PRODUCT DATASHEET

# High-Pressure Gas Filters and Dryers for Sample and Instrument Gas

Particulate, coalescing and membrane filters and desiccant dryers to about 400 bar

Product page





Close-up: high-pressure filter housings and dryer cartridge

## OVERVIEW

The Tech Inc. High-Pressure Gas Filters and Dryers for Sample and Instrument Gas protects analysers, regulators and instruments from particles, liquids and moisture in sample and instrument gas. In-line and T-type particulate filters, coalescing filters and membrane separators remove solids and liquid droplets at full line pressure, and desiccant dryers take the dew point down for moisture-sensitive analysers and pneumatic instruments.

## TYPICAL DESIGN DATA

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|---|---|
| **Pressure** | To about 400 bar (particulate); about 100 to 200 bar (coalescing, membrane, dryer) |
| **Element grades** | About 0.01 to 40 µm |
| **Materials** | 316L housings; Alloy C-276 or inert coatings on request |
| **Codes and standards** | Pressure parts to ASME B31.3 practice; instrument air quality to ISA-7.0.01 where used for instrument gas |
| **Connections** | 1/4 to 1/2 inch tube or NPT |
| **Dryer** | Molecular sieve or silica gel, indicating |
| **Seals** | FKM, FFKM or PTFE |

## MODELS AND CAPACITIES

- **TI-GFD-P400** – particulate filter to about 400 bar
- **TI-GFD-M100** – membrane separator to about 100 bar
- **TI-GFD-E** – replacement elements
- **TI-GFD-C200** – coalescing filter to about 200 bar
- **TI-GFD-D100** – desiccant dryer to about 100 bar

Indicative pressure ratings; element grades from about 0.01 to 40 µm.

## ORDERING CODE

Example **TI-GFD-C200-01-6**: **C200** type and rating: P400, C200, M100, D100; **01** element grade: 01 0.1 µm, 1 1 µm, 7 7 µm, 40 40 µm; **6** material: 6 316L, C C-276, I inert-coated.

## SCOPE OF SUPPLY

**Included:** factory acceptance test with a written report; drawings for approval, material certificates and manual. **Options:** differential-pressure indicators; inert-coated housings; twin-tower dryers; annual element kits; mounting plates.

## KEY ADVANTAGES

- **Protects** – analysers, regulators and instruments
- **Full pressure** – filters to about 400 bar
- **Right element** – grades from 0.01 to 40 µm
- **Spares** – elements stocked for every housing

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**Designed and built by Tech Inc.** · **Part of the Davey Group since 1990**

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