

Title (en)
INLET CONNECTING PIECE FOR AN AXIAL-FLOW COMPRESSOR

Title (de)
EINTRITTSSTUTZEN FÜR EINEN AXIALVERDICHTER

Title (fr)
MANCHON D'ADMISSION POUR COMPRESSEUR AXIAL

Publication
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Application
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Abstract (en)
[origin: WO2009100741A1] The invention relates to an inlet connecting piece for an axial-flow compressor, especially a turbocompressor, comprising an inlet housing (1) containing a bearing housing (2) comprising a bearing (3), especially a radial and/or axial bearing, for a rotor. The bearing housing (2) is connected to the inlet housing (1) via an inlet strut (4) which is connected to the inlet housing in a front cross-section. The central bearing point of the bearing (3) is located in the flow direction of a fluid to be compressed, axially behind the centroid of the front cross-section, at least by 0.1 times the chord length of the front cross-section, especially at least by 0.15 times same, especially at least by 0.2 times same, and especially at least by 0.25 times same. Additionally or alternatively, a fluid passage (5, 6) is formed in the inlet strut, said fluid passage (5, 6) forming an acute angle with a normal plane in relation to the longitudinal axis of the inlet connecting piece, at least in sections.

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