

Title (en)
Hydraulic cylinder.

Title (de)
Hydraulikzylinder.

Title (fr)
Cylindre hydraulique.

Publication
EP 0530541 B1 19950719 (DE)

Application
EP 92113537 A 19920808

Priority
DE 9111009 U 19910905

Abstract (en)
[origin: EP0530541A1] A hydraulic cylinder with end-position damping comprises a working piston (4) which moves in a working cylinder (2) between two pressure spaces (6, 6%) and on both sides of which in each case a centrally projecting damping extension (9, 9%) is provided which, before the respective end of stroke is reached, can be inserted in a slidable manner into a receiving bore (8) in the area of a respective cylinder-closing part (3) in such a way as to choke a direct discharge of the hydraulic medium. In a spring space (29, 29%) of the working piston (4) which can be filled with the hydraulic medium, a damping piston (23, 23%) supported in a slidable manner against a spring element (25, 25%) is arranged in the area of the damping extension (9, 9%), in the front area of which damping piston (23, 23%) a choke groove (33, 33%; 42, 42%) is provided, and the end face (32, 32%) of which, at least in certain areas, can be brought into supporting engagement at the cylinder-closing part (3), separating the hydraulic medium in the receiving bore (8) of the cylinder-closing part (3) and in the spring space (29, 29%) from that in the respective pressure space (6, 6%), so that the choke groove (33, 33%; 42, 42%) forms the only flow connection for the separated hydraulic medium. <IMAGE>

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F15B 15/22

IPC 8 full level
F15B 15/22 (2006.01)

CPC (source: EP)
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