

# TurboJet Mixer



The TurboJet Mixer uses the Bernoulli Principle of converting static pressure into velocity to cause low pressure. When in use a pressurized liquid is fed into the motive nozzle. The velocity of the liquid emitted from the nozzle orifice develops a vacuum of low pressure that draws in the surrounding liquid through inductors into the mixing chamber. This promotes a spiraling turbulent flow that produces multi-dimensional mixing and diffusing, and eliminating liquid stagnation. Motive liquid flow of 1xGPM will create a vacuum of 3xGPM being pulled in from surrounding liquid resulting in a 4xGPM flow ejected from the discharge.

In submerged applications it can suspend solids in a liquid, mix powders with liquids, and emulsifies primary liquids with secondary liquids.

The TurboJet Mixer has proven system applications in: aeration, bioremediation, neutralization, and slurries.

The TurboJet Mixer features no moving parts, features a replaceable nozzle, low energy consumption, and low installation costs. The TurboJet Mixer is primarily constructed out of standard unit 2" carbon steel for the main body. The Venturi unit and nozzle are constructed out of polyurethane. Other materials of construction are available.

'M' - Denotes Motive Liquid		PSIG		PSIG		PSIG		PSIG	
		Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet
MODEL	NOZZLE INLET SIZE	M	20	M	30	M	40	M	50
		GPM	GPM	GPM	GPM	GPM	GPM	GPM	GPM
1"	3/8"	16	64	18	72	22	88	24	96
	1/2"	27	108	33	132	38	152	43	172
1 1/2"	5/8"	41	164	51	204	59	236	66	264
	3/4"	60	240	74	296	85	340	95	380
2"	7/8"	81	324	100	400	116	464	130	520
	1"	107	428	131	524	151	604	169	676