

FACE INSTALLATION INSTRUCTIONS

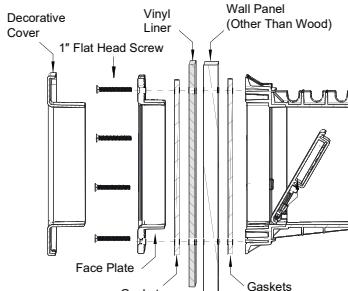


Figure 4: Skimmer installation cut-away

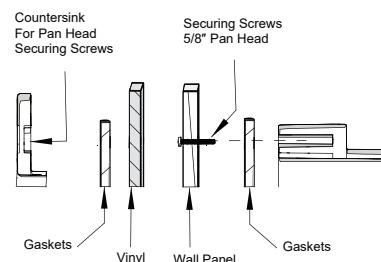


Figure 5: SKR36xxx securing screws

INSTRUCTIONS FOR OTHER THAN WOOD PANEL

(See Figure 4)

1. Drill and cut wall panel section per above dimensions on previous page.

2. Place gasket on skimmer face, making sure holes in gasket align with holes in skimmer face. A very light application of silicon sealant will assist in holding gasket in place.

3. Align skimmer face and gasket with drilled panel holes and fasten to wall panel. For SKR36xxx use the top center and bottom center holes with the pan head securing screws (Figure 8). Use appropriate holes and four screws.

4. If vinyl liner pool, install liner before proceeding to step 5.

5. Align second gasket and face plate. Tightly fasten the skimmer face with provided screws. If vinyl liner pool, pierce liner through face plate holes one at a time prior to inserting screws. Screws must go through face frame, gasket, liner, wall panel, gasket, and into skimmer face.

6. Install skimmer face cover, (Not available with SKR36xxx). If vinyl liner pool, cut out liner along inside edge of the skimmer face cover.

INSTRUCTIONS FOR WOOD PANEL WITH VINYL

(See Figure 5)

1. Cut out wall panel approximately 1/8" larger than outside dimensions of skimmer face (NOT face frame or cover).

2. Insert skimmer into panel cut out from rear. Butt the mounting flange against the rear of the panel. Use "U" shims, if necessary to make the face of the skimmer flush with the inside of the pool. Fasten the skimmer to the rear of the wood panel by securing with stainless or brass wood screws through the skimmer mounting flange.

3. Place gasket on skimmer face, make sure the holes in the gasket align with holes in skimmer face. A very light application of silicon sealant will assist in holding gasket in place.

4. Install vinyl liner.

5. Align second gasket and face plate. Fasten tightly to skimmer face with provided screws. Pierce liner through face plate holes one at a time by inserting screws.

6. Install skimmer face cover, (Not available with SKR36xxx). Cut out liner along inside edge of the skimmer face cover.



AQUASTAR®
pool products



Max Flow
2 1/2" Pipe: 90 GPM
2" Pipe: 63 GPM

Min Flow
2 1/2" Pipe: 15 GPM
2" Pipe: 15 GPM

INSTALLATION, OPERATION, AND MAINTENANCE INSTRUCTIONS

VINYL/FIBERGLASS FLOWSTAR® SKIMMERS



Part # SKRVFL3Nxxx



Part # SKR35xxx



Part # SKR36xxx



Part # SKRVFL3Nxxx-L/
SKRVFL18xxx-L (Bonded)



Part # SKR35xxx-L/
SKR35xxxB-L (Bonded)



Part # SKR36xxx-L
Part # SKR36xxxB-L



Part # SKRVFL18xxx



Part # SKR35xxxB



Part # SKR36xxxB

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Certified to
NSF/ANSI/CAN 50

VINYL/FIBERGLASS FLOWSTAR® SKIMMERS

PUBLIC & RESIDENTIAL INSTALLATION, OPERATION & PARTS

Float valve is not NSF certified.

