

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)

Cited by  
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