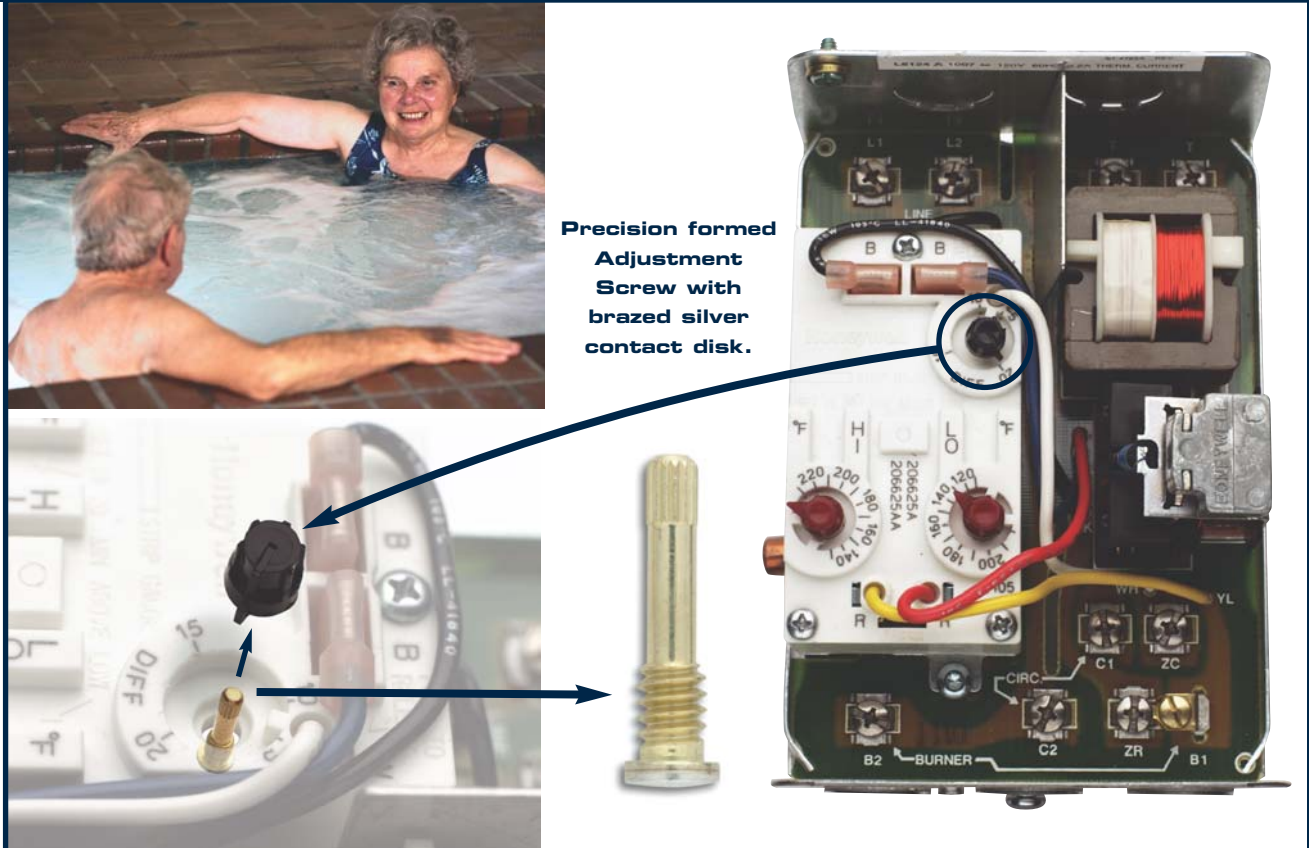


APPLICATION REPORT



DERINGER-NEY INC.

Deringer-Ney Develops Lower-Cost, Higher Performance Component for Honeywell Aquastat™



Deringer-Ney has developed a lower-cost, higher performing Adjustment Screw for Honeywell's Aquastat™ family of products for controlling water temperature. The Adjustment Screws utilizes Deringer-Ney's MICROMfg™ process to produce the parts at a much lower cost. Deringer-Ney also produces the silver contact disk and brazes it to the end of the part to provide the entire assembly to Honeywell.

The Adjustment Screw was initially designed as a screw-machined part. Screw machining typically requires lead and other additives in the metal to facilitate machining. In the original part, the lead in the screw-machined material reduced the bond of the brazed metal contact when compared to this new process. The MICROMfg cold-forming process does not require lead and other metal additives and actually work hardens and improves the durability of the material.

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Deringer-Ney's MICROmfg process produces parts at a significantly higher rate than screw machining, which greatly reduced the part cost. Deringer-Ney also helped to consolidate the number of suppliers to produce the component by producing the screw, the contact disk and performing the brazing operation.

Honeywell of Golden Valley, Minnesota produces a wide range of Aquastats for controlling water temperature in residential boilers, water heaters, spas and other hydronic applications. These immersion-type controllers combine high limit protection with low limit and circulator control in forced hydronic heating systems.

ABOUT DERINGER-NEY

Deringer-Ney is a vertically integrated manufacturer of High Performance Alloys, Precision Metal Components, Precision Insert Molded Components and Part Assemblies. Typical products are Electrical Contacts & Rivets, Ultra-Small Metal and Plastic Components, Screw Machine Parts, Fine Wire and Films. Capabilities include Custom Alloy Development, Product Design and Development, Prototypes, Tooling Design and Build, Part PPAP, Fully Integrated Manufacturing and Project Management. Manufacturing processes include stamping, cold forming, machining, multi-slide forming, brazing, welding and insert molding. The markets we serve include Automotive, Electronics, Appliance, Medical and Industrial applications. Deringer-Ney has sales representatives in North America, Europe and Asia. Deringer-Ney has four manufacturing locations - all are registered to ISO 9000 and the domestic facilities are registered to QS-9000.

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