results in a one piece, core-free construction that is resistant to unloading and media shedding. True depth filtration results from the closely controlled manufacturing process and environment, which also ensures a consistent and reliable high quality element.

*Black Powder accumulated in gas transmission pipeline. Image courtesy of ROSEN Group*

## Features and Benefits

- The large format and low pressure drops = lowered installation and operational costs
- Precisely controlled graded density structure = consistent reliable performance
- Wide chemical compatibility with a choice of Nylon 6 and Polypropylene
- Available in fine and coarse grades to match process requirements

## Industries and Applications

**Petrochemicals**

- Black Powder removal from gas transmission lines (raw gas/ethane)
- Removal of dessicant fines carried over from drying installations
- Removal of catalyst and active carbon fines
- Coalescer protection

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# Contour Gas Technical Data

### Dimensions
Outside Diameter: 152mm (6")
Core Diameter: 114mm (4")

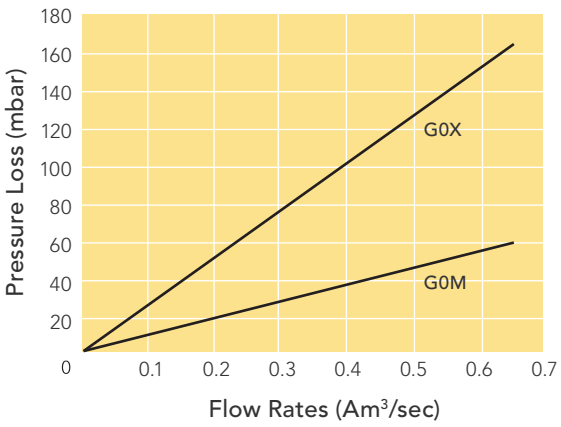
### Maximum Operating Conditions
Temperature: 14P: 80°C
14N: 150°C

### Maximum Differential Pressure

| Maximum ΔP | P Media | N Media |
|---|---|---|
| @ 30°C | 4.0 | 4.0 |
| @ 80°C | 1.0 | 2.0 |
| @ 130°C | N/A | 1.0 |
| @ 150°C | N/A | 0.5 |

Product validation guide available on request.

### Flow Rates (40" Element)




### Efficiency
**Contour Gas** was challenged in general accordance with BS EN 3328-1 using 0.3 micron particles
Grade G0X: 100% retention

To ensure performance testing is actually relevant to practical applications, the filter medium was also tested at larger particle sizes and varying challenge concentrations.

| | | Overall % Efficiency (0.2 - 3.0 micron) | | | | Efficiency @ >1 micron | |
|---|---|---|---|---|---|---|---|
| Particle Challenge Level | | Fine G0X Grade | | Coarse G0M Grade | | | |
| g/MMscf | mg/m³ | Numerical | Mass | Numerical | Mass | Numerical | Mass |
| 30 | 1.059 | 100 | 100 | 81.13 | 98.86 | 100 | 100 |
| 15 | 0.53 | 100 | 100 | 81.36 | 98.99 | 100 | 100 |
| 2 | 0.071 | 100 | 100 | 81.13 | 99.05 | 100 | 100 |

# Ordering Guide

| 14P | W | G0X - | 40 | N | N | A |
|---|---|---|---|---|---|---|
| Media | Core/Assembly | Micron Rating | Length | End Caps | Seal | Branding |
| 14P - Polypropylene<br>14N - Nylon 6 | W - Without Core<br>S - Stainless Steel* | G0X - Fine<br>G0M - Coarse | 40 - 1013mm<br>60 - 1520mm | N - None<br>W - SOE* | N - None<br>V - Viton | A - Amazon |

Example: 14PWG0X-40NNA = Polypropylene media, no core, 20µm Coarse rating, 1013mm (40") long.
* Stainless steel core only available with SOE variant

# New & Retrofit Applications

| Competitive Part Codes and Equivalent Contour Gas Codes | |
|---|---|
| **Profile Coreless*1** | **Amazon Code** |
| EBPSAH | 14PWG0X-40NNA |
| EBPSAH1 | 14PWG0M-40NNA |
| EFPSMEF | Contact Amazon Filters |

*1 Profile is a registered trademarks of Pall Corporation

Our engineers can work with you on new applications to design the most appropriate system or we can retrofit existing installations with our technology. Below are the common retrofits available. For availability on additional retrofits, please contact your Amazon Filters representative.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