

Title (en)

Variable orifice gas lift valve for high flow rates with detachable power source and method of using

Title (de)

Lufthebeventil mit variabler Öffnung für hohen Durchsatz, ausgerüstet mit einer auswechselbaren Energiequelle sowie Anwendungsverfahren

Title (fr)

Soupape de gas lift à orifice variable pour débits élevés munie d'une source d'énergie amovible et procédé d'utilisation

Publication

EP 1279795 B1 20080514 (EN)

Application

EP 02079411 A 19970815

Priority

- EP 97936508 A 19970815
- US 2396596 P 19960815

Abstract (en)

[origin: EP1279795A1] The present invention is a surface controlled gas lift valve designed for high flow rates and used in a subterranean well, comprising: a valve (8) for sealable insertion in a mandrel, having a variable orifice (16) which alternately permits, prohibits, or throttles fluid flow into the valve, and a detachable and/or remote actuator (20) are disclosed. Methods of actuating the valve include electro-hydraulic, hydraulic, and pneumo-hydraulic, while sensors relay the position of the variable orifice and critical fluid pressures to a panel on the surface. The orifice valve and the actuator while operatively connected, may be separately installed in or retrieved from by either wireline or coiled tubing intervention methods.
<IMAGE> <IMAGE>

IPC 8 full level

E21B 43/12 (2006.01); **E21B 34/06** (2006.01)

CPC (source: EP US)

E21B 34/066 (2013.01 - EP); **E21B 43/123** (2013.01 - EP US)

Cited by

US8006757B2; US11885215B2; US8291979B2; WO2022155413A1; US7814976B2; US8327941B2

Designated contracting state (EPC)

FR GB

DOCDB simple family (publication)

EP 1279795 A1 20030129; EP 1279795 B1 20080514

DOCDB simple family (application)

EP 02079411 A 19970815