IMPORTANT SAFETY INSTRUCTIONS FOR SKRFL3Nxxx, SKRFL3Nxxx-L, SKRFL18xxx, SKRFL18xxx-L, SKR35xxx, SKR35xxx-L, SKR35xxxB-L, SKR35xxxB, SKR36xxx, SKR36xxx-L, SKR36Bxxx, SKR36xxx-L

READ AND FOLLOW ALL INSTRUCTIONS



HAZARDOUS SUCTION. RISK OF HAIR OR BODY ENTRAPMENT, DROWNING OR DISEMBOWELMENT.

When an equalizer is used, the opening in the pool shall be protected by a VGBA Compliant drain cover rated for 100 GPM or greater. NOTE: Skimmer is not equivalent to a main drain. If not using a single, unblockable drain, all pools, spas and hot tubs must have at least two main drains besides skimmer(s) or a "single, unblockable" drain.

SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE

OPERATION

Operation Overview

Pump suction pulls water through skimmer. Water flowing into skimmer carries floating leaves, bugs, etc., where they are trapped in the skimmer basket. Dust, body oils, etc., pass through the basket to be removed by the filter. Weir door in skimmer opening enhances surface flow and skimming action.

Water Level

Keep pool, spa or hot tub water level at the middle water level mark, on the data plate image located inside skimmer housing, for best performance. Never operate below the low mark, see Figure 1.

Figure 1:
Data Plate Image

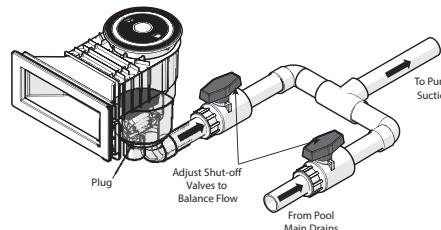


Figure 2: Typical residential installation

Vacuuming Pool

Remove deck lid and skimmer basket. If there is a float valve, remove it and plug equalizer port that is closest to the pool. Replace basket and place vacuum plate on top of basket. Fill the vacuum hose with water and then place your hand over the end of the hose as you bring it through the skimmer throat, or over the deck to attach it to the vacuum plate (Figure 3). Follow instructions in vacuum owner's manual for vacuuming operation. After vacuuming, remove hose, vacuum plate and basket, unplug equalizer port and reinstall float valve, basket and deck lid.

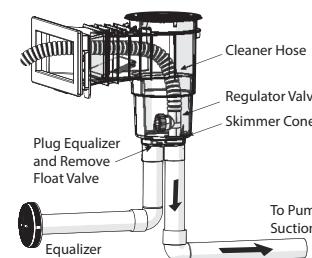


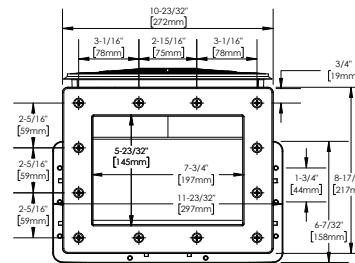
Figure 3: Vacuuming pool; float and check valves removed, equalizer port plugged.

Max Flow
2 1/2" Pipe: 90 GPM
2" Pipe : 63 GPM

Min Flow
2 1/2" Pipe: 15 GPM
2" Pipe : 15 GPM

DIMENSIONS AND PARTS LIST

Flow Star Skimmer with 9" Deep Throat, Float Assembly, Basket, Lid, Adjustable Collar For Fiberglass/Vinyl
Model # SKRFL3Nxxx, SKRFL3Nxxx-L, SKRFL18xxx, SKRFL18xxx-L



CUT OUT PANEL OTHER THAN WOOD

A - HEIGHT MIN 5-13/16" (148 mm) MAX 6-1/16" (154 mm)
B - WIDTH MIN 8" (203 mm) MAX 8-1/4" (210 mm)

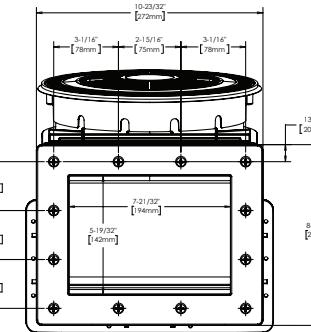
CUT OUT PANEL FOR WOOD PANEL WITH VINYL LINER

A - HEIGHT MIN 7-11/16" (195 mm) MAX 7-7/8" (154 mm)
B - WIDTH MIN 9-7/8" (251 mm) MAX 10-1/8" (257 mm)

