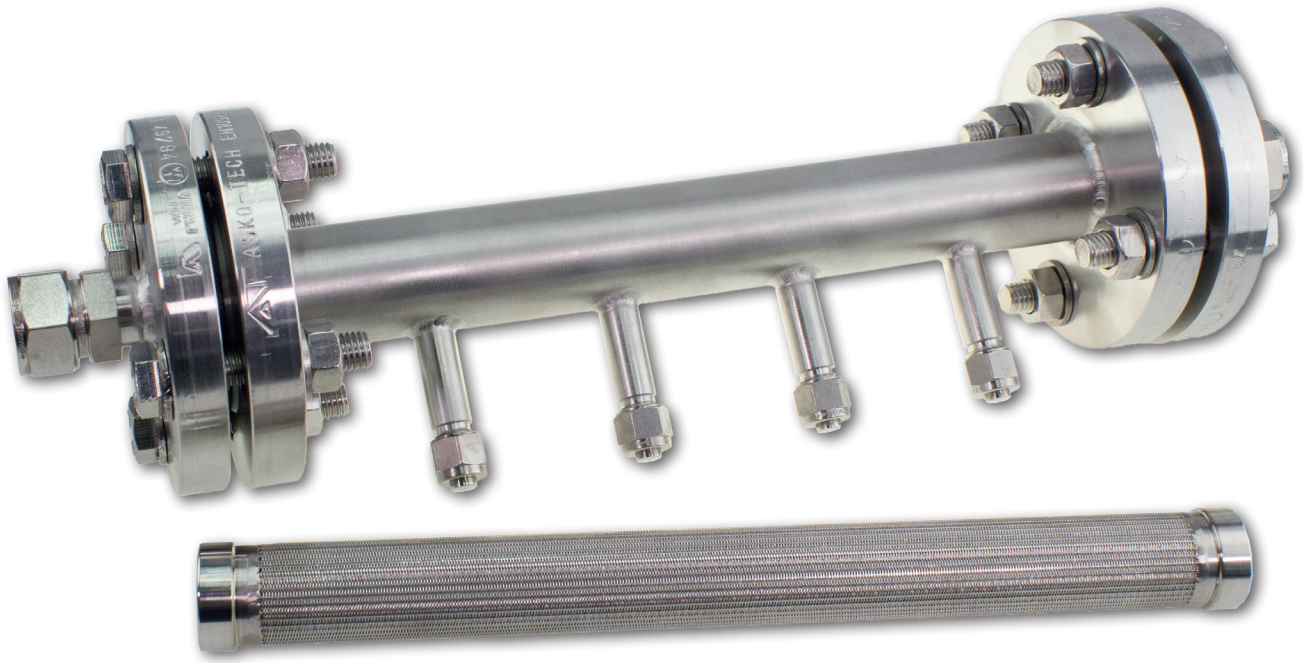
TUBE INLINE-FILTER

Type RIF



- **Easy system integration**
- **Easy exchange via flange connection**
- **Single extraction points, multiple possibilities**
- **Ideally T90-time**

The tube-inlinefilter from CGS is used as a coarse filter to protect analyzers or sample preparation systems from rough pollution in liquids or gases. The bypass filter is completely integrated.
The main flow can flow continuously and without large pressure losses and be discharged via the individual sampling points, so that faster response times of the analyzer system are the result.
The analyzer can also provide only a very small partial flow (1: 200).
The tissue laminate membrane separates liquids / gases from coarse contaminants. If this is completely filled, the medium flow is interrupted.
An alarm is issued via the downstream float flow meter with monitoring. The tube-inlinefilter is installed directly in the plant piping or the fast loop of the process. The large cross section of the tube-inlinefilter ensures an optimal T90 time of the system.
The sample is taken directly prefiltered, whereby the downstream sample preparation modules due to a lower degree of contamination of the sample reach longer maintenance intervals.
Furthermore, downstream gas treatments (coolers, peristaltic pumps, dust filters, etc.) and analyzers remain active for longer and measurement reliability is guaranteed in the long term.

