

Title (en)

AXIAL PISTON MOTOR, CIRCUIT DEVICE, DRIVE UNIT AND MOTOR VEHICLE

Title (de)

AXIALKOLBENMOTOR, KREISPROZESSVORRICHTUNG, ANTRIEBSEINHEIT UND KRAFTFAHRZEUG

Title (fr)

MOTEUR À PISTONS AXIAUX, SYSTÈME À CYCLE, ENSEMBLE DE PROPULSION, ET VÉHICULE À MOTEUR

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Application

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Priority

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Abstract (en)

[origin: WO2018166867A1] The invention relates to an axial piston motor (10) comprising a cylinder housing (12) in which several cylinders (16) are formed. Pistons (18) are movably guided in the cylinders (16), the pistons (18) are connected to a swash plate and a flow of fluid entering into the axial piston motor (10) via an inlet (58) is controlled in the cylinders and outside of said cylinders by means of inlet and outlet valves. The inlet and outlet valves comprise fluid change openings (42) formed in a cylinder head plate (40) that can be temporarily released and covered by means of a rotary slide (52). The rotary valve (52) comprises an inlet opening (54) that can be fluidically connected to the fluid change openings (42), and which is fluidically connected to the inlet (58) by means of a tube-shaped sealing element (98), the sealing element (98) being in contact, by means of the inlet pressure of the fluid, with an abutment, in particular formed by the rotary valve (52), in order to seal a gap formed between the sealing element (98) and the abutment, which forms a connection that is to be sealed between the high pressure side of the axial piston motor (10) comprising the inlet (58), and the low-pressure side comprising an outlet (64).

IPC 8 full level

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