

Title (en)  
MIXING VALVE

Title (de)  
MISCHVENTIL

Title (fr)  
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Publication  
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Application  
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Abstract (en)  
[origin: US6619935B1] The invention relates to a mixing valve with at least two inlets and at least one outlet. A control element is configured as a pump wheel controls the fluid connection between the inlets and the outlets. The pump wheel is connected to a hollow shaft which is rotated by an electric motor and axially displaced through selective actuation of axially displaced stator segments. In a first axial position of the pump wheel, a first inlet is communicated with the outlet and a second inlet is shut off, and in a second axial position the second inlet is communicated with the outlet and the first inlet is shut off. In a third an intermediate axial position, the two inlets communicate with the outlet allowing fluid mixing within a pump chamber. In a further embodiment of the device, the pump wheel includes a rotatable member to impel fluid through the pump chamber and the outlet. The device unites the mixing valve and the circulation pump in one fitting.

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