

Title (en)

THROTTLE PISTON FOR REDUCING FLUID PRESSURE IN A CONTROL VALVE

Title (de)

DROSSELKOLBEN ZUM REDUZIEREN VON FLUIDDRUCK IN EINEM STELLVENTIL

Title (fr)

PISTON DE RÉGULATION POUR RÉDUIRE LA PRESSION FLUIDIQUE DANS UNE SOUPAPE DE RÉGLAGE

Publication

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Application

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Abstract (en)

[origin: WO2022128715A1] The invention relates to a throttle piston (1) for reducing fluid pressure in a control valve (100) from a high pressure region (104) to a low pressure region (103), the throttle piston (1) being translationally movable in an axial direction (A), defining a radial direction (R) transverse to the axial direction (A) and a circumferential direction (U) relative to the axial direction (A), and comprising a plurality of distribution chambers (11, 13, 21, 31), which are arranged in the interior (3) of the throttle piston (1) and are connected to each other by at least one transition channel (62, 64, 65), the distribution chambers (11, 13, 21, 31) comprising at least one high pressure distribution chamber (11, 13) and at least one low pressure distribution chamber (31), at least one inlet channel (41, 43) leading from the high pressure distribution chamber (11, 13) to a first throttle piston outer side (4) on the side of the high pressure region (104), and at least one outlet channel (51) leading from the low pressure distribution chamber (31) to a second throttle piston outer side (5) on the side of the low pressure region (105). According to the invention, the distribution chambers (11, 13, 21, 31) are offset relative to each other in the circumferential direction (U) and/or radial direction (R).

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