

Title (en)
Backflow prevention device

Title (de)
Rückflussverhinderungseinrichtung

Title (fr)
Dispositif de prévention de retour d'encoulement

Publication
EP 0709527 A1 19960501 (DE)

Application
EP 94117162 A 19941031

Priority
EP 94117162 A 19941031

Abstract (en)
The device has an intermediate chamber formed between two successive non-return valves, and has an unloader valve controlled by the pressure difference between it and the inlet side, so as to open the chamber to atmosphere before the difference falls to nil. The seats (20, 25) for the unloader valve and the non-return valve at the inlet side are concentric on the valve plug (17) and one inside the other in the radial direction. They can be formed by 45-deg. faces, while guide ribs (21) and stops (22) are situated between them. The plug can be connected to a spring seal (35), the unloader-valve plug (24) being loaded by this seal and a tension spring (28). The ribs can guide both plugs.

Abstract (de)
Zwei Kegel (24, 38) sind unter Bildung einer Druckkammer (14) koaxial hintereinander angeordnet. Der Druck in der Kammer (14) wird durch das Zusammenwirken eines Verschlußkörpers (17) und einer Dichtung (31) nach außen in die Atmosphäre abgebaut, wenn der sich einstellende Druck nach dem Kegel (24) eine Mindestdruckdifferenz gegenüber dem eingangsseitigen Druck unterschreitet. <IMAGE>

IPC 1-7
E03C 1/10

IPC 8 full level
E03C 1/10 (2006.01)

CPC (source: EP)
E03C 1/106 (2013.01); **E03C 1/108** (2013.01)

Citation (search report)
• [X] DE 2414893 A1 19751002 - BRAUKMANN ARMATUREN
• [X] WO 8911611 A1 19891130 - VALVTEC PTY LTD [AU]
• [A] DE 3616589 A1 19871119 - BAELEZ JUERGEN CONTROLS [DE]

Cited by
CN107366795A; DE202014100172U1; DE102014119719B4

Designated contracting state (EPC)
CH DE FR GB IT LI

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EP 0709527 A1 19960501; EP 0709527 B1 20011004; DE 59409895 D1 20011108

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