

## IAS Water Quality Skimmer Installation Instructions



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### You will need:

IAS Water Quality Skimmer Head  
6' **SOLID CORE SCHEDULE 40 PVC** pipe the same size as the skimmer head pipe (Barrel)  
IAS Flexible Coupling  
All-purpose or PVC primer and glue  
Water

### Assembly Instructions:

1. Glue the IAS Flexible Coupling to the outlet pipe.
  - a. Prime and apply glue to the inside of the Flexible Coupling bell and to the outside of the outlet pipe.
  - b. Attach the Flexible Coupling to the outlet pipe. Note: if the Flexible Coupling has a curve to it, orient the curve upward so that it forms a U when viewed from the side.
2. Unscrew both caps next to labels marked "FILL W/ H2O" on top of skimmer. ***Completely fill*** each side of the skimmer head with water (potable or non-potable water sources are acceptable). When fill-hole is at the point of overflow, reattach each plug to the skimmer head. ***It is VERY important that each side be filled completely in order for the skimmer to float in a balanced manner once placed in the basin.***
3. Screw the 6' solid core schedule 40 PVC Barrel into the IAS Skimmer Head.
4. Glue the Barrel to the IAS Flexible Coupling.
  - a. Orient the Skimmer Head/Barrel such that the feet of the skimmer head and the end of the barrel are on the ground.
  - b. Prime and apply glue to the inside bell of the IAS Flexible Coupling and to the outside of the end of the Barrel.
  - c. Attach the Barrel to the IAS Flexible Coupling.
  - d. Loosen one of the metal fasteners on the Flexible coupling to remove any torque that may have been introduced through gluing the joints together. Retighten the metal fastener.
5. Attach one end of a rope to the skimmer head and the other end to a stake at the side of the basin. Leave enough slack in the rope for the IAS Water Quality Skimmer to move through its fill range of motion.

When complete the IAS Flexible coupling should be laying flat on the ground and the IAS Water Quality Skimmer Head/Barrel assembly should be touching the ground at three points, the bottom of the two legs and the point at which the Barrel is attached to the IAS Flexible Coupling.



**Maintenance:**

The IAS Water Quality Skimmer is designed to be as maintenance free as possible.

**Trash:** IAS Water Quality Skimmer is designed to float in a manner that keeps the inlet holes just below the surface and below any floating debris that would clog the holes. It is also designed with multiple holes such that if one hole is clogged the others should continue to flow. If a clog is noticed a quick tug on the rope should dislodge any debris.

**Skimmer Head Doesn't Float Flat:** If the skimmer head isn't floating evenly on the surface of the water loosen one of the metal fasteners on the Flexible Coupling and twist the Barrel until the skimmer floats evenly. Retighten the metal fastener.

**Please contact us with any installation questions you may have.**

### Sizing of the IAS Water Quality Skimmer

IAS Water Quality Skimmers come in several sizes to accommodate a range of flows. In most cases the orifice size will be indicated on the Erosion Control Plan. In other instances, the plans will indicate a volume to be drained in a specified time period. The chart below summarizes the flow characteristics of our most common size skimmers. Selecting a skimmer is as simple as finding the required drawdown time in the first row and selecting the closest volume to your requirement. The Skimmer size will be in the first column.

Orifice Size (in.)	Barrel Size (in)	Discharge Pipe (in)	24 Hour Flow (CF)	3 Day Flow (CF)	5 Day Flow (CF)
1.50	2	2	1,804	5,412	9,020
1.75	2	2	2,405	7,216	12,027
2	3	3	3,928	11,784	19,640
2.5	3	3	6,137	18,412	30,687
3	4	4	10,205	30,616	51,026
4	4	4	22,220	66,661	111,101
5	6	6	34,719	104,157	173,596
6	6	6	49,995	149,987	249,978
8	8	8	102,631	307,894	513,156

**Example:** A sediment trap has a volume of 32,567 cf and is required to drawdown in 3 days. From the chart above under the 3 Day Flow column the closest given flow is 30,616 cf. Looking to the right we see that the orifice size needed is a 3". This indicates that a 3" IAS Water Quality Skimmer will drawdown the required volume in just over 3 days. If the requirement had been a drawdown time of 24 hours the correct IAS Water Quality Skimmer size would have been 5". Generally the drawdown time is given in a range. For example in North Carolina sediment traps are required to drawdown in 24 to 72 hours. Using a 3 day drawdown time would meet that requirement.

If your project requires a skimmer size that is not listed above please contact us. We can make custom-sized skimmers.