

# Portable SF<sub>6</sub> filter unit Model GPF-10

WIKA data sheet SP 63.11

## Applications

- Module for the maintenance of SF<sub>6</sub> gas-filled equipment
- Treatment of contaminated SF<sub>6</sub> gas

## Special features

- 3-in-1 filter cartridge for filtering out particles, reactive decomposition products and humidity
- Easily replaceable filter cartridge
- High gas flow rate through flow optimisation
- Robust and reliable sealing construction
- Corrosion protection through anodised filter case



Portable SF<sub>6</sub> filter unit, model GPF-10

## Description

### Efficient protection from contaminants

As research has shown, decomposition products such as HF, SO<sub>2</sub>, SF<sub>4</sub> and SOF<sub>4</sub> can form in gas-insulated equipment with discharges or failures. The model GPF-10 SF<sub>6</sub> filter unit ensures reliable treatment of contaminated SF<sub>6</sub> gas.

The particles found in decomposed SF<sub>6</sub> gas, such as aluminium fluoride (AlF<sub>3</sub>) or copper fluoride (CuF<sub>2</sub>) are effectively retained by the integrated particle filter, so that the operator does not come into contact with these substances.

The filter unit is installed to protect the service equipment (e.g. transfer unit or suction pump) from particles, humidity and decomposition products. Following filtration, in the best case, the SF<sub>6</sub> gas can be reused.

### Replaceable filter cartridge

The filter cartridge can be replaced easily and within a few minutes. Thus the service equipment is operational again and fully effective within the shortest of time.

### Optimised design

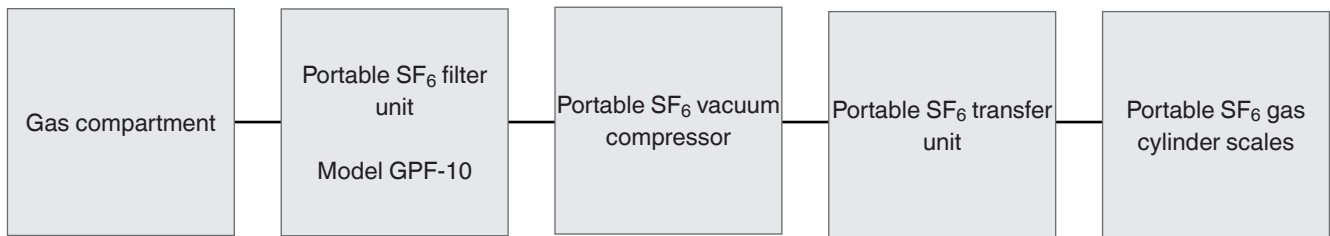
When designing the filter unit, emphasis was placed on a high gas flow rate and a robust construction. The anodised aluminium case makes the GPF-10 suitable for outdoor use and resistant against corrosion.

The case reseals securely after a filter change and prevents any emission of environmentally harmful SF<sub>6</sub> gas.

