

## DIAPHRAGM GAS SAMPLING PUMP AMP 416

CHEMICALLY AND TEMPERATURE RESISTANT  
Wetted Parts out of PTFE

### 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

Despite its small size, the **AMP 416** Diaphragm Pumps offer a high level of performance, at an excellent price performance ratio.

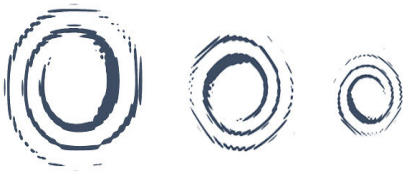
The **AMP 416** is used for the transportation of sample gas in sample conditioning systems in the chemical industry, for environmental applications, and in production technology; some application examples are sampling gases from the ambient environment, exhaust gases and smoke analysis.

The **AMP 416** offers easy installation and adaptation to a variety of processes.



\* Picture may vary

- **Pure transferring, evacuation and compression of air, gases and vapours**
- **No contamination of the media due to oil-free operation**
- **Low maintenance**
- **Chemically-resistant models transferring high aggressive and corrosive gases and vapours.**
- **High level of gas tightness: approx.  $6 \times 10^{-3}$  mbar x l/s**
- **Very quiet and little vibration**
- **Cool running motor even when in constant use**
- **Temperature resistant version up to 200°C**
- **Can operate in any installed**



## Dimensions and performance characteristics

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

