

- Filtration of liquids and gases
- Immission measurement
- Emission measurement
- Automotive
- Chemistry
- Petrochemistry
- · Sampling with continuous bypass

In analytical technology impurities in the form of oil and fine particles occure and have to be filtered for sampling gas analysis.

This is exactly why the sample gas filter, type MGF10 was developed by CGS. Special features are a minimum dead volume, easy installation as well as a universal applicability as both a particle or coalescence filter.

3 inlets and 2 filtered outlets can be used for particle filtration. Similarly, 2 inlets and 3 filtered outlets can be used for coalescence filtration. In so doing, connection 1, 2 and 3 of the filter will collect the liquid (oil).

Optional mount brackets enable flexibility in installation, adapted to your local conditions.

Due to its modular construction, filter elements can be changed with ease and quickly without removing any screws.

For connecting sample gas lines fittings of all common sizes are available.

Tel.: +49 8466 / 9415 - 0

Fax: +49 8466 / 9415 - 49



Digital form at: www.cgs-company.de/downloads/MDZ\_E\_D\_MGF10.pdf

MDZ\_E\_D\_MGF10\_1.6 1/6

### **Technical data**

-20°C to +200°C (with FKM) • Max. operating temperature:

800 l air / h • Max. recommended gas flow: 190 bar Max. internal pressure (housing): • Pressure drop at 100 l air / h: ca. 5 mbar • Pressure drop at 200 l air / h: ca. 10 mbar 1/4"NPT or G1/4" • Gas connections:

Material: 316L Housing:

> Filter elements: PTFE, microfibre

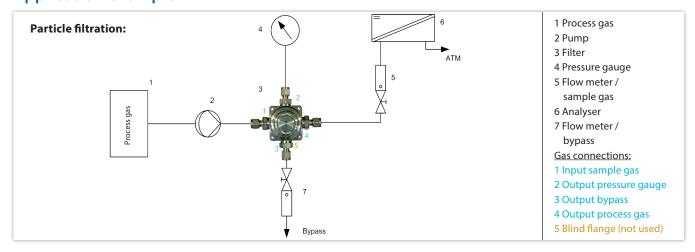
• Weight: ca. 1 kg

• Measurements (W x H x D): 50 x 107 x 50 mm

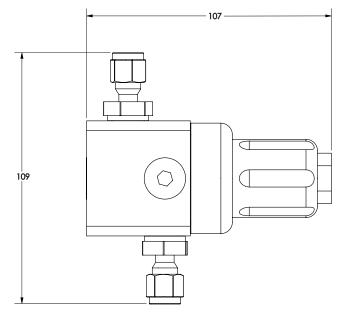
# **Options**

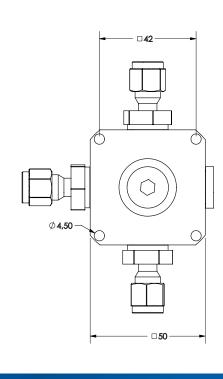
- · Wall mount bracket
- O-rings made from FKM & FFKM
- Filter elements