Digital form at
www.cgs-company.de/downloads/MDZ_E_D_RIF.pdf

CGS ANALYSEN-, MESS- UND REGELTECHNIK GMBH
Keltenstraße 3
D-85095 Denkendorf
Tel.: +49 8466 / 9415 - 0
Fax: +49 8466 / 9415 - 49
sales@cgs-company.de
www.cgs-company.de

TUBE INLINE-FILTER
Type RIF

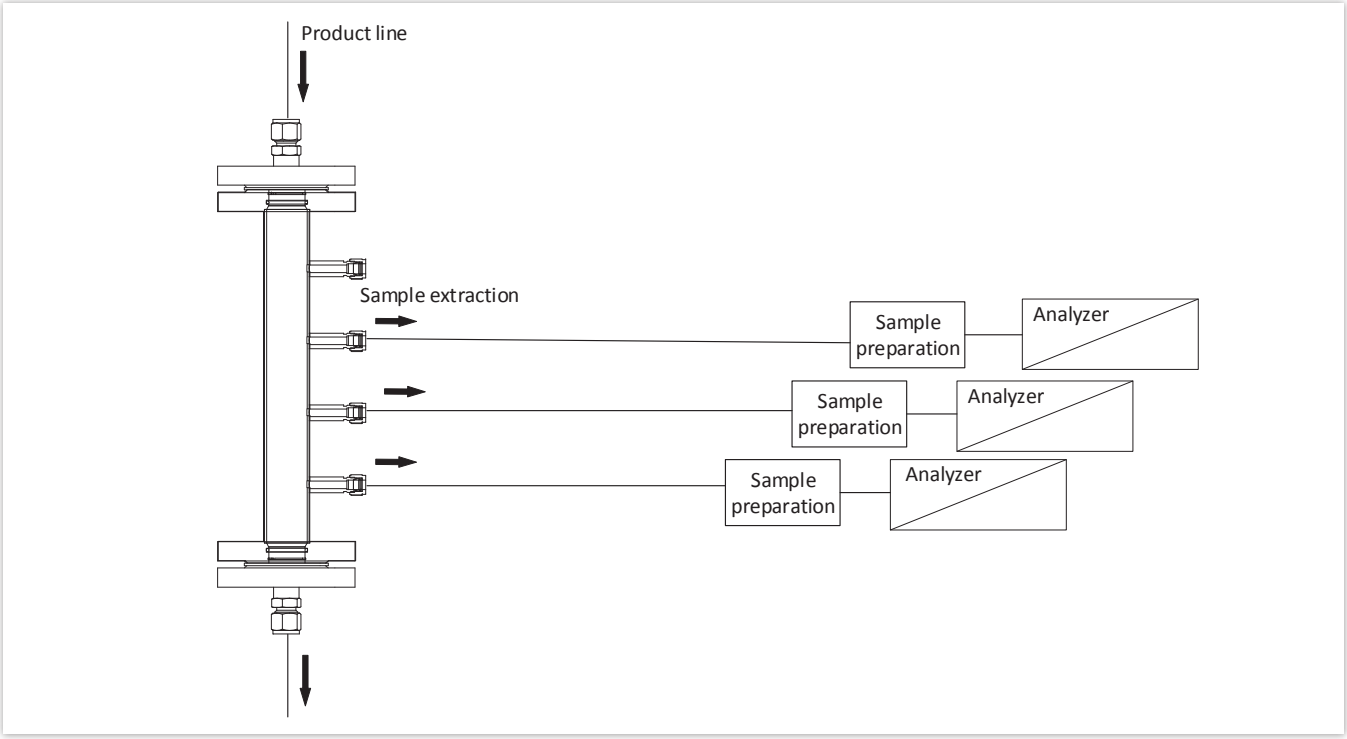
Technical data

- Max. operation temperature: -20°C to 40°C
- Max. recommended gas flow: 1500 l/h for liquids
- Max. internal pressure (housing): 25 bar
- Gas connections:
  - 1x flow through, unfiltered: Flange DN25 / PN40 / B1
  - 4x sample outlet, filtratet: clamp. ring 8 mm; 6 mm
- Filter medium: Water, Gas
- Filter fineness: 75 µm / 200 µm
- Material: Housing: 1.4571
  - Filter element: 1.4404 fabric laminate
- Inner volume: 240 cm^3
- Weight: ca. 7 kg
- Measurements (W x H x D): ø115 x 432 mm

