

Title (en)
DISPENSING MACHINE FOR FLUID PRODUCTS, AND COMPONENTS THEREOF

Title (de)
ABGABEMASCHINE FÜR FLÜSSIGE PRODUKTE UND KOMPONENTEN DAVON

Title (fr)
MACHINE DE DISTRIBUTION POUR PRODUITS FLUIDES ET SES COMPOSANTS

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Application
EP 20713089 A 20200213

Priority
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Abstract (en)
[origin: WO2020165822A1] A dispensing machine for fluid products comprises a support structure with a rotary table which carries a plurality of pumping units coupled to respective fluid product reservoirs. Each pumping unit comprises a pump and a delivery valve connected to each other. The dispensing machine further comprises a dispensing operating area with a valve actuator and a pump actuator, adapted to couple respectively with the valve and the pump of a pumping unit positioned at the dispensing operating area following a rotation of the rotary table. The dispensing machine for fluid products further comprises a further plurality of reservoirs of fluid products coupled to pumping units provided with delivery ducts leading to a fixed nozzle assembly arranged at the dispensing operating area. A dispensing assembly for a rotary table-type fluid dispensing machine comprises a pumping unit with a reciprocating, volumetric pump and a valve assembly coupled to the volumetric pump. A pump actuator and a valve actuator are provided for coupling respectively the volumetric pump and the valve assembly from opposite sides of the pumping unit along a substantially radial direction of the rotary table in a dispensing operating area of the dispensing machine for fluid products. A pump for a dispensing assembly of a dispensing machine for fluid products comprises a cylindrical pumping chamber inside which slidably reciprocates a piston for sucking fluid from a suction duct and feeding fluid into a delivery duct. The piston includes a larger diameter section and a smaller diameter section movable in synchronism with respect to each other to feed a certain flow of fluid proportional to the larger diameter section of the piston. The two sections are movable in opposition to supply a fluid flow proportional to the difference between the two sections of the piston. A valve for a dispensing assembly of a dispensing machine for fluid products comprises a delivery duct, a recirculation duct and a delivery opening. A selector disc is operable from a position in which the delivery duct is in communication with the recirculation duct, to a position in which the delivery duct is in communication with a delivery nozzle of the valve leading to the delivery opening. A check valve for use in a pumping unit of a dispensing machine for fluid products comprises a rigid dome-like structure with a top wall surrounded by a plurality of holes arranged in a circle. The check valve also comprises a corresponding dome-like membrane with a fluid passage on the top of the dome. The passage corresponds to the top wall of the rigid structure so as to be closed when the dome-like membrane rests against the rigid dome-like structure, and be open when the dome-like membrane is spaced from the rigid dome-like structure so as to allow a flow of fluid through the passage in the dome-like membrane and the holes on the rigid structure, the passage for fluid on the top of the dome being preferably a through hole.

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