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## NEWS RELEASE

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### **Lightnin SR Sanitary Right Angle Drive Mixers Offer Broad Solutions For cGMP Applications In Pharmaceuticals, Biotech, Cosmetics and Food**

ROCHESTER, NY (2003) –Lightnin’s expanded line of SR Sanitary Right Angle Drive mixers, designed to meet the most stringent requirements for cGMP facilities.

“A member of the Lightnin SanStar™ family, these versatile, compact right angle mixers feature a comprehensive array of mixing solutions for pharmaceutical, biological, cosmetic and food processing applications using tanks ranging from 100 to 30,000 liters,” states Paul Kubera, Manager, Application/Market Development for Lightnin. “Each SR mixer has full CIP/SIP features, and can be customized with a variety of impeller and drive configurations to match a wide range of performance and process requirements.”

The SR Sanitary Right Angle mixers are commonly used for media suspension and storage, buffer solutions, plasma extraction, fermentation (including bacteria and cell culture) and general media processing applications. Also, the mixers are designed for installations where space and headroom is limited, and where vessel portability is critical to the processing environment.

To help pharmaceutical, biotechnology and specialty chemical manufacturers fulfill their cGMP (Good Manufacturing Practices) validation requirements, the mixers can be supplied with Lightnin’s Quality Assurance Documentation (QAD), Kubera stated.

Lightnin offers standardized “off-the-shelf” versions of the SR mixer that can be delivered with selected options features in as little as four weeks.

Other SanStar mixers include:

- **Lightnin SV/BP Mixers** feature a vertical, in-line design for closed tank, aseptic environments. They can accommodate vessels up to 30,000 liters and feature a small footprint for cramped installation geometries.
- **Lightnin MBI Bottom Mounted Magnetic Mixers** feature Lightnin’s patented Hyper-Flo™ bearing design for long life, even when the impeller operates “dry.” Effective in a variety of sanitary processing and storage applications -- plasma fractions, vaccines, injectables and media suspensions – in volumes up to 30,000 liters.
- **Lightnin SSP/SPG Mixers** are direct drive and gear drive clamp-on units designed to handle a variety of open tank mixing applications to cGMP standards.
- **Lightnin Series 45 InLiner Mixers** are helical plate static mixers for pipeline processing of any material that can be pumped, covering a wide variety of food, beverage, pharmaceutical and cosmetic applications.
- **Lightnin Washdown Clamp Mount Mixers** are ideal for sanitary mixing applications not requiring stainless steel housings. Gear-drive mixers in the family are used for large batch, low speed processing. Direct drive units are used for small batch, high shear applications.
- **Lightnin SealMaster Mixers** feature stainless steel surfaces, rugged gear-drive operation and NEMA 4 design for pharmaceutical and biotechnology applications in small vessels.
- **Lightnin BioMixers** address the need of sterilized biological and pharmaceutical mixing environments. Detachable mix head can be moved to other vessels. Control software enables the user to operate up to 32 mixers at one time.

For more information about SR mixers or any other Lightnin SanStar Mixer, contact a local LIGHTNIN Sales Representative. Visit Lightnin’s website at [www.lightninmixers.com](http://www.lightninmixers.com), or call 1-888-MIX-BEST (U.S. and Canada), 585-527-1623 (worldwide). *Lightnin is a division of SPX Process Equipment* ([www.spxprocessequipment.com](http://www.spxprocessequipment.com)).