

Abstract

VACUUM PUMP WITH LONGITUDIAL AND ANNULAR SEALS

The present invention relates to a multi-stage vacuum pump comprising: first and second half-shell stator components (102). (104) defining a plurality of pumping chambers (6) to (116) and for assembly together along respective longitudinally extending faces (118), (20); first and second end stator components (122), (124) for assembly at respective longitudinal end faces (126), (128) of the first and second half-shell stator components; longitudinal seals (12) for sealing between the first and second half-shell stator components (10) when assembled together at the longitudinally extending faces; and annular seals (146) for sealing between the first and second end stator components and the first and second half-shell stator components when assembled; wherein the longitudinal seals have end portions (24) which abut against the annular seals for sealing therebetween and the first and second half-shell stator components have formations (26) for resisting movement of the end (1) portions away from the annular seals when the end portions are compressed between the first and second half-shell stator components.

Figure 5.