Application: Diabetes Device

Component: Needless Injector -- Complete Assembly

Design Requirements:
Provide the complete assembly of 39 components for improved quality while streamlining the projects oversight responsibility. Eliminate the customer's management of multiple vendors supplying individual components.

Design Approach:
Minnesota Rubber and Plastics provided single source responsibility for manufacturing the needless injection device. This included mold design, component molding, part machining, component sourcing, assembly, testing and packaging in certified clean room facilities.

Related Benefits:
Minnesota Rubber and Plastics has over six decades of experience manufacturing challenging medical device components and assemblies. This includes working with and solving the material relationship between elastomers, plastics and metal components in completed assemblies. The company understands the many variables that have a profound effect on a product assembly's performance including friction, seal function, component lubricity, component surface finish and geometry.

Minnesota Rubber and Plastics knows how to deal with these complex component relationships and the very high standards of the medical device industry. The company operates an ISO 13485:2003 certified quality management system and manufactures many medical device components and assemblies with a special emphasis on sealing devices in Class 10,000 and Class 100,000 clean rooms. This experience, plus its unique ability to offer both rubber and plastic combination components, results in greater engineering design and production efficiencies. This results in reduced development time, reduced costs and decreased time to market.