

NOZZLES & CONTROLLERS

Innovations introduced by Thermoplay for injection systems include a new nozzle for multi-cavity moulds used for manufacturing tubular-shaped parts, which contributes to the elimination of traditional "tunnel" sprues normally used in these applications. Injection is direct in the annular cavity wall. The nozzle structure allows easy machining of the injection system housing in the mould. In addition the nozzle is provided with a double sealing ring preventing material leakage. The thermal profile of the nozzle body and the isolation of the tip from the forming matrix make it possible to use process parameters aligned with those suggested by plastics manufacturers. The extraction operation helps create a defect free injection point thanks to the lateral injection. Another innovative injection system envisages that the nozzle, with or without the shut-off group, can be mounted at different inclinations and assembled to the manifold ensuring perfect perpendicularity to the injection platen. An innovative system of joints that distributes expansion inside the manifold enables the use of nozzles without minimum length constraints depending on distance from the centring element. The system is supplied prewired in various configurations based on specific needs and equipped with conditioning and electrical circuit, and pneumatic/hydraulic system, simplifying handling and installation of the system in the mould. Thermoplay also introduces a new sequential controller designed to optimize the molding process in critical applications. Each shut-off valve is detected and controlled by the system, so the end product is free of welding lines, thus meeting the most strict quality standards. Technical characteristics include: sequential control of pneumatic and hydraulic shut-off valve systems, automatic and manual test operation for function testing of each valve, maximum configuration 16 valves, mobile highresolution touch-screen unit and shock-proof case, temperature control of conditioning circuits.

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