

Can I Turn My EDI Fine Bubble Diffusers On/Off?

Bulletin Brief

EDI advanced technology fine bubble membrane diffusers were specifically designed for applications that may have on-off operation from several causes such as:

- Power failure.
- Settling and decanting (sludge applications or in SBR technology).
- Nitrify/denitrify process and anoxic processes.

Technical Presentation

EDI flexible membrane fine bubble diffusers have triple check valve capability as an integral design feature and shuts off when air is turned off! This check valve feature excludes solids and liquids preventing entry and/or clogging. In addition, EDI membrane diffuser units are self-purging to pump any moisture in the piping out of the system on start-up of aeration. The triple check valve features plus purge capability allows on-off operation of EDI systems while maintaining maximum oxygen transfer efficiency.

Many EDI systems are operating on-off with 4-hour cycles in SBR systems with maximum performance. Aerobic digesters are decanted routinely on-off. Lagoons and small systems tend to have power failures and maintenance needs with on-off operations and EDI flexible membranes handle these conditions efficiently and effectively.

Select flexible membrane fine bubble diffusers from the EDI catalog for routine use and optimum performance in on-off applications.

For specific information on aeration system selection considerations, contact EDI at 573-474-9456.