

Title (en)
SINGLE-SHAFT TURBO COMPRESSOR

Title (de)
EINWELLENTURBOVERDICHTER

Title (fr)
TURBOCOMPRESSEUR À UN SEUL ARBRE

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Application
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Abstract (en)
[origin: WO2018050404A1] The invention relates to a single-shaft turbo compressor (STC) comprising a rotor (R) extending along an axis (X), an outer housing (OC), static flow fittings (SFE), bearings (BG) for supporting the rotor (R), and at least one first shaft seal (SHS1), wherein the rotor (R) has a shaft (SH) and an impeller (IMP) arranged on the shaft (SH), wherein the static flow fittings (SFE) have supply elements (INE), intermediate elements (IBE) and discharge elements (EXE), and wherein the outer housing (OC) has a casing part (BC) that is open at the end on both sides. According to the invention, a first cover (CV1) of the outer housing (OC) is connected to a first shaft seal (SHS1), wherein supply lines (SPL) and discharge lines (EXL) of the first shaft seal (SHS1) are provided extending through the first cover (CV1) into a wall thickness of the casing part (BC) adjacent to the first cover (CV1).

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