



ENGINEERED SOLUTIONS

CREATIVE • EXPERIENCED • PROVEN • RESPONSIVE



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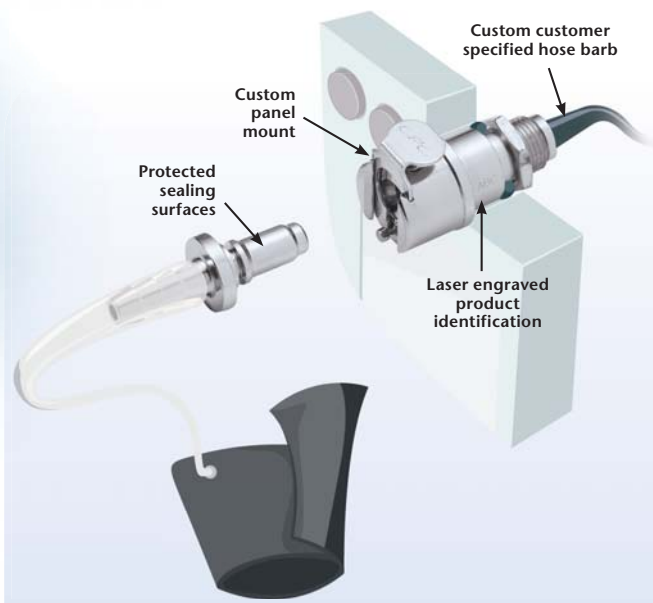
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NON-SPILL, SEAM-WELD COUPLING WITH RFID

Wide Format Printer

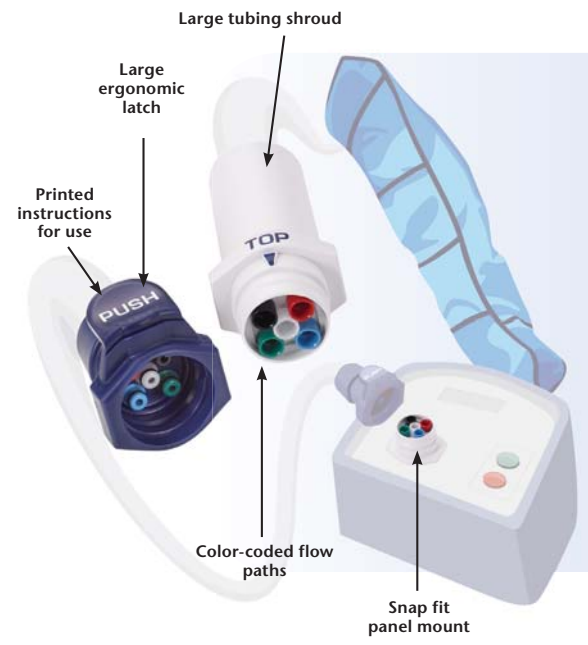
- **CHALLENGE:** Messy ink bottle replacement and the use of counterfeit ink reduced equipment usability.
- **SOLUTION:** A seam-weld termination for flexible ink bags and an RFID-enabled coupling to track ink usage.
- **BENEFITS:** Users could connect the new, cost-effective ink pouches easily with less mess. The addition of RFID for the identification of both ink color and ink manufacturer ensured that only the correct ink was being connected, thereby protecting the equipment, reducing service calls and maintaining sales of the manufacturer's ink.



CUSTOM METAL PANEL MOUNT WITH LASER ENGRAVING

Emergency Response Monitor and Defibrillator System

- **CHALLENGE:** Rough handling of the equipment in the field caused damage to the Non-Invasive Blood Pressure (NIBP) connectors, creating leaks and expensive service calls.
- **SOLUTION:** A custom coupling insert with a small flange and an elongated insert nose that protects the part's sealing surface, even during fast-paced emergency use. The coupling body was designed with a custom locking feature to maintain alignment with the equipment panel. An application specific thread and seal as well as a custom hose barb ensure secure installation. Lastly, the coupling bodies were laser marked with a product identifier to make changeovers in the field easy.
- **BENEFITS:** Minimized expensive service calls with one convenient, leak-free connector solution.



HOME HEALTHCARE MULTI-LINE CONNECTOR

Specialized Deep Vein Thrombosis (DVT) Garment

- **CHALLENGE:** Multiple connections on the garment were difficult for users to connect correctly, jeopardizing effective treatment.
- **SOLUTION:** An integrated connector designed to make proper connection obvious: color-coded tubing line, large print instructions and large button sizes for users with limited manual dexterity.
- **BENEFITS:** Eliminated tubing misconnections, improving device performance and patient therapy outcome. The new design was also an improvement on the OEM's production and quality thereby lowering overall connector cost.

