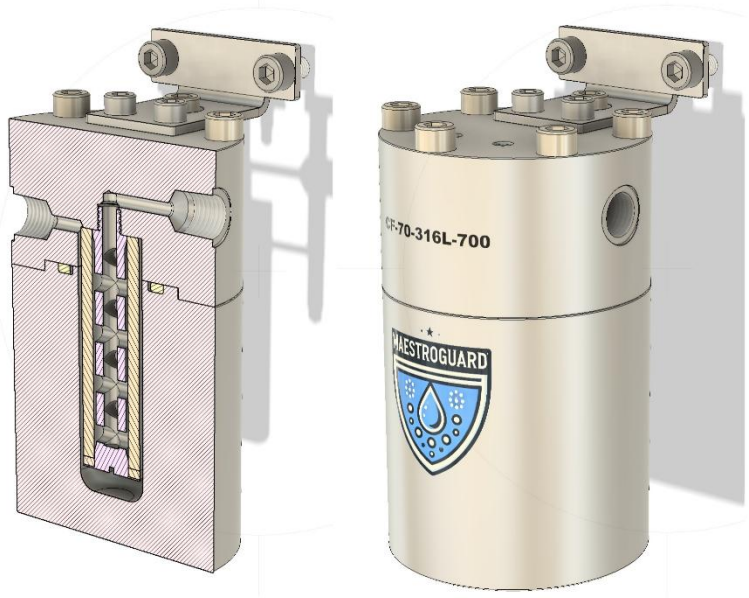
CF-70-316L-700 High-Pressure Hydrogen Filter

Product Description

The CF-70-316L-700 is a compact, high-pressure filter for gas filtration up to 700 bar, specially designed for natural gas hydrogen and other technical gases. The construction provides a gas flow rate comparable to the CF-50 model, but in a reinforced version for higher pressures



General Data

- Part number: CF-70-316L-700
- Material: Stainless steel 316L (ISO 11114-4 hydrogen-compliant)
- Filter element: Borosilicate glass fibre cartridge, binder-free
- Mass: 3,552.6 g
- Dimensions: Diameter 70 mm, Height 117 mm

Operating Data

- Max. operating pressure: 700 bar
- Test pressure: 1050 bar
- Max. temperature: Depending on O-ring material, typically up to +200 deg C
- Gas flow rate: up to 1000l/h
- Filtration ratings: 0.1 um, 1 um, or customised
- Sealing system: Classic bolted flange with O-ring seal

Connections

- Gas In / Gas Out: 1/4" NPTF (bi-directional flow)
- Optional bypass for continuous operation and drainage
- Pressure measurement ports upstream and downstream of the filter cartridge (for differential pressure monitoring)

Features

- Robust stainless steel housing for extreme pressures and hydrogen service
- Service-friendly design with replaceable filter elements
- Chemically inert borosilicate cartridge, binder-free
- Flexible configuration with optional bypass and measurement ports

Typical Applications

- Hydrogen refuelling systems - pre- and post-compression filtration
- H2 storage and compressor systems
- Analytical / process gas measurement - protecting analysers from particles, aerosols, and liquids
- Industrial high-pressure gas systems for Natural Gas, H2, N2, He, CH4, CO2…

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