

Abstract

The invention relates to a membrane filter for filtering a liquid to be filtered, having a downwardly open base element (2) through which flow can pass and which has a tubular shell (3) and precisely one membrane carrier (4) arranged therein, wherein the membrane carrier (4) is connected to the shell (3) by way of at least one anchoring point (15), having hollow fiber-type membranes (5) fastened at the top in the membrane carrier (4), having a circumferentially closed pipe (6) which, adjoining the top of the shell (3) of the base element (2), surrounds the hollow fiber-type membranes (5), having a gas inlet (13) into the base element (2), having at least one permeate collecting chamber (25), having at least one permeate outlet (14), and having at least one downwardly open flow chamber (16) between the shell (3) and the membrane carrier (4), which flow chamber has an outlet (17) at the top, wherein the at least one flow chamber (16), in every horizontal section, adjoins both the shell (3) and the membrane carrier (4), and the membrane carrier (4) fully closes off the base element (2) with the exception of the at least one flow chamber (16) for the through flow from a bottom to a top of the liquid to be filtered. The invention also relates to a method for filtering a liquid in a membrane filter of said type. To reduce the tendency for blockage, it is proposed that the base element (2) be designed such that flow can pass through it in sequence from the gas inlet (13) to the outlet (17) of the at least one flow chamber (16). In the method for filtering a liquid to be filtered in a membrane filter of said type, the gas flows through the base element (2) from the gas inlet (13) into the at least one flow chamber (16) and, together with the liquid to be filtered, through said flow chamber and through the outlet (17) into the pipe (6).

FIG. 1b