



## For Medical Equipment OEMs: World-Class Peristaltic Pump Design, Engineering & Manufacturing Solutions

### Challenge:

Today's leading medical device manufacturers often demand more than off-the-shelf flow control, fluid handling and transfer equipment. To meet the technical, performance and regulatory requirements of their new designs, custom solutions are often needed – custom pumps, custom enclosures, custom controls, and more. Rather than rely on merely an OEM pump supplier, manufacturers often need a knowledgeable and experienced solutions provider to partner with them throughout a product's development cycle.

### Solution:

Our world-class design engineers, R&D and production facilities can develop a flow control solution that integrates perfectly with your equipment. Thermo Scientific has decades of experience teaming with medical device manufacturers throughout entire product development cycles – often including custom engineering, prototype and concept development. We also continuously evaluate and review materials, manufacturing methods and techniques, in order to best satisfy our customers' technical and commercial needs.

### Benefits:

Our high performance, highly innovative peristaltic pumping systems are key components in the products of a significant number of medical equipment OEMs worldwide, each providing the specialized fluid handling solution to best match our customers' exact specifications. As a veteran solutions provider with ISO 13485 certification, we can efficiently work with you throughout a product's development cycle. So when your product is completed, our components are already fully documented for rapid UL listing and/or CE approval.

## OEM SOLUTIONS

### OEM TEAM PROVIDES CUSTOMER-SPECIFIC SOLUTIONS

Here are some examples of where we've created custom medical equipment OEM solutions that provide tangible benefits, optimum efficiencies and performance for our customers.

- When **Spectrum Laboratories** needed a precision pump system and pressure monitor to market with their filtration and bioprocessing products, our project management and engineering experience ensured the delivery of an in-spec, private label pump system and custom pressure monitor in less than three months.

- **Angio Dynamics** needed to upgrade the pump system used with its R.F. Ablation device and came to us for answers. We developed a custom medical pump system to fulfill the customer's exacting requirements and met all necessary certifications.

- Medical technology provider **Gambro BCT** quickly needed a custom pump head and drive to serve its proprietary blood concentrate technology. The head was customized to accept Gambro's special-sized tubing and the drive was reconfigured to dispense a precise level of fluid through this tubing at the press of a button. We met the challenge, engineering the solution and providing it to Gambro in less than six months.

- For its home dialysis filtration unit, **Aksys Ltd** changed out its existing pump with our OEM pump using Masterflex® StayPure tubing. The increase in flow stability resulting from this change made it so the unit's flowmeter was no longer necessary, reducing production costs and allowing the unit to reach higher operating pressures than it had with normal peristaltic tubing.

- When **Boston Scientific** needed to find a way to cool the electrotip of its RF catheter in order to prevent blood coagulation on the tip during ablation therapy, it came to us. Our OEM solutions team quickly developed a medical recirculating cooling pump that fit the need perfectly and met all necessary certifications.

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Our critical understanding of advanced medical equipment fluid handling and flow control dynamics comes from decades of firsthand experiences.



## CUSTOM SOLUTIONS FOR CUSTOM PRODUCTS

### Our special expertise and world-class pumps play a critical role in medical equipment development

As today's medical devices become increasingly sophisticated and complex, often times a more complex and demanding fluid handling regime is required. Here, our OEM peristaltic pump solutions are the answer. We serve as an important problem-solving resource for our OEM customers – identifying, defining and developing the solutions you need, and providing you with a number of viable, strategic options.

Some custom medical device OEM designs demand very high operating pressure capabilities or no pulsation, others require special types of controls or enclosures. Often times, OEMs prefer to outsource additional assemblies to us in addition to our custom pumping solutions.

We are known worldwide as a leading manufacturer of peristaltic pump technology; as the manufacturer of the highly regarded Masterflex peristaltic pump line; and as a world-class innovator in the engi-

neering, design, manufacturing and distribution of an extensive line of fluid handling and flow control products. For our OEM customers, we bring our entire design, engineering and manufacturing expertise to bear to best meet your ever-evolving needs.

#### SIMPLY THE BEST

Every series of peristaltic pumps we offer are available for OEM use, providing flow rates from less than a teardrop to hundreds of gallons per minute, and an accuracy rate better than 1 percent.

But whether its a production pump you need or a custom-designed pump solution, you can be assured of a precise, highly reliable flow control system for long-term operation, and one that operates seamlessly with your product. That's why hundreds of OEMs have discovered the advantages of specifying Thermo Scientific pumps for their products.

#### DESIGN APPLICATIONS FOR MEETING THESE APPROVALS

UL, cUL, Medical CE, ISO 13485, ISO 9001:2003