

Nozzle for medical parts with special shapes

In injection molding applications of special shaped parts having longer lengths proportionally to the diameter, it is difficult to avoid movements of the mould core, which determines consequent wall thickness differences. The core can move sideways in consequence of a non homogeneous filling, which creates a radial strength even if the geometry of the molding part allows to have an injection point coinciding with its symmetry axis. To position the injection points near the tube open side, determines lower movements of the core. The new nozzle developed by Thermoplay, allows to eliminate the traditional "tunnel" sprues,

usually used in these applications. Injection is direct in the cylindrical cavity wall. The nozzle structure allows easy machining of the injection system housing in the mould. Furthermore the nozzle is provided with double plastic sealing ring. The thermal profile of the nozzle body and the tip insulation from the forming matrix, allows using process parameters aligned with the ones suggested by the plastic material manufacturers. Finally, thanks to the lateral injection, the ex-

traction operation allows to have a minimal injection point free from imperfections.



(Picture: THERMOPLAY S.p.A, I-Pont St. Martin)