

## SCREWED TIPS

Following demands by customers, who require more flexibility and easier application in mould hot runner systems, Thermoplay has completely renewed its range of D nozzles. The nozzle tip assembly, previously part of the nozzle body, is now screwed into the core. Besides facilitating maintenance operations, this system also provides savings on spare parts. The first types of D nozzles available with the screwed tip are 1-1B-3B. Type 1B nozzles, with extended tip, are those most frequently used for internal injection at particularly critical points, such as slender caps and containers, or where it is necessary to keep the heated part of the nozzle as far away as possible from the part surface, to avoid marks and unsightly blemishes. This type of tip is ideal for applications in situations with multiple mould cavities and with fast cycle times. The new concept for type 3B is particularly interesting, with an extended gate-system tip, suitable for injection-moulding parts for which appearance is an important consideration, or for sequential control systems. It can be used for the optimal regulation of material flow in special applications such as tubs and thin-walled containers, which cannot be injected externally due to the presence of the label. Furthermore, gate system nozzles leave a very clean gate so that, as well as remaining almost invisible, it is free of imperfections and residual material that could contaminate the product in the container. The needle centring system on the type 3B has been brought to a high level of perfection: the needle automatically centres at the nozzle tip, ensuring perfect concentricity with the mould cavity onto which the needle closes. All the tip types are constructed using a special sintered steel, which has an optimal heat conductivity, and makes them tougher and more resistant to wear. As a result, they are suitable for all types of thermoplastic materials. Also, the channel diameter inside the nozzle core has been increased, to improve flow rate and facilitate injection for large sized parts.

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