Sample Gas Filter AGF-PV-30

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-PV-30 series features a PVDF and glass housing and is equipped with 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
- Filter housing material: PVDF, glass
- Various filter elements
- Low dead volumes
- Bypass connection for moisture detector
- Used in **DNV-GL and LR type-tested** conditioning unit
- Compliance with requirements of **MARPOL MEPC.259(68) of IMO** confirmed
- Special design for use in high-vibration environments

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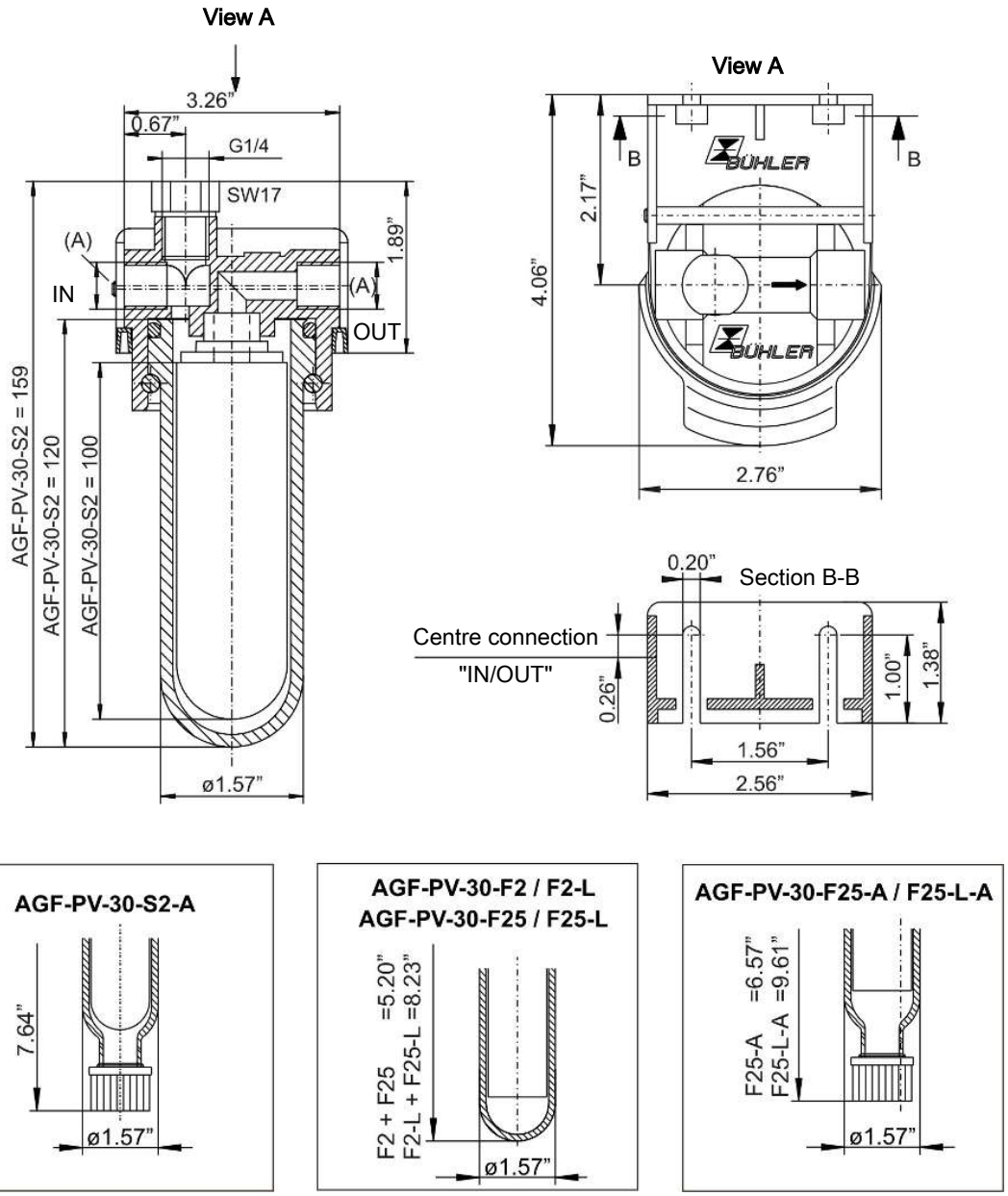
Dimensions



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_{amb} ≤ 140 °F.

Technical Data

Fine mesh filter AGF-PV-30	
Material – Filter head	PVDF
Material – Filter cover	Glass
Material – Gasket	Viton
Thread (A)	G1/4 or NPT 1/4" (see ordering information)
Max. operating pressure	58 psig
Max. operating temperature	212 °F
Mechanical load	Tested based on DNV-GL CG0339 vibration class A (0.7g) 2 Hz-13.2 Hz Amplitude ± 1.0 mm 13.2 Hz -100 Hz 0.7g acceleration

Ordering instructions

Filter including filter element

AGF-PV- AGF-PV-	30-S2 30-S2-I	30-S2-A 30-S2-A-I	30-F2 30-F2-I	30-F2-A 30-F2-A-I	30-F2-L 30-F2-L-I
Filter fineness:	2 µm	2 µm	2 µm	2 µm	2 µm
Item no. (G1/4):	4150099	4150199	41502999	4151999	4150799
Item no. (NPT 1/4"):	4150099I	4150199I	41502999I	4151999I	4150799I
Element:	S2	S2	F2	F2	F2-L
Dead volume:	3.5 cu. in.	4.2 cu. in.	3.5 cu. in.	3.5 cu. in.	6.6 cu. in.
Weight approx.:	0.62 lb	0.64 lb	0.53 lb	0.64 lb	0.64 lb
permissible explosion group of the external filter area:	IIC	IIC	IIC	IIC *	IIC
permissible explosion group of the internal filter area:	IIC	IIC	IIB	IIB	IIB

AGF-PV- AGF-PV-	30-F25 30-F25-I	30-F25-A 30-F25-A-I	30-F25-L 30-F25-L-I	30-F25-L-A 30-F25-L-A-I	30-AKF 30-AKF-I
Filter fineness:	25 µm	25 µm	25 µm	25 µm	1 µm
Item no. (G1/4):	4150299	4150399	4150499	4150599	4153099
Item no. (NPT 1/4"):	4150299I	4150399I	4150499I	4150599I	4153099I
Element:	F25	F25	F25-L	F25-L	AKF
Dead volume:	3.5 cu. in.	3.8 cu. in.	6.6 cu. in.	7.1 cu. in.	2.7 cu. in.
Weight approx.:	0.51 lb	0.53 lb	0.64 lb	0.66 lb	0.51 lb
permissible explosion group of the external filter area:	IIC	IIC	IIC	IIC *	**
permissible explosion group of the internal filter area:	IIB	IIB	IIB	IIB	**

* only in normal operation with connection (closed condensate outlet).

** not approved for use with flammable gases.

Filter elements

Item no.	Model	Material	Filter fineness	Filter surface	Packaging unit	Permissible explosion group of the internal filter area
41010010	S2	Fibreglass	2 µm	12.4 in²	5 count	IIC
4101002	S2	Fibreglass	2 µm	12.4 in²	25 count	IIC
41030050	F2	PTFE	2 µm	9.3 in²	5 count	IIB
41020050	F2-L	PTFE	2 µm	19.4 in²	2 count	IIB
41020130	F25	PTFE	25 µm	9.3 in²	5 count	IIB
41010120	F25-L	PTFE	25 µm	19.4 in²	2 count	IIB
41010130	AKF	Active carbon	1 µm	6.8 in²	1 count	not approved for use with flammable gases.