

TurboMix®

TurboMix® Educator Mixing Nozzle



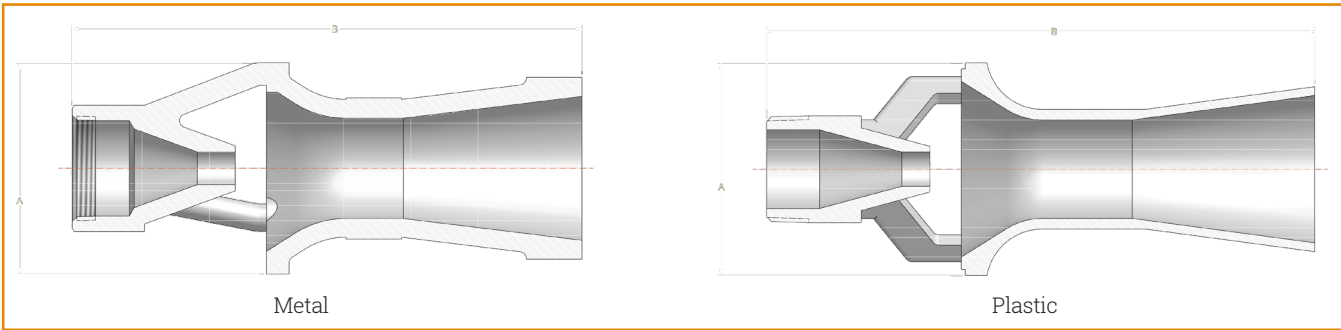
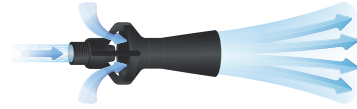
Metal

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 LPM (motive)



Metal

Plastic

TURBOMIX® FLOW RATES & DIMENSIONS

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

| NPT or BSP Connection Size | TurboMix Number | K Factor | Motive Flow Rate (LPM) @ Differential Pressure (bar) | | | | | | | | Dimensions (mm.) | | Wt. (kg.) |
|----------------------------|-----------------|----------|--|------|------|------|------|------|------|------|------------------|-----|-----------|
| | | | 0.7 | 1 | 1.5 | 2 | 2.5 | 3 | 3.5 | A | B | | |
| | | | bar | bar | bar | bar | bar | bar | bar | | | | |
| 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 | 48.8 | 40.8 | 48.8 | 59.8 | 69 | 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 |

Standard Material: Glass-filled Polypropylene.

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

| NPT or BSP Connection Size | TurboMix Number | K Factor | Motive Flow Rate (LPM) @ Differential Pressure (bar) | | | | | | | | Dimensions (mm.) | | Wt. (kg.) |
|----------------------------|-----------------|----------|--|------|------|------|------|------|-------|-------|------------------|------|-----------|
| | | | 0.7 | 1 | 1.5 | 2 | 3 | 5 | 7 | A | B | | |
| | | | bar | bar | bar | bar | bar | bar | bar | | | | |
| 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 (LPM) = $K\sqrt{\text{bar}}$

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

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

SPECIAL PURPOSE