Industry: Medical Device

Product: Multi-Lumen Catheters

Problem/Goal: A medical device company manufactures a variety of catheter configurations for which they require high-resolution, accurate repeatable and reliable leak and flow test results.

Testing must be performed on each lumen of the catheter and the results reported by lumen.

The test instrument must also have the flexibility to create separate pass/fail criteria for various lumens, and be able to accommodate both male or female luer inputs and straight tube input.

Resolution: For this customer, TME designed a unique instrument that met all the criteria.

This specific Seven Port Sequential TME Solution™ is a customized instrument that may be programmed to test from one to seven ports operating in a sequential process. This enables the instrument to test up to seven lumens on a single catheter. Each channel may be selected to run either leak alone, flow alone or flow followed by leak tests. When the flow tests are selected all flow tests are performed prior to running any leak tests.

Comments: The user must set all leak and flow test pressure and time parameters to be the same for all ports in use, but decay limits and flow limit parameters of each port may be customized by the user to create separate pass/fail criteria for various lumens.

Used with a Sealing Fixture to accept the distal end of the catheter, this customer’s Solution is configured to accept up to four (4) female or male luer proximal inputs and up to three (3) straight tubes. Test data is presented in a listed display where decay pressure and flow results are shown.

Sealing fixtures: TME has a variety of sealing fixtures available including fixtures configured for ballon guided catheters.

TME Solution: This instrument can be configured with any number of ports up to eight in any combination of luer and straight ports. It can be programed with up to 100 individual programs for fast operator response to manufacturing line changes. Test data is viewed on the instrument screen and can be printed out via either the on-board parallel or serial ports.

For more information: Click this link: TME Solution or enter this URL in your browser: www.tmelectronics.com/leak-and-leak-flow-testers/tme-solutions.cfm