

Title (en)  
FLUID-POWER CYLINDER PROVIDED WITH A CUSHIONING DEVICE.

Title (de)  
HYDRAULISCHER ZYLINDER MIT DÄMPFUNGSANORDNUNG.

Title (fr)  
CYLINDRE HYDRAULIQUE AVEC DISPOSITIF AMORTISSEUR.

Publication  
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Application  
**EP 89912017 A 19891102**

Priority  
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• SE 8900624 W 19891102

Abstract (en)  
[origin: WO9005245A1] A fluid-power cylinder comprising a power cylinder member (11) and a power piston member (12) reciprocable therein between end positions includes a device for cushioning the relative movements of the power piston member and the power cylinder member adjacent the end positions. The cushioning device comprises a cushioning cylinder (13) movable together with the power piston member (12) and a cushioning piston (14) which is stationary with respect to the power cylinder member (11) and which is receivable and axially movable in the cushioning cylinder to define a cushioning cylinder compartment (31A, 31B) having a restricted discharge passage (37/38, 40/41). A seal (36A, 36B) on the cushioning piston (14) acts as a one-way valve to prevent flow of cushioning fluid between the cushioning piston (14) and the cushioning cylinder (13) when the cushioning piston moves inwardly in the cushioning cylinder compartment (31A, 31B) and thereby reduces the volume of the compartment, but allows substantially unrestricted fluid flow when the cushioning piston moves outwardly.

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