



# SKIMMER ASSEMBLY

## TO REMOVE FLOATING OIL OR DEBRIS FROM AQUEOUS SOLUTIONS

MODEL NUMBER	SKIM RATE	CONNS.	INLET	RISER	BRACKET	LIQUID LEVEL DIFFERENTIAL	PRICE CODE NO.
	GPM	NPT	LENGTH	LENGTH	1/2" THICK		
SK 1/2	2-5	1/2"	15"	13"	4" x 2"	2"	99-0475
SK 3/4	5-10	3/4"	18"	18"	4" x 2"	2"	99-0476
SK 1	10-15	1"	18"	18"	6" x 2"	4"	99-0477
SK 1 1/4	15-20	1 1/4"	18"	18"	6" x 2"	4"	99-0478
SK 1 1/2	25-40	1 1/2"	24"	24"	8" x 4"	6"	99-1458
SK 2	40-60	2"	24"	24"	8" x 4"	6"	99-1459
SK 3	60-80	3"	24"	24"	10" x 6"	8"	99-1460

### SAFETY PRECAUTIONS

1. Read operating instructions and instructions supplied with chemicals to be used.
2. Refer to a chemical resistance data chart for compatibility of materials with solution to be used.
3. Personnel should always wear suitable protective clothing: face mask or goggles, apron and gloves.
4. Always close valves slowly to avoid hydraulic shock.
5. Ensure that all fittings and connections are tight.

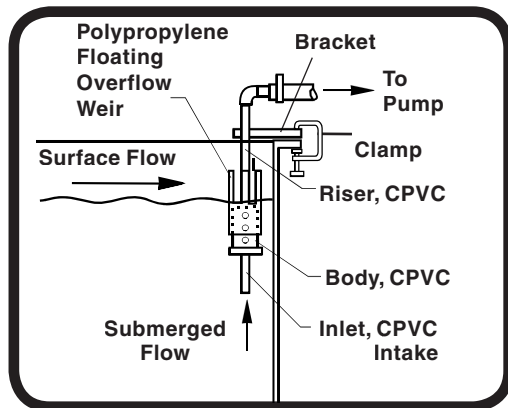
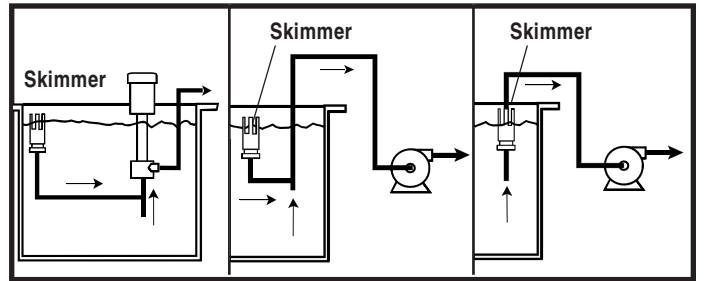


Figure 1

1. Connect skimmer discharge to pump inlet.
2. All skimmer models include mounting bracket, shown in Figure 1, which allows for adjusting height of riser and skimmer body. Skimmer may also be supported by pump suction piping as shown in Figures 2, 3 & 4.
3. Position skimmer assembly so top of body will always be below lowest level of solution surface. Table shows change of liquid level that each model can accommodate.
4. Floating weir will automatically skim surface liquid and follow changes in elevation of liquid level. Flow from the solution surface plus balance of liquid through the in-take pipe will combine to provide total input to the pump. A plug can be installed at bottom of body, Figure 5 to provide 100% surface flow. Care must then be taken to avoid pump cavitation by installing flow control valve on pump discharge. Cavitation can also be avoided by cutting deeper or wider notches in weir.
5. If solution density causes the float to ride high in the liquid, thereby preventing solution from entering the weir, then it is only necessary to cut the weir deeper until the bottom of the weir is adequately below the liquid level.
6. If the skimmer assembly is to be installed on a filter line

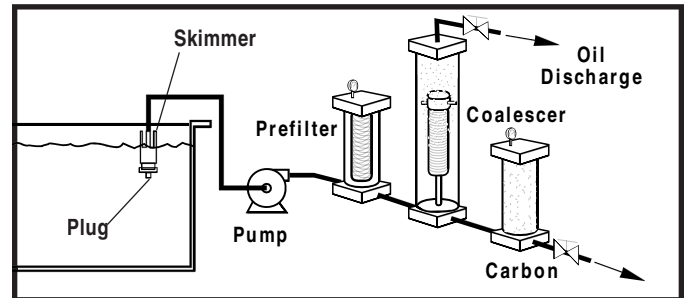
Refer to Bulletin F-303.



Vertical Pump  
Figure 2

Centrifugal Pump  
Figure 3

Self-Priming Pump  
Figure 4



Plug inlet for 100% skimming  
Figure 5

on which the pump suction is larger than the skimmer model (and has a higher flow rate than the skimmer can accommodate), install the skimmer in a 'T' along with a separate suction line, as illustrated in Figure 6.

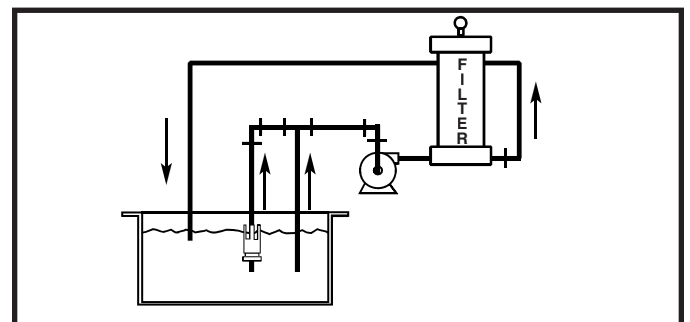


Figure 6

7. Skimmer may be used with a filter alone (refer to Figure 6) or with a coalescing chamber for separation of floating oil. For some applications carbon may be employed for removal of trace organics. (Refer to chamber sequence illustrated in Figure 5.)



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