

## INSTALLATION, OPERATION AND MAINTENANCE MANUAL

### Ultraspin Oil Skimmer Products

Models:    S1 Oil Skimmer  
              S2 Oil Skimmer  
              Flat pack skimmers  
              Skimmer hoses  
              Hose floats



Document Title	Ultraspin Standard IOM Manual - Ultraspin Oil Skimmer Products
Document Number	MAN003
Revision Number	2
Revision Date	28/08/2023
Supplier Name	Ultraspin Technology Pty. Ltd.

## Table of Contents

1	System Overview.....	4
1.1	Description .....	4
1.2	Skimmer Features .....	5
1.3	How does it work?.....	6
2	Assembly .....	7
2.1	Assembly of the S1 Skimmer.....	7
2.2	Assembly of the S2 Skimmer.....	9
2.3	Assembly of the Trash Screen (Optional).....	11
3	Installation of the Oil Skimmers.....	13
3.1	High flow configuration .....	14
3.2	Surface effects .....	15
4	Maintenance and Servicing.....	16
4.1	Minor Service: Inspect and Clean.....	16
4.2	Major Service: Replace Skimmer Internals .....	16
5	Skimmer Spare Parts .....	17
6	Specifications .....	18
7	Troubleshooting Guide.....	19
8	Appendices.....	20
8.1	Appendix 1 - Spare Parts List.....	21
8.2	Appendix 2 – Drawings and Specifications.....	23
8.3	Appendix 3 – Equipment Data Sheets.....	25

## Important Notes to Read Before Commencing any Work

<b>Safety</b>	<p>Before attempting to undertake installation, maintenance or repair work of any nature, the persons concerned should be alerted to the nature of the risks involved when working in a situation of a potentially hazardous nature. As it is not possible to cover every aspect of safety in a single article, care has been taken in preparation of the following notes, which should serve as a general guide to the most common situations likely to be encountered.</p> <p>It is necessary to point out that Ultraspin or any of its associates cannot accept responsibility for any form of personal injury, however caused. Therefore, every care should be taken to observe the normal rules of safety.</p>
<b>Approvals</b>	<p>The manual is intended as a guide only. If required, site-specific drawings, Council, Water, Electricity Authority and Government approval and professional advice shall be obtained prior to installing the equipment mentioned in this manual.</p>
<b>Warning</b>	<p>Certain instructions and advice carry this tag. This information should NOT be ignored or damage to equipment or personnel could result.</p>
<b>Warranty</b>	<p>The data is based on tests and experience which Ultraspin Technology Pty Ltd believe reliable and is supplied for information services only. Ultraspin Technology Pty Ltd disclaims any liability for damage or injury which results from the use of the enclosed data and nothing contained therein shall constitute a guarantee, warranty or representation (including free from patent liability) by Ultraspin Technology Pty Ltd with respect to the data, the product described, or its suitability for any specific purpose, even if that purpose is known to Ultraspin Technology Pty Ltd.</p>
<b>Patents</b>	<p>Ultraspin Technology Pty Ltd has patented features of the skimmer, hydrocyclone and processes covered in this literature. Processes or products in this manual should not be used without the prior written consent of Ultraspin Technology Pty Ltd.</p>
<b>Update</b>	<p>Data subject to correction and update without notice</p>
<b>Copyright</b>	<p>Ultraspin Technology Pty Ltd © 2010-2018; All rights reserved</p>
<b>Standards</b>	<p>This Ultraspin Separators are designed to comply with some or all of the following standards: NSW Land &amp; Water Conservation, January 1997 Guidelines for the On-Site Treatment of Trade Waste Discharge to Sewer AS/NZS 4494:1998 Discharge of Commercial &amp; Industrial Liquid Waste to Sewer – General Performance Requirements National Water Quality Management Guideline for Sewerage Systems, November 1998 A list of manufacturing standards is available on request.</p>
<b>Design</b>	<p>This manual is not a design guide. It does not provide a substitute for careful planning and a considered site design drawing prepared by qualified and experienced people. If there is any uncertainty with design the service of competent design engineers experienced in oily water and local requirements should be sought. If needed Ultraspin can provide a list of recommended designers.</p>

## 1 System Overview

### 1.1 Description

Skimmers are designed to remove oil, fats and floating material from tanks, pits, and open waters. Ultraspinn skimmers are true self-adjusting, weir-type, oily water skimmers and are an important part of oily water treatment systems.

**IMPORTANT:** No type or brand of oil skimmer is a water treatment device. Removing oil on the surface does not treat the water below. If your primary problem is cleaning the water, then water treatment equipment is needed.



For more information regarding different Skimmer applications visit  
<http://www.ultraspinn.com.au/products/skimmers/>

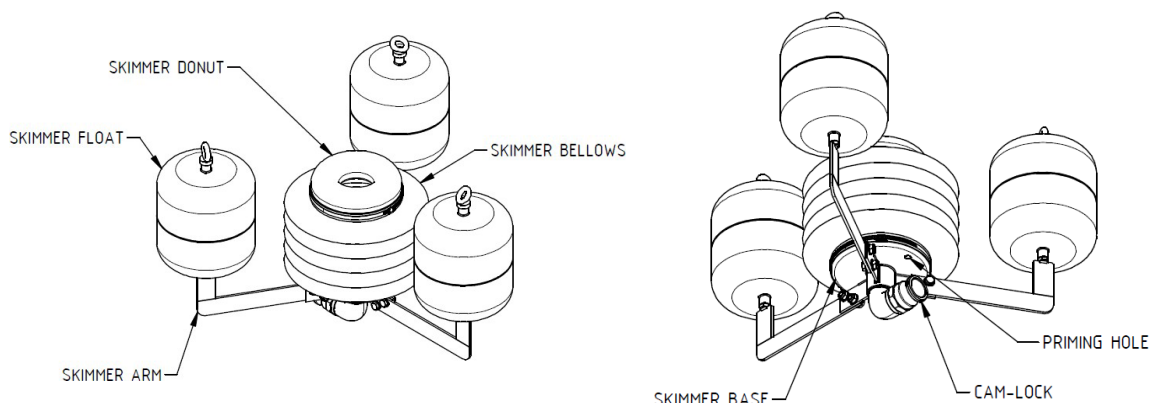
#### 1.1.1 Oil Recovery

After the skimming process it may be necessary to drain the excess water and collect concentrated oil. For this purpose, Ultraspinn can provide a Complete Skimming System. These packaged systems include a pump, skimmer, hose, and collection tank which automatically decants water back to your collection pit.

#### 1.1.2 Water Treatment Systems

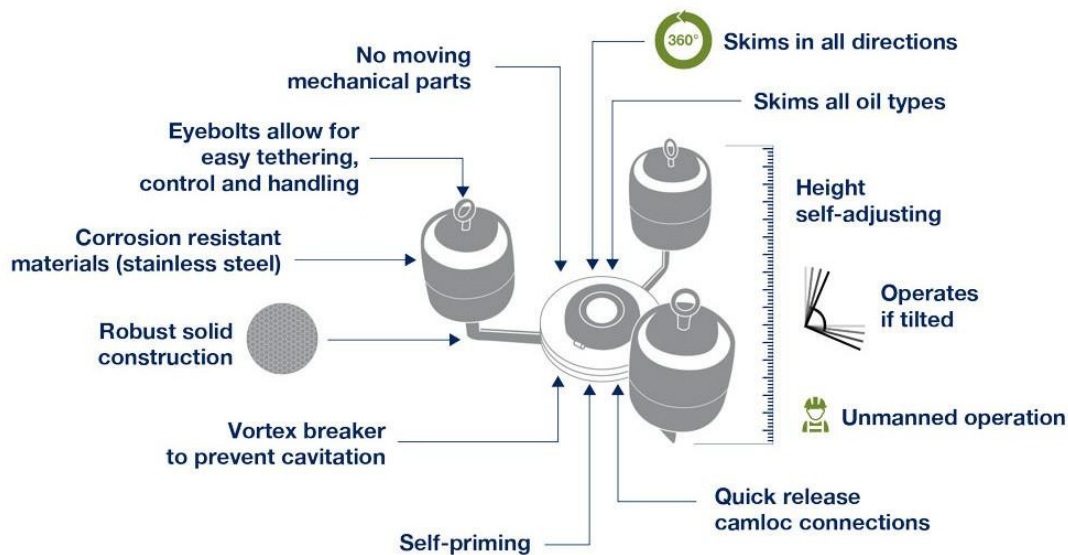
Ultraspinn Skimmers can collect all contents of an oily water pit or tank regardless of oil composition and the addition of surfactants. They do not distinguish between fluid types and collect the top layer of the fluid surface. This means that skimmers do not treat the water, but they can be used in conjunction with Ultraspinn Water treatment systems which are capable of treating oily water via powerful separation technology.

