Title (en)

PILOT-OPERATED REGULATING CONNECTOR FOR REGULATING THE SPEED OF PNEUMATIC ACTUATORS

Publication

EP 0360718 B1 19921223 (FR)

Application

EP 89460027 A 19890913

Priority

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Abstract (en)

[origin: WO9002883A1] The invention relates to a controlled connector-regulator allowing the occurrence of two different speeds in the same stroke of a double acting pneumatic cylinder. In the absence of control signal at the orifice (13) of the apparatus, the exhaust pressure coming from the cylinder (30) effecting its rod output stroke finds the return valve (14) closed and maintains the piston (2) against the stop (9) of which the adjustment determines a first flow rate between the needle (15) at the extremity of the piston and its seat (16), which flow rate corresponds to the high speed. The occurrence of a pressure signal in the chamber (6) displaces the piston (2) till it butts against a second screw (7) of which the regulation allows a second flow rate smaller than the first one and which thus determines the second speed. The return valve (14) opens to the inlet flow traversing backwards the apparatus in the direction of the cylinder in its reverse stroke, and the control signal having disappeared, this pressure pushes back the piston (2) to the high speed position. Applications to pneumatic techniques.

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EP 0360718 A1 19900328; **EP 0360718 B1 19921223**; DE 68904028 D1 19930204; DE 68904028 T2 19930506; ES 2036366 T3 19930516; FR 2637326 A1 19900406; FR 2637326 B1 19921016; JP H03501996 A 19910509; US 5097747 A 19920324; WO 9002883 A1 19900322

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