



## Sample Gas Filter AGF-VA-23

Even if the particular contaminant has already been removed at the extraction point through effective particle filtration inside the gas sampling probe, in long or branched sample gas line there is a risk of secondary contamination. Additional filters are therefore often installed at the point where the sample gas enters the analysis system and also before delicate system components. The filter housings must be made of corrosion-resistant, non-absorbent materials, easy to install and easy to maintain. They should further be compatible with various filter elements.

The AGF-VA-23 series is completely made from stainless steel and features the Bühler Unique quick-release fastener. The filter head has an additional connection for installing a moisture detector. A variety of materials is available based on the application.

Bühler Unique quick-release fastener

Very quick and easy filter changes without tools

Low dead volume

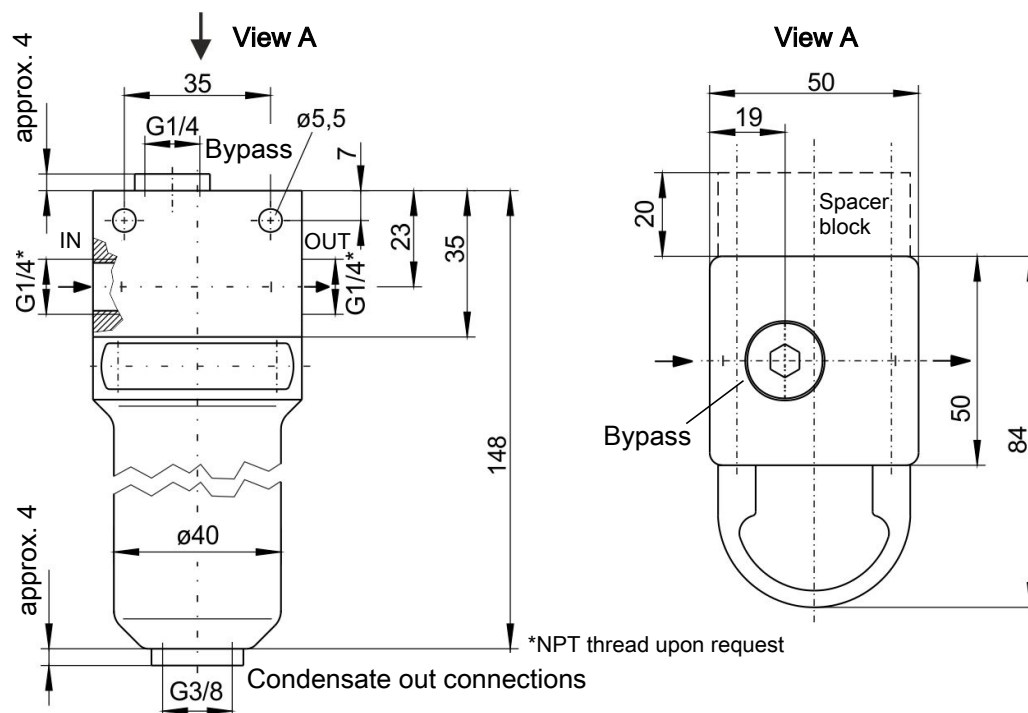
Variable wall-mounting via spacer block

(Auto) condensate drain option through the connection thread (G3/8) inside the filter cover

Bypass connection inside the filter head (G1/4), connection option for moisture detector or ventilation



Dimensions



**Use in explosive areas (additional notices):**

The filter meets the fundamental safety requirements of Directive 2014/34/EU and is suitable for use in Category 2G, Explosion class IIC areas. The filter is not marked, as it does not have an innate ignition source and Directive 2014/34/EU therefore does not apply.

Flammable gases, explosion class IIB or IIC, which could occasionally be explosive during normal operation may be conveyed through the filter.

**Be sure to observe the instructions in the respective operating instructions!**

**Ambient temperature range when used in Ex areas:**  $-5\text{ °C} \leq T_{\text{amb}} \leq 60\text{ °C}$ .

Technical Data

**AGF-VA-23 Fine Mesh Filter**

Dead volume with filter element	
DRGxxxSO-V/-P	50 ml
DRGxxxVA-V	56 ml
F2/F25	51 ml
Material - filter housing	1.4571 / SS 316 Ti
Material - gasket	available in Viton or perfluorelastomer
Material - filter element	see table
Weight	1.7 kg
Operating pressure max.*	160 bar
Medium temperature max.*	see table

\* Pressures and temperatures are greatly reduced when connecting a moisture detector.

Ordering instructions

Filter (empty housing)

Item no.	Model	Seal
41 42 999	AGF-VA-23-V for installing DRG filter elements	Viton
41 45 999	AGF-VA-23-P for installing DRG filter elements	Perfluorelastomer
41 42 699	AGF-VA-23-V-F2/F25 for installing F2 / F25 filter elements	Viton
41 45 699	AGF-VA-23-P-F2/F25 for installing F2 / F25 filter elements	Perfluorelastomer

## Filter elements

Item no.	Model	Seal	Material	Temperature max.	Filter fineness	Filter surface	Packing unit	Ex application
78 56 966	DRG 25 VA-V	Viton	1.4301 / epoxy resin	120 °C	25 µm	70 cm <sup>2</sup>	1 pieces	IIC
78 56 974	DRG 60 VA-V	Viton	1.4301 / epoxy resin	120 °C	60 µm	70 cm <sup>2</sup>	1 pieces	IIC
78 56 982	DRG 100 VA-V	Viton	1.4301 / epoxy resin	120 °C	100 µm	70 cm <sup>2</sup>	1 pieces	IIC
41 03 003	DRG 25 SO-V	Viton	1.4301 / 1.4401	150 °C	25 µm	70 cm <sup>2</sup>	1 pieces	IIC
41 03 004	DRG 60 SO-V	Viton	1.4301 / 1.4401	150 °C	60 µm	70 cm <sup>2</sup>	1 pieces	IIC
41 03 008	DRG 25 SO-P	Perfluoroelastomer	1.4301 / 1.4401	260 °C **	25 µm	70 cm <sup>2</sup>	1 pieces	IIC
41 03 009	DRG 60 SO-P	Perfluoroelastomer	1.4301 / 1.4401	260 °C **	60 µm	70 cm <sup>2</sup>	1 pieces	IIC
41 03 00 50	F2	--	Sintered PTFE	100 °C	2 µm	60 cm <sup>2</sup>	5 pieces	IIB
41 02 01 30	F25	--	Sintered PTFE	100 °C	25 µm	60 cm <sup>2</sup>	5 pieces	IIB
41 28 008	Viton O-ring (for filter...-V)							
41 26 004	Perfluoroelastomer O-ring (for filter...-P)							

Other filter elements available upon request.

\*\* at reduced maximum pressure.