### 1.1.3 Skimmer Components



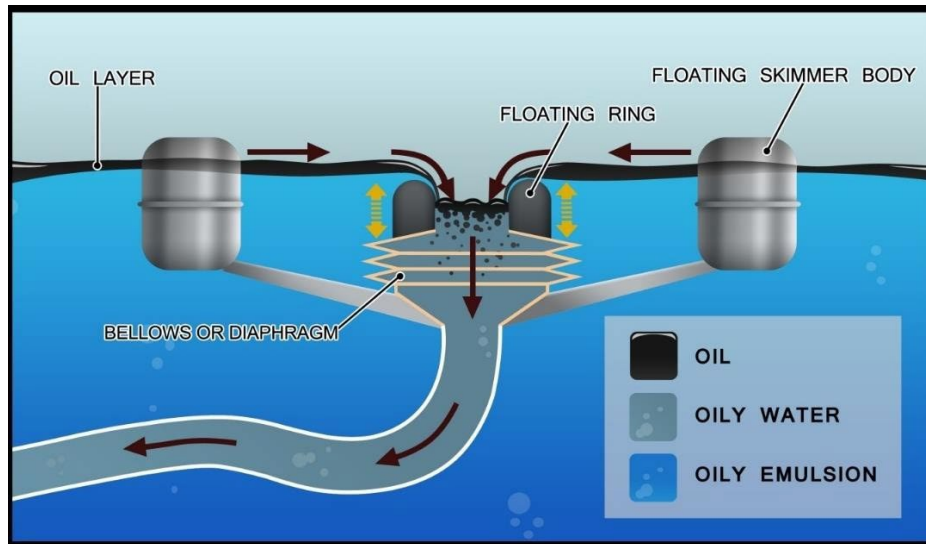
**IMPORTANT:** Tabs on the skimmer bellows have been intentionally left long. You can check if the donut and base have been clamped properly by pulling on the tabs. If the clamps are secure, then the tabs will not move. If there is movement, then tighten the clamp.

## 1.2 Skimmer Features



### 1.3 How does it work?

A pump is connected to the skimmer outlet via a suction hose. As the fluid is pumped away, the floating ring is drawn below the fluid surface. Fluid flows over the floating ring and into the chamber of the bellows or diaphragm. The skimmer bellows are fully self-adjusting, moving with the fluid surface or changes in flow rate. When tilted at an angle, the flexible bellows means that skimmer function is not impacted.



## 2 Assembly

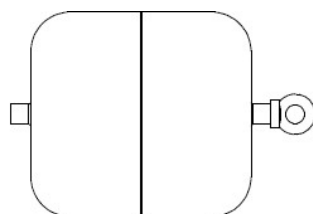


To check out our skimmers in action, watch our video at  
<http://www.ultraspin.com.au/index.php/products/oil-skimmer>

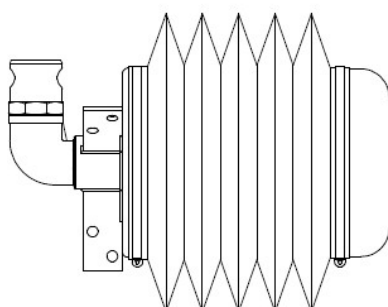
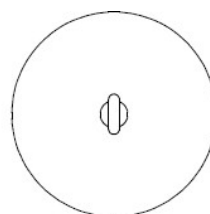
Assembly of skimmer is only required if skimmer flat pack is purchased. If assembly is required, please follow the assembly instructions for the skimmer model purchased.

### 2.1 Assembly of the S1 Skimmer

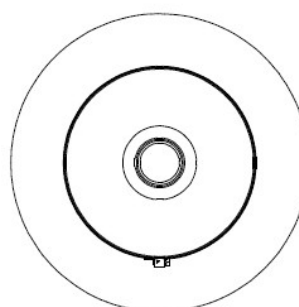
#### 2.1.1 Ultraspin Supplied Components



SKIMMER FLOAT x3



SKIMMER BASE PRE-FITTED WITH SKIMMER INTERNALS x1



SKIMMER ARM x3



M10 HEX NUT x6



M10 WASHER x12



M10 BOLT x6

#### 2.1.2 Items Required

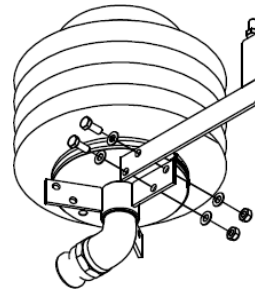
	Quantity
• 17mm ring spanner	2
• Thread locking paste (Loctite 243)	-

### 2.1.3 Assembly Procedure

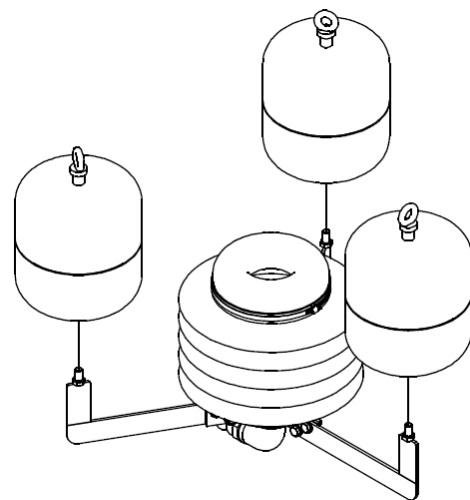


Check out our skimmer assembly video at:  
<https://www.youtube.com/watch?v=zjpKJiP-nzQ> or search  
“Ultraspin skimmer flat pack” on YouTube.

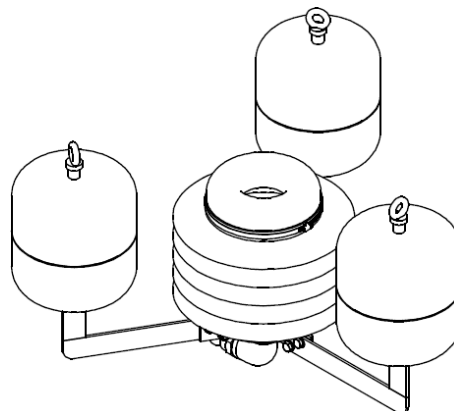
**Step 1:** Apply thread locking paste to each of the bolts. Using spanners attach the skimmer arm with the bolts, washers and nuts. Repeat for each of the arms.



**Step 2:** Apply thread locking paste to the thread of the bolt on each of the skimmer arms. Screw on the skimmer floats. Repeat for all skimmer floats.



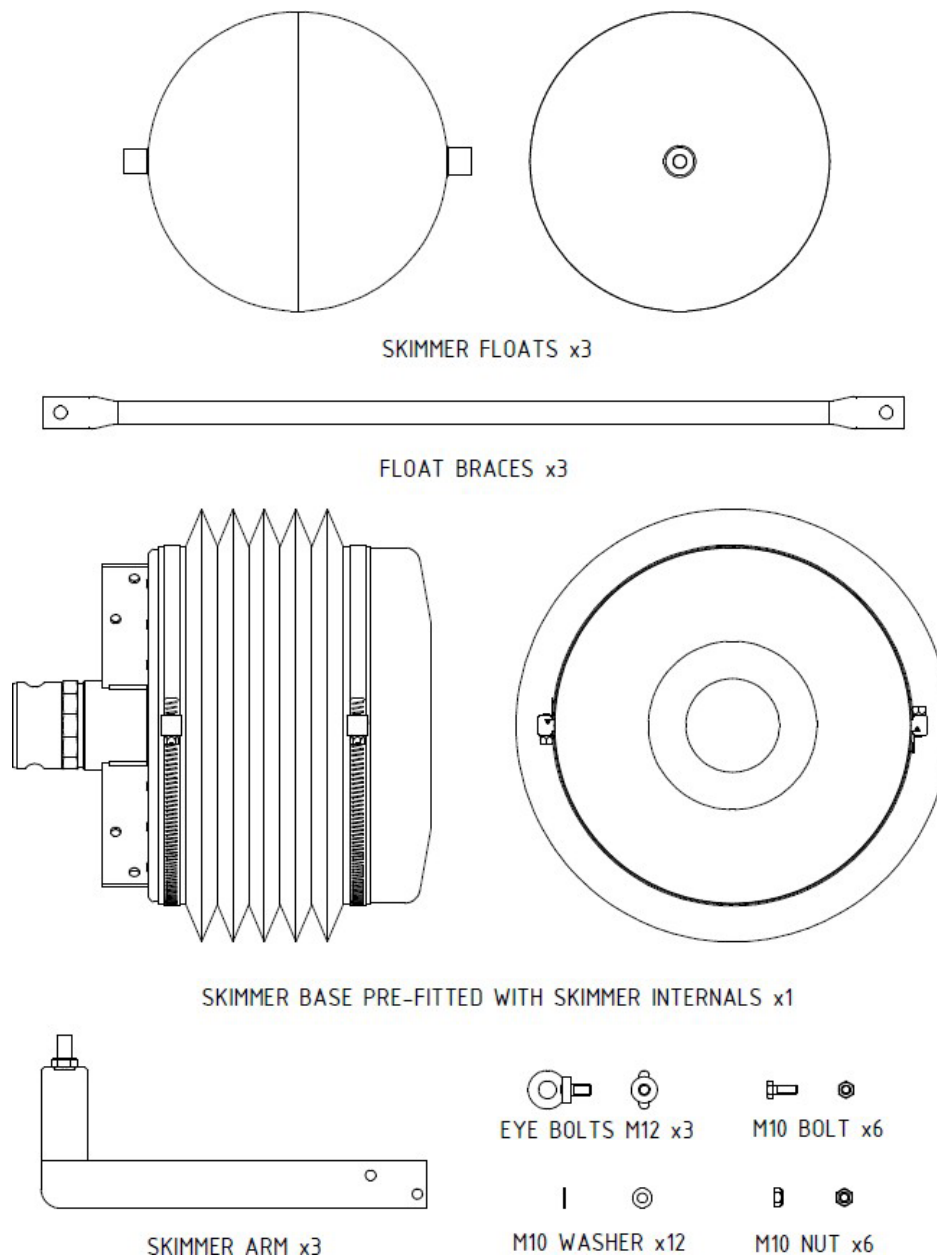
**Step 3:** Make sure all parts have been put together correctly and your skimmer is ready for installation.





