

Title (en)

CONTROL VALVE OF A PHASING DEVICE FOR ADJUSTING THE PHASE OF A CAMSHAFT RELATIVE TO THE CRANKSHAFT IN AN INTERNAL COMBUSTION ENGINE

Title (de)

STEUERVENTIL EINER VORRICHTUNG ZUR VERÄNDERUNG DER RELATIVEN WINKELAGE EINER NOCKENWELLE GEGENÜBER EINER KURBELWELLE EINER BRENNKRAFTMASCHINE

Title (fr)

SOUPAPE DE COMMANDE D'UN SYSTÈME PERMETTANT L'AJUSTEMENT DU DÉPHASAGE D'UN ARBRE A CAMES PAR RAPPORT AU VILEBREQUIN D'UN MOTEUR A COMBUSTION INTERNE

Publication

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Application

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Priority

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Abstract (en)

[origin: WO2011117019A1] The invention relates to a control valve (1) of a device (2) for changing the relative angular position of a camshaft (3) with respect to a crankshaft of an internal combustion engine, wherein, in a region (4) facing the camshaft (3), the control valve (1) comprises a fluid line (5) for supplying fluid under pressure and wherein, in an axial central region (6), the control valve (1) comprises two fluid lines (7, 8) for supplying and removing fluid under pressure to at least two hydraulic chambers. The hydraulic chambers are operatively arranged between a drive element (9) and the camshaft (3) in order to set a defined relative rotational position between the drive element (9) and the camshaft (3). In a region (10) facing away from the camshaft (3) the control valve (1) has a fluid line (11) for removal of fluid to a tank. In order to reduce wear on the device, according to the invention the fluid line (11) for removing fluid in a preferably hollow-cylindrical section (12) of the control valve (1) is in the form of at least one recess extending through the preferably hollow-cylindrical section (12) to the outside (13) of the section (12).

IPC 8 full level

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