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Heated Needle Shut-off Nozzle

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Abstract

The heated needle shut-off nozzle for injection moulding machines, for injection moulds or for hot-runner systems has two portions (12, 14) of which the portion (12) is provided with a central rod-shaped heater element (28) forming with the inner wall of the portion (12) an annular flow channel for the melt introduced through a nozzle (18) of the machine into the portion (12). On the outer diameter of the portion (12) there is a sleeve guided in movable and sealing fashion, with the sleeve sealingly guided by its outer diameter in the second portion (14). At its free outwards pointing end, the sleeve is coupled to drive means and, at its end pointing into the flow channel of the portion (14), to a shut-off needle (24). When the sleeve moves in the direction of the arrow (26), the nozzle opening at the end (20) of the portion (14) is closed by the needle (24).

(Figure 2)