## 2.2 Assembly of the S2 Skimmer

### 2.2.1 Ultraspin supplied components.

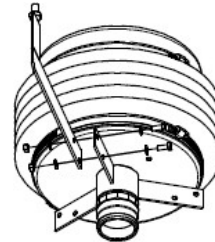


### 2.2.2 Items Required

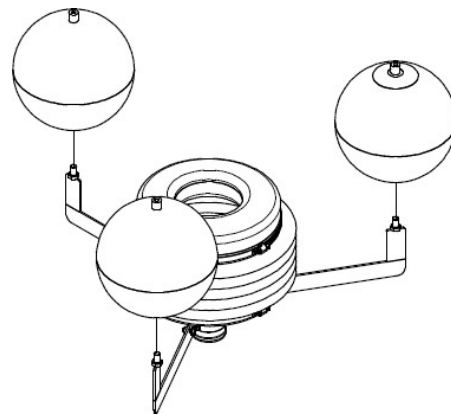
	Quantity
<ul style="list-style-type: none"> <li>17mm ring spanner</li> </ul>	2
<ul style="list-style-type: none"> <li>Thread locking paste (Loctite 243)</li> </ul>	-

### 2.2.3 Assembly Procedure

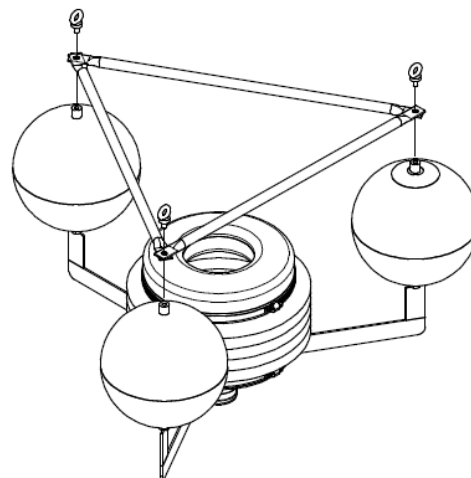
**Step 1:** Apply thread locking paste to threads of each bolt. Using the spanners attach the skimmer float arms with the bolts, flat washers and hex nuts. Repeat process for all arms, ensuring they are all level.



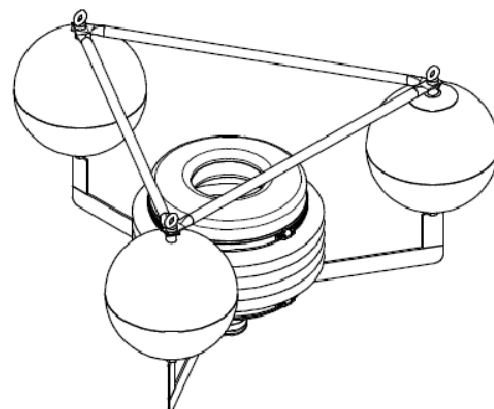
**Step 2:** Apply thread locking paste to the thread of the bolt on each of the skimmer arms. Screw on the ball floats. Repeat for all skimmer floats.



**Step 3:** Place the float braces across the top of the floats. Apply thread locking paste to the eyebolt, insert through the two float braces and screw into the ball float. Repeat process for each ball float.



**Step 4:** Ensure all parts have been put together correctly and your skimmer is ready to install.

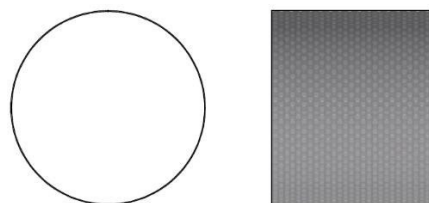


## 2.3 Assembly of the Trash Screen (Optional)

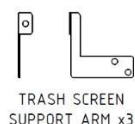
This procedure assumes you have already fully assembled your skimmer without the trash screen, refer to section 2.1 or 2.2 for skimmer assembly instructions.

### 2.3.1 Ultraspin Supplied Components

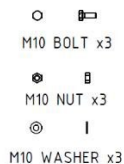
S1 Trash Screen Kit



TRASH SCREEN x 1



TRASH SCREEN  
SUPPORT ARM x3

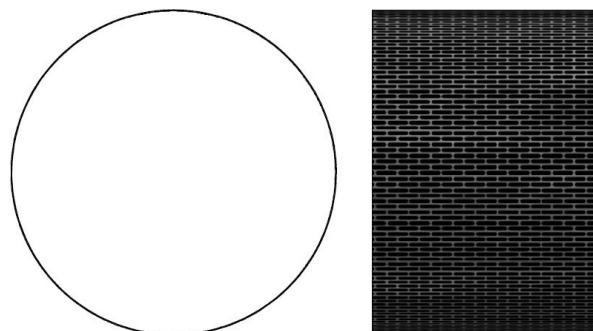


M10 BOLT x3

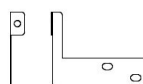
M10 NUT x3

M10 WASHER x3

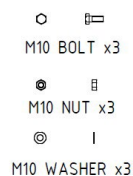
S2 Trash Screen Kit



TRASH SCREEN x1



TRASH SCREEN  
SUPPORT ARM x3



M10 BOLT x3

M10 NUT x3

M10 WASHER x3

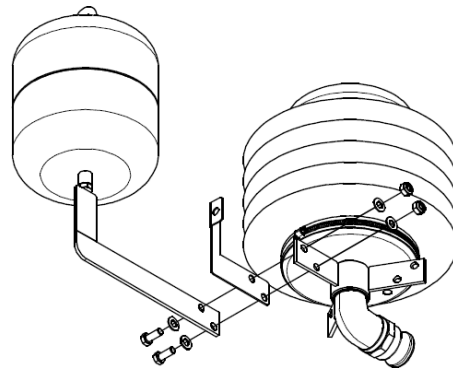
### 2.3.2 Items Required

	Quantity
• 17mm ring spanner	2
• Thread locking paste (Loctite 243)	-

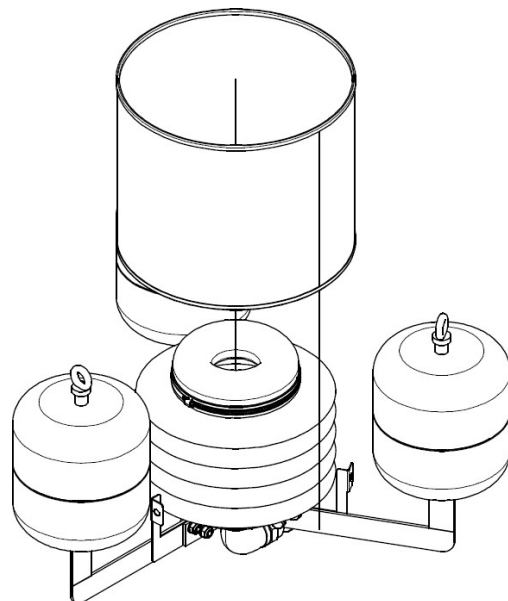
### 2.3.3 Assembly of Trash Screen

**Step 1:** Remove the skimmer arms from the skimmer base. If you have an S2 skimmer remove the float braces first.

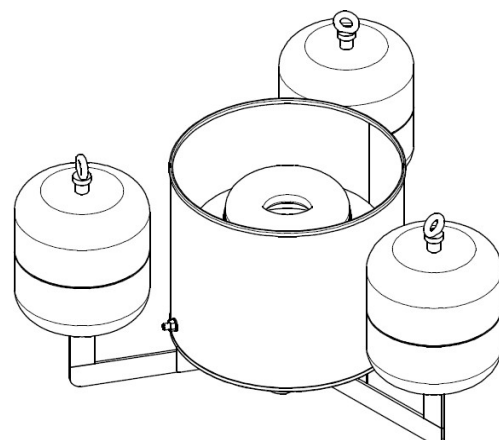
**Step 2:** Place the trash screen support arm between the skimmer arm and skimmer base. Reattach the skimmer arms using the same bolts, washers and nuts.



**Step 3:** Lower the trash screen onto the skimmer arms. Make sure all Trash screen support arms are inside the trash screen.



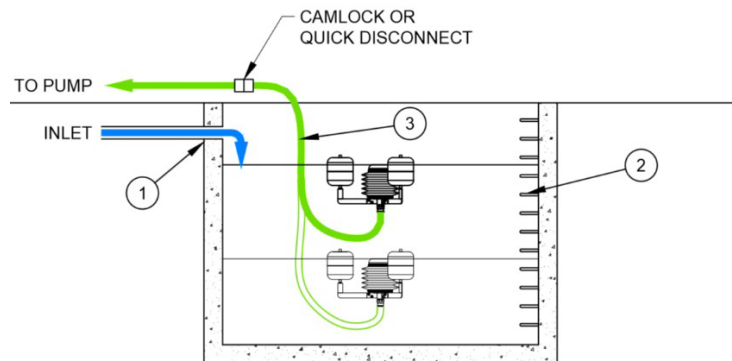
**Step 4:** Using the additional bolts provided attach the trash screen to the trash screen support arms. If you have an S2 skimmer, then reattach the float braces before installing the skimmer.



