

Mixing element for a flange transition in a pipeline

Abstract of disclosure

The mixing element (2) is provided for a flange transition (10) in a pipeline (1) and can be mounted between two flanges (11, 12) of the pipeline. It comprises a mixing-active structure (25) which is formed by one or two vanes (25a, 25b) within a ring (20). Two mutually inclined planes (21, 22) can be defined, with the one vane being arranged on the one plane or the two vanes being arranged on the two planes. The two planes intersect at a crossing axis (23). Closed sub-surfaces (52, 51') as well as open pieces of surface (51, 520, 521, 522) of the vanes form a surface pattern (5) which is formed asymmetrically with respect to the crossing axis. Through the asymmetric shape a fluid (9) which flows through the pipeline can be deflected in such a manner that partial flows (9b) are deflected from one pipe half through sub-surfaces of the one plane (21) into the other pipe half and encounter there largely non deflected partial flows, with this also holding vice versa with respect to the other plane (22) if on the latter there is a second vane (25b) having structure elements.

(Figs. 1 and 5)