

TurboMix®

(TM) TurboMix Eductor Mixing Nozzle

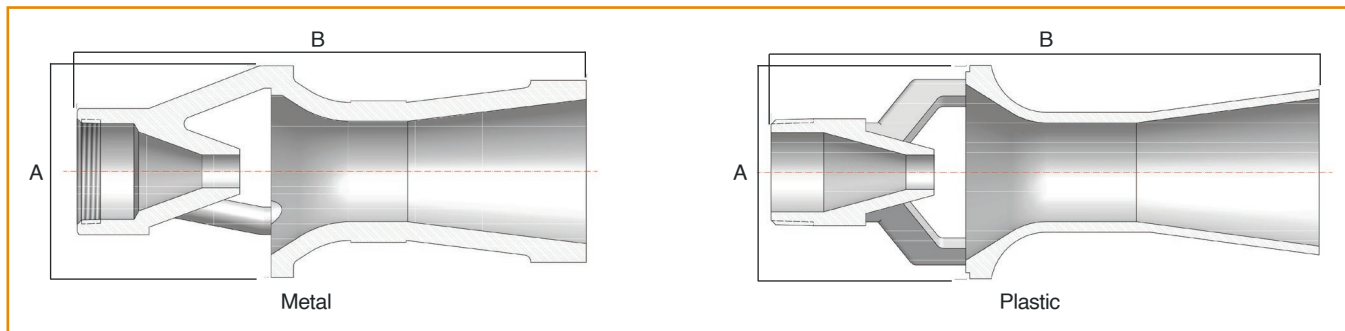
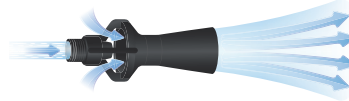
DESIGN FEATURES

- Effective, economical way to circulate liquids in closed or open tanks
- No moving parts
- Inherently clog-resistant
- Requires minimal maintenance
- Nozzle operation creates multiplying effect on fluid flow
- The volume of discharge liquid will be 3-5 times greater than the motive liquid pumped

SPRAY CHARACTERISTICS

- Cone-shaped plume

Flow rates: 26.7 to 12000 l/min
(motive)



TurboMix Flow Rates & Dimensions

Standard Material: Glass-Filled Polypropylene

NPT or BSP Connection Size		TurboMix Number	K Factor	Motive Flow Rate (l/min) @ Differential Pressure (bar*)							Dimensions (mm)		Wt (kg)
				0.7	1	1.5	2	2.5	3	3.5			
				bar	bar	bar	bar	bar	bar	bar	A	B	
Male	3/8"	TM73	33.2	27.8	33.2	40.7	47.0	52.5	57.6	62.2	54	114	0.03
	1/2"	TM120	48.8	40.8	48.8	59.8	69.0	77.2	84.5	91.3	64	165	0.04
	3/4"	TM137	62.4	52.2	62.4	76.4	88.2	98.6	108	117	73	162	0.06
	1"	TM240	109	90.8	108	133	153	172	188	203	89	241	0.15
	1 1/2"	TM340	155	130	155	190	219	245	269	290	114	248	0.21

Flow Rate (l/min) = $K\sqrt{\text{bar}}$

*bar = supply pressure at the TurboMix minus the pressure in the tank

Standard Materials: Brass (sizes 3" and smaller), Carbon Steel, and 316 Stainless Steel

NPT or BSP Connection Size		TurboMix Number	K Factor	Motive Flow Rate (l/min) @ Differential Pressure (bar*)							Dimensions (mm)		Wt (kg)
				0.7	1	1.5	2	3	5	7			
				bar	bar	bar	bar	bar	bar	bar	A	B	
Male	3/8"	TM70	31.9	26.7	31.9	39.1	45.1	55.3	71.4	84.4	43	108	0.23
	1/2"	TM110	50.1	41.9	50.1	61.3	70.8	87.0	112	132	55	133	0.34
	3/4"	TM150	68.4	57.2	68.4	83.7	96.7	118	153	181	67	159	0.68
	1"	TM230	105	87.7	105	128	148	182	234	277	83	200	1.25
Female	1 1/2"	TM320	146	122	146	179	206	253	326	386	97	233	2.95
	2"	TM620	282	236	282	345	399	489	631	746	121	286	5.67
	3"	TM1500	684	572	684	837	967	1180	1530	1810	146	492	18.1
150# Flange	4"	TM2510	1130	950	1130	1390	1610	1970	2540	3000	213	864	18.1
	6"	TM6010	2720	2270	2720	3330	3840	4710	6080	7190	321	1320	54.4
	8"	TM10050	4550	3800	4550	5570	6430	7870	10200	12000	416	1730	147

Flow Rate (l/min) = $K\sqrt{\text{bar}}$

*bar = supply pressure at the TurboMix minus the pressure in the tank

Performance varies with pressure. Dimensions are approximate. Contact BETE for specific data on critical applications.

SPECIAL PURPOSE

CALL 413-772-0846
Call for the name of your nearest BETE representative.