

Title (en)

A valve unit for regulating the flow-rate of a fuel gas

Title (de)

Ventileinheit zur Regelung des Durchflusses von Brenngas

Title (fr)

Unité de soupape pour commander le débit d'un gaz de combustible

Publication

EP 1039225 A3 20020508 (EN)

Application

EP 99202114 A 19990629

Priority

IT PD990058 A 19990323

Abstract (en)

[origin: EP1039225A2] A valve unit for regulating the flow-rate of a fuel gas delivered through a delivery duct (3) is described and comprises a servo-valve (4) having a closure element (5) controlled by a diaphragm (8), the diaphragm being subjected to the gas-delivery pressure on one side and to a reference pressure established in a control chamber (9) of the servo-valve on the other side, a pressure-regulator device associated with the servo-valve (4) and comprising a regulation valve (10; 51) for controlling the reference pressure in the control chamber (9), additional regulator means for modulating the delivery pressure and/or the output flow-rate of gas through the delivery duct (3) in dependence on an external control, the additional regulator means acting alternatively on the pressure-regulator device or on means (53) for choking the delivery duct in order to modulate the delivery pressure, or to modulate the flow-rate delivered through the delivery duct (3), respectively, and actuator means for the additional regulator means, comprising a reversible motor (32) having a rotor (31) connected to a male-and-female screw coupling (28, 29; 58, 57) acting on the pressure-regulator device or on the choking means, for the operative control thereof. <IMAGE>

IPC 1-7

F23N 5/10; **F23N 1/00**

IPC 8 full level

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CPC (source: EP)

F23N 1/007 (2013.01); **F23N 5/102** (2013.01); **F23N 2235/16** (2020.01); **F23N 2235/20** (2020.01)

Citation (search report)

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- [A] EP 0875720 A2 19981104 - OP CONTROLS S R L [IT]
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