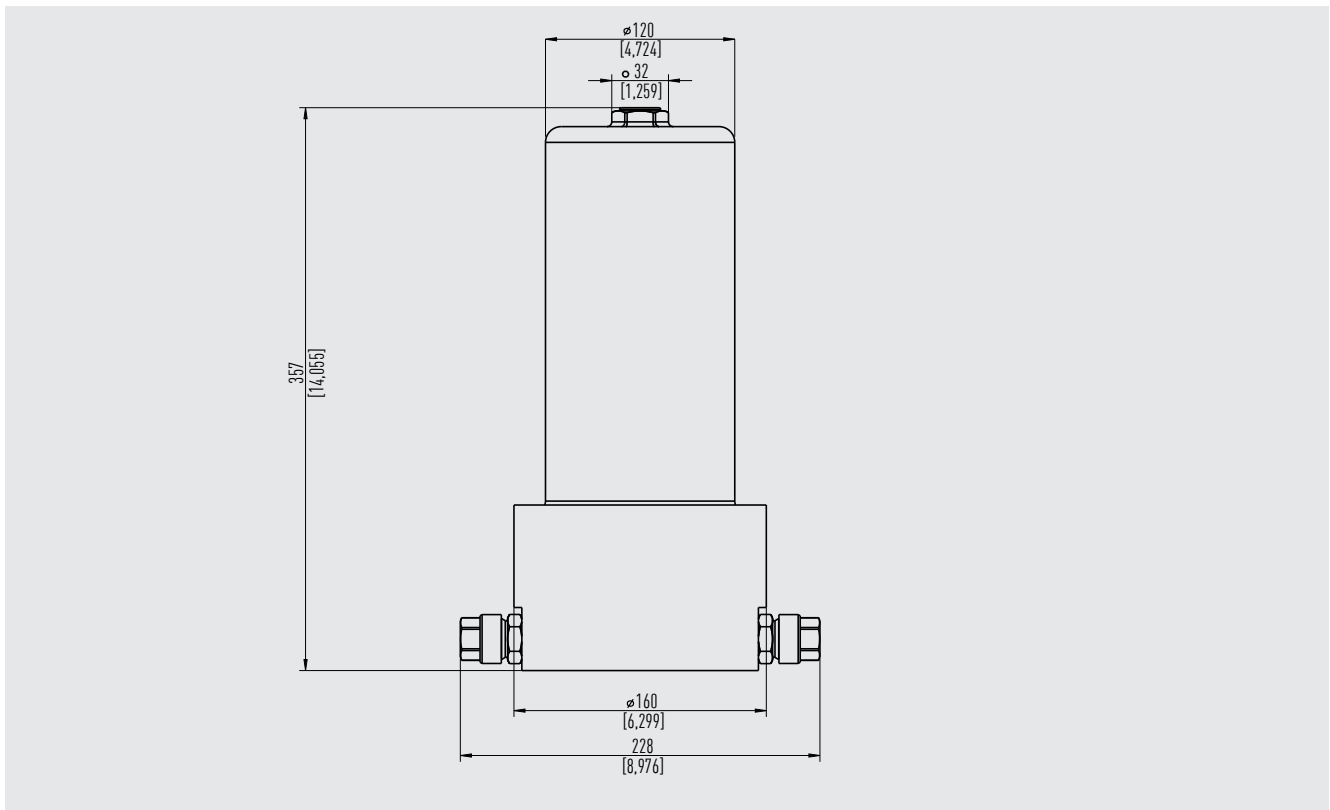
## Specifications

Specifications	
Case material	Anodised aluminium, corrosion-resistant
Filter element	<ul style="list-style-type: none"> <li>■ Molecular sieve, aluminium oxide, particle filter 1 µm [39.37 µin]</li> <li>■ Max. water absorption: 75 g [0.16 lb]</li> </ul>
Permissible operating pressure	Max. 50 bar [725.18 psi]
<b>Permissible ambient temperature</b>	
Storage	-20 ... +50 °C [-4 ... +122 °F]
Operation	0 ... 50 °C [32 ... 122 °F]
Relative humidity, condensation	< 80 % relative humidity, non-condensing
<b>Connections</b>	
Standard	2 valves DN 8 (brass, M26 x 1.5), model GCV-08 2 protective caps from aluminium, model GCP-08
Option	2 valves DN 20 (brass, M26 x 1.5), model GCV-20 2 protective caps from aluminium, model GCP-20 → For details, see data sheet SP 61.13
Weight	Approx. 8 kg [17.6 lb]

## Schematic system structure for the use of the prefilter unit



## Dimensions in mm [in]



## Accessories

### Connection hoses

Designation	Order number	
	Stainless steel	Rubber
<b>Hose with self-sealing valves, DN 8</b>		
Length 3 m [9.8 ft]	14064922	14064928
Length 6 m [19.7 ft]	14064923	14064929
Length 12 m [39.4 ft]	14064924	14064931
Length 15 m [49.2 ft]	14064927	14064933
<b>Hose with self-sealing valves, DN 20</b>		
Length 3 m [9.8 ft]	14225543	on request
Length 6 m [19.7 ft]	14225579	on request
Length 12 m [39.4 ft]	14225594	on request
Length 15 m [49.2 ft]	14225602	on request

### Consumables

Designation	Order number
Filter cartridge	14340559

### Ordering information

Model / Connections / Accessories

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