

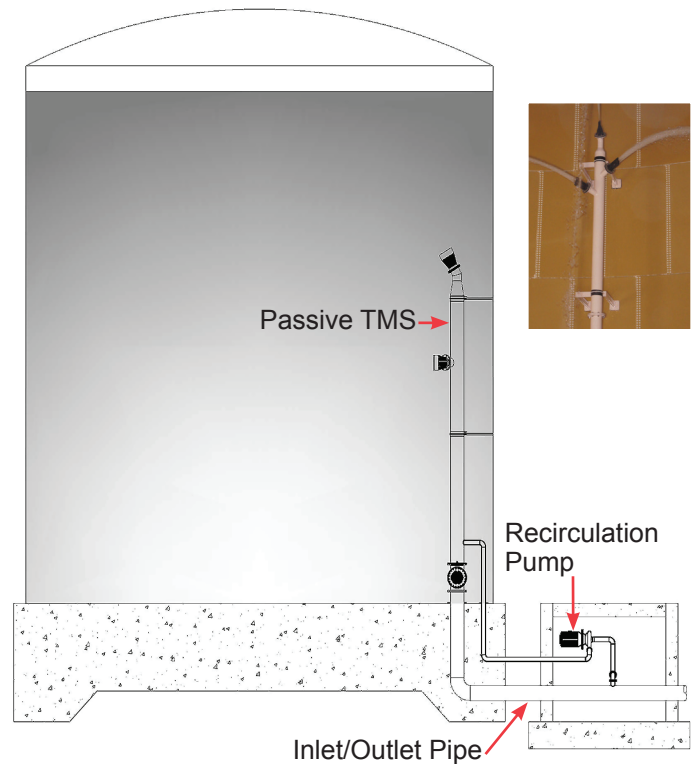
## Tideflex<sup>®</sup> Mixing System (TMS) Pass-Active Mixing

Tideflex Mixing Systems (TMS) are virtually maintenance free and have been installed in more than 3,000 water tanks. The TMS improves water quality and mitigates ice formation by achieving complete mixing, utilizing the inherent energy of the distribution system that causes tanks to fill and draw. Passive TMS achieves complete mixing in tanks with less than 10% volume turnover.

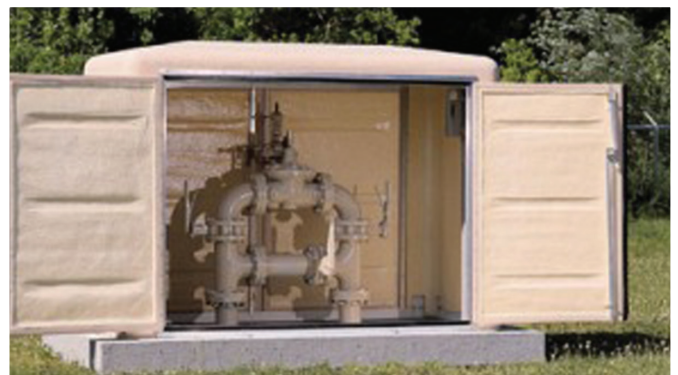
When tanks have very low turnover, supplemental active mixing can be used with the passive TMS. A passive TMS can easily be made into an active TMS by using a small recirculation pump – the Pass-Active TMS.

### Advantages of the Pass-Active TMS over Submerged or Floating Mechanical Mixers:

- Passive TMS is installed inside of tank (virtually no maintenance)
- Mechanical components located outside of tank (vault, enclosure) are easily inspected and maintained
- Only turning on recirculation pump when needed saves maintenance and energy costs
- Pump can be initiated via the SCADA system
- Pump is low flow/low head/low energy/low cost (typically < 0.5 hp)
- Pump can be used for forced draw-down to increase volume turnover of tank and reduce water age
- Can be used for chemical injection, boosting chlorine and forming chloramines
- Chemical injection is very fast, very efficient and very safe (no need to climb to the top of a tank)



*Recirculation pump and chemical injection equipment is installed in valve vault.*



*Recirculation pump and chemical injection equipment may be installed in an enclosure.*