

The Agitator

Agency Agreement

Mixtec - Western Engineering Ltd are very pleased to announce that they have entered into an agreement with Zeta GmbH of Austria to be their exclusive agent for the New Zealand market promoting their range of magnetic drive mixers.



Magnetic Drive Mixers

Magnetic drive mixers are for hygienic sealed vessels without the need for a tank penetration and sealing device. They are driven via a magnetic coupling with one half outside and one half inside the vessel.

They provide numerous benefits including:

Isolation & containment - nothing can get in and nothing can get out of the vessel.

Cleanability - generally easier to CIP than top entry mixers and no mechanical seal to worry about.

Low level mixing - bottom entry magnetic drive mixers can mix almost to the last drop in the vessel due to their low profile and low mounting position.

Ease of maintenance - no mechanical seal or gland packing to replace.

Applications

Pharmaceutical - magnetic drive mixers have been established in the pharmaceutical industry for many years due to the very high hygienic standards associated with the industry.

Dairy, Food and Beverage - cross-contamination and recalls are both issues that plague food and beverage suppliers, often the problem can be traced back to a step in the process where an open vessel was used. Magnetic drive mixers offer the opportunity to have fully sealed process tanks to eliminate a potential cause of contamination.

Limitations

Volume - magnetic drive mixers can only develop a certain amount of torque for a given size therefore the vessel volume, and correspondingly the torque, are limited, however, increases in the torque transmission capabilities of magnetic couplings see the maximum volume ever increasing. Currently Zeta offers bottom entry model BMRT up to 60,000 litres, model BMRF up to 30,000 litres and top entry model AMR with maximum torque transmission of 2,500 N.cm with development in progress to increase to 5,000 N.cm

Viscosity - for the same reason of limited torque transmission affecting the maximum volume which can be mixed there is a limit to how viscous the product can be, this is generally considered to be around 1,000 cPs however, improvements in torque transmission capabilities of magnetic couplings see this figure increasing into the future.



Zeta Bottom Mounted Magnetic Drive Mixer model BMRT



Zeta Top Mounted Magnetic Drive Mixer model AMR



Zeta Bottom Mounted Magnetic Drive Mixer with Shaft model BMRF

We have the expertise and experience of Zeta supporting us for magnetic drive mixers so if you would like to discuss possible applications or have a project requiring a magnetic drive mixer please contact us by replying to this email or phone 09-828-3706.



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