

Title (en)
VALVE ASSEMBLY FOR A REFRIGERANT CIRCUIT

Title (de)
VENTILANORDNUNG FÜR EINEN KÄLTEMITTELKREISLAUF

Title (fr)
ARRANGEMENT DE VANNE POUR UN CIRCUIT À RÉFRIGÉRANT

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Application
EP 18733849 A 20180621

Priority

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- EP 2018066627 W 20180621

Abstract (en)
[origin: WO2019011617A1] The invention relates to a valve assembly (10) for a refrigerant circuit, comprising at least two ball valves (20, 30), each of which has a ball (24, 34) as a control element and an actuator (28, 38) for adjusting the associated ball (24, 34). The invention further relates to a refrigerant circuit having heat pump functionality for a vehicle having such a valve assembly (10). According to the invention, the at least two ball valves (20, 30) are each designed as a 3-way valve allowing bidirectional flow and having three connection points (A1, B1, C1, A2, B2, C2), wherein a first ball (24) of a first ball valve (20) has a T-shaped borehole, which permits selective flow through two connection points (A1, B1; A1, C1) of the three connection points (A1, B1, C1) and blocking of one connection point (B1, C1) of the three connection points (A1, B1, C1) or simultaneous flow through the three connection points (A1, B1, C1), and wherein a second ball (34) of a second ball valve (30) has an L-shaped borehole, which permits selective flow through two connection points (A2, B2; A2, C2) of the three connection points (A2, B2, C2) and blocking of one connection point (B2, C2) of the three connection points (A2, B2, C2) or blocking of the three connection points (A2, B2, C2).

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See references of WO 2019011617A1

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