# **Application example**



# Dimension drawing / hole pattern

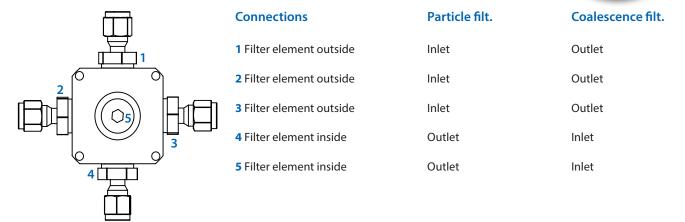




Tel.: +49 8466 / 9415 - 0

Fax: +49 8466 / 9415 - 49

# Filter connections (view from below)

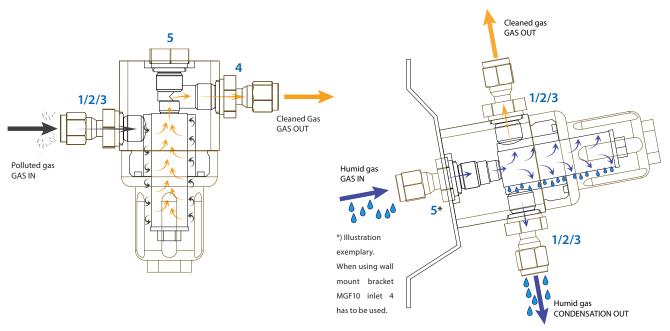


#### **Particle filtration**

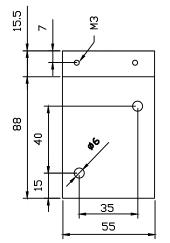
Filter element flowing from outside to inside

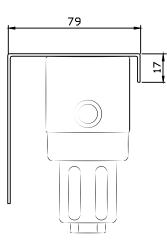
#### **Coalescence filtration**

Filter elements from inside to outside



### Wall mount bracket MGF10 **Particle filtration**

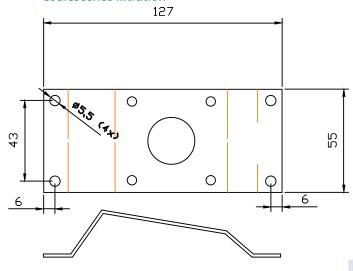




# Wall mount bracket MGF10 **Coalescence filtration**

Tel.: +49 8466 / 9415 - 0

Fax: +49 8466 / 9415 - 49



### Service / Maintenance

For service and maintenance the common accident-prevention regulations has to be observed!

Use protective gloves, face mask and safety glasses to avoid contact with potential aggressive condensate!

#### Operation:

### Time period:

• Changing filter elements if necessary / not later than 6 months

Depressurize the system! Filter should be purged with inert gas if necessary.

Then remove filter hood. Take away the unscrewed filter cartridge and clean the filter housing.

The new filter cartridge has to be put on the filter mount and screwed in the base body.

Check O-ring, mount filter hood and put the system into operation.

Saturated filter cartridges as well as any condensate that accumulates are considered to be special waste!

### Changing O-rings if necessary / not later than 12 months

Having changed O-rings the filter has to be proved for tightness!

#### **Order numbers**

Product:

Product:			Order no.:			
• MGF10-G1/4" [incl. 3x locking screen [Filter elements and fittings are not	-		1023460			
• MGF10-1/4"NPT [incl. 3x locking screw] [Filter elements and fittings are not included]			1024149			
<ul> <li>MGF10-G1/4" SilicoNert@2000 [incl. 3x locking screw]</li> <li>[Filter elements and fittings are not included]</li> </ul>			1030451	MGF10-G1/4"		
• MGF10-1/4"NPT SilicoNert@2000 [incl. 3x locking screw] [Filter elements and fittings are not included]			1030432	MGF10 G1/4%		
Accessories / Spare parts						
• Filter element borsilicate 500°C 0.1 μm, 99.99% (Standard)			1023833	0		
• Filter element borsilicate 0.1 μm, 99.999%			1027010	þ		
• Filter element PTFE 0.1 μm, 99.9%			1020739			
• Filter element borsilicate kynar 0.1 µm, 99.999%			1027013			
• Filter element for coalescence 0.1 μm, 99.999%			1027016	1		
$\bullet$ Filter element; stainless steel - straining mesh; 100 $\mu m$			1028032			
$\bullet$ Filter element; stainless steel - straining mesh; 40 $\mu m$			1031179			
$\bullet$ Filter element; stainless steel - straining mesh; 1 $\mu m$			1031275	Tay Tay		
• Filter element; stainless steel; 5.0 µm			1029193			
• Filter element; stainless steel; 0.3 µm			1029201			
• Filter element; stainless steel; 0.2 μm			1029202			
Tube fitting; male connector	G1/4"	Kl: 6 mm	1019026			
Tube fitting; male connector	G1/4"	Kl: 8 mm	1018805			
<ul> <li>Tube fitting; male connector</li> </ul>	G1/4"	KI: 1/4"	1018682			
<ul> <li>Tube fitting; male connector</li> </ul>	G1/4"	KI: 3/8"	1027830			

