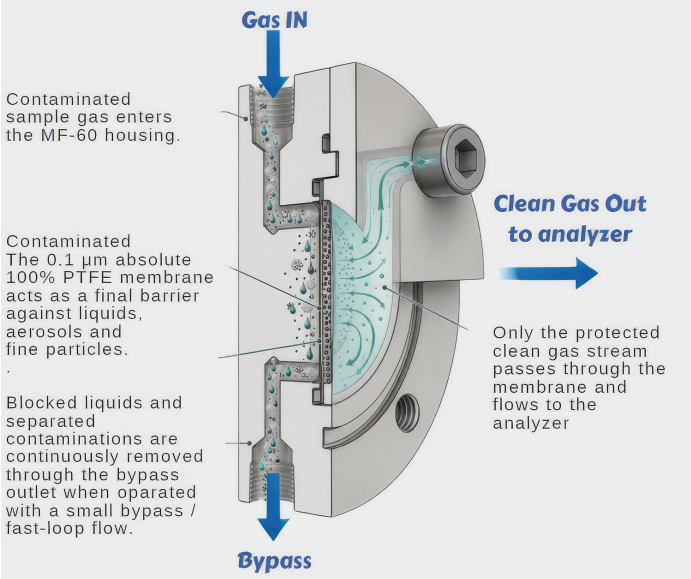




Global Analyser Solutions

# MaestroGuard Protection Filter

The MaestroGuard® MF-60 provides crucial final-stage protection directly before gas analysers and sensitive sample conditioning systems. Designed with ultra-low internal volume and a 0.1 µm absolute 100% PTFE membrane barrier, the MF-60 prevents liquid carry-over, aerosols, and fine particulates from damaging downstream sensors. By installing this compact unit at the last critical point of the sample path, operators eliminate measurement drift, suppress false alarms, and significantly extend analyser service life.




## Principle of operation:

Contaminated sample gas enters the 316L stainless steel housing where it encounters the hydrophobic membrane. The 0.1 µm 100% PTFE membrane acts as an absolute liquid barrier, permitting only clean, dry gas to pass through to the analyser ("Clean Gas Out").

Blocked liquid carry-over, condensed aerosols, and particulate debris are continuously flushed through the integrated bypass port. Operating with a low fast-loop/bypass flow rate (0.2–1 NL/min) ensures self-cleaning behavior and zero sample lag.

## Applications

- Analyser protection for gas sample systems
- Hydrogen and electrolyser applications
- Moisture and dew point analysis
- Environmental and emissions monitoring
- Process gas conditioning

## Specification

| | |
|---|---|
| Housing | Stainless steel 316L (1.4404) |
| Filter Element | 100% PTFE Membrane |
| Efficiency | < 0.1 µm absolute |
| Max Pressure | Up to 50 bar |
| Temp. Range | -200°C to +260°C (depending on seal) |
| Flow Rate | 40 L/h air @ 100 mbar |
| Internal Vol. | < 2.5 ml total (< 1 ml downstrm) |
| Ports | 1/8" NPT female |
| Compliance | EN 10204 3.1, CE, ATEX, PED 2014/68/EU, ISO 11114-4, ISO 1516 / NACE MR0175 |

Ordering information AG723 — Example: AG701 = MaestroGuard with Dursan coating

| | code | 3 (coating) | code |
|---|---|---|---|
| MF-60 with 1/8" connections | 0 | no coating | 0 |
| | | Dursan coated | 1 |

Includes connection kit: 2 reducers 1/8" Swagelok to NPT + 1 reducer 1/16" Swagelok to NPT + 1/16" tubing for flow balance between sample OUT/bypass flow.

About **GAS**

Global Analyser Solutions provides GC & GC-MS solutions for Energy, Refinery, Chemical and Environmental markets. Our analysers address a broad spectrum of measuring requirements with high precision and reliability. Please reach out for more information on our website: **www.gassite.com**