

Title (en)

HIGH-PRESSURE PUMP HAVING A FLUID TYPE PULSATION DAMPENER

Title (de)

HOCHDRUCKPUMPE MIT EINEM FLUIDDÄMPFER

Title (fr)

POMPE À HAUTE PRESSION AYANT UN AMORTISSEUR FLUIDIQUE DE PULSATIONS

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Application

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Abstract (en)

[origin: WO2017157554A1] The invention relates to a high-pressure pump, having a pump housing (2), on which a pump cylinder head (4) having a pump cylinder (3) is arranged, wherein a pump push rod (26) is arranged in a pump cylinder guide (27) of the pump cylinder (3), which pump push rod interacts with a pump working chamber (36) and with a drive unit compartment (8) arranged in the pump housing (2), and wherein the pump working chamber (36) is fluidically connected to the drive unit chamber (8) by means of an electromagnetically actuatable suction valve (6) and the high-pressure pump has a fluid damper. According to the invention, a high-pressure pump is provided which is improved with respect to damping of the pressure fluctuations or pressure pulsations of a fluid to be conveyed. This is achieved in that the fluid damper is designed as at least one membrane (38a, 38b), which is inserted into a damper chamber (19) recessed into the pump housing (2).

IPC 8 full level

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