Portable SF₆ vacuum compressor For extracting SF₆ gas Model GVC-10

WIKA data sheet SP 63.13

Applications

- Module of the instrument series for the maintenance of SF₆ gas-filled equipment.
- Extraction of SF₆ gas

Special features

- Extraction up to residual pressure < 5 mbar abs.
- Free from oil and lubricants
- High leak tightness
- Vibration resistant and quiet
- Cool running in continuous operation



Portable SF₆ vacuum compressor, model GVC-10

Description

Portable service equipment series

The model GVC-10 vacuum compressor is a module of the portable service equipment series.

Modules of the instrument series:

- Portable vacuum pump, model GVP-10
- Portable SF₆ filter unit, model GPF-10
- Portable SF₆ vacuum compressor, model GVC-10
- Portable SF₆ transfer unit, model GTU-10
- Portable SF₆ gas cylinder scale, model GWS-10

Optimised extraction

In order to extract SF₆ gas compartments up to a residual pressure of 5 mbar abs., the model GVC-10 vacuum compressor is combined with the model GTU-10 transfer unit. The extracted SF₆ gas is pumped into a gas tank at the outlet of the module system.

Free from oil and lubricants

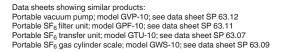
A pump which has been specifically optimised for this instrument series runs in the vacuum compressor.

The pump principle is particularly suited for SF_6 gas, as the wetted conveying chamber is completely separated from the pump drive. As a consequence, the process remains free from oil and lubricants.

Safe gas extraction

The self-closing values at the inlet and outlet ensure a safe gas extraction. Thus, it can be excluded that SF_6 gas escapes into the atmosphere.

WIKA data sheet SP 63.13 · 02/2021



Page 1 of 4



Specifications

Pump version Free from oil and lubricants

Gas flow rate (at reference conditions)

■ 3.6 m³/h at 50 Hz / 4.3 m³/h at 60 Hz

4.8 m³/h at 50 Hz / 5.8 m³/h at 60 Hz

Permissible inlet and outlet pressure ≤ 12 bar abs. [174 psia]

Starting conditions Inlet pressure ≤ 1.2 bar abs. [17.4 psia]

Internal bypass Inlet pressure > 1.2 ... 12 bar abs. [17.4 ... 174 psia] (Pump will not start)

Residual pressure following extraction

< 5 mbar abs. [0.07 psia]

Power supply

Available versions

Standard	AC 230 V, 50 Hz, ±10 %
Option	AC 115 V, 60 Hz, ±10 %

Permissible ambient temperature

Storage: -20 ... +60 °C [-4 ... 140 °F] Operation: 5 ... 40 °C [41 ... 104 °F]

Permissible humidity

 \leq 90 % r. h. (non-condensing)

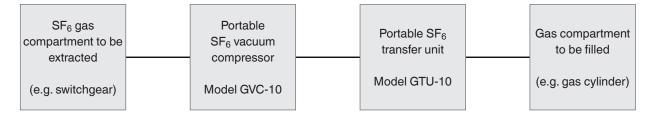
Ingress protection

IP20 (per IEC 60529)

Weight

30 kg [66 lbs]

System structure in schematic form



Reference conditions

Inlet pressure 1 bar abs. [14.5 psia]

Outlet pressure approx. 1 bar abs. [14.5 psia]

Ambient temperature 20 °C [68 °F]

CE conformity

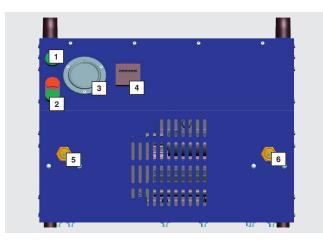
EMC directive

2014/30/EU, EN 61326 emission (group 1, class B) and interference immunity (industrial application)

Machinery directive

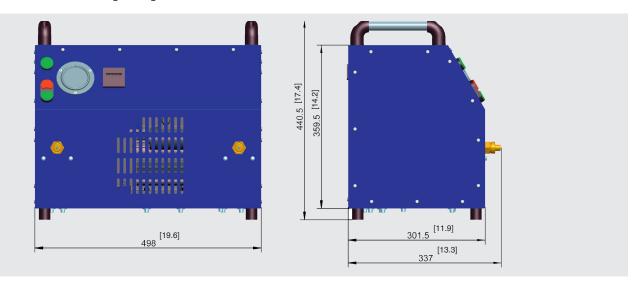
2006/42/EC

Lettering and controls



- 1 Signal lamp (green), pump in service
- ON/OFF switch (white signal lamp signals readiness for operation)
- 3 Pressure display, inlet pressure
- 4 Operating hours counter
- 5 Valve coupling, inlet, DN 8
- 6 Valve coupling, outlet, DN 8

Dimensions in mm [inch]



Accessories

Designation	Order number	
Connecting hose with self-closing valves, DN 8		
Stainless steel, length 3 m (9.8 ft)	14225424	
Stainless steel, length 6 m (19.7 ft)	14225507	
Stainless steel, length 12 m (39.4 ft)	14225513	
Stainless steel, length 15 m (49.2 ft)	14225522	
Rubber, length 3 m (9.8 ft)	14064928	
Rubber, length 6 m (19.7 ft)	14064929	
Rubber, length 12 m (39.4 ft)	14064931	
Rubber, length 15 m (49.2 ft)	14064933	
Adapter for gas cylinder		
DN 8 to W21.8 x 1/14" per DIN 477 No. 6	14074524	
DN 8 to CGA590 0.960" 15/16"	14074523	
DN 8 to 1" per DIN 477 No. 8	14074521	
DN 8 to G 5/8" per BS 341 No. 6	14074525	
Maintenance set vacuum compressor		
Sealing elements for pump room	14100021	

Ordering information Model / Power supply / Accessories

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WIKA Alexander Wiegand SE & Co. KG Alexander-Wiegand-Straße 30 63911 Klingenberg/Germany Tel. +49 9372 132-0 Fax +49 9372 132-406 info@wika.de www.wika.de

Page 4 of 4