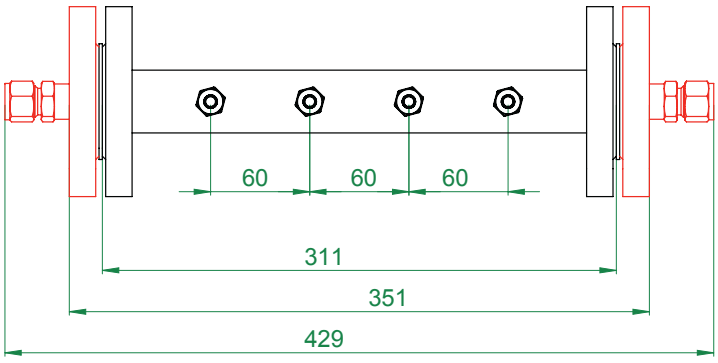
Options

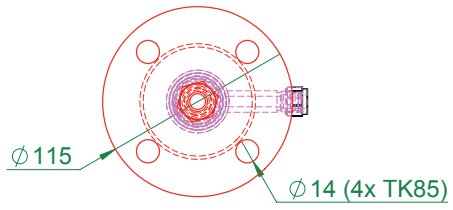
- Wall mount bracket
- O-ring made of FKM & FFKM
- Filter elements
- 3.1 certificate for flange-tube

Application example



Drawing

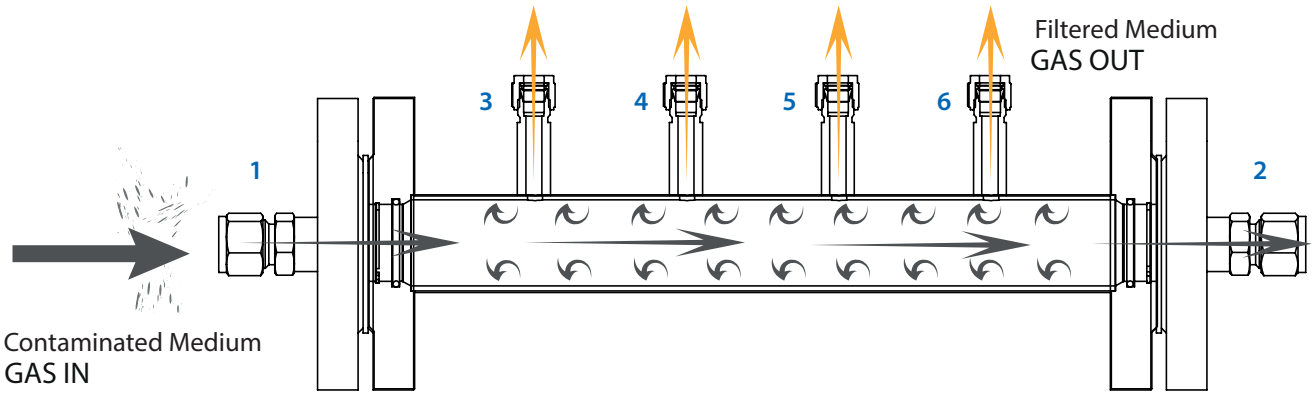




counter flange optional available

CGS ANALYSEN-, MESS- UND REGELTECHNIK GMBH
Keltenstraße 3
D-85095 Denkendorf
Tel.: +49 8466 / 9415 - 0
Fax: +49 8466 / 9415 - 49
sales@cgs-company.de
www.cgs-company.de

Filter connections and function



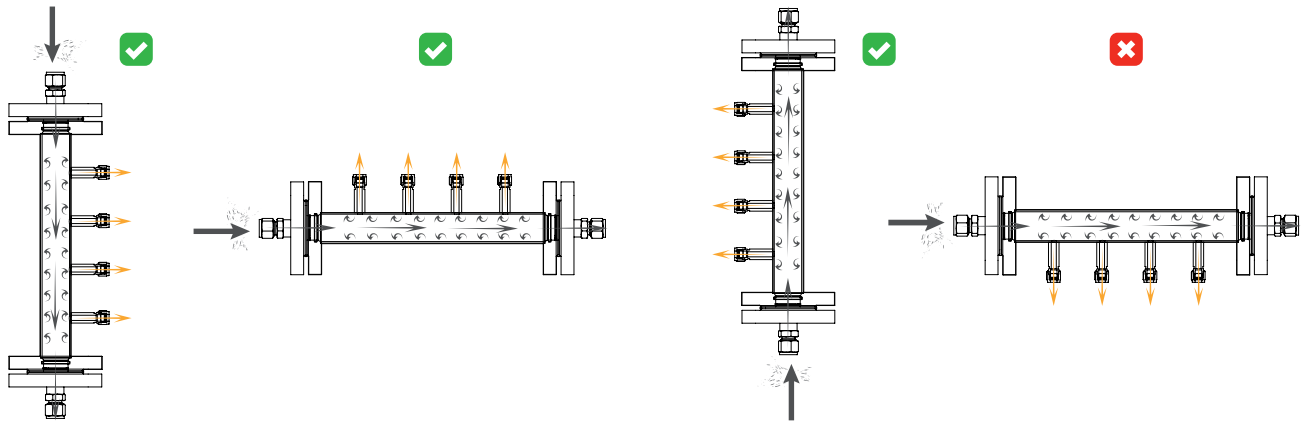
Connections

1 / 2 - Contaminated medium Inlet/Outlet - Flow direction both-way possible
3 / 4 / 5 / 6 - Filtered medium outlet

