

Title (en)
METERING PUMP WITH VENT

Title (de)
DOSIERPUMPE MIT ENTLÜFTUNGSVENTIL

Title (fr)
POMPE DE DOSAGE COMPORTANT UNE SOUPAPE DE DEGAGEMENT D'AIR

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Application
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Abstract (en)
[origin: US5588809A] PCT No. PCT/EP93/03333 Sec. 371 Date Aug. 7, 1995 Sec. 102(e) Date Aug. 7, 1995 PCT Filed Nov. 27, 1993 PCT Pub. No. WO94/13956 PCT Pub. Date Jun. 23, 1994 Metering pumps for the metered feed of liquids are fitted with an intake valve built into an intake line from an intake container, a pump chamber downstream of it with a pumping component altering its displacement volume, a pressure valve leading to the metering connector and a vent and by-pass valve built into a return line leading to the intake container. In order to keep the quality of by-passed metering liquid as small as possible while maintaining adequate venting, there is valve chamber between the pressure valve and the pump chamber and separated from the latter by a return valve and a movable control wall, in which is incorporated the vent controlled by the control wall, opening on the suction stroke of the pumping component and closing on its delivery stroke. There is also preferably in the valve chamber a prestressed displacement wall altering the volume of the valve chamber in the opposite direction to that of the control wall.

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