

Title (en)
Pilot controlled valve for petrol stations

Title (de)
Pilotgesteuertes Ventil für Kraftfahrzeug-Tankanlagen

Title (fr)
Vanne à clapet pilote pour stations d'essence

Publication
EP 0645343 B1 19970305 (DE)

Application
EP 94114516 A 19940915

Priority
DE 4331568 A 19930916

Abstract (en)
[origin: EP0645343A1] In the case of a pilot-controlled valve for petrol stations, the valve gate is composed of two casing parts (10, 12). In the first casing part (10) there are situated an inflow channel (14), an outflow channel (16), an annular valve face (20) and an annular channel (18) which surrounds the said face (20). A closing body (24) is pressed against the valve face (20) by a compression spring (26) and delimits, on its side facing away from the valve face, a pressure equalisation chamber (22), which is formed in the second casing part and is connected via a pressure equalisation channel (52) to the inflow channel (14) so as to permit the throughflow of fluids. A pilot valve (30, 32) controls a flow path (42) between the pressure equalisation chamber (22) and the outflow channel (16). In the pressure equalisation channel (52) there is arranged a nonreturn valve (54, 56) which closes the latter channel (52) off from the inflow channel (14) in the direction of flow from the pressure equalisation chamber (22). This makes the valve secure against back pressure. <IMAGE>

IPC 1-7
B67D 5/34

IPC 8 full level
B60K 15/077 (2006.01); **B62K 11/00** (2006.01); **B67D 5/34** (2006.01); **B67D 7/36** (2010.01); **F16K 31/40** (2006.01)

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