

Title (en)

AN AUTOMATICALLY CLOSING CONTROL VALVE FOR THE DELIVERY OF LIQUIDS

Title (de)

SELBSTSCHLIESSENDES VENTIL FÜR FLÜSSIGKEITSABGABE

Title (fr)

CLAPET DE REGULATION A FERMETURE AUTOMATIQUE SERVANT A LA DISTRIBUTION DE LIQUIDES

Publication

EP 1274646 A1 20030115 (EN)

Application

EP 01933717 A 20010316

Priority

- EP 0103044 W 20010316
- IT MI20000539 A 20000316

Abstract (en)

[origin: WO0168508A1] An automatically closing control valve for liquids which includes entry (3') and exit (4') apertures and an internal chamber (5) in which a piston (6) that opens and closes the entry (3') and exit (4') apertures slides. The valve (1) has springs (10, 20) that closes the piston (6), mechanical or pneumatic means (11, 22, 23) to keep the piston (6) open and a monitoring probe (12, 26). The probe (12, 26) communicates with pneumatic means (15, 16, 28, 29) that keep the piston (6) in an opened position and that operate the springs (10, 20) that returns the piston (6) upon reaching maximum level. The aperture (4') is connected to the nozzle (4'') shaped as a Venturi tube, which creates the vacuum to activate the pneumatic means (15, 28).

IPC 1-7

B67D 5/373

IPC 8 full level

B67D 7/48 (2010.01)

CPC (source: EP US)

B67D 7/48 (2013.01 - EP US)

Citation (search report)

See references of WO 0168508A1

Cited by

CN107532415A

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

WO 0168508 A1 20010920; AT E251084 T1 20031015; AU 6013101 A 20010924; DE 60100902 D1 20031106; EP 1274646 A1 20030115; EP 1274646 B1 20031001; IT 1317629 B1 20030715; IT MI20000539 A1 20010916; US 2003089422 A1 20030515

DOCDB simple family (application)

EP 0103044 W 20010316; AT 01933717 T 20010316; AU 6013101 A 20010316; DE 60100902 T 20010316; EP 01933717 A 20010316; IT MI20000539 A 20000316; US 23906502 A 20021219