



# Ankersmid Sampling



## Diaphragm gas pumps Series AMP

The basic construction of the AMP diaphragm gas sampling pumps is simple. An elastic diaphragm is moved up and down by an eccentric. 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.

### Applications:

**Ambient environment**

**Exhaust gases**

**Gas analysis systems**

**Smoke analysis**

**Samples extraction**

**Vessel evacuating**

**“Safe and reliable gas transfer in perfection”**

### Reference customers:

  
THE LINDE GROUP

  
AIR PRODUCTS

  
SIEMENS

  
The Chemical Company



## Mini Diaphragm Pumps Series AMP 26 and 11E

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 pumps are used for application such as transporting gases, taking samples (even liquids in a vacuum) and evacuating vessels.

The AC models are used in machinery which is permanent or mains-operated.

The pumps are 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.



**No contamination of the media  
due to oil-free operation**



**Corrosion resistant materials  
for various applications**



**Copes well with vapour  
and condensation**



**For wall-mounting or  
in a housing as stand-alone device**



**Flow rates:  
3 / 5,5 / 11 NI/min**



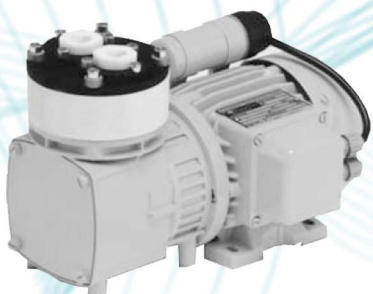
**100% gas tightness**

## Diaphragm Pumps Series AMP 57 and 416

Ankersmid volumetric diaphragm pumps Series AMP 57 and 416 are used for the transportation of sample gas in sample conditioning systems in the chemical industry, for environmental applications, and in production technology; some application examples are sampling gases from the ambient environment, exhaust gases and smoke analysis. The pumps are easy to install and can be adapted to a variety of process conditions.

The pump is equipped with the patented stress-optimized structured diaphragm, resulting in a durable product of high pneumatic performance and compact size. Special valves ensure minimum resistance to flow.

The pumps can be operated by either standard 115/230VAC, or for ex-proof applications, with a motor with various options on voltages and frequencies.



No contamination of the media  
due to oil-free operation



Corrosion resistant materials  
for various applications



Copes well with vapour  
and condensation



Can operate in any  
installed position



flow rates:  
7 / 13 / 16 NI/min



Explosion-proofed versions  
according to ATEX (Zone 1 & 2)



## Diaphragm Pumps Series AMP 510/518/530

The diaphragm pumps are designed with heated or heat resistant pump heads for the transportation of hot sample gases.

All AMP 5xx models are characterized by a stable and homogeneous temperature throughout the pump head and highly efficient insulation. The pumps are available in three different versions:

- A temperature resistant version (T) up to +240°C
- A heated version (TC) up to +240°C with thermostatic temperature control
- A heated version (EC) for temperatures up to +240°C with electronic temperature control and software



Heat resistant or heated pump heads



Corrosion resistant materials for various applications



No condensation in the pump head



Thermostatic or electronic temperature control



Flow rates:  
10 / 18 / 30 NI/min



100% gas tightness

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