

Title (en)
RADIAL PISTON PUMP

Title (de)
RADIALKOLBENPUMPE

Title (fr)
POMPE A PISTONS RADIAUX

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Application
EP 04713078 A 20040220

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Abstract (en)
[origin: WO2004079190A1] The invention relates to a radial piston pump for generation of high fuel pressures in fuel injection systems, comprising a pump housing (1), a pump shaft and at least one cylinder insert (2), arranged radially to the pump shaft. A cylinder chamber (3) is located within the cylinder insert (2) in which a piston (4) can move back and forth. The cylinder insert (2) is connected with a front face (5) to a flattening (6) of the pump housing (1), by connecting means. The cylinder insert (2) comprises an inlet port (8) and a high pressure port (9). The front face (5) of the cylinder insert (2) and/or the flattening (6) of the pump housing (1) comprise precisely machined raised sealing regions (12, 13, 14) for sealing the cylinder insert (2) against the pump housing (1), which are relatively small in relation to the total front face (5) of the cylinder insert (2) and the total flattening (6) of the pump housing (1). A high surface pressure is thus achieved in the sealing region.

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