

Title (en)
GAS PRESSURE REDUCER WITH ADJUSTABLE SEAT

Title (de)
GASDRUCKMINDERER MIT VERSTELLBAREM SITZ

Title (fr)
RÉDUCTEUR DE PRESSION DE GAZ À ASSISE VARIABLE

Publication
EP 3411769 A1 20181212 (EN)

Application
EP 17701730 A 20170130

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• LU 92967 A 20160202
• EP 2017051942 W 20170130

Abstract (en)
[origin: WO2017134014A1] The invention is directed to a gas pressure reducer (2) comprising a body (10) with an inlet (4) intended to be in flow communication with a high pressure gas source; an outlet (6) intended to deliver the gas at a predetermined low pressure; a passage (8) through the body (10) in flow communication with the inlet (4) and with the outlet (6). A resilient element (24) engages with a pressure reducing piston (18) with a through flow path (22) formed by a needle (20). The needle (20) cooperates with a movable seat (16). The outlet pressure acts on the piston (18) in opposite direction than the spring (24) so as to urge the path (22) against the seat (16) in order to reduce the gas flow through the path (22). Pressure setting means comprise an electric actuator (32), such as a stepper motor, which moves the seat (16) along the moving direction of the piston (18) in order to set the predetermined outlet pressure.

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US 4791954 A 19881220 - HASEGAWA YOSHIHIKO [JP]

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