

Title (en)
Variable-stroke pneumatic cylinder

Title (de)
Zylinder mit variabler Hublänge

Title (fr)
Vérin pneumatique à course variable

Publication
EP 1302673 A1 20030416 (EN)

Application
EP 02020943 A 20020919

Priority
IT MI20012137 A 20011016

Abstract (en)
A variable-stroke pneumatic cylinder (10); the cylinder (10) comprises a tubular casing (11), having fore and rear heads (14, 15), defining a chamber (12) for reciprocation of a piston member (13) along a working stroke; at least one of the heads (14, 15) is provided with an air inlet/outlet hole (16, 17) connected to a central cavity (18, 19) in the cylinder head (14, 15), which facing towards the piston chamber (12). The rear head (15) is provided with a pneumatic damping device comprising a venting path (25a, 25b, 27) provided with a control valve. The pneumatic cylinder (10) also comprises head extension members (28) to change the working stroke; the extension members are in the form of disk-shaped member (28) secured to the cylinder head (15). Each disk member (28) is provided with a central hole (29) axially aligned with the central cavity (19) of the cylinder head (15), and an air venting hole (31) axially aligned with a venting hole (25b) branched off from the air venting path (25a, 27). <IMAGE>

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F15B 15/24; **F15B 15/22**

IPC 8 full level
F15B 15/22 (2006.01); **F15B 15/24** (2006.01)

CPC (source: EP US)
F15B 15/223 (2013.01 - EP US); **F15B 15/24** (2013.01 - EP US)

Citation (search report)

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