

Title (en)
HIGH TO LOW GAS FLOW REGULATOR

Title (de)
REGLER DER EINEN HOHEN GASDURCHFLUSS NACH EINEM NIEDRIGEN GASDURCHFLUSS REGELT

Title (fr)
REGULATEUR DE FLUX GAZEUX

Publication
EP 1234220 A1 20020828 (EN)

Application
EP 00980333 A 20001110

Priority
• US 0030937 W 20001110
• US 16589399 P 19991112

Abstract (en)
[origin: WO0135180A1] A diaphragm (30) operated regulator (2) usable for maintaining a preset gas pressure in a potable storage container, provides effective flow and pressure regulation. The device includes a gas balanced piston-tower (unit 3) that is freely supported, sealed, and operatively connected to a pressure biasing adjustment (26). The diaphragm assembly (11) permits axial movement relationships between valving channels (14), a valving-seal (9), and volume changes that take place in a low pressure chamber (22). The valve (2) converts axial movement of the diaphragm (30) into smooth transitional flow rates by varying the cross sectional areas of ingress and egress from an open valve position to a closed valve position and has the ability to preset maximum flow rates.

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