DRILL or PUNCH 12 HOLES 1/4" DIAMETER AS SHOWN

Flow Star Skimmer with 5" Deep Throat, Float Assembly, Basket, Adjustable Collar For Fiberglass

Model # SKR35xxx, SKR35xxx-L, SKR35xxxB, SKR35xxxB-L



CUT OUT PANEL OTHER THAN WOOD

A - HEIGHT MIN 5-13/16" (148 mm) MAX 6-1/16" (154 mm)
B - WIDTH MIN 8" (203 mm) MAX 8-1/4" (210 mm)

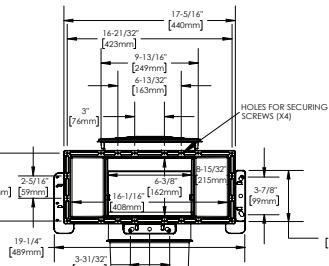
CUT OUT PANEL FOR WOOD PANEL WITH VINYL LINER

A - HEIGHT MIN 7-11/16" (195 mm) MAX 7-7/8" (200 mm)
B - WIDTH MIN 9-7/8" (251 mm) MAX 10-1/8" (257 mm)

DRILL or PUNCH 12 HOLES 1/4" DIAMETER AS SHOWN

Flow Star Wide Mouth Skimmer with 9" Deep Throat, Float Assembly, Basket, Lid, Adjustable Collar For Fiberglass/Vinyl

Model # SKR36xxx, SKR36xxx-L, SKR36Bxxx, SKR36Bxxx-L



CUT OUT PANEL OTHER THAN WOOD

A - HEIGHT MIN 6" (152 mm) MAX 6-1/4" (159 mm)
B - WIDTH MIN 15-9/16" (395 mm) MAX 15-13/16" (402 mm)

CUT OUT PANEL FOR WOOD PANEL WITH VINYL LINER

A - HEIGHT MIN 7-11/16" (195 mm) MAX 7-15/16" (202 mm)
B - WIDTH MIN 17-7/16" (443 mm) MAX 17-11/16" (449 mm)

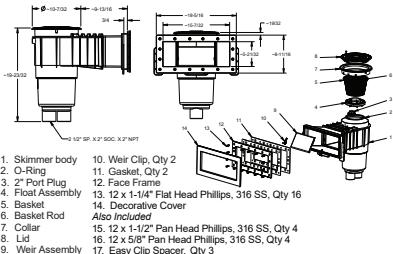
DRILL or PUNCH 16 HOLES 1/4" DIAMETER AS SHOWN

DIMENSIONS AND PARTS LIST

FlowStar® Wide Mouth Skimmer for Fiberglass and Vinyl



Part # SKR36xxx



Part Numbers/Colors

SKR36101 - White
SKR36102 - Black
SKR36103 - Lt. Gray
SKR36105 - Dk. Gray
SKR36108 - Tan

Float valve is not NSF certified.

MAINTENANCE

Periodically check weir for free operation. Replace if damaged or worn. Check strainer basket as often as needed for accumulated leaves, debris, etc. Empty basket as required.

Skimmer deck lid is made of impact and weather resistant materials, but extended use (5-10 years) may lead to reduced strength. Regularly check condition of skimmer lid. Look for cracks, chips, deterioration of plastic, etc. If any sign of damage or deterioration is found, replace the deck lid and fasteners.

To winterizing, drain pool until level is below skimmer inlet. Remove cover, basket and float. Plug bottom port(s). Cover skimmer to prevent rainwater or snow from entering the skimmer where it could freeze.

WARNING! LOW WATER LEVEL CAN MAKE IT DIFFICULT TO EXIT POOL AND MAY DAMAGE PUMP AND OTHER POOL EQUIPMENT. Note: An equalizer line is a way to bypass the skimmer and it is intended to inhibit damage to the pump when pool water level is below the throat of the skimmer or the basket is full. You must check your local code as some require equalizer lines, others don't allow them and others leave it to the pool designer. When equalizer line is used the cover inside the pool must be VGBA compliant, and have a flow rating higher than the skimmer's configuration-specific flow rating.

