

Abstract**Induction Connection Sleeve**

The invention relates to an induction connection sleeve (1) for connecting by fusing plastic pipes (2, 3). The induction connection sleeve (1) comprises a sleeve body (9) having a first (5) and a second receptacle portion (7) for receiving first (4) and second connection portions (6) of the plastic pipes (2, 3) to be connected, a first induction heating element (12), and a second induction heating element (13). The sleeve body (9) comprises an internal part (10), said internal part (10) configuring the two receptacle portions (5, 7), and the induction heating elements (12, 13) being received on said internal part (10) in such a manner that the recesses (16) of the induction heating elements (12) are penetrated by the internal part (10), said recesses (16) on the external shell surfaces (14, 15) thereof in the region of the induction heating elements (12, 13) terminating flush with the internal part (10). The sleeve body (9) furthermore comprises an external part (11) which is connected in a materially integral manner to the internal part (10) and surrounds the external shell surfaces (14, 15) of the induction heating elements (12, 13).

Fig. 5