

Valve for drinking water installation

Abstract

The present invention relates to a valve for drinking water installation, comprising a valve housing (2) with connections to a pipeline, and a regulating piston (28), which is movable in the valve housing (2) and coupled to a spindle (14) exposed on the outer side of the valve housing (2) and which cooperates, on the side opposed to the spindle (14), with a thermal expansion element (24) exposed in a flow path through the valve housing (2) and resting under the pretension of a spring element (34) against the regulating piston (28), the regulating piston (28) being movable relative to a bore (54) due to the expansion of the expansion element (24). For providing an insofar improved valve for drinking water installation which, depending on an adjustable or non-adjustable temperature, allows a larger volume flow of cold water, if a water temperature is higher than this temperature, and which, in the case of a low temperature, preferably controls the flow rate to a minimum volume flow, the present invention proposes that the regulating piston (28) defines a Kv min setting area (I), through which, at the Kv min position of the regulating piston (28), a Kv min flow passage (56) is formed between the regulating piston (28) and the bore (54) by at least one circumferentially non-continuous gap (58, 60) extending radially on the regulating piston (28) and/or the bore (54) and/or that the regulating piston (28) defines a Kv max setting area (III) with support points (62) formed on the outer circumferential surface of the regulating piston and intermediate flow passage hollows (64), and that, at the Kv max position of the regulating piston (28), the support points (62) extend up to the bore (54) and the flow passage hollows (64) provided therebetween define a Kv max flow passage (III).

Fig. 6