

iTank™ Inflator and Ballistics Test Tanks

Test tanks for firing inflators and ballistics



- ◆ Submarine style door opens quickly and safely – No need for tools
- ◆ Water cooling jacket for fast cycle times
- ◆ Mobile stand with ± 90 degree tank rotation
- ◆ Available as 28.3L (1 cu. ft.), 60L and other sizes
- ◆ Fully stainless steel construction
- ◆ Integrates with Microsys SureFire™ system for firing and data acquisition

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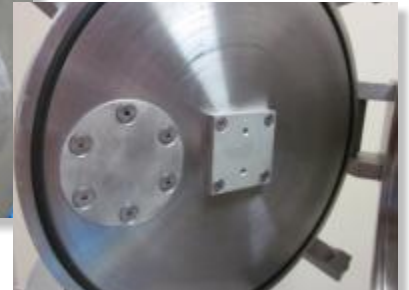
by Microsys Technologies Inc.

Microsys iTank

Microsys inflator and ballistics test tanks lead the industry in features and productivity. The Microsys iTank includes a submarine style door for easy access without the need for power tools. A water cooling jacket allows for very fast test cycle times by rapidly reducing the tank wall temperature to ambient.



Connector detent plate



Inflator mounting plate and connector detent plate

Sizes

Standard Sizes

- ◆ 28.3 liter (1 cubic foot)
- ◆ 60 liter

Other Sizes

- ◆ 10 liter
- ◆ 60 liter Curtain Airbag Inflator
- ◆ 100 liter
- ◆ 146 liter
- ◆ 150 liter

Specifications

- ◆ Tank volume accuracy: $\pm 1.5\%$ of nominal volume
- ◆ Pressure rating: 200 psi and hydro-tested at 130% of rated pressure. ASME certification
- ◆ Submarine style door latch system
- ◆ Tank constructed entirely of #304 stainless steel with a polished interior
- ◆ Water-cooling jacket made from dimpled stainless steel (pictured)
- ◆ 4 or 5 ports for transducers, ventilation and drain, available as metric, NPT or a combination
- ◆ Mounting plate for inflator mounting brackets (pictured)
- ◆ Removable connector detent plate for squib cables (pictured)
- ◆ Optional mobile tank base allows tank to be rotated from -90° to $+90^\circ$ by means of a multi-turn gear reduction hand-wheel.
- ◆ Optional automatic ventilation valve
- ◆ Optional pressure relief burst disk



SureFire Integration

- ◆ Combine iTank with a Microsys SureFire™ system for a fully integrated ballistics test solution
- ◆ Fire the inflator with adjustable squib pulse controls. Pre & post test squib resistance measurements
- ◆ High-speed acquisition of pressure sensors, squib voltage & current data
- ◆ Automatic pass/fail analysis and report generation

Since 2012 Concept & Microsys combined forces inside the "Concept Tech Group" to supply the automotive industry from its global sales & support network. Our family of safety testing products & services includes airbag deployment, cold gas inflation, impactor launch, low speed crash devices and much more.....



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