

Title (en)

Pneumatic linear drive with locking for ends of travel

Title (de)

Pneumatischer Linearantrieb mit Endlagenverriegelung

Title (fr)

Entraînement linéaire pneumatique à verrouillage en position déployée

Publication

EP 0579919 B1 19951220 (DE)

Application

EP 93107819 A 19930513

Priority

DE 4221230 A 19920627

Abstract (en)

[origin: EP0579919A1] Linear drive with a single-acting, pneumatic piston/cylinder unit (1), with at least one spring (5), counteracting the pneumatic force and loading the piston rod (8) in the direction of an end of travel, and one positive pneumatic locking means each for each of the two ends of travel of the piston rod (8). The locking means comprises a locking link (14) when can engage from diametral sides in one recess (9, 10) each of the piston rod (8, 10), a first control piston (17) rigidly connected to the locking link, a second, larger control piston (21) mounted in a longitudinally movable manner on a supporting tube (30) rigidly connected to the locking link (14), a spring (37) pressing the second control piston (21) in the direction of its outer end of travel, a fixed stop (39) for the second control piston (21), a valve piston (28) coupled to the second control piston in a spring-elastic and sealing manner and having a closable choke passage (29), and an open flow connection (36) from the inner space of the second control piston (21) and the valve piston (28) to the pressure space of the piston/cylinder unit (1). <IMAGE>

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IPC 8 full level

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CPC (source: EP)

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