



## ANKERSMID Diaphragm pump AMP 96E

### Application

Despite its small size the mini diaphragm vacuum pump offers a high level of performance. It is used especially in the fields of analysis, medicine and production technology.

The pump is used for applications such as sucking gases, taking samples and evacuating vessels.

The model is suited for use in machinery which is permanent or mains-operated.

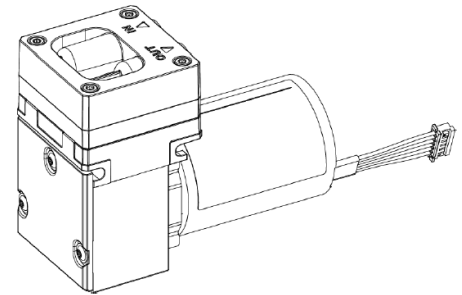
### Description

The pump is equipped with the patented stress-optimized structured diaphragm, resulting in a high pneumatic performance, a durable product and compact size.

Special valves ensure that the product copes well with vapor and condensation that could be present in the gas stream.

### Principle

The basic construction of the AMP diaphragm gas sampling pumps is simple. An elastic diaphragm is moved up and down by an eccentric (see illustration). On the down-stroke it draws the air or gas being handled through the inlet valve. On the up-stroke the diaphragm forces the medium through the exhaust valve and out of the head. The compression chamber is hermetically separated from the drive mechanism by the diaphragm. The pumps transfer, evacuate and compress completely oil-free.



\* Picture may vary

- **No contamination of the media due to oil-free operation**
- **Low maintenance**
- **High performance because of structured diaphragm**
- **High level of gas tightness**
- **Long product life thanks to structured diaphragm**
- **Very quiet**
- **Almost vibration-free**
- **Low weight**
- **Copes well with vapour and condensation**
- **Cool running motor even when in constant use**
- **Can operate in any installed position**



**ANKERSMID Diaphragm pump**  
AMP 96E

**Technical data**

Model	AMP 96E
Housing version	Without housing
Capacity at atm. Pressure (l/min)	7 l/min ± 10%
Max. operating pressure (bar g)	2,5
Vacuum (mbar abs.)	≤130
Sample gas inlet/outlet	G1/8" f
Materials	
Pump head	PPS/Ryton®
Diaphragm	PTFE-coated
Valves	FKM
Sample temperature	+5°C to 70°C
Ambient temperature	+5°C to 50°C @ > 2 bar rel.: +5°C ... +40°C 0°C if frost-free (non-condensing)
Electrical connection	Lead wires (approx. 300mm from motor housing) female connector (Hirose DF3-6S-2C / DF3-242SC)
Power (W)	19
Protection class	IP20
Imax load & unit (A)	0,90
Weight (Kg)	0,6
Power supply	24VDC

PTFE = Polytetrafluoroethylene (Teflon®)  
PPS = Polyphenylene Sulfide (Ryton®)

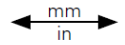
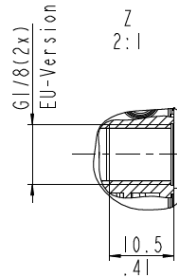
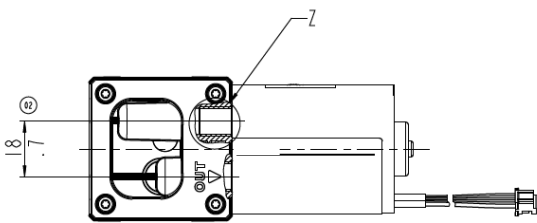
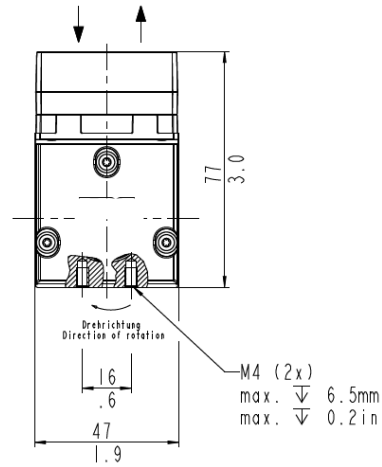
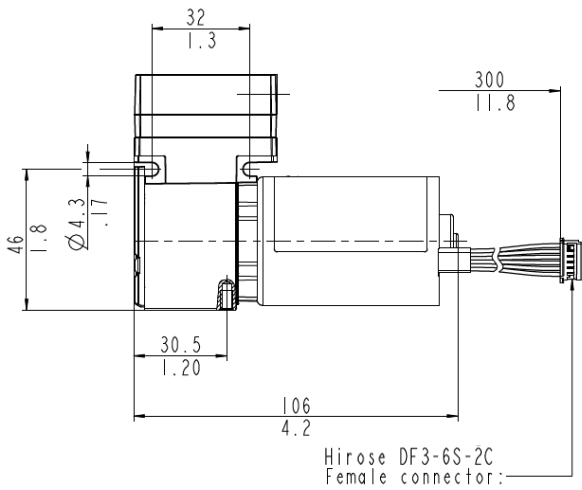
Flow rate determined at 20 °C, 1000mbar abs. (based on ISO 8778 and ISO 21360-1/2)

According to machinery directive 2006/42/EC: Partly completed machinery tbd = to be defined: Values can be determined or defined at the earliest on the basis of the first pump(s). Possible indication of customer wishes in brackets.



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## Dimensions



## Flow diagram

