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Alyokhin S.A, Animov Yu.A., Ovcharov E.N. The research on extension of a range of operation of the vaned diffuser of the high-pressure centrifugal compressor without stalling // Internal combustion engines. -2006. - 1. - P. 81-86.

It is shown, that in high-pressure single-stage centrifugal compressors (> 3.0) with a radial-blade impeller

($_2$ = 900) the increase of a range of a steady operation and efficiency is attained by provision of the ratio of axial dimensions of the vaned diffuser and the impeller ($_3$ / $_2$) less than 0,9. Table 1. II. 2. Bibliogr. 10