### 3 Installation of the Oil Skimmers

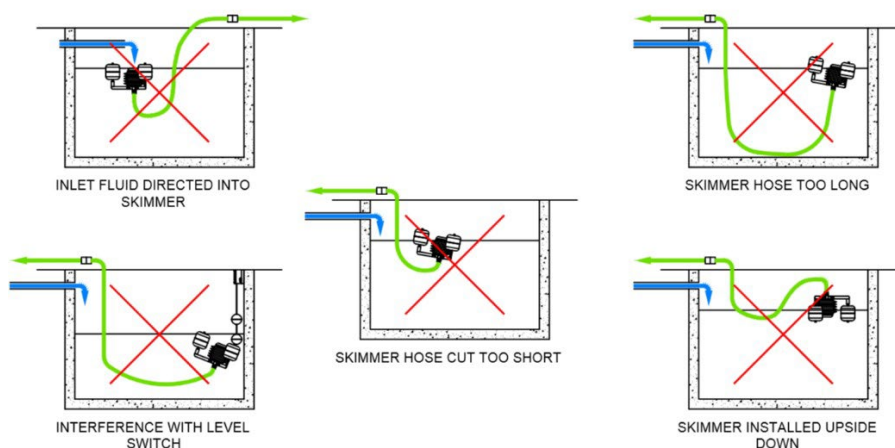
1. Connect the suction hose to the skimmer and pump.
2. Check to ensure that the tank is clear of any objects that could potentially obstruct or entangle the skimmer as the fluid level fluctuates
3. Place the skimmer into the fluid body, making sure not to hold the skimmer by the bellows.
4. Leave the skimmer to float for about 1 minute. It will fill with fluid through the priming hole in the base.
5. Once the fluid inside the skimmer donut is at the same level as the surrounding fluid, start the suction pump.
  - Correct operation causes fluid to be drawn evenly over the skimmer donut, which will submerge slightly.

#### CORRECT SKIMMER INSTALLATION: PIT



- 1: TO AVOID POTENTIAL INTERFERENCE WITH SKIMMER HOSE, THE INLET PIPE SHOULD NOT PROTRUDE INTO PIT
- 2: MAKE SURE SKIMMER IS CLEAR OF RAILS, LADDERS AND PIT MOUNTINGS AT HIGH AND LOW LIQUID LEVELS.

#### COMMON EXAMPLES OF INCORRECT SKIMMER INSTALLATIONS



### 3.1 High flow configuration

A single priming hole should be exposed in the base of the skimmer for standard operation. Additional priming holes covers can be removed should the skimmer require operation at a higher flowrate.

You should not alter the priming hole configuration as under normal conditions this is not required. Leave the priming holes configured exactly as when delivered for standard operation.

**Reasons you would not want to alter the priming configuration:**

- Impacts to skimming efficiency.
- High flow causing emulsification of oil in the suction piping and making it harder to treat.
- There are several other reasons this is not advisable.

Consult Ultraspin prior to removing any priming hole covers for guidance and recommendations on what is best suited for your situation.

**If you are advised to adjust the priming hole configuration:**

	Nominal Skimmer Flowrate (m <sup>3</sup> /hr)	
Number of open priming holes	S1	S2
1	3	15
3	7	25

\*These flowrates should be used as guidance only and depend strongly on the nature of fluid and specific site conditions.

*Table 1 Examples of different priming holes*



Note: All priming hole covers serve the same functionality despite differences in appearance

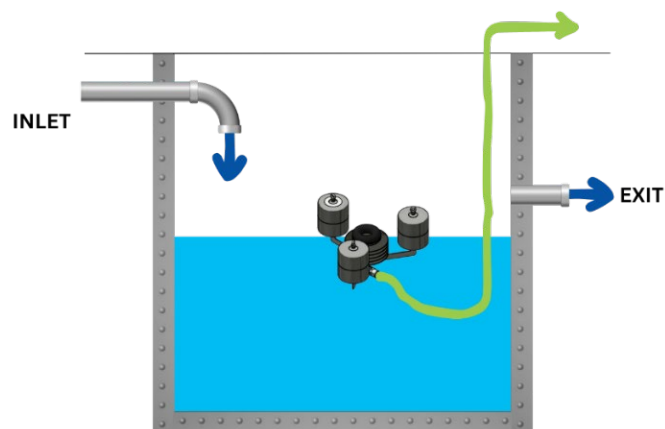


Figure 1 Batch Treatment with Oil Skimming

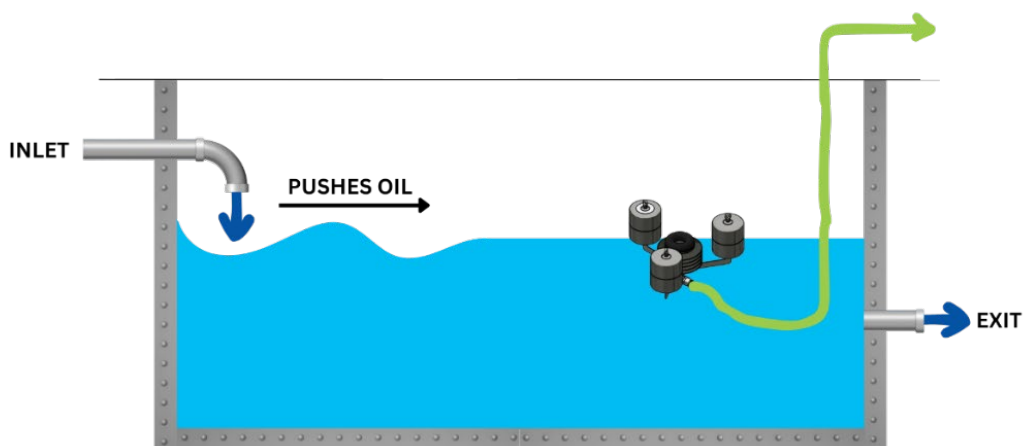


Figure 2 Inlet Feed Disturbance

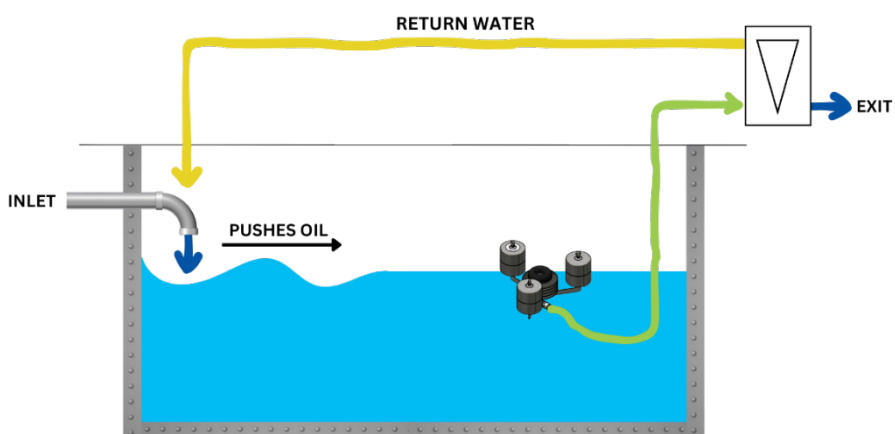


Figure 3 Ultraspin Separator Recycle



## 4 Maintenance and Servicing

### 4.1 Minor Service: Inspect and Clean

*Frequency: every 6 months*

#### 4.1.1 Order Parts

No spare parts are required for the Minor Service on an Ultraspin Skimmer unless components are damaged. If items are damaged and need replacing, please see Appendix 8.1 for Spare Parts List.

#### 4.1.2 Typical Items Required

- No items required

#### 4.1.3 Service Procedure

1. Carefully remove skimmer from the tank or pit.
2. Disconnect suction hose.
3. Wash off built up trash or sediment using a low-pressure clean water hose, taking care not to damage the bellows.
4. Check for and remove any blockages in the skimmer base hose connection and priming hole.
5. Return the skimmer to the tank or pit as per Section 3.
6. If any components are damaged, then replace them.

### 4.2 Major Service: Replace Skimmer Internals

*Frequency: every 3 years*

#### 4.2.1 Order Parts

Please refer to Appendix 8.1 for spare parts that must be replaced as part of the Major Service.

#### 4.2.2 Typical Items Required

- Flat head screwdriver

#### 4.2.3 Service Procedure

7. Carefully remove skimmer from the tank or pit.
8. Disconnect suction hose.
9. Use the screwdriver to loosen the clamp around the skimmer base.
10. Remove the skimmer internals from the base and dispose.
11. Attach the new internals to the base.
12. Fit the clamp around the bellows and base and tighten using the screwdriver.
13. Ensure that the bellows can move freely.
14. Return the skimmer to the tank or pit as per Section 3.



## 5 Skimmer Spare Parts

For the Spare Parts List for the Ultraspın Skimmers, please refer to Appendix 8.1.



To order spare parts, please contact Ultraspın on +61 3 8841 7200 or email  
[sales@ultraspın.com.au](mailto:sales@ultraspın.com.au)

## 6 Specifications

For specifications on the Ultraspin Oil Skimmers and options, including materials, dimensions, and flowrates, please refer to Appendix 8.3.

## 7 Troubleshooting Guide

The following table may provide some assistance in identifying and fixing skimmer related problems. It can be applied for both the S1 and S2 skimmer models.

