ATEQ G

Leak detector with a programmable continuous flow control

***ATEQ G** in standard case*

ATEQ G is a leakmeter with a continuous flow, that allows the control and the repair of assemblies and sub-assemblies in an industrial field. **The apparatus measures the leak continuously : it is then possible to localize the leak.** Designed and developped to answer to the specific norms of the gas industry (low pressure), it is also able to operate until a pressure of 4 bar.

MAIN FEATURES

- **16 Programs.**
- **Parameters of the cycle can be set freely.**
- **Constant supervision and compensation of the pressure of the test.**
- **Continuous cycle in manual or automatic mode.**
- **Signal lamp indicating a good part from a bad one.**
- **Reject level can be set freely.**
- **Unit of measure : cm^3.atm/h, cm^3.atm/min or other units that can be calibrated (l/h, g/h...).**
- **Interfacing through input-output and RS 232.**

APPLICATIONS

- **Gas industry :** cooker, burner, gas float, heat exchanger of boiler, taps...
- **Automotive industry :** part with low volume such as gas float, injector (jet pump)...

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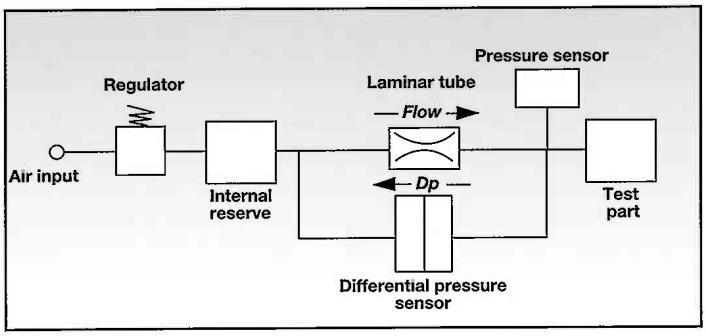
PRINCIPLE OF MEASURE



The implementation of the **ATEG G**'s cycle is automatic. As soon as the part is connected, it is filled up, stabilized, then the leak is measured. After obtaining the equilibrium of the pressure between the internal reserve and the part, the loss of the load at the input and output connections of the laminar tube is directly dependent to the leak of the flow passing through.

TECHNICAL CHARACTERISTICS

MEASURE :

Sensor or transducer of pressure differential (ATEQ's patent)
equiped with an automatic correction of derivation from zero and a system of protection against the excessive pressures.

Full scale :
1000.0 cm³.atm/h or 15.0 cm³.atm/min depending on the volume of the part to be tested.

Resolution : 1 cm³.atm/h or 0.1 cm³.atm/min.

Linearity : (volume of 300 cm³)
0 to 10% of full scale < 2 cm³.atm/h
10 to 100% full scale < 5 cm³.atm/h

Transducer of pressure relative to a silicium gauge
equiped with an automatic correction in case of derivation from zero and a system of protection against the excessive pressures.

Full scale :
- 0.5 to 50 kPa (500 mbar)
  or 20 to 400 kPa (4000 mbar).

Resolution : 1/4000 of full scale.

Linearity : < 0,5% of full scale.

PNEUMATIC :

Pneumatic system :
Gate stop valves and ring seal or joint pressurized with a pneumatic control and return through a spring.
Life span of 5.000.000 cycles minimum.

Pneumatic connections :
4 x 6 mm ~ air input and 4 x 6 mm ~ air output test.

Air input :
The input measure must be between 400 and 800 kPa (4 ~ 8 bar / 60 ~ 116 PSI).
A standardized filter of 5 µ is set up in the apparatus.
Air input must be totally dustfree and dry (type 1.2.1 - norm ISO 8573-1).
Concentration and granulometry (class 1) : 0.1 µm and 0.1 mg/m³.
Dew point under pressure (class 2) : - 40° C.
Maximum concentration of oil (class 1) : 0.01 mg/m³.

PRESENTATION :

Rack 19", 3U.
Standard dimension :
H x W x D = 153,4 mm x 528,5 mm x 292 mm.
Weight of the standard case : about 8.5 kg.

ELECTRONIC :

Microprocessor : INTEL 80C32 ~ 12 MHz.

ELECTRONIC POWER SUPPLY :

120 or 230 VAC + 20% - 50/60 Hz.
Consumption : 50 VA.

INTERFACES :

Output RS 232 on a 9 pin connector.
Remote control via interface, relay or automation available in option.

Input of main board :
- Dry contact
- Connection tension open 24V
- Connection close 10 mA.

Output 24 V of the remote control CPU :
- 24 V continuous open collector
- 500 mA maxi on the load.

Input of the relay board :
- Dry contact
- Connection tension open 24 V
- Connection close 10 mA.

Output relay board :
- Dry contact - maximum current of 500 mA under a load.

ACCESSORIES :

- Waterproof case IP55
- Model "big volume" equiped with a filling up valve bi-pass.
- Model "high pressure" equiped with a fillings up/evacuation valve.

Consult our accessories brochure.

Characteristics subject to modification without notice.

ATEQ

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