

Abstract

DIAPHRAGM BELLOWS

The diaphragm bellows includes a plurality of diaphragms (1) with outer edges (3) and inner edges (2), wherein diaphragms (1) that follow one another in the direction of the central longitudinal axis (5) of the diaphragm bellows are welded together alternately in the region of their inner edges (2) and in the region of their outer edges (3). A sliding-guidance device of the diaphragm bellows has at least two ring parts (10, 11). The at least two ring parts (10, 11) each extend through at most 180° in the circumferential direction about the longitudinal axis (5) of the diaphragm bellows and each have a guide portion (12) and a holding portion (13) protruding from the guide portion (12) in the direction of the longitudinal axis (5), the holding portion (13) projecting into an intermediate space (6) located between two adjacent diaphragms (1). The guide portion (12) extends radially outside the two adjacent diaphragms (1) between which the holding portion (13) projects, and has a guide face (16), directed away from the longitudinal axis (5) of the diaphragm bellows, for sliding guidance on the inner surface (15) of a tube (14) surrounding the diaphragm bellows at least along a part of its longitudinal extent.

(Figure 5)