Problem	Cause	Remedy
Skimmer sitting too low in fluid	Suction hose too heavy for skimmer model	Shorten hose or use hose floats
	Home-made screen weighing down skimmer	Remove home-made screen and purchase and install Ultraspin screen if required
	Built up sediment weighing down skimmer	Remove skimmer and complete 6-month maintenance
Skimmer tilted at excessive angle	Suction hose too heavy for skimmer model	Shorten hose or use hose floats
	Suction hose restricting movement of skimmer at either high or low level	Position the skimmer to allow for more freedom of movement
	Skimmer or hose stuck in sludge in bottom of pit/tank	Remove sludge from pit/tank
Skimmer weir runs dry	Skimmer is not primed before operating	Stop pump and wait for the fluid inside the skimmer donut to reach same level as surrounding fluid.
	Pump suction rate is too high	Lower suction rate (refer to section 6.1 for maximum flow rates)
	Skimmer hung up on obstruction	Position the skimmer to allow for more freedom of movement or remove obstruction
Skimmer not supplying fluid to pump	Blockage in skimmer, suction hose or piping	Backflush skimmer through pipe – taking care to remove any loosened debris
		Purchase and install a skimmer trash screen.
		Manually unblock skimmer donut
		Install adequate trash screen on inlet to pit – contact Ultraspin for recommendation
Skimmer supplying fluid but not removing surface oil layer	Weir ring sitting too low	Clean the bellows to remove built up sediment
	Holes in bellows allowing water in without donut sinking	Replace with skimmer internals kit as per 24-month service
	Damaged donut has allowed water in, making donut sink	Replace with skimmer internals kit as per 24-month service

## 8 Appendices

- Appendix 1 – Spare Parts Lists
  - SP001 - Ultraspin Oil Skimmer
- Appendix 2 – Drawings and Specifications
  - I-S-0040-01 – S1 Skimmer and Options
  - I-S-0050-01 – S2 Skimmer and Options
  - I-S-0045-01 – Oily Water Suction Hose Options and Hose Float
- Appendix 3 – Equipment Data Sheets
  - DS006 - S1 + S2 Skimmer Data Sheet

## 8.1 Appendix 1 - Spare Parts List



## Spare Parts List

### SP001 - Ultraspin Skimmer

Rev 1  
Date: 11/05/2023

#### Minor Service Spare Parts

No spare parts are required for the Minor Service on an Ultraspin Skimmer unless components are damaged.

#### Major Service Spare Parts

The following spare parts must be replaced during the Major Service.

Description	Part No. for S1 Skimmer	Part No. for S2 Skimmer
Skimmer Internals Replacement Kit - donut, bellows, rings and clamps	SUBSK026	SUBSK005

#### Other Skimmer Spare Parts

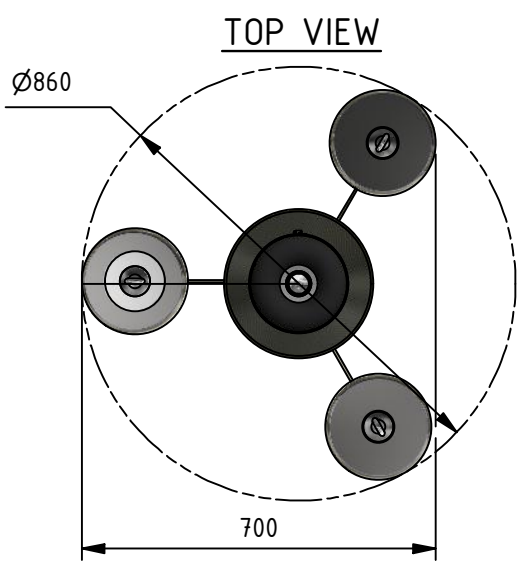
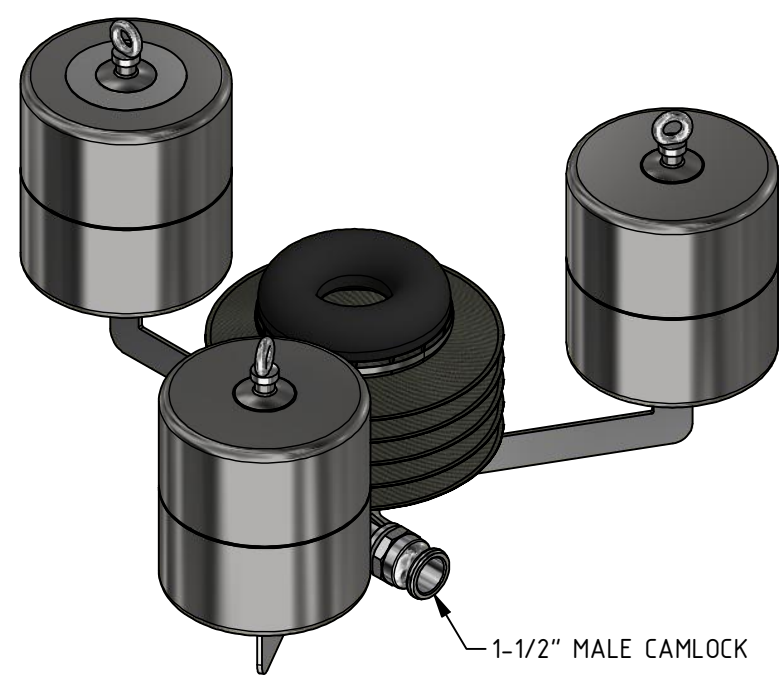
Customers may choose to purchase the following parts to:

- Upgrade the Skimmer to suit their application
- Hold them onsite to ensure parts are readily available
- Replace items in the event they become damaged

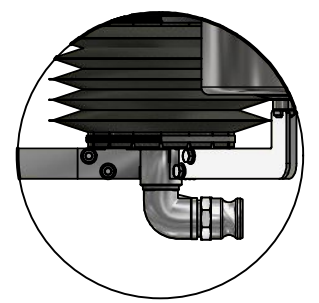
Description	Part No. for S1 Skimmer	Part No. for S2 Skimmer
Skimmer Trash screen - Stainless Steel perforated sheet	SK-SA-0021-02	SK-SA-0081-02
1-1/2 inch ID suction rated hose, 3m long, internal/external wire reinforced, camlock ends	SK-A-0030-08	-
1-1/2 inch ID suction rated hose, 6m long, internal/external wire reinforced, camlock ends	SK-A-0030-15	-
1-1/2 inch ID suction rated hose, 3m long, internal/external wire reinforced, Female camlock and Male BSP	SK-A-0030-19	-
1-1/2 inch ID suction rated hose, 6m long, internal/external wire reinforced, Female camlock and Male BSP	SK-A-0030-20	-
3 inch ID suction rated hose, 6m long, internal/external wire reinforced, camlock ends	-	SK-A-0060-07
3 inch ID suction rated hose, 6m long, internal/external wire reinforced, Female camlock and ANSI #150 Flange	-	SK-A-0060-15
Hose Float	HOS006	
Lifting Sling	SK-SA-0090-03	SK-SA-0090-04

## 8.2 Appendix 2 - Drawings and Specifications

NOT FOR CONSTRUCTION  
LAYOUT & DIMENSIONS SUBJECT TO CHANGE WITHOUT NOTICE

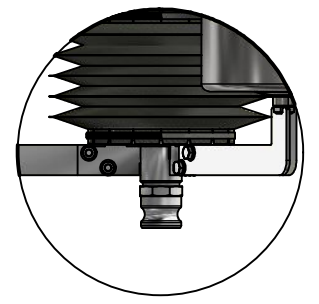


DETAIL 'A'  
OUTLET CONFIGURATION



SIDE EXIT

- MINIMUM WORKING DEPTH = 500mm
- HOSE MAY REQUIRE A HOSE FLOAT



BOTTOM EXIT

- MINIMUM WORKING DEPTH = 700mm

ULTRASPIN OIL SKIMMER  
MODEL: S1

PART NUMBER: SK-A-0020-05

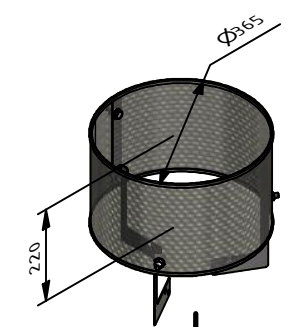
- COMES WITH FITTINGS FOR BOTH SIDE EXIT & BOTTOM EXIT CONFIGURATIONS
- STANDARD FLOW = 3.5m<sup>3</sup>/hr, CONFIGURABLE TO 7.0m<sup>3</sup>/hr
- WEIGHT: 7.5kg

MATERIALS

1. WEIR RING: MEDIUM DENSITY POLYETHYLENE
2. FLOATS: STAINLESS STEEL Gr.304
3. FRAME & FASTENERS: STAINLESS STEEL Gr.316/Gr.304
4. BELLWS: POLYETHYLENE POLYFABRIC (UV STABILIZED)
5. BELLWS SUPPORT RINGS: LOW DENSITY POLYETHYLENE
6. BELLWS CLAMP: STAINLESS STEEL Gr.304
7. CAMLOCK HOSE CONNECTION: STAINLESS STEEL Gr.316

ALTERNATIVE MATERIALS AVAILABLE ON REQUEST

OPTIONAL ACCESSORIES



TRASH SCREEN

PART NUMBER: SK-SA-0021-02

- PERFORATED SHEET, Ø15.0 OPENINGS
- WEIGHT: 2.5kg

MATERIALS:

1. SCREEN: STAINLESS STEEL Gr.304
2. SUPPORTS: STAINLESS STEEL Gr.304
3. FASTENERS: STAINLESS STEEL Gr.316
4. RUBBER EDGE: PVC RUBBER