SKIMMER LAYOUT AND SUCTION LINE SIZING

Skimmers are critically important for removing floating contaminants, oils, and debris; for this reason modern pool building codes require that the number of skimmers installed are capable of handling 100% of the filtration flow rate.

1. The minimum number of skimmers needed is based on facility type (See Table 1).
2. When selecting the location for skimmers, at least one should be placed so that the prevailing wind blows towards the skimmer.
3. Size suction pipe based on the design flow rate such that the water velocity in the pipe will not exceed six feet per second. To increase system flow capacity for long pipe runs, use multiple pipes (both ports) or larger pipe (2.5" spigot, or 3" / 4" adapter bushing #BFB101). See figures 5 and 7 piping layout.

Table 1: Skimmers Required Per Square Foot Area

Facility Type	Area Per Skimmer (sq. ft.)
Public Pool	500
Residential Pool	800
Public and Residential Spa	150

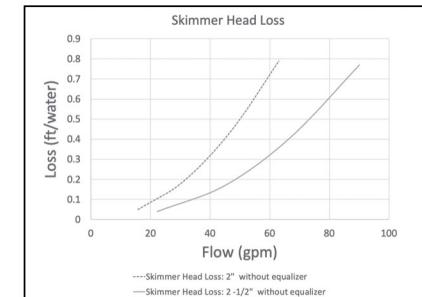
Example: A public pool that is 1000 sq. ft. requires at least two skimmers.

INSTALLATION

See section "Dimensions and Parts List", "Face Plate Dimensions", and "Face Installation Instructions" for basic dimensions and further instructions. Top cover frame has 1" vertical height adjustment.

PIPE CONNECTIONS AND TESTING

Connect pump inlet line to rear port in bottom manifold. Skimmer manifold is PVC, and comes in a variety of configurations. For threaded connections inside skimmer manifold, do not use pipe dope; to seal joint use RTV Silastic #732 (preferred), Teflon tape or Plasto-Joint Stik. For slip connections, use a temperature-appropriate PVC solvent cement and primer on both the pipe and the fitting. Ensure all surfaces are clean and free of debris before application. Consider ambient temperature and humidity during installation, as these factors can affect the curing process. Apply the primer to both the pipe and the fitting, followed by the solvent cement. Assemble the joint per the cement manufacturer's instructions, including rotating the pipe a quarter turn to evenly distribute the cement. Allow the joint to set for the recommended time before pressure testing to ensure a secure and leak-free connection.



WARNING! PLASTIC CEMENTS AND PRIMERS CAN BE FLAMMABLE, POISONOUS OR BOTH. CLOSELY FOLLOW CEMENT MANUFACTURER'S INSTRUCTIONS.

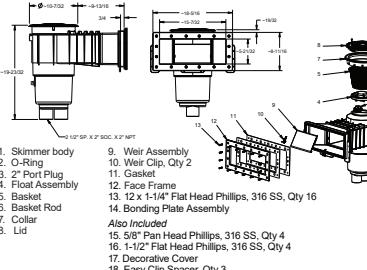
WARNING! FALLING AND TRIPPING HAZARD. THE DECK LID MUST BE INSTALLED FLUSH WITH THE DECK LEVEL.

NOTE: THE SKIMMER FILL LINE CONNECTION IS MADE OF ABS MATERIAL. PLEASE USE THE APPROPRIATE TRANSITION GLUE FOR CONNECTING TO PVC PIPING TO ENSURE A SECURE AND LEAK-FREE INSTALLATION.

FlowStar® Wide Mouth Skimmer and Water Bond for Fiberglass and Vinyl



Part # SKR36Bxx



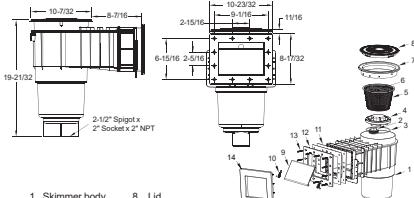
Part Numbers/Colors

SKR36B101 - White
SKR36B102 - Black
SKR36B103 - Lt. Gray
SKR36B105 - Dk. Gray
SKR36B108 - Tan

Float valve is not NSF certified.

