

Flow rate and consumption measurement

of compressed air and technical gases



Your benefits at a glance



Approximately 14 TWh (= 14,000,000,000 kWh) of current are consumed in Germany every year for generating compressed air! This is equivalent to the energy use of a city with more than a million inhabitants (like Munich) or the energy demand of the German Railway (Deutsche Bahn AG).

Leakages in compressed air systems are frequently the cause of costs skyrocketing unexpectedly. The modular adjustable measuring systems of FlowVision help you detect leakages promptly and reduce energy costs significantly.

Benefit 1 Minimising leakage losses

Most operators of compressed air systems complain about more than 30% leakage losses. The strength of the calorimetric measuring system is the ability to reliably measure even the lowest volumetric currents.

Benefit 2 Measuring consumption

Recording of flow and totalisation allows a consumption-dependent allocation of expensive compressed air. Cost centres will become more transparent.

Benefit 3 Modular interchangeable measuring points and systems

The standard plug-in system allows the use in any sensor adapter or in a welded sleeve. The electronic control unit provides ease of re-programming and enables detection and closing of leakages. The same measuring system can also be used for consumption measurement.

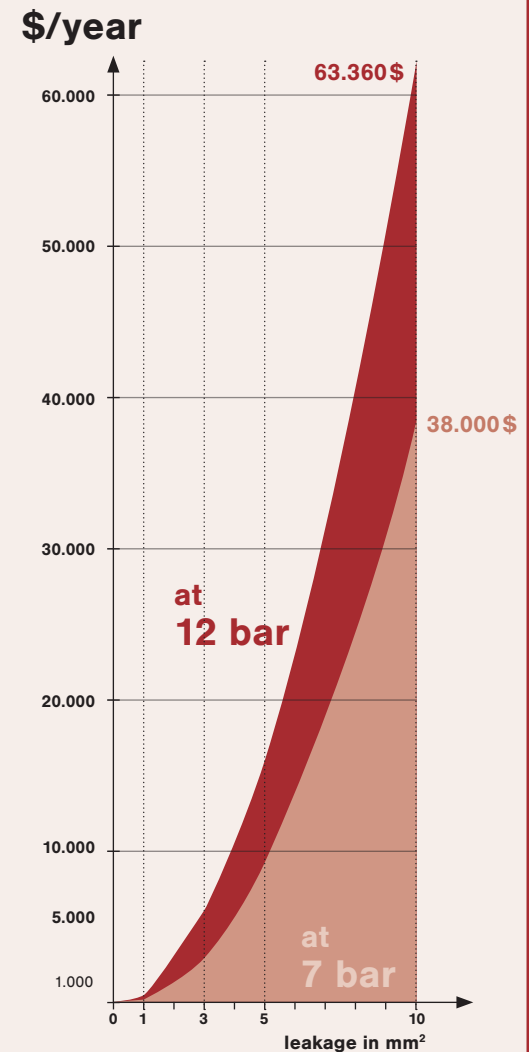
Monitoring instead of extra costs



Examples of cost savings:

- 1 Sensor adapter TP/Ball valve BV**
For exact positioning of the sensors
Price: corresponds to a six-month 1 mm² leakage
- 2 Miniature flow meter FC03**
Low cost sensor with analog 4 ... 20 mA output
Price: corresponds to a six-month 1 mm² leakage
- 3 Miniature flow counter FC04**
Low cost sensor with mass flow dependent pulse output
Price: corresponds to a twelve-month 1 mm² leakage
- 4 Flow meter FC50-CA**
Flow meter with 4...20 mA and pulse output
Price: corresponds to a three-month 3 mm² leakage
- 5 Flow meter FC100-CA**
Universal meter for a wide range of applications in main pipes
Price: corresponds to a six-month 3 mm² leakage

Development of costs depending on leakage*



* depending on pressure and leakage diameter

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