

Title (en)

RADIAL PISTON PUMP UNIT FOR SUPPLYING FUEL AT HIGH PRESSURE IN FUEL INJECTION SYSTEMS

Title (de)

RADIALKOLBENPUMPENEINHEIT ZUR KRAFTSTOFF-HOCHDRUCKVERSORGUNG BEI KRAFTSTOFF-EINSPRITZSYSTEMEN

Title (fr)

UNITÉ DE POMPE À PISTONS RADIAUX POUR L'ALIMENTATION DE CARBURANT HAUTE PRESSION DANS DES SYSTÈMES D'INJECTION DE CARBURANT

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Application

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Abstract (en)

[origin: WO2008012295A2] The invention relates to a radial piston pump unit for supplying fuel at high pressure in fuel injection systems, in particular in common rail high-pressure injection systems, having a pump housing 1 in which a driveshaft 21 with at least one eccentric section 31 is mounted, having an eccentric ring 15 which is acted on by at least one activation plate 10 of a compressor piston 4 which is mounted in a cylinder 2, having a support element which surrounds part of the cylinder 2 and is loaded by at least one spring 11, and having an intake valve 6 and a pressure valve 7 which interact with the compressor piston 4. According to the invention, two side plates 17, 17' with polygonal faces which serve as driver mechanisms for the eccentric ring 15 are mounted on the driveshaft 21 in the region of the eccentric section 31, wherein the support element of each cylinder 2 is embodied as a plunger bowl 13 which is supported in the lower region on the polygonal faces of the side plates 17, 17' and slides thereon.

IPC 8 full level

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