

Title (en)

PRESSURE CONTROL VALVE WITH DEFLECTING CAP

Title (de)

DRUCKREGELVENTIL MIT UMLENKKAPPE

Title (fr)

SOUPAPE DE RÉGULATION DE PRESSION COMPRENANT UNE CHICANE

Publication

EP 3014110 B1 20170614 (DE)

Application

EP 14720618 A 20140430

Priority

- DE 102013211937 A 20130624
- EP 2014058915 W 20140430

Abstract (en)

[origin: WO2014206605A1] A pressure control valve (10) comprises a housing (20) with an inlet opening (16) and an outflow opening (18); a valve pin (12) which is guided in the housing (20); and a valve element (36) at one end of the valve pin (12), which valve element (36) is configured to close a valve seat (14) upon movement of the valve pin (12), with the result that a fluid flow (50) between the inlet opening (16) and the outflow opening (18) is interrupted. The valve pin (12) is divided into an armature pin (12a) and a valve needle (12b), wherein the armature pin (12a) has a hollow channel (47) and the valve needle (12b) has at least one side channel (48), with the result that, when the pressure control valve (10) is open, the fluid flow (50) is guided from the inlet opening (16) through the side channel (48) into the hollow channel (47) and from there into the outflow opening (18).

IPC 8 full level

F02M 63/02 (2006.01); **F02M 63/00** (2006.01)

CPC (source: EP)

F02M 63/0017 (2013.01); **F02M 63/0043** (2013.01); **F02M 63/0052** (2013.01); **F02M 63/025** (2013.01)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

DE 102013211937 A1 20141224; EP 3014110 A1 20160504; EP 3014110 B1 20170614; WO 2014206605 A1 20141231

DOCDB simple family (application)

DE 102013211937 A 20130624; EP 14720618 A 20140430; EP 2014058915 W 20140430