

Discfuser® Diffuser

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Discfuser® diffusers are recommended for applications where coarse bubble diffusion is satisfactory, or dictated by the presence or expectation of high solids concentration in the aerated liquor.

The Discfuser® diffusers consists of three elements: An ABS housing; a stainless steel retaining ring; and a PVC movable disc. The movable disc is inserted between the diffuser housing and the stainless steel retaining ring, and is free to rise and fall within the space provided between the housing and the retaining ring.

As air is discharged through the diffuser, the disc rises and air is permitted to pass around the entire periphery of the diffuser into the liquid.

In the event of a power failure, or if the air supply is interrupted for any reason, the hydrostatic pressure of the liquid above the diffuser will force the disc against the diffuser housing.

This prevents the passage of mixed liquor into the air supply piping which could result in excess solids accumulating within the air piping system.

Discfuser® diffusers are available with control orifices in five diameters. Proper orifice selection at the time of application and installation ensures uniform air distribution throughout the tank contents, while optimizing the headloss through the system.



In addition to being used in aeration tanks, Discfuser® diffusers are successfully used in aerated grit removal systems, aerobic digester and channel mixing applications.

Benefits

- Prevents backflow of solids
- Minimum controlled headloss
- Corrosion resistant construction



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