

## ANKERSMID AMP 057 AMP 057Ex



CHEMICALLY RESISTANT MINI  
SAMPLING PUMP  
CHEMICALLY AND TEMPERATURE RESISTANT

### 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.



### Application

Ankersmid Mini Diaphragm Pumps 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 **AMP 057** is easy to install and can be adapted to a variety of process conditions.

### Description

The new range of **AMP 057 / AMP 057Ex** pumps are 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.

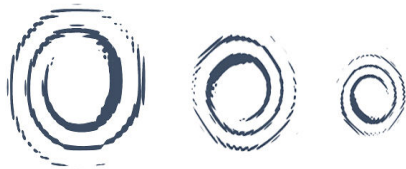
The pumps can be operated by either standard AC, or for ex-proof applications, with a motor with various options on voltages and frequencies.

Type	Delivery (l/min)	Vacuum (mbar absolute)	atm. Press.	Pressure (bar g)	Weight (kg)
AMP 057	7.5	140		1.5	3.1
AMP 057Ex	7.5	140		1.5	3.3



\* Picture may vary

- **No contamination of the media due to oil-free operation**
- **Chemically resistant against aggressive and corrosive gases and vapours**
- **Easy maintenance**
- **Compact size and high pneumatic performance due to the structured diaphragm**
- **High level of gas tightness**
- **Minimized pneumatic loss by means of a new valve system**
- **Can be operated in any installed position**



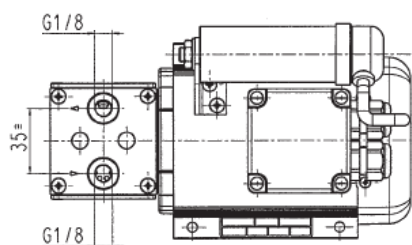
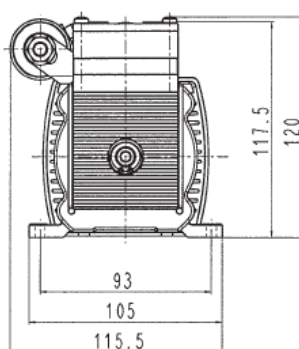
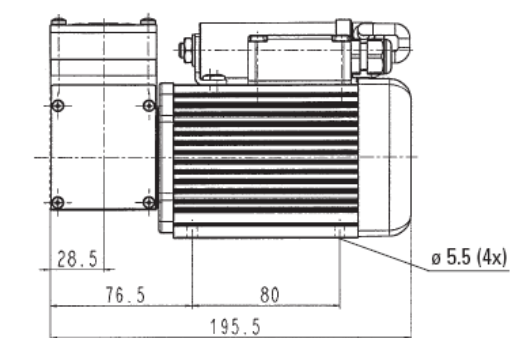
## Dimensions and performance characteristics

Type and Order No. <sup>2)</sup>	Delivery at atm. pressure (l/min) <sup>1)</sup>	Max. operating pressure (bar g)	Ultimate vacuum (mbar abs.)
<b>AMP 057 / AMP 057 Ex</b>	7.5	1.5	140

<sup>1)</sup> Litre at STP <sup>2)</sup> Continuous running

Type and Order No.	Pump head	Diaphragm	Vavles
<b>AMP 057 / AMP 057 Ex</b>	PVDF	CR, PTFE besch.	FFPM

Dimensions in mm (all dimensional tolerances conform to DIN ISO 2768-1, Tolerance Class V)



Protection class	<b>IP 54</b>
Voltage/Frequencies (V/Hz)	230/50
Power P <sub>1</sub> (W)	70
Operating current (A)	0.45

Motors with other voltages and frequencies on request.