RIGID LIFTING SLING

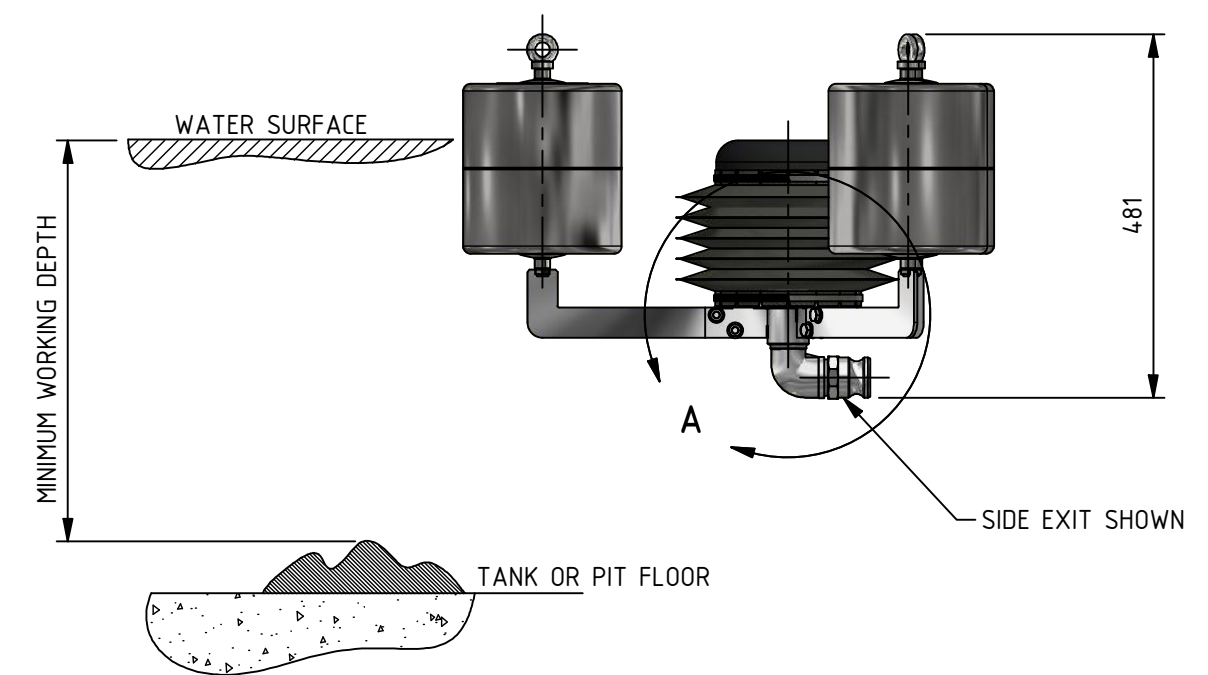
PART No: SK-SA-0090-03

- FOR USE WITH SKIMMER DAVIT CRANE, SK-SA-0090-01 (NOT SHOWN)

MATERIALS

1. CABLES: STAINLESS STEEL Gr.316
2. SHACKLES: STAINLESS STEEL Gr.316

SKIMMER APPLICATION



NOTE: ALLOW FOR SILT AND DEBRIS WHEN DETERMINING WORKING DEPTH

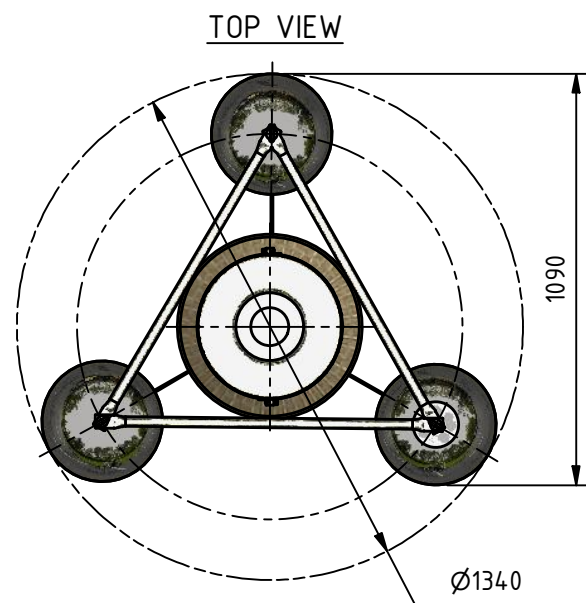
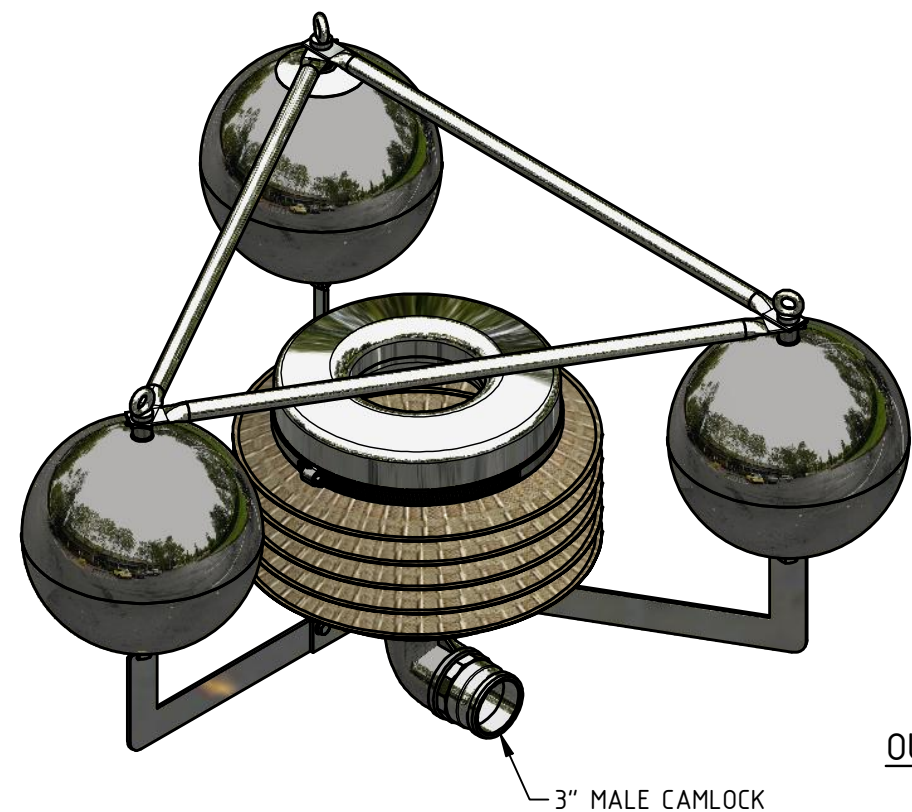
REV	DESCRIPTION	DRAWN	CHKD	DATE	DO NOT SCALE IF IN DOUBT - ASK	CONFIDENTIAL				
A1	ORIGINAL ISSUE	GDS	C.S.	29-May-20	UNLESS OTHERWISE STATED ALL DIMENSIONS IN MILLIMETRES THIRD ANGLE PROJECTION 	TITLE				
A2	NOTES REVISED, OUTLET CONFIG VIEWS REVISED	GDS	C.S.	21-Oct-20		OIL SKIMMER & ACCESSORIES MODEL: S1				
					CHANGES ON THIS DRAWING MAY BE RECORDED IN TWO PARTS: eg A1, A2 A,B,C: DENOTES A 3D-CAD CHANGE 1,2,3: DENOTES A DRAWING FACE CHG THAT DOESN'T AFFECT THE 3D-CAD	CLIENT				
						TYPICAL				
						SCALE	SIZE	DRG No.	SHEET	REV
						NTS	A3	SK-A-0020-05/SD	1 of 1	A2

**ultraspin**<sup>®</sup>  
ULTRASPIN TECHNOLOGY PTY LTD  
46 WADHURST DRIVE, BORONIA, VIC. 3155  
PH: +61 3 8841 7200 www.ultraspin.com.au

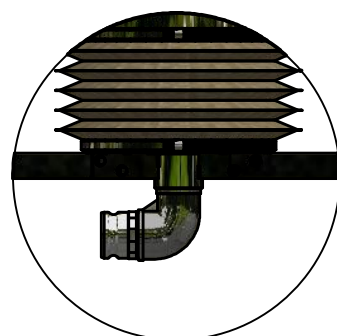
THIS DRAWING IS THE PROPERTY OF ULTRASPIN TECHNOLOGY Pty. Ltd. AND MUST NOT BE USED OR COPIED WITHOUT THEIR WRITTEN PERMISSION. FEATURES OF THE ULTRASPIN PRODUCTS AND PROCESSES SHOWN ARE PATENTED OR PATENT PENDING. PROCESSES AND EQUIPMENT DESCRIBED MUST NOT BE USED WITHOUT PRIOR WRITTEN CONSENT FROM ULTRASPIN. TM-TRADE MARK OF ULTRASPIN TECHNOLOGY Pty. Ltd.



