

FORUMIX™

ForuMix™ Multiphase Mixer —

Optimized Mixing + Smarter Valve Performance for Refinery Operations

Refinery operations demand equipment that boosts efficiency, minimizes variability, and enables precise process control upstream and downstream. The **ForuMix™ multiphase mixer** is purpose-built to deliver on all three.

Powered by **advanced, modulated inline mixing technology**, ForuMix improves crude-water mixing and separation while protecting and optimizing overall system performance.

Its compact, flexible, low-maintenance design delivers low pressure drop, reduced chemical and energy consumption, and a fast return on investment.

ForuMix delivers the industry's most advanced adjustable multiphase mixer for precise dual-fluid mixing.



What makes ForuMix™ unique?

The ForuMix internal mixing sphere delivers controlled, adjustable shear across the full flow path, using precisely positioned orifices to form uniform droplets that boost contact area and mass transfer.

Its balanced internal turbulence ensures thorough mixing with minimal pressure drop for stable, predictable refinery flow.

The adjustable sphere—manually or automatically rotated—lets operators fine-tune orifice openings to match changing crude qualities and flow rates while maintaining consistent mixing and steady downstream pressure.

Where ForuMix™ Delivers Value

ForuMix enhances any application requiring uniform mixing or increased interfacial surface area—boosting performance in absorption, extraction, and dispersion.

Crude Desalting & Dehydration

Delivers superior wash water utilization, maximizes salt transfer, reduces BS&W carryover, and improves separation efficiency.

Liquid–Liquid Mixing

Produces a stable, homogeneous blend for oil/oil, oil/water, and water/water streams at any stage of the process.

Chemical Injection

Improves chemical contact efficiency, reduces overdosing, and strengthens downstream processing—from emulsion breakers to inhibitors.

Multiphase Mixing

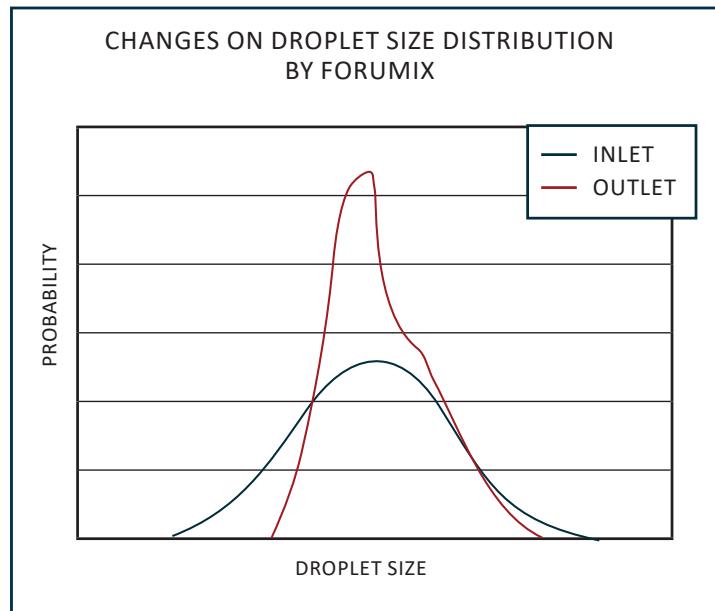
Ensures consistent oil, water, gas blending for accurate sampling, optimized gas injection, and enhanced produced water treatment.

ForuMix™ Benefits at a Glance

Unlock cleaner, more efficient refinery performance with the ForuMix multiphase mixer—engineered to deliver powerful mixing with lower operating costs.

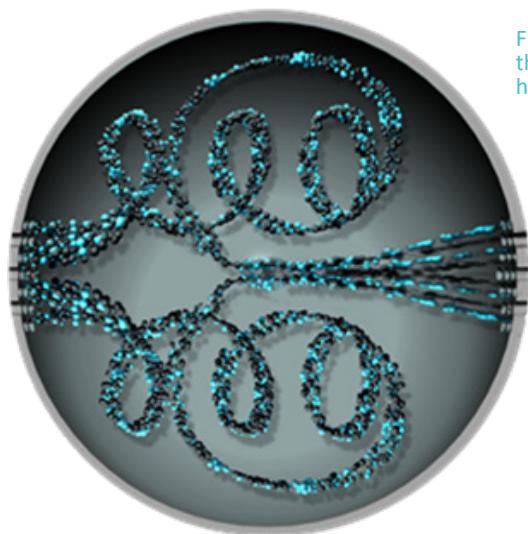
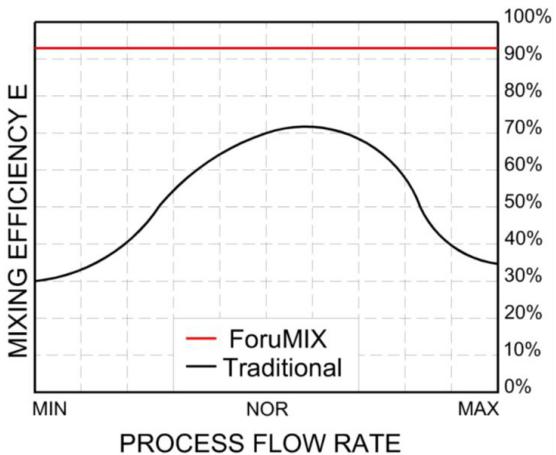
Key Advantages

- Adjustable mixing intensity for precise process control
- High efficiency mixing across the full turndown range
- Low emulsion formation for faster, cleaner separation
- 25–60% lower pressure drop than traditional mixers
- No dead zones—full cross section, uniform mixing
- Reduced chemical and water consumption
- Orientation free, compact installation
- Low installation cost + high ROI
- Minimal maintenance requirements



ForuMix technology utilizes the main process flow momentum to create turbulent eddies inside the internal mixing sphere. These eddies efficiently enhance the mixing process, creating evenly sized droplets with little power consumption.

Mixing Efficiency vs. Flowrate Graph



Flow path inside the ForuMix high-efficiency mixer.

Standard Features

- Carbon steel (A105N) body
- Stainless steel (A182 F316) internals
- Easytork® EVA actuator
- Sizes: 4"–36"
- Flow range: 20,000–400,000 BPD
- Pressure class: 150#–600#

Custom Options

- Sizes up to 42"
- Pressure class up to 4500#
- Wide material selection: stainless, Alloy 20, Alloy 990, duplex/super duplex, MONEL®, INCONEL®, INCOLOY®, nickel, titanium, HASTELLOY® B/C, zirconium

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