

Title (en)

GAS LIFT FLOW CONTROL DEVICE

Title (de)

DURCHFLUSS-KONTROLLVORRICHTUNG FÜR LUFTHEBEVERFAHREN

Title (fr)

DISPOSITIF DE REGULATION DE DEBIT POUR EQUIPEMENT D'EXTRACTION A L'AIR

Publication

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Application

**EP 95930623 A 19950904**

Priority

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- US 30166194 A 19940907
- US 43403795 A 19950502

Abstract (en)

[origin: WO9607813A1] A gas flow control device (60) for injecting gas into a downhole production string for recovering pressure and reducing frictional losses, so that critical flow can be reached at lower pressure drops and higher production pressure, includes a housing, inlet ports (54), nose end (61) with check valve (65), and outlet ports (64), and a nozzle (34) having first and second ends, and a flow path therebetween, and a Venturi having first and second ends, and a flow path therebetween. The first end of the Venturi portion is disposed adjacent to the second end of the nozzle. The Venturi flow path is coaxially aligned with the nozzle flow path to provide a continuous flow path therethrough. Such a flow control device that has a gas flow rate performance that is independent of the tubing pressure, even when the tubing pressure is as high as 80 % to 93 % of the casing pressure, can be used to increase the production rate, improve the lift efficiency, and eliminate or suppress instability in continuous-flow gas lift wells.

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