Western Engineering
we mix with the best

MIXTEC
FOR MIXING TECHNOLOGY

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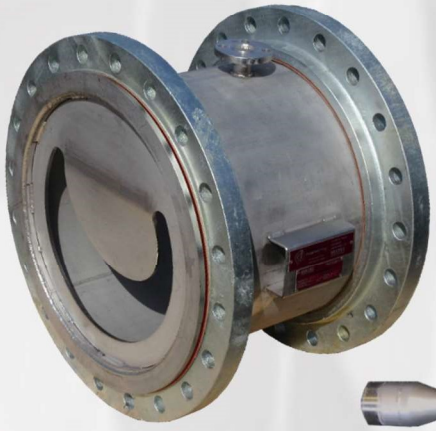
INSTAMIX STATIC MIXERS

Mixtec – Western Engineering manufacture Static Mixers for a variety of industries and applications in a range of sizes from 10mm NB through to 750mm NB and beyond.

Mixtec – Western Engineering are a 100% NZ owned and operated company that prides itself on quality and on-time delivery. We manufacture mixers in our Auckland factory under licence using technology supplied by Mixtec in South Africa, who are one of the world's leading manufacturers of mixers and agitators.

We custom design inline static mixers for each application using product densities, viscosities and flow rates to determine the optimum line size and agitation profile while keeping pressure drop to a minimum. The design of the Instamix stator plates has been developed by Mixtec using CFD and pipe line testing and validated by Curtin University in Perth to verify the coefficient of variation (CoV) and pressure drop. As such we can confidently meet the CoV and pressure drop requirements for your application and this data is included with our proposals along with a quote drawing showing applicable dimensions and connection details.

Static mixers can be manufactured in a variety of materials to suit the application including stainless steels, hastelloy and plastics such as PVC and PTFE (Teflon). For extreme chemical resistance our smaller static mixers can be Tantalum coated or titanium lined for use with hot acids and other highly corrosive products. Compact wafer mixers are available for space constrained installations.



Static mixers are typically used for mixing two or more continuous streams of liquids or gases together and to disperse gas into liquids. They can also be used to ensure a uniform thermal profile within the pipeline. Applications include diluting acids, pH correction, dissolving air into a DAF system, chemical dosing in water treatment, geothermal brine pH balancing and flocculant dosing. Approved for use in ACC Watercare Material Supply Standard.

SIZE	LENGTH *	FLOW RATE *	PRESSURE DROP *
40 NB	335 mm	10 m3/hr	15.0 kPA
50 NB	395 mm	12.5 m3/hr	9.5 kPa
65 NB	480 mm	20 m3/hr	8.5 kPa
80 NB	570 mm	30 m3/hr	8.5 kPa
100 NB	680 mm	50 m3/hr	9.5 kPa
150 NB	975 mm	100 m3/hr	7.5 kPa
200 NB	1260 mm	175 m3/hr	7.5 kPa
250 NB	1550 mm	250 m3/hr	7.0 kPa

**Length based on our D-shaped standard 3 element design with a single side injection joint. Flow rate is suggested for low viscosity fluids. Pressure drop as calculated for water at the suggested flow rate. Contact us with your specific requirements.*