Mixers

Lightnin® Batch Mixers
Match a mixer to your specific application

– Mix materials with viscosities up to 10,000 cps

Air-powered mixers operate with air input into the ¾” (10 mm) NPT(F) inlet port on the needle valve. All air motors require 60 to 75 max psig of air pressure. One-quarter and ⅛-hp air motors require an air flow rate of 15 scfm.

The TENV electric mixers operate on 115 VAC, one-phase power TEFC and XPRF models operate on 208-230/460 VAC three-phase power and require power wiring to the motor.

A. High-Torque, Direct-Drive Mixers

High-torque mixers are available with either 20° offset tank clamps for off-center mixing or 2” (50.8 mm) NPT(M) bung adapters.

B. Small Batch, Direct-Drive Mixers

Use these versatile mixers for lab mixing or for scaling up pilot plant experiments. All models include fully adjustable tank-clamp to position mixer at any angle.

C. Heavy-Duty, Gear-Drive Mixers

These variable-speed, gear-drive mixers are ideal for mixing your high-viscosity materials or large batches of water-like fluids. All generate enough torque to mix highly viscous fluids.

D. Variable-Speed, Pressure Batch Mixers

These pressure batch mixers withstand up to 25 psi at ambient temperatures for closed-top tank applications. Once threaded or bolted to the drum or tank, the mixer prevents vapor loss, seals out dust and debris, protects motor from corrosive vapors, and eliminates contamination of batch solution from outside sources. Dry running, single lip seal is made of fluorocarbon polymer. All wetted parts are 316 stainless steel (SS).

A, C, and D include: 316 SS shaft, 316 SS A-310 impeller, and drive quill with set screw. “D” Models 50310-68 and -70 also have bung adapter and include a folding impeller.

B includes: 316 SS shaft, 316 SS A-310 impeller, and 316 SS collet-type chuck.

Sizing Guide

Use the sizing guide below to select the appropriate mixer for your application. Choose the viscosity closest to materials to be mixed. Then find the volume you will be mixing. Color corresponds to mixer catalog number. Sizing guide is for general-purpose mixing applications and has the following limits:
– Newtonian, thixotropic or pseudoplastic fluids ONLY
– Solids limited to 25% by weight of total batch weight
– Specific gravity of total batch limited to 1.25 (10.5 lb/gallon)

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