Tel.: +49 8466 / 9415 - 0

Fax: +49 8466 / 9415 - 49

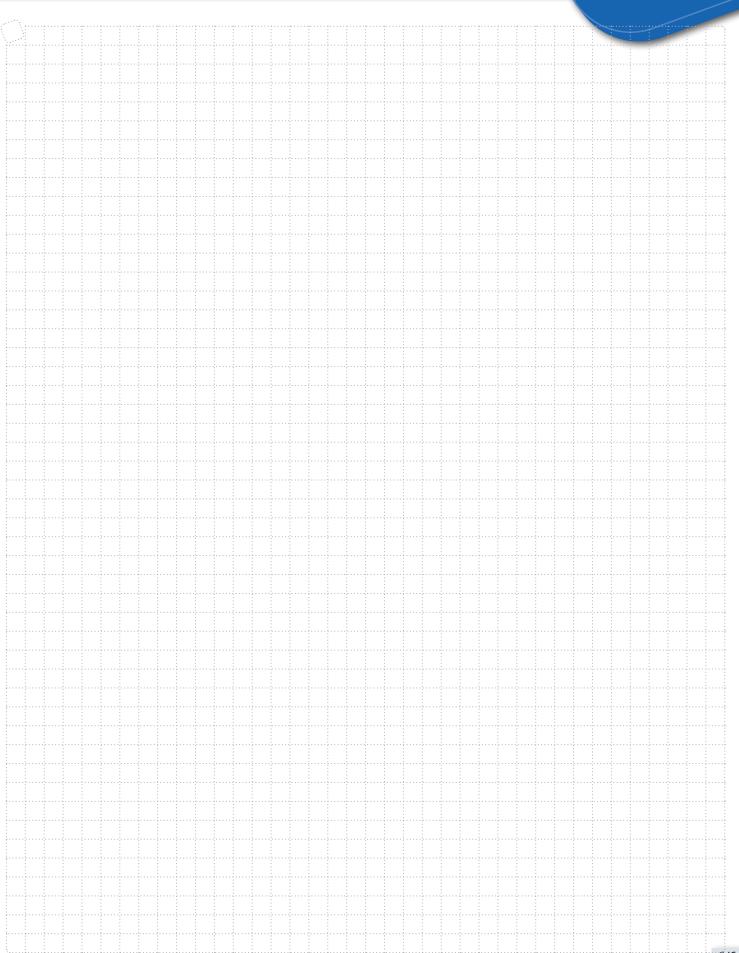
Order no .



### **Accessories / Spare parts**

Locking screw	G1/4"	1016464		
<ul> <li>Tube fitting; male connector</li> </ul>	1/4"NPT KI: 6 mm	1018549		
Tube fitting; male connector	1/4"NPT KI: 8 mm	1018608		
<ul> <li>Tube fitting; male connector</li> </ul>	1/4"NPT KI: 1/4"	1018684		
Tube fitting; male connector	1/4"NPT KI: 3/8"	1021516		
Locking screw	1/4"NPT	1018924		
• O-ring 12x2 FKM (10 pcs.)	[for G1/4" fitting]	1025955		
• O-ring 12x2 FKM; FKM-FEP coated (10pcs.)	[for G1/4" fitting]	1034876		
• O-ring 12x2 FFKM (Kalrez 6375)	[for G1/4" fitting]	1014399		
Wall mount bracket MGF10 coalescence filtration				
Wall mount bracket MGF10 particle filtration				
• O-ring 30x2.5 for filter hood FKM (10 pcs.)				
• O-ring 30x2.5 FKM; FKM-FEP coated (10pcs.)				
• O-ring 30x2.5 for filter hood FFKM (Kalrez 6375)				
Adsorber unit (empty) for MGF10				
Hook spanner; DIN 1810		1017105		

Tel.: +49 8466 / 9415 - 0 Fax: +49 8466 / 9415 - 49



Tel.: +49 8466 / 9415 - 0 Fax: +49 8466 / 9415 - 49