



## 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

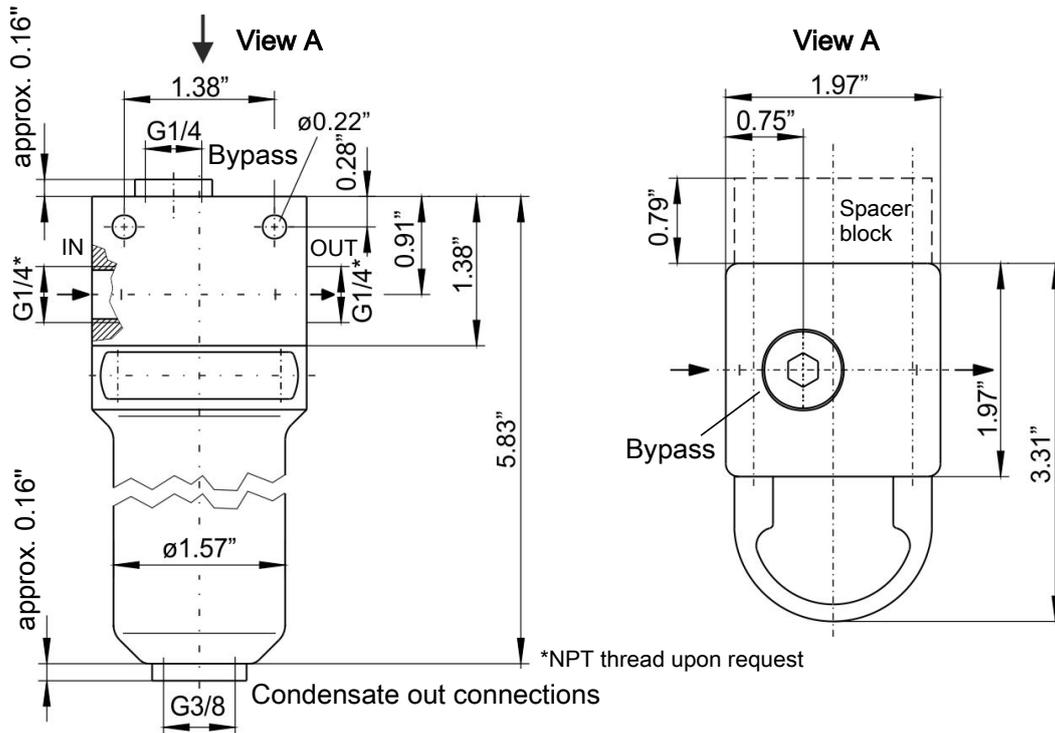
Variable wall-mounting via spacer block

(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 group IIC areas. The filter is not marked, as it does not have an innate ignition source, so Directive 2014/34/EU does not apply.

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

**Be sure to observe the relevant operating instructions!**

**Ambient temperature range when used in Ex areas:** 41 °F ≤ T<sub>amb</sub> ≤ 140 °F.

**Technical Data**

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

Dead volume with filter element	
DRGxxxSO-V/-P	3.1 cu. in.
DRGxxxVA-V	3.4 cu. in.
F2/F25	3.1 cu. in.
Material - filter housing	1.4571/SS 316 Ti
Material - gasket	available in Viton or HiFluor
Material - filter element	see table
Weight	3.7 lb
Operating pressure max.*	2321 psi
Medium temperature max.*	see table

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

**Ordering instructions**
**Filter (empty housing)**

AGF-VA-	23-V	23-P	23-V-F2/F25	23-P-F2/F25
Item no.:	4142999	4145999	4142699	4145699
Element:	for installing DRG filter elements	for installing DRG filter elements	for installing F2/F25 filter elements	for installing F2/F25 filter elements
Seal:	Viton	HiFluor	Viton	HiFluor
permissible explosion group of the external filter area:	IIC	IIC	IIC	IIC

**Filter elements**

Item no.	Model	Seal	Material	Temperature max.	Filter fineness	Filter surface	Packaging unit	permissible explosion group of the internal filter area
4103004	DRG 60 SO-V	Viton	1.4301/1.4401	302 °F	60 µm	10.8 in <sup>2</sup>	1 count	IIC
4103009	DRG 60 SO-P	Perfluoroelastomer	1.4301/1.4401	482 °F **	60 µm	10.8 in <sup>2</sup>	1 count	IIC
41030050	F2	--	Sintered PTFE	212 °F	2 µm	9.3 in <sup>2</sup>	5 count	IIB
41020130	F25	--	Sintered PTFE	212 °F	25 µm	9.3 in <sup>2</sup>	5 count	IIB
4128008	Viton O-ring (for filter...-V)							
4126004	HiFluor O-ring (for filter...-P)							

Other filter elements available upon request.

\*\* at reduced maximum pressure.