

Title (en)

ELECTROMAGNETIC PROPORTIONAL VALVE AND SYSTEM HAVING A PROPORTIONAL VALVE

Title (de)

ELEKTROMAGNETISCHES PROPORTIONALVENTIL UND SYSTEM MIT EINEM PROPORTIONALVENTIL

Title (fr)

VALVE PROPORTIONNELLE ÉLECTROMAGNÉTIQUE ET SYSTÈME DOTÉ D'UNE VALVE PROPORTIONNELLE

Publication

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Application

EP 19832620 A 20191217

Priority

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Abstract (en)

[origin: WO2020127274A1] The invention relates to an electromagnetic proportional valve (1), preferably for refrigerant, comprising the following: an armature (3) of an electromagnet (2), which is movably arranged axially between a rest position, an actuating position and working positions and on which an actuating element (22) is arranged; a piston (14), which is designed as a hollow piston and has, on a first axial end region (32), a first opening (33) toward an inflow (11) of the expansion valve (1) and has, on a second axial end region (34), a second opening (35) toward a pressure equalization chamber (29); and a blocking body (24), which is designed to close the second opening, wherein the piston (14) is axially movably arranged and wherein the piston (14) is designed to block a fluid passage as a shut-off element of a main valve device (13), wherein the fluid passage of the main valve device (13) is blocked in the rest position of the armature (3), wherein the actuating element (22) is designed to act on the blocking body (24) when the armature (3) is in the actuating position such that said blocking body exposes the second opening at least in regions, and wherein the fluid passage of the main valve device (13) is opened in the working positions of the armature (3). The invention furthermore relates to a system having such a proportional valve (1).

CPC (source: EP US)

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Citation (search report)

See references of WO 2020127274A1

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