

Title (en)  
PISTON VACUUM PUMP WITH DISCHARGE VALVE

Title (de)  
KOLBENVAKUUMPUMPE MIT AUSLASSVENTIL

Title (fr)  
POMPE A VIDE A PISTON DOTEE D'UNE SOUPAPE DE SORTIE

Publication  
**EP 0922166 B1 20040331 (DE)**

Application  
**EP 97928176 A 19970612**

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Abstract (en)  
[origin: DE19634517A1] The invention relates to a piston vacuum pump with at least one cylinder (2) and a piston (3) located therein, a gas inlet (7, 31) and a discharge valve (7, 31) located on the face. To improve particulate compatibility the entire face of the cylinder forms the valve disk (13, 33) of the discharge valve (12, 32) and the face edge of the cylinder (2) forms the valve seat (14, 42).

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