

Title (en)
HIGH-PRESSURE VALVE AND SEAT GASKET FOR SAME

Title (de)
HOCHDRUCKVENTIL UND SITZDICHTUNG HIERFÜR

Title (fr)
SOUPAPE HAUTE PRESSION ET SON JOINT DE SIÈGE

Publication
EP 2823204 A1 20150114 (DE)

Application
EP 12809105 A 20121130

Priority
EP 2012004950 W 20121130

Abstract (en)
[origin: WO2014082649A1] A high-pressure valve (1) has a locking element (4) between a high-pressure area (2) and a low-pressure area (3), which locking element can be moved between a closed position and an open position. To create a seal in the closed position, a seat gasket radially abutting against the locking element is provided, which gasket is arranged in an inner-wall recess of the high-pressure valve housing and abuts against the locking element in the closed position. The seat gasket is surrounded by a flexible element likewise provided in the recess, wherein the recess has a tapered area in the region adjacent to the locking element, by means of which a contact section of the seat gasket radially abuts against the locking element and is secured in the recess by the wider region, wherein the gasket forms an annular gap, particularly a wedge-shaped annular gap, together with the inner wall of the recess on the face turned away from the locking element, into which annular gap the flexible element is pressed, by pressure on the high-pressure side when the closed position is reached, whereby the contact section of the seat gasket is pressed against the locking element.

IPC 8 full level
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CPC (source: EP)
F16J 15/3208 (2013.01); **F16J 15/46** (2013.01); **F16K 3/243** (2013.01); **F16K 3/246** (2013.01)

Citation (search report)
See references of WO 2014082649A1

Citation (examination)
FR 2418399 A1 19790921 - LEVARDON RAYMOND [FR]

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

Designated extension state (EPC)
BA ME

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