NOT FOR CONSTRUCTION  
LAYOUT & DIMENSIONS SUBJECT TO CHANGE WITHOUT NOTICE

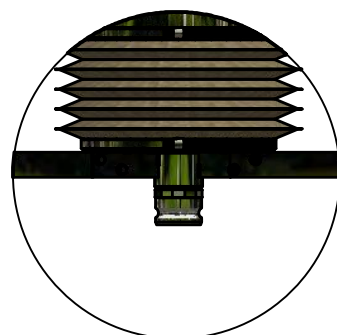


DETAIL 'A'  
OUTLET CONFIGURATION



SIDE EXIT

- MINIMUM WORKING DEPTH = 650mm
- MAY REQUIRE A HOSE FLOAT



BOTTOM EXIT

- MINIMUM WORKING DEPTH = 1150mm

## ULTRASPIN OIL SKIMMER MODEL: S2

PART NUMBER: SK-A-0080-07

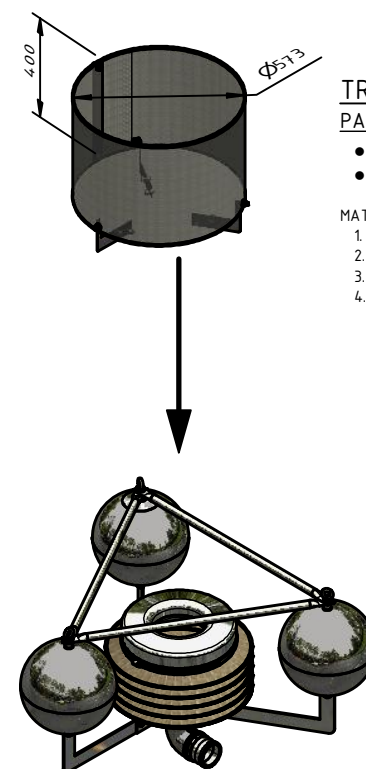
- COMES WITH FITTINGS FOR BOTH SIDE EXIT & BOTTOM EXIT CONFIGURATIONS
- STANDARD FLOW = 15m<sup>3</sup>/hr, CONFIGURABLE TO 25m<sup>3</sup>/hr
- WEIGHT: 25kg

### MATERIALS

1. WEIR RING: STAINLESS STEEL Gr.316
2. FLOATS: STAINLESS STEEL Gr.304
3. FRAME & FASTENERS: STAINLESS STEEL Gr.316
4. BELLWS: POLYETHYLENE POLYFABRIC (UV STABILIZED)
5. BELLWS SUPPORT RINGS: LOW DENSITY POLYETHYLENE
6. BELLWS CLAMP: STAINLESS STEEL Gr.304
7. CAMLOCK HOSE CONNECTION: STAINLESS STEEL Gr.316

ALTERNATIVE MATERIALS AVAILABLE ON REQUEST

## OPTIONAL ACCESSORIES



### TRASH SCREEN

PART NUMBER: SK-SA-0081-02

- PERFORATED SHEET, Ø15 HOLES
- WEIGHT: 5kg

#### MATERIALS:

1. SCREEN: STAINLESS STEEL Gr.304
2. SUPPORTS: STAINLESS STEEL Gr.304
3. FASTENERS: STAINLESS STEEL Gr.316
4. RUBBER EDGE: PVC RUBBER



### LIFTING SLING

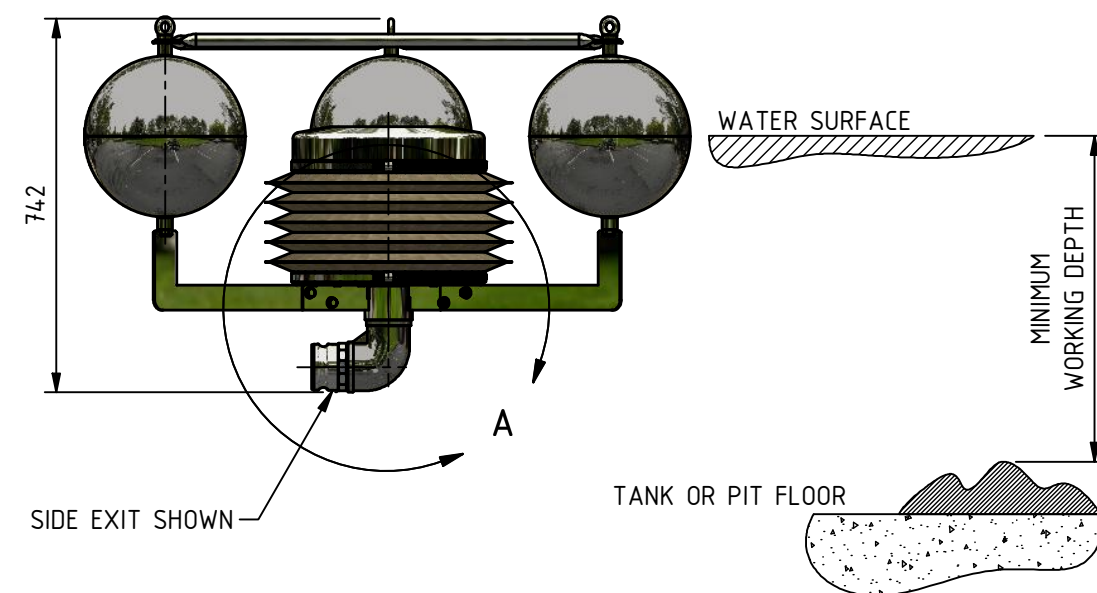
PART NUMBER: SK-SA-0090-04

- FOR USE WITH SKIMMER DAVIT CRANE SK-SA-0090-01 (NOT SHOWN)

#### MATERIALS:

1. CABLES: STAINLESS STEEL Gr.316
2. SHACKLES: STAINLESS STEEL Gr.316

## SKIMMER APPLICATION



NOTE: ALLOW FOR SILT AND DEBRIS  
WHEN DETERMINING CLEAR WORKING DEPTH

REV	DESCRIPTION	DRAWN	CHKD	DATE	DO NOT SCALE IF IN DOUBT - ASK
10	LAYOUT UPDATED FOR CLARITY	L.P.	G.P.	14-Dec-18	UNLESS OTHERWISE STATED ALL DIMENSIONS IN MILLIMETRES THIRD ANGLE PROJECTION
M1	REV SCHEMA CHG'D TO MODEL/DRG, DOC No DELETED				
M1	BELLWS REMODELLED & REVISED	GDS	I.S.	01-Mar-19	CHANGES ON THIS DRAWING MAY BE RECORDED IN TWO PARTS: eg A1, A2 A,B,C: DENOTES A 3D-CAD CHANGE 1,2,3: DENOTES A DRAWING FACE CHG THAT DOESN'T AFFECT THE 3D-CAD
M2	TYPE 1 BASE: MIN WORKING DEPTH ADDED	GDS	L.P.	22-Mar-19	
P1	REDRAWN & REVISED TO SUIT SALES REQUIREMENTS	GDS	C.S.	29-May-20	
P2	NOTES REVISED, OUTLET CONFIG VIEWS REVISED	GDS	C.S.	21-Oct-20	

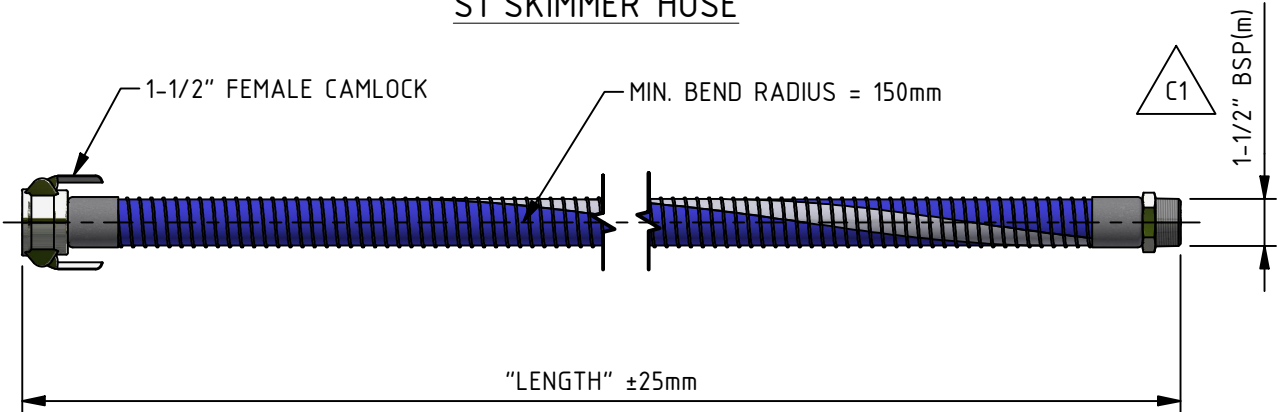


THIS DRAWING IS THE PROPERTY OF ULTRASPIN TECHNOLOGY Pty. Ltd. AND MUST NOT BE USED OR COPIED WITHOUT THEIR WRITTEN PERMISSION. FEATURES OF THE ULTRASPIN PRODUCTS AND PROCESSES SHOWN ARE PATENTED OR PATENT PENDING. PROCESSES AND EQUIPMENT DESCRIBED MUST NOT BE USED WITHOUT PRIOR WRITTEN CONSENT FROM ULTRASPIN. TM-TRADE MARK OF ULTRASPIN TECHNOLOGY Pty. Ltd.

