

Title (en)
CISTERN OUTLET VALVE

Title (de)
ABLAUFVENTIL EINES SPÜLKASTENS

Title (fr)
VANNE DE REFOULEMENT DE CITERNE

Publication
EP 1073802 A1 20010207 (EN)

Application
EP 99914676 A 19990407

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Abstract (en)
[origin: GB2336605A] An improved cistern valve, particularly for flushing of W. C.s, comprises a housing (1A) having an upper portion (8) and a lower portion (31A), an upwardly movable main valve assembly (30) within the housing and forming therewith a variable volume upper chamber (11) and lower chamber (32A), a first vent means (9, 42) between the upper chamber (11) and the lower chamber (32A) and an outlet (15) leading down from lower housing portion (31A), which portion (31A) contains a seat (33) for the main valve assembly (30) at the entry (1) to the outlet (15) so that in the lowered position of the main valve assembly the outlet is blocked against the ingress of fluid in which the device is immersed, a central stem (19), extending upwardly from the main valve assembly (30) and actuatable remotely from the upper housing (8) to raise the main valve assembly (30) of its seat, the wall of the lower portion (31A) of the housing having apertures (31B) above the seat (33), whereby on raising the main valve assembly immersion fluid can enter the outlet (15), the net upward buoyancy force acting on the assembly (30) thereby causing it to rise to the top of the upper chamber (11) and permit full flow of immersion fluid through the outlet and, on its substantially complete discharge, the cessation of flow allowing the main valve assembly to revert to its seated position, characterised in that a second vent means (17, 23, 47) is provided in the upper chamber (11) for ejection of fluid from the upper chamber by the rising main valve assembly (30) and in that air can penetrate into the upper chamber via the first and second vent means during descent of the main valve assembly, the upper housing portion (8) having a central hollow boss (28) through which the central stem (19) extends and an annular pocket (12) being formed as a recess bound by a wall (12A) extending downwardly from the upper surface (26) of the main valve assembly and joined at its lower end to the stem (19), the boss (28) extending into this pocket which acts as a water trap labyrinth.

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