

## MET News – March 2013

### Team up with MET - Excellence in Medical Devices

#### New Heart Pump

The testing requirements for vascular products are evolving as products and hazards become better understood. There has been recent FDA guidance on *particle release and non clinical engineering tests for PCTA devices*. Engineers in the MET laboratory have qualified a new heart pump to increase our sophistication in these tests. The Harvard Heart Pump can deliver up to 100 beats per minute, the systolic / diastolic ratio is variable and we can pump up to 10 litres per minute. This adaptable piece of equipment gives us both flexibility and accuracy in the control of flows and pressure in our simulated vascular circuits. [Read more.](#)



#### New Mark 10 Flagship Gauge



The Series 7 digital force gauges are designed with a number of sophisticated features for the most demanding tension and compression measurement applications, up to 500 lbF (2500 N). The gauges feature  $\pm 0.1\%$  accuracy and a blazingly fast sampling rate of 14,000 Hz, producing reliable results for extremely quick-action tests. The gauges also feature programmable footswitch sequencing, break detection, and 1st / 2nd peak detection. [Read more.](#)

#### Testing of Infusion Equipment

There are a variety of components used in parenteral administration. The test requirements for this equipment are detailed in ISO 8536 *Infusion equipment for medical use*, which is closely related to ISO 8871 *Elastomeric parts for parenterals and for devices for pharmaceutical use*.



Comprehensive testing to both of these standards and for luer connectors (ISO 594) is available from MET. We can confirm the performance of your: infusion sets, closures, lines, valves and taps. Chemical testing associated with these products is delivered through a variety of USP monographs and ISO 15747 *Plastic containers for intravenous injections*.

#### Don't Forget Our Accelerated Ageing Calculator

The MET web site now includes an accelerated ageing period calculator. You can input your desired shelf life and the calculator reports the number of days ageing required at your chosen temperature. The Real Time Equivalent is calculated as described in ASTM F1980 *Standard Guide for Accelerated Ageing of Sterile Barrier Systems for Medical Devices*. Try it for yourself: [Real Time Equivalent period calculator for Accelerated Ageing](#)

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