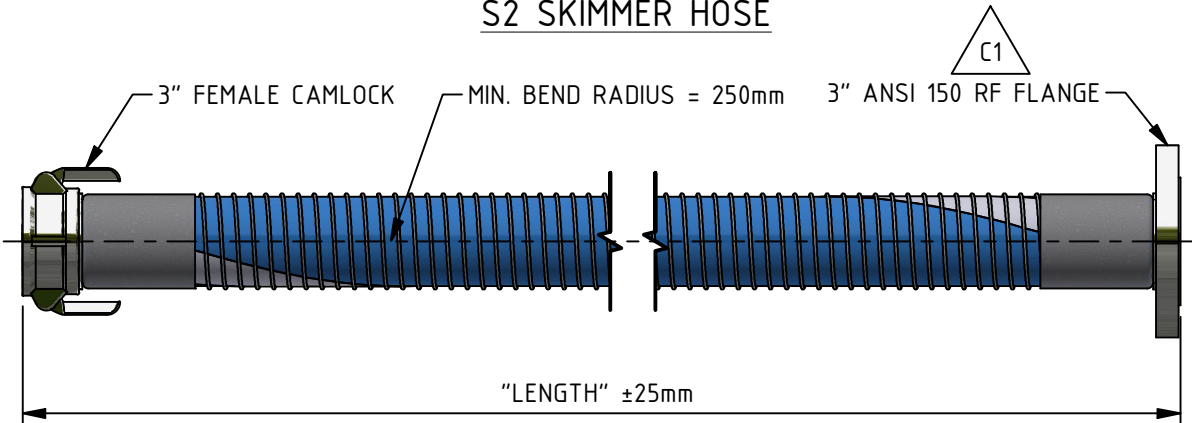
CONFIDENTIAL					
TITLE					
OIL SKIMMER & ACCESSORIES MODEL: S2					
CLIENT					
TYPICAL					
SCALE	SIZE	DRG No.	SHEET	REV	
NTS	A3	SK-A-0080-07/SD	1 of 1	P2	

COMPOSITE SUCTION HOSES

S1 SKIMMER HOSE



S2 SKIMMER HOSE

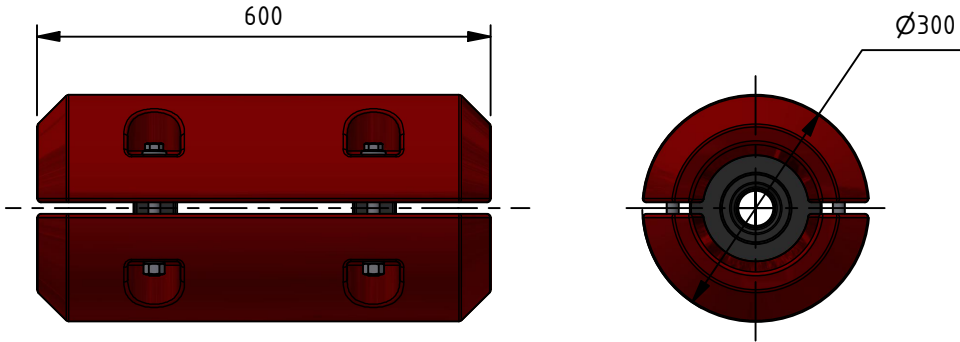


S2	SK-A-0060-15	3"	6m	20kg
S1	SK-A-0030-20	1-1/2"	6m	10kg
S1	SK-A-0030-19	1-1/2"	3m	5kg
SKIMMER MODEL	PART NUMBER	DIAMETER	LENGTH	WEIGHT

- MATERIALS:
- CAMLOCKS & FERRULES: STAINLESS STEEL Gr.316
  - CAMLOCK SEAL: NITRILE
  - HOSE FABRIC: ABRASION & HYDROCARBON RESISTANT PVC
  - INNER & OUTER REINFORCING WIRES: GALVANISED MILD STEEL

REV	DESCRIPTION	DRAWN	CHKD	DATE	DO NOT SCALE IF IN DOUBT - ASK
A1	ORIGINAL ISSUE	GDS	C.S.	29-May-20	<div>UNLESS OTHERWISE STATED ALL DIMENSIONS IN MILLIMETRES THIRD ANGLE PROJECTION</div> <div></div> <div>CHANGES ON THIS DRAWING MAY BE RECORDED IN TWO PARTS: eg A1, A2 A,B,C: DENOTES A 3D-CAD CHANGE 1,2,3: DENOTES A DRAWING FACE CHG THAT DOESN'T AFFECT THE 3D-CAD</div>
B1	HOSE ONLY ISO VIEWS DEL, APPLIC: S2 SKIMMER & HOSE ADD	GDS	C.S.	21-Oct-20	
C1	S1 HOSE: 1-1/2" BSP(m) WAS 3" CAMLOCK(f)				
C1	S2 HOSE: 3" ANSI 150 RF FLANGE WAS 3" CAMLOCK(f)	GDS	C.S.	07-Sep-22	

OPTIONAL ACCESSORIES



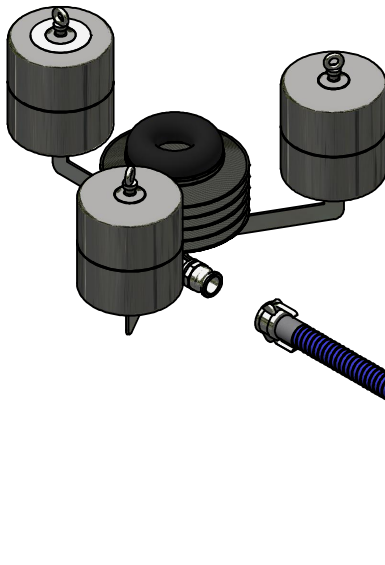
HOSE FLOAT

PART NUMBER: HOS006  
FLOAT IS COMPATIBLE WITH 1-1/2" TO 3" HOSES  
WEIGHT: 10kg

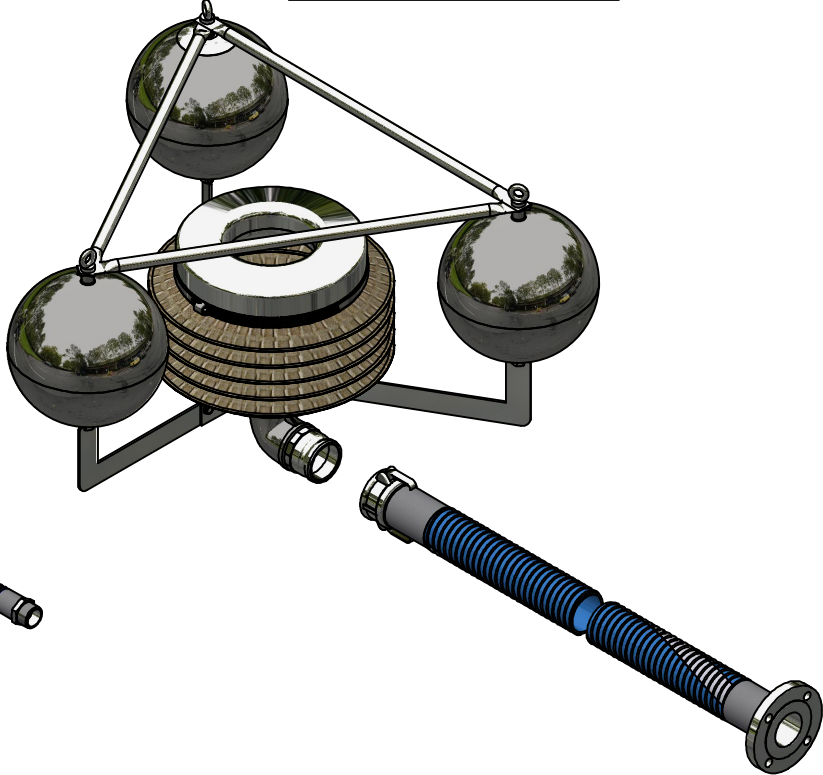
- MATERIALS:
- BODY: UV-RESISTANT POLYETHYLENE
  - FASTNERS: STAINLESS STEEL Gr.304
  - HOSE SLEEVE: NITRILE

HOSE APPLICATION

S1 SKIMMER & HOSE



S2 SKIMMER & HOSE



NOTE: HOSES ARE MULTI-PURPOSE & CAN BE USED ON OTHER APPLICATIONS

ULTRASPIN TECHNOLOGY PTY LTD  
46 WADHURST DRIVE, BORONIA, VIC. 3155  
PH: +61 3 8841 7200 www.ultraspin.com.au

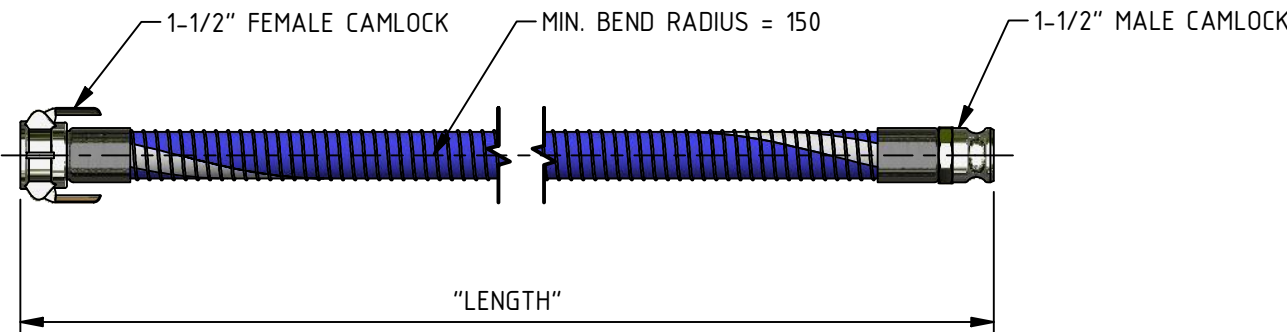
THIS DRAWING IS THE PROPERTY OF ULTRASPIN TECHNOLOGY Pty. Ltd. AND MUST NOT BE USED OR COPIED WITHOUT THEIR WRITTEN PERMISSION. FEATURES