MAESTROGUARD®

ANALYZER PROTECTION FILTERS

MF-60 – THE LAST PROTECTION STAGE BEFORE THE ANALYZER



A compact stainless steel analyzer protection filter that stops liquids, aerosols and fine particles before they can harm sensitive analyzers and sample systems.

The MaestroGuard® MF-60 is the final line of defense installed directly before the analyzer. It blocks liquid carry-over, aerosols and fine particles at the last critical point in the sample path.

With very low internal volume and a 0.1 µm absolute 100% PTFE membrane, the MF-60 helps protect measurement stability, reduce downtime and extend analyzer service life.

THE PROBLEM:

- Liquid carry-over and aerosols
- Analyzer contamination
- Measurement drift & false alarms
- Service calls, downtime & cost

THE SOLUTION: MAESTROGUARD® MF-60

A compact, high-efficiency filter that delivers **final analyzer protection.**
It stops liquids, aerosols and fine particles before they reach the analyzer—helping protect performance, reduce downtime and extend analyzer service life.

FINAL PROTECTION

Installed at the last critical point before the analyzer.

FAST RESPONSE

Low internal volume supports fast response and low purge gas consumption.

RELIABLE & DURABLE

316L stainless steel construction with chemically resistant materials for long service life.

MAKE MF-60 YOUR STANDARD FINAL ANALYZER PROTECTION.

COMPACT.

Small footprint for analyzer cabinets, panels and skids.

RELIABLE.

Helps protect analyzer performance and improve uptime.

VERSATILE.

Suitable for OEM systems, sample conditioning and process analyzers.

www.maestroguard-filter.com
info@analytical-filters.com
+36 1 901 0620

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MF-60 – TECHNICAL OVERVIEW

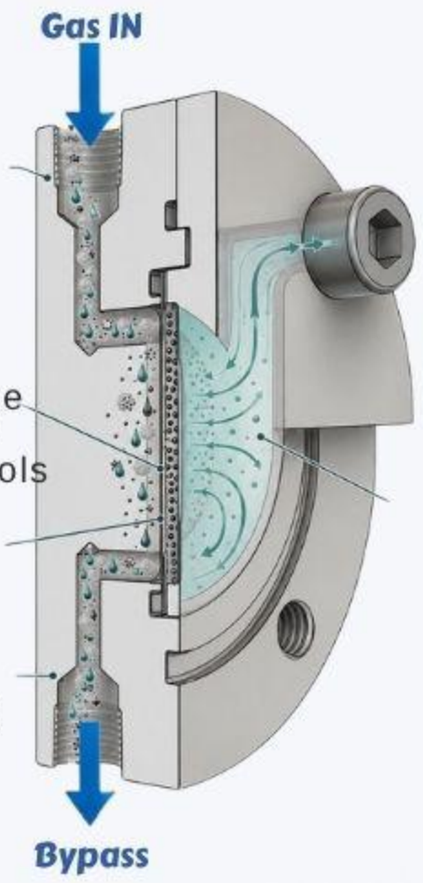
Compact. Reliable. Final Protection.

HOW IT WORKS

Contaminated sample gas enters the MF-60 housing.

The 0,1 µm absolute 100% PTFE membrane acts as a final barrier against liquids, aerosols and fine particles.

Blocked liquids and separated contaminants are continuously removed through the bypass outlet when operated with a small bypass / fast-loop flow.



Only the protected clean gas stream passes through the membrane and flows to the analyzer

The MaestroGuard® membrane blocks liquids, aerosols and particles.

WHY MF-60?

- Final protection directly before the analyzer
- Stops liquids, aerosols and fine particles
- Low internal volume for fast response
- Compact and easy to integrate
- Chemically resistant materials
- Reduces analyzer contamination, drift and downtime

TECHNICAL SPECIFICATIONS

Housing Material	Stainless steel 316L (1.4404)
Filter Element	MaestroGuard® membrane
Filtration Efficiency	< 0.1 µm absolute
Max Operating Pressure	Up to 50 bar
Temperature Range	—200°C to 260°C (depending on seal)
Flow Rate*	40 L/h air @ 100 mbar, customizable (Bypass flow: 0,2–3 Nl/min typical)
Internal Volume	< 2.5 ml total, < 1 ml downstream
Connections	"1/8" NPT female or on request
Seal Materials	FKM, FFKM, PTFE
Compliance	EN 10204-3.1, PED 2014/68/EU, ATEX assessment for non-electrical equipment, ISO 15156 / NACE MR0175, ISO 11114-4,

* Higher flow rates can be achieved by using a membrane with a larger pore size.

ORDERING INFORMATION

- **MF-60-316L-50-FKM-V1** 50 bar, O-ring FKM
- **MF-60-316L-50-FFKM-V1** 50 bar, O-ring FFKM
- **MF-60-316L-50-PTEF-V1** 50 bar, O-ring PTFE
- Option: MB-MF-60-S5 — mounting bracket in 316L
- Service kits available for FKM, FFKM and PTFE versions

TYPICAL USES

- Analyzer protection for gas sample systems
- Hydrogen and electrolyzer applications
- Moisture and dew point analysis
- Environmental and emissions monitoring
- Process gas conditioning
- OEM analyzer cabinets and skids

Reliable gas analysis starts with a clean, protected sample.

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