Particle filtration

The expected direction of flow of the filter element is from **Inside to Outside**

Mounting position



The tube-inlinefilter should be ideally mounted in a vertical way.
Horizontal operation is only permitted for the filtration of dry gas and liquids.
Never should the filtered outlets point downwards, so that no dirt is acuumulated directly on the filter outlet.

CGS ANALYSEN-, MESS- UND REGELTECHNIK GMBH
Keltenstraße 3
D-85095 Denkendorf
Tel.: +49 8466 / 9415 - 0
Fax: +49 8466 / 9415 - 49
sales@cgs-company.de
www.cgs-company.de

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 or contaminated parts!

Operation:	Time period:
• **Changing filter elements**	**if necessary / not later than 6 months**

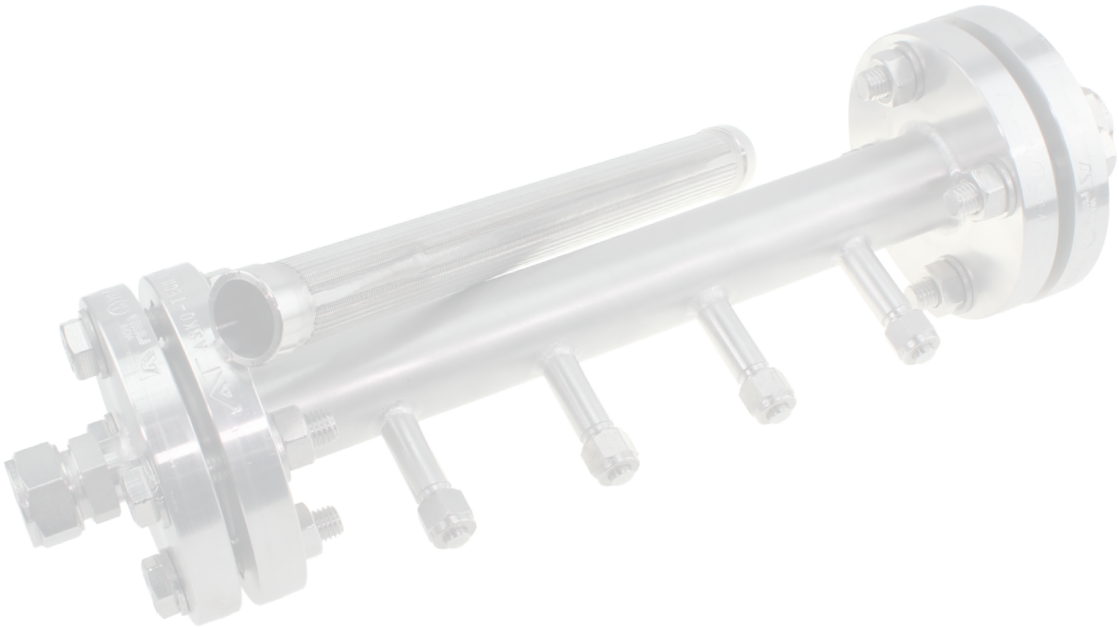
Depressurize the system (part of the tube-inlinefilter)!
Disconnect the flange connection and take away the tube filter module from the process line.
Loosen the circlip, remove the filter and clean/change it.
The mounting has to be done in reverse order.

Order numbers

Product:	Order no:
• **Tube-inlinefilter with flange; Type IF-75my**	**1038701**
• **Tube-inlinefilter with flange; Type IF-200my**	**1038706**

Accessories / Spare parts

• **O-ring 30x2.5 mm; FKM**	**1014209**
• **Circlip; V2A**	**1015225**
• **Filter element D30x300 mm; 75 µm**	**1014500**
• **Filter element D30x300 mm; 200 µm**	**1038006**
• **Counter flange**	**on demand**



CGS ANALYSEN-, MESS- UND REGELTECHNIK GMBH
Keltenstraße 3
D-85095 Denkendorf
Tel.: +49 8466 / 9415 - 0
Fax: +49 8466 / 9415 - 49
sales@cgs-company.de
www.cgs-company.de