



## Sample Gas Coalescing Filter K-AGF-VA-23

Gas analysis is a complex field. The sample gas to be analysed must be extracted and handled under quite diverse conditions to yield representative and reliable analysis results. One disturbance variable which must also be eliminated is aerosols.

The aqueous suspended particles can easily be removed from the gas by coagulation using special filter matrices. During this process, the tiny aerosols accumulate on the fibres of the filter matrix through collision, forming drops increasing in size. Once large enough, the condensate which forms drains into the filter bowl and is then removed.

Model K-AGF-VA-23 has the housing from the AGF-VA filter series made from stainless steel and with the respective fittings to adapt it for the coagulation function.

The easy installation and the Unique quick-release fastener are additional features of this model.

Bühler Unique quick-release fastener

Very quick and easy filter changes without tools

Low dead volume

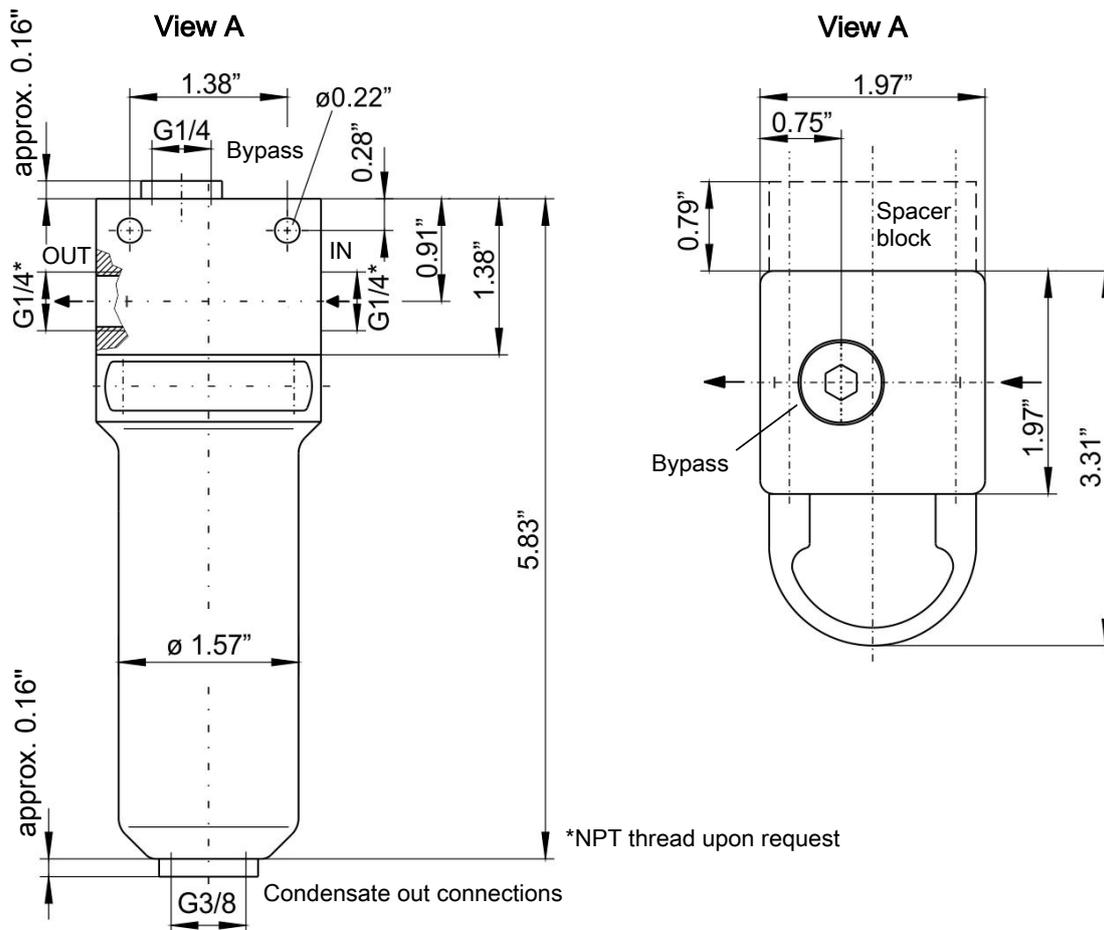
Variable wall-mounting via spacer block

Condensate drain through connection thread (G3/8) inside the filter cover

Bypass connection inside the filter head (G1/4)



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:**  $41\text{ }^{\circ}\text{F} \leq T_{\text{amb}} \leq 140\text{ }^{\circ}\text{F}$ .

**Technical Data**

**K-AGF-VA-23 Coalescence Filter**

Dead volume with filter element	55 ml
Material - filter housing	1.4571/SS 316 Ti
Material - gasket	available in Viton or HiFluor
Material - filter element	see table
Weight	1.7 kg
Operating pressure max.	160 bar
Medium temperature max.	140 °C

**Ordering instructions**

The filter includes a spacer block, 2 fixing bolts DN 912 M5 x 80, as well as sealing plugs inside the bypass and condensate out connection.

**Filter including filter element**

<b>K-AGF-VA-</b>	<b>23-V</b>	<b>23-P</b>
Item no.:	4142799	4142899
Element:	12-57-C	12-57-C
Seal:	Viton	HiFluor
permissible explosion group of the external filter area:	IIC	IIC
permissible explosion group of the internal filter area:	IIC	IIC

**Filter element**

<b>Item no.</b>	<b>Model</b>	<b>Filter element</b>	<b>Material</b>	<b>Filter surface</b>	<b>Packaging unit</b>	<b>permissible explosion group of the internal filter area</b>
4932001	12-57-C	Sleeve	Borosilicate fibre	4.3 in <sup>2</sup>	1 count	IIC