DIMENSIONS AND PARTS LIST

FlowStar® Skimmer with Narrow 9" Throat for Vinyl and Fiberglass



Part # SKRFL3Nxxx

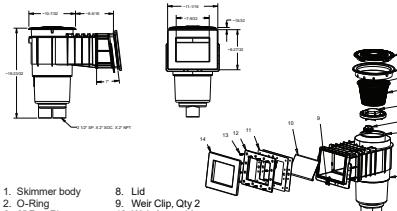
Part Numbers/Colors

- SKRFL3N101 - White
- SKRFL3N102 - Black
- SKRFL3N103 - Lt. Gray
- SKRFL3N105 - Dk. Gray
- SKRFL3N108 - Tan

Float valve is not NSF certified.

DIMENSIONS AND PARTS LIST

FlowStar® Skimmer with 7 Degree Angle for Fiberglass



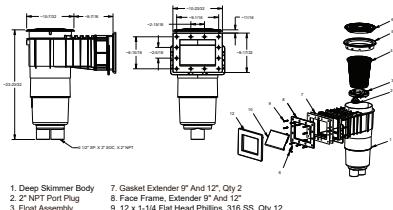
Part # SKR35xxx

Part Numbers/Colors

- SKR35101 - White
- SKR35102 - Black
- SKR35103 - Lt. Gray
- SKR35105 - Dk. Gray
- SKR35108 - Tan

Float valve is not NSF certified.

FlowStar® Skimmer with Narrow 9" Throat and 9" Ultra Basket for Vinyl and Fiberglass (Optional Water Bond)



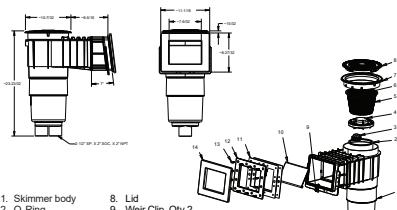
Part # SKRFL3Nxxx-L/
SKRFL18xxx-L (Bonded)

Part Numbers/Colors

- SKRFL3N101-L - White
- SKRFL3N102-L - Black
- SKRFL3N103-L - Lt. Gray
- SKRFL3N105-L - Dk. Gray
- SKRFL3N108-L - Tan

Float valve is not NSF certified.

FlowStar® Skimmer with 7 Degree Angle for Fiberglass with 9" Ultra Basket



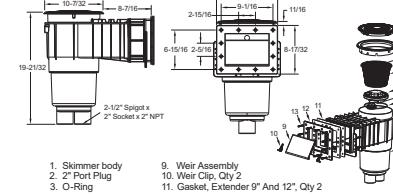
Part # SKR35xxx-L/
SKR35xxx-B (Bonded)

Part Numbers/Colors

- SKR35101-L - White
- SKR35102-L - Black
- SKR35103-L - Lt. Gray
- SKR35105-L - Dk. Gray
- SKR35108-L - Tan

Float valve is not NSF certified.

FlowStar® Skimmer with Narrow 9" Throat and Water Bond for Vinyl and Fiberglass



Part # SKRFL18xxx

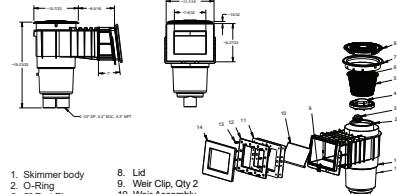
Part Numbers/Colors

- SKRFL18101B - White
- SKRFL18102B - Black
- SKRFL18103B - Lt. Gray
- SKRFL18105B - Dk. Gray
- SKRFL18108B - Tan

Also Included:
14. Bonding Plate Assembly
15. Decorative Cover

Float valve is not NSF certified.

FlowStar® Skimmer with 7 Degree Angle for Fiberglass with Water Bond



Part # SKR35xxxB

Part Numbers/Colors

- SKR35101B - White
- SKR35102B - Black
- SKR35103B - Lt. Gray
- SKR35105B - Dk. Gray
- SKR35108B - Tan

Float valve is not NSF certified.