

Title (en)
CONTROL VALVE FOR VARIABLE DISPLACEMENT COMPRESSOR

Title (de)
REGELVENTIL FÜR EINEN VERDICHTER MIT VARIABLER VERDRÄNGUNG

Title (fr)
SOUPAPE DE CONTRÔLE POUR COMPRESSEUR À DÉPLACEMENT VARIABLE

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Application
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Abstract (en)
[origin: EP2963295A1] A control valve (1) according to one embodiment includes a valve element (24) that autonomously operates so that a differential pressure (Pd - Ps) between a discharge pressure (Pd) of a discharge chamber (114) and a suction pressure (Ps) of a suction chamber (110) is kept at a preset differential pressure according to a value of current supplied to the solenoid (3), and a bleed hole (96) that is provided in the body (5) separately from the valve hole (18), that has a leak passage (98) whose diameter smaller than that of the valve hole (18), and that permits refrigerant to be leaked from a discharge chamber communication port (10) to a crankcase communication port (12) even while a valve section is closed. The bleed hole (96) is formed such that $Y > 2.145X + 0.24$ is satisfied, where X represents the diameter of the leak passage (98) and Y represents a diameter of a release passage (119).

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