

ABSTRACT

A TRAY VALVE FOR A TRAY COLUMN

The tray valve (1) for a tray column includes an opening (2) in a tray (10) for a vapour passage and a valve body (3) which is made to match the rim (20) of the tray opening. The valve body consists of a top plate (4) and vertically downwardly directed guide limbs (5) arranged at the edge of this plate. The guide limbs have barbs (6) for the anchoring of the valve body at the rim of the opening. The plate edge lies on one plane, the plate plane, optionally with the exception of dimple-like, downwardly directed raised portions (40). The outer surfaces of the guide limbs each contain a stroke region (50) which is perpendicular to the plate plane. The material and shape for the valve body are selected with respect to its insertion into the tray opening (2) such that a resilient deformation, and optionally partly plastic deformation, of the valve body results on insertion which is largely restricted to the top plate in the form of an upward arching. Any deformation at the inserted valve body can be reversed, with the exception of a slight residual deformation, by an application of force onto the top plate. Weakened portions, for example in the form of grooves, slits or bores, can be provided in the top plate and facilitate a forming of the upward arching.

The barbs are advantageously arranged at two guide limbs standing diametrically opposed to one another. Each barb is made like a tab with a) a straight upper edge (610) or a planar upper side surface (61) which lies parallel to the plate plane and b) an outer side surface (62) with a projecting incline.

(Fig. 1)