

## IAS Water Quality Skimmer Installation Instructions for 8" Skimmers

### 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

Socket wrench

### Assembly Instructions:

1. Secure the IAS Flexible Coupling to the outlet pipe.
  - a. 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.
  - b. Tighten metal ring with socket wrench until completely secure.
2. Screw the 6' solid core schedule 40 PVC Barrel into the IAS Skimmer Head.
3. Secure 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. Attach the Barrel to the IAS Flexible Coupling. Tighten metal ring with socket wrench until completely secure.
4. Attach remaining coupler to the outlet pipe. Tighten metal ring with socket wrench until completely secure.
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.

**If the basin plans call for the outlet pipe to be raised above the bottom of the basin, it is VERY important that a rock pad be constructed to the height of the bottom of the outlet pipe (as seen in the photos below). If this is not done or if the pad is not built to the same height as the bottom of the outlet pipe, the skimmer will not function properly .**

When complete the IAS Flexible coupling should be lying flat on the ground or on the rock pad (if one is specified). If the skimmer is installed *without* a rock pad, 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. If it is installed *with* a rock pad (as seen below), the unit will be touching at two points: the top of the Barrel/middle of the skimmer head 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.