

# 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

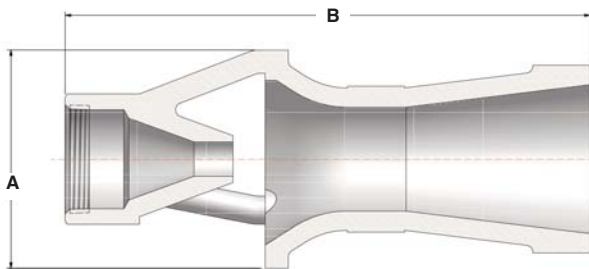
### SPRAY CHARACTERISTICS

- Cone-shaped plume

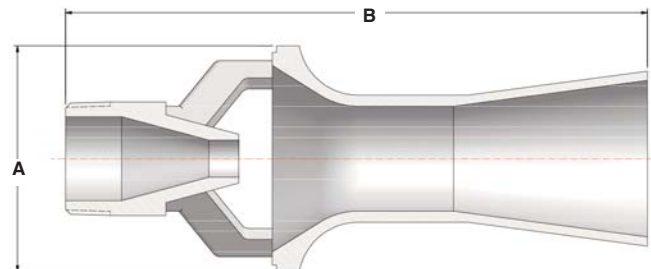
**Flow rates:** 7 to 3180 gpm (motive)



Metal



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 GALLONS PER MINUTE @ PSI*							Dimensions (In.)		
			10 PSI	15 PSI	20 PSI	25 PSI	30 PSI	40 PSI	50 PSI	A	B	
Male	3/8	TM73	2.3	7.3	8.9	10.3	11.5	12.6	14.6	16.3	2.13	4.5
	1/2	TM120	3.8	12	14.7	17	19	20.8	24	26.8	2.5	6.5
	3/4	TM137	4.3	13.7	16.8	19.4	21.7	23.7	27.4	30.6	2.88	6.38
	1	TM240	7.6	24	29.4	33.9	37.9	41.6	48	53.7	3.5	9.5
	1 1/2	TM340	10.8	34	41.6	48.1	53.8	58.9	68.3	76.4	4.5	9.75

Standard Material: Glass-filled Polypropylene. \*PSI = 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 GALLONS PER MINUTE @ PSI*							Dimensions (In.)		
			10 PSI	20 PSI	30 PSI	40 PSI	60 PSI	80 PSI	100 PSI	A	B	
Male	3/8	TM70	2.2	7	9.8	12.1	13.9	17.1	19.8	22.1	1.69	4.25
	1/2	TM110	3.5	11	15.6	19.1	22	26.9	31.1	34.8	2.16	5.25
	3/4	TM150	4.7	15	21.2	25.7	29.7	36.7	42.4	47.4	2.63	6.25
	1	TM230	7.3	23	32.5	39.8	46	56.3	65.1	72.7	3.25	7.88
Female	1 1/2	TM320	10.1	32	45.3	55.4	63.9	78.4	90.5	101	3.81	9.19
	2	TM620	19.6	62	87.7	107	124	152	175	196	4.75	11.25
	3	TM1500	47.4	150	212	260	300	367	424	474	5.75	19.38
150# Flange	4	TM2510	79.4	251	355	435	502	615	710	794	8.38	34
	6	TM6010	190	601	850	1040	1200	1470	1700	1900	12.63	52
	8	TM10050	318	1005	1420	1740	2010	2460	2840	3180	16.38	68

Motive Flow Rate (GPM) =  $K \sqrt{\text{PSI}}$

Standard Materials: Brass, Carbon Steel, 316 Stainless Steel. \*PSI = supply pressure at the TurboMix minus the pressure in the tank

SPECIAL PURPOSE

Call for the name of your nearest BETE representative.

CALL 413-772-0846