

Title (en)

BISTABLE SOLENOID VALVE FOR A HYDRAULIC BRAKING SYSTEM AND CORRESPONDING HYDRAULIC BRAKING SYSTEM

Title (de)

BISTABILES MAGNETVENTIL FÜR EIN HYDRAULISCHES BREMSYSTEM UND KORRESPONDIERENDES HYDRAULISCHES BREMSYSTEM

Title (fr)

ÉLECTROVANNE BISTABLE POUR SYSTÈME DE FREINAGE HYDRAULIQUE ET SYSTÈME DE FREINAGE HYDRAULIQUE CORRESPONDANT

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Application

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Abstract (en)

[origin: WO2018219529A1] The invention relates to a bistable solenoid valve (10A, 10B, 10C) for a hydraulic braking system (1A, 1B), comprising a magnetic assembly (20, 20C) and a guide sleeve (13, 13C), in which a stationary component (11) is fixedly arranged and in which a valve armature (17A, 17B, 17C) having a permanent magnet (18A, 18B, 18C), which is polarized in the direction of motion thereof, is axially movably arranged, the magnetic assembly (20, 20C) being slid onto the stationary component (11) and the guide sleeve (13, 13C), and the stationary component (11) forming an axial stop for the valve armature (17A, 17B, 17C), the valve armature (17A, 17B, 17C) being drivable by a magnetic force produced by the magnetic assembly (20, 20C) or by a magnetic force of the permanent magnet (18A, 18B, 18C) and forcing a closing element (17.1, 17.1C) into a valve seat (15.1, 15.1C) during a closing motion and lifting said closing element out of the valve seat (15.1, 15.1C) during an opening motion. The invention further relates to a hydraulic braking system (1A, 1B) having at least one such bistable solenoid valve (10A, 10B, 10C). The valve armature (17A, 17B, 17C) has, on the first end face thereof facing the stationary component (11), a magnet receptacle (17.3, 17.3C), which holds the permanent magnet (18A, 18B, 18C).

IPC 8 full level

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