

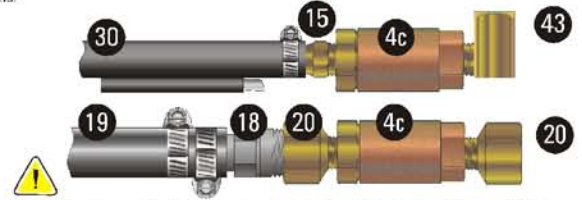


### Rubber Membrane Diffuser Connection Details

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

#### ⚠ Weight/Ballast Details

- 4b Stainless Steel 'Piston/Spring' Mechanism 1/4" mpt x mpt
- 4c Brass 'Piston/Spring' Mechanism 1/4" fpt x fpt
- 13 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
- 16 Rubber Air Line 1/2"
- 17 Reducing Coupling 1/4" fpt x 1/2" fpt
- 18 Coupler - Poly Insert to Male Pipe 1/2" Poly Insert x 1/2" Male Pipe
- 19 Polyethylene Pipe 1/2"  
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
- 29 Ballast Weighted Line - Polyethylene Pipe 3/4"
- 30 Polyethylene Hose (tubing) - Self Weighted - 1/2"
- 31 Plug - use plastic, brass or wood of suitable size and clamp
- 35 Plastic 'Cable Tie' - Space every 1.0m
- 40 Round Membrane Diffuser - NOT self weighted
- 41 Rubber Membrane Diffuser - partially self weighted
- 42 Reducing Adapter - 1/2" mpt x 3/4" fpt
- 43 90deg Street Elbow - 1/4" fpt x 1/4" mpt

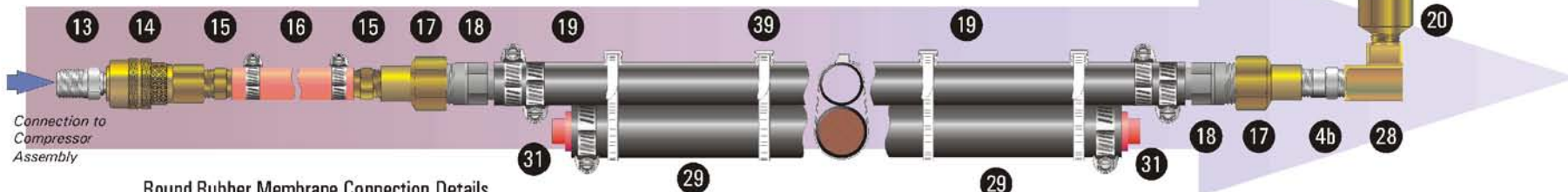


NOTE: Do not use rubber diaphragm type check valves in this location. Water and debris will collect in the supply line near the diffuser and foul the rubber diaphragm and cause a mineral buildup on the aluminum case. Use brass or stainless steel valves in this location

### 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.

#### ⚠ Weight/Ballast Details



### Round Rubber Membrane Connection Details

### Standard Aeration Diffuser Connection Details - 2

Drawn: J.H.Squires, Jan 12, 2000 PFRA DRAWING No. 285025 rev 1.00