

# TurboMix®

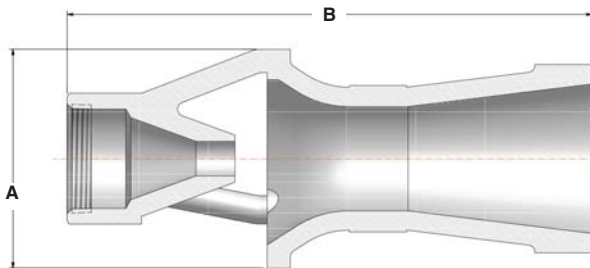
## TurboMix® Eductor Mixing Nozzle

### DESIGN FEATURES

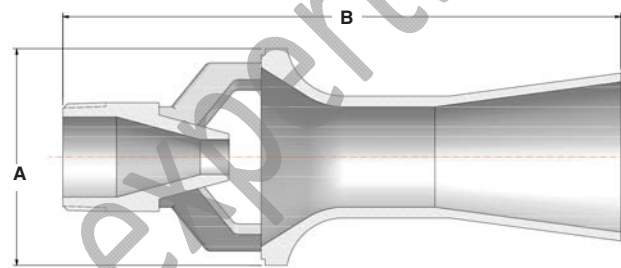
- Effective, economical way to circulate liquids in closed or open tanks
- No moving parts
- Inherently clog resistant
- Requires minimal maintenance
- Nozzle operation creates multiplying effect on fluid flow
- The volume of discharge liquid will be 3-5 times greater than the motive liquid pumped

### SPRAY CHARACTERISTICS

- Cone-shaped plume
- Flow rates:** 26.7 to 12000 L/min (motive)



Metal



Plastic

Dimensions are approximate. Check with BETE for critical dimension applications.

### TurboMix in Molded Plastic

NPT or BSP Connection Size	TurboMix Number	K Factor	Motive Flow Rate LITERS PER MINUTE @ BAR*								Dimensions (mm)		Weight (kg)
			0.7 bar	1 bar	1.5 bar	2 bar	2.5 bar	3 bar	3.5 bar	A	B		
Male	3/8	TM73	33.2	27.8	33.2	40.7	47	52.5	57.6	62.2	54	114	0.03
	1/2	TM120	54.3	45.4	54.3	66.5	76.7	85.8	94	101	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

Standard Material: Glass-filled Polypropylene. \*BAR = supply pressure at the TurboMix minus the pressure in the tank

### TurboMix in Metal

NPT or BSP Connection Size	TurboMix Number	K Factor	Motive Flow Rate LITERS PER MINUTE @ BAR*								Dimensions (mm)		Weight (kg)
			0.7 bar	1 bar	1.5 bar	2 bar	3 bar	5 bar	7 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
Flanged (PN6)	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

Motive Flow Rate (l/min) =  $K \sqrt{\text{bar}}$  \*BAR = supply pressure at the TurboMix minus the pressure in the tank

Standard Materials: Brass (up to 3", inclusive), Carbon Steel, 316 Stainless Steel.

SPECIAL PURPOSE