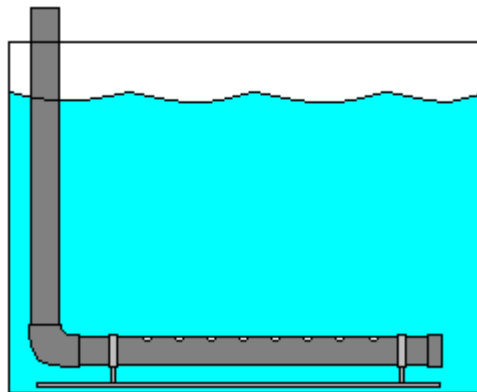




Open Channel Diffusers



Application Information:

Whenever rapid mixing is desired or needed for chemicals being injected into an open channel or contact chamber, the use of an open channel diffuser provides multiple locations of chemical introduction. With an open channel diffuser, the chemical or solution being injected is able to mix throughout the process water more evenly in less time.

Sizes Offered by Hydro Instruments: 1/2" - 4"

Hydro Instruments will quickly manufacture open channel diffusers to specific customer requirements. Options include: material of construction, diffuser pipe diameter, diffuser pipe length, diameter of diffusion holes, number of diffusion holes, spacing of diffusion holes, height of vertical pipe, mounting hardware and inlet connection.

Hydro Instruments offers a variety of options for the inlet connection. Choose from several sizes of threaded, socket or hose connections.

Note: When determining the appropriate size, it is important to realize that the diameter of the diffuser pipe as well as the diameter and number of diffusion holes directly impact the chemical feed system backpressure.

Materials of Construction

Hydro Instruments offers several options to ensure the highest level of chemical resistance for different applications. Schedule 80 PVC and CPVC

Quick Reference Chart for Wetted Material Selection

Chemical Being Injected	Resistant Solution-Wetted Parts
Ammonia	PVC to 110° F / CPVC to 160° F
Chlorine (Hypochlorous Acid)	PVC to 150° F / CPVC to 180° F
Ferric Chloride	PVC to 150° F / CPVC to 180° F
Sodium Bisulfate	PVC to 140° F / CPVC to 180° F
Sodium Bisulfite	PVC to 140° F / CPVC to 180° F
Sodium Hypo Chlorite (Hypochlorous Acid)	PVC to 150° F / CPVC to 180° F
Sulfur Dioxide (Sulfurous Acid)	PVC to 145° F / CPVC to 180° F
Other Chemical Solutions	Please Consult Hydro Instruments

For any questions related to flow capacity, temperature, pressure or friction loss, please call Hydro Instruments.

To Order an Open Channel Diffuser

Because customer requirements vary so widely, Hydro Instruments custom-manufactures every open channel diffuser. In this way, each customer is able to order a unit that is built to their exact needs.

To receive a quotation, simply call or e-mail the details of the request to Hydro Instruments.

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