Title (en)
VALVE ARRANGEMENT

Publication
EP 0346285 B1 19920429 (DE)

Application
EP 89810419 A 19890605

Priority
CH 220988 A 19880609

Abstract (en)
[origin: EP0346285A1] The valve arrangement contains a disc-shaped valve element (61) which can be placed loosely against a valve seat (63), and a spring plate (62) which can be clamped loosely against the latter. On the side facing away from the valve seat (63), the valve element (61), which completely covers a passage opening (36) which is surrounded by the valve seat (63) and through which a fluid can flow, is provided with a central, local raised portion (64) which cooperates with a central supporting surface (66) of the spring plate (62). The valve element (61) and the spring plate (62) are arranged in freely movable fashion in a recess (38) through which the fluid can flow and which is formed in a guiding part surrounding the valve seat (63). This recess (38) is formed at a distance from the valve seat (63) which permits a raising of the valve element (61), with an inward-projecting shoulder (67) against which the edge part (71) of the spring plate (62) rests under prestress. This arrangement provides a valve of flat, compact design and with a minimum dead space. Valves of this kind are suitable as delivery valves and inlet valves, in particular for small, dry- running compressors or for pumps. <IMAGE>

IPC 1-7
F04B 39/10

IPC 8 full level
F04B 39/10 (2006.01)

CPC (source: EP US)
F04B 39/102 (2013.01 - EP US); Y10T 137/7937 (2015.04 - EP US); Y10T 137/87587 (2015.04 - EP US)

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EP 0346285 A1 19891213; **EP 0346285 B1 19920429**; AU 3614389 A 19891214; AU 618605 B2 19920102; CA 1327189 C 19940222; DE 58901264 D1 19920604; US 4936327 A 19900626; US 4981421 A 19910101

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