

Title (en)  
Suction control valve

Title (de)  
Ansaugregelventil

Title (fr)  
Soupape de contrôle de l'aspiration

Publication  
**EP 0576415 B1 19960313 (DE)**

Application  
**EP 93890096 A 19930512**

Priority  
AT 113792 A 19920602

Abstract (en)  
[origin: EP0576415A1] A suction control valve for a screw compressor is fitted into the suction line which it alternately clears or closes. The suction control valve, which is designed as a double-seat valve, has a closure body (17) assigned to which there are two confronting valve seats, a return-flow seat (7) and an intake seat (9). As the screw compressor starts up, the closure body (17) is pulled, by the suction pressure produced in the process, onto the intake seat (9). As soon as a certain operating pressure is reached, the closure body (17), via a servo-cylinder (10) with a servo-piston (11), is lifted from the intake seat (9) by the pressure medium and moved into an intermediate position between its two seats (7, 9) so that the screw compressor is able to deliver at its full capacity. As soon as the screw compressor is switched off, a weak spring (18) supported on the valve housing (1) forces the closure body (17) onto the back-flow seat (7) and seals this tightly so that neither pressure medium nor oil, injected for lubricating the screw compressor, can flow back into the intake line. <IMAGE>

IPC 1-7  
**F04C 29/10**

IPC 8 full level  
**F04C 18/16** (2006.01); **F04C 28/24** (2006.01)

CPC (source: EP US)  
**F04C 18/16** (2013.01 - EP US); **F04C 28/24** (2013.01 - EP US); **Y10S 137/907** (2013.01 - EP US); **Y10T 137/777** (2015.04 - EP US)

Cited by  
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DOCDB simple family (publication)  
**EP 0576415 A1 19931229; EP 0576415 B1 19960313**; AT 402542 B 19970625; AT A113792 A 19961015; DE 59301852 D1 19960418; FI 105413 B 20000815; FI 932498 A0 19930601; FI 932498 A 19931203; US 5411375 A 19950502

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