AIR/FLUID/ELECTRONIC UMBILICAL TUBE SET

Medical Support Surface

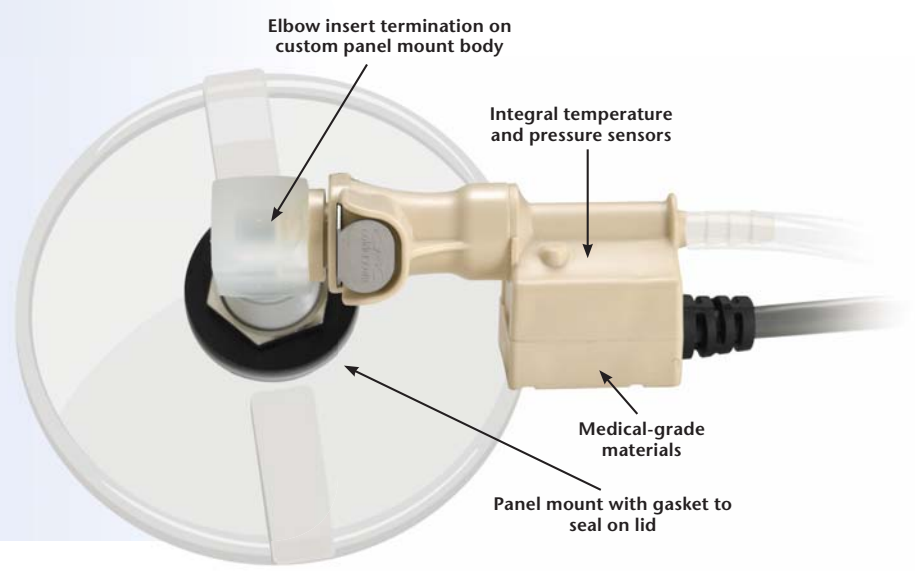
- **CHALLENGE:** Enable simultaneous connection of multiple air and electrical lines between a controller and remote device.
- **SOLUTION:** An integral hose assembly with an easy-to-connect interface and an umbilical that could be easily wiped clean.
- **BENEFITS:** The complete, ready-to-use interface assembly reduced the OEM's total cost per part, eliminated quality sensitive components and improved equipment usability.



PRESSURE AND TEMPERATURE SENSING COUPLING

Organ Transport Device

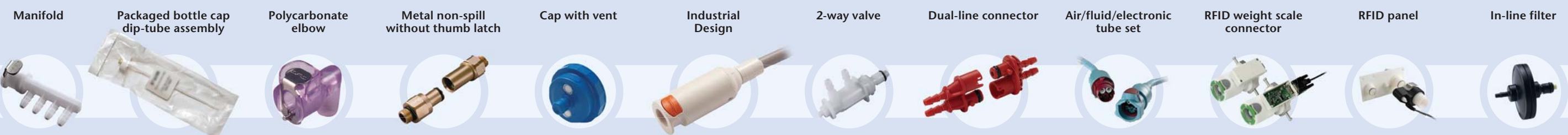
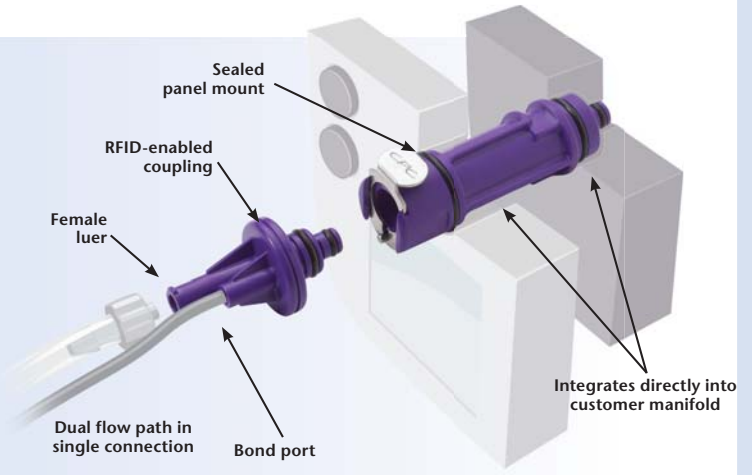
- **CHALLENGE:** Standalone sensors were too large for the equipment's compact profile.
- **SOLUTION:** Integrated sensors with standard PLC12 couplings. The component combines both temperature and pressure sensors into the flow path to monitor system pressure and fluid temperature.
- **BENEFITS:** Integrated sensing capability without an increase in equipment size. Using standard coupling components created a fast path to production and minimized the OEM's capital investment.



DUAL FLOW PATH CONNECTOR WITH RFID

Surgical Reprocessing Equipment

- **CHALLENGE:** Prevent disposable surgical instruments from being reprocessed and reused.
- **SOLUTION:** RFID-enabled connector for automatic equipment configuration. IdentiQuik® Smart Technology enables the device to read critical information embedded directly in the connector and reset its configuration as needed. The device can ensure that a new surgical tool is used for each surgery or configure itself for various procedures based on what type of tool is connected.
- **BENEFITS:** Reduced manufacturer liability due to the reuse of surgical tools and decreased set up time for device configuration.



ENGINEERED SOLUTIONS PROCESS

Connector solutions from Colder add value to your product by making your fluid and air connections easy to use and more reliable, increasing your product's modularity and serviceability and providing an overall cleaner, faster, safer and smarter way to make a connection. If you can't find the perfect solution from one of our thousands of standard products or you'd like to simply off-load the connector portion of your project to allow you to focus on your core technologies, Colder Engineered Solutions can help.

1



CONTACT YOUR COLDER SALES MANAGER OR YOUR LOCAL DISTRIBUTOR

A complete listing can be found at www.colder.com/contact

2



SUBMIT AN APPLICATION PROPOSAL

Outline the specific performance, manufacturing, price and timeline requirements of your project

3



APPLICATION PROPOSAL REVIEW

The Engineered Solutions team will review the project requirements to quickly determine how to provide you the optimal solution

4



COLLABORATIVE DEVELOPMENT

You will be assigned an engineer who will work closely with you through the development process. Our engineer will work directly with your engineer, and the project development will be refined, finalized, quoted and moved into production.

CONSIDER A CUSTOM-DESIGNED CONNECTOR WHEN:

- ▶ A quick disconnect will add value to your product, make it easier to use and more reliable
- ▶ Your specifications cannot be met by an existing standard Colder product
- ▶ Unique requirements, budgets or timing warrant your designer's collaboration with Colder's Engineered Solutions Team



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WARNING: Due to the wide variety of possible fluid media and operating conditions, unintended consequences may result from the use of this product, all of which are beyond the control of Colder. It is the user's responsibility to carefully determine and test for compatibility for use with their application. All such risks shall be assumed by the buyer.

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