

Title (en)

Pneumatic actuator with stroke end cushioning

Title (de)

Endlagengedämpfter Pneumatikzylinder

Title (fr)

Vérin pneumatique avec dispositif amortisseur de fin de course

Publication

EP 1416166 B1 20051228 (DE)

Application

EP 03103653 A 20031002

Priority

DE 10246766 A 20021007

Abstract (en)

[origin: EP1416166A1] The pneumatic cylinder, with a damping action on the movement into an end position, has a cylinder housing (1) which is closed at one end by a cylinder cover (2,3). A piston (5) has an axial movement within the cylinder, through the action of a pressure medium on at least one side, with a piston rod (6) passing through at least one cover in a sealed passage. The damper has a bush (12) sliding coaxially at the piston which, in the start position, projects from an end side surface (13) of the piston and which can be retracted on overcoming a reaction force in the piston. The far end of the bush closes a corresponding ring shaped exhaust air opening as the main flow cross section in the cylinder cover. At the end movement section (X), only a parallel exhaust air opening remains as a residual flow cross section.

IPC 1-7

F15B 15/22

IPC 8 full level

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CPC (source: EP)

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Cited by

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