Title (en)

GAS REGULATOR WITH ALTIMETRIC ADJUSTMENT

Title (de)

GASDRUCKREDUZIERVENTIL MIT HÖHENKOMPENSATION

Title (fr)

DETENDEUR DE GAZ A COMPENSATION ALTIMETRIQUE

Publication

EP 1576435 A3 20051012 (FR)

Application

EP 03799666 A 20031219

Priority

- FR 0303840 W 20031219
- FR 0216554 A 20021223

Abstract (en)

[origin: FR2849224A1] The deformable temperature sensor is located within the regulator body, in the path of gas passing through it. Heat exchange is facilitated between temperature sensor (9) and gas flow. A sealed enclosure (8) with fins (25) surrounds the temperature sensor. A thermal conductor intervenes between enclosure and sensor. The temperature sensor has an internal, deformable wall. It contains a variable volume component. The main actuator comprises a thrust rod (12) resting against a main spring (14). The rod is part of the temperature sensor and contacts the internal, deformable wall. The body has a lateral wall with an inlet opening (4) and an outlet opening (5) for gas flow. The body cover is designed with a gas inlet, internal line and outlet to user apparatus. The regulation mechanism is controlled by movement of the diaphragm (16). The body, in low thermal conductivity material, is covered by an insulating jacket. A spring-loaded auxiliary actuator (15) takes into account pressure variation resulting from altitude. It has a spring at one end resting against an adjustable ring (11), and at the other, against the moving diaphragm (16). The regulator body has an opening giving access to the threaded ring from the exterior.

IPC 1-7

G05D 23/02

IPC 8 full level

G05D 23/02 (2006.01)

CPC (source: EP US)

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