

Title (en)
PISTON-CYLINDER ASSEMBLY WITH LOCKING UNIT

Title (de)
KOLBENZYLINDERANORDNUNG MIT VERRIEGELUNGSEINHEIT

Title (fr)
VÉRIN AVEC UNITÉ DE VERROUILLAGE

Publication
EP 3978766 B1 20240403 (EN)

Application
EP 21196823 A 20210915

Priority
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Abstract (en)
[origin: EP3978766A1] A piston assembly (10) with an automatic locking mechanism is provided comprising a piston housing (20), piston rod (14) with a centreline (AA), at least one collar (40), and a lock (24). The at least one collar (40) is slidably disposed on the piston rod (14) to actuate the lock (24). The lock (24) is configured to engage the at least one conical surface (30) in a piston locked state. The lock (24) is also configured to be spaced apart from the at least one conical surface (30) in a piston unlocked state. The at least one collar (40) is arranged to abut the lock (24) and to move the lock (24) from the piston locked state to the piston unlocked state when fluid pressure is applied to the at least one collar (40).

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