

VALVE SEAL

ABSTRACT

5 A device in a valve (1) comprises a valve housing (2) with at least a first (3) and a second (4) fluid port. A closure element (5) is arranged in the valve housing (2), said closure element (5) having a sealing portion (15) and comprising a diaphragm (30). The sealing portion (15) is movable along an axis of the closure element (5) by said diaphragm (30) between an open position and a closed position of at least one of the fluid ports of the valve housing. The closure element (5) together with the valve housing (2) forms a flow passage (11) in the valve housing (2) which communicates with said fluid ports when the sealing portion (15) leaves said closed position. A second sealing portion (14) of the closure element, which is an enclosing portion spaced from said axis, is arranged in contact with a support portion (25) of the valve housing (2). An abutment means (16) is arranged in contact along the periphery of said second sealing portion (14) in such a manner that said second sealing portion (14) is arranged between the support portion (25) and the abutment means (16). The abutment means (16) is arranged to transmit a force via said second sealing portion (14) toward the support portion (25) to provide a seal. Said force is, at least partly, a force exerted by a spring means arranged in the device.

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FIGURE 8A