

ABSTRACT

COMPRESSOR PISTON HEAD WITH NOISE-ATTENUATING RECESS

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The present invention reduces the metallic impact of the suction valve reed to the piston head, and hence the noise, by providing a recess on top of the piston head as a way of buffering the impact. The recess is located such that it can receive the tongue of the valve reed when the tongue overshoots towards the piston head. Because the tongue approaches the recess in a slanted plane relative to the top, the recess should preferably have a sloping bottom to match the angle of the tongue as it enters the recess. The depth of the recess is preferably approximately equal to the amount of deflection of the tongue. Generally a depth of about 1 to 3 mm at the deepest end is sufficient.

FIG. 1

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