

Rubber Membrane Diffuser Connection Details

NOTE: These diffusers are only partially self-weighted. Additional ballast is required at the open and to keep them horizontal.



Weight/Ballast Details

4b Stainless Steel 'Piston/Spring' Mechanism 1/4" mpt x mpt

Brass 'Piston/Spring' Mechanism 1/4" fpt xfpt

(B) Coupler Male Plug (M Style) 1/4" mpt

14 Coupler Female Body (M Style) 1/4" fpt

15 Coupler - Hose Barb to Male Pipe 1/4" barb x 1/4" mpt

Rubber Air Line 1/2"

17 Reducing Coupling 1/4" fpt x 1/2" fpt

Coupler - Poly Insert to Male Pipe 1/2" Poly Insert x 1/2" Male Pipe

19 Polyethylene Pipe 1/2"

Connection to

Note that 1/2" Polyethylene pipe is not dimensionally the same as 1/2" tubing or hose. Poly 'insert' couplers are required to connect to Poly Pipe.

20 Reducing Adapter - 1/4" mpt x 1/2" fpt

27 Coupler - Hose Barb to Female Pipe 1/4" fpt x 1/2" Hose

28 90deg Street Elbow - 1/4" fpt x 1/4" fpt

Ballast Weighted Line - Polyethylene Pipe 3/4"

Use silica 'Blasting Sand' or other free flowing dry sand to fill the pipe. Pipe must be full and free of air voids or the pipe will float. Length of the line must extend from the diffuser to the top of the dugout bank and be securely attached to the supply line using cable ties, clamps or other suitable method.

Polyethylene Hose (tubing) - Self Weighted - 1/2"

Plug - use plastic, brass or wood of suitable size and clamp

85 Plastic 'Cable Tie' - Space every 1.0m.

40 Round Membrane Diffuser - NOT self weighted

40 Rubber Membrane Diffuser - partially self weighted

Reducing Adapter - 1/2" mpt x 3/4" fpt

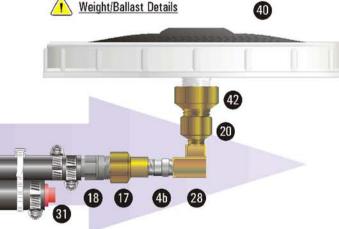
4390deg Street Elbow - 1/4" fpt x 1/4" mpt



NOTE: Do not use rubber diaphragm type check valves in this location. Water and debris will collect in the supply line near the diffuser and foul the rubber diaphragm and cause a mineral buildup on the aluminum case. Use brass or stainless steel valves in this location.

Alternate Check Valve Detail

NOTE: These diffusers are not self weighted. A weighted plastic pail fixed to the rim of the diffuser with plastic cable ties will make a satisfactory ballast.











Compressor
Assembly

Round Rubber Membrane Connection Details



Standard Aeration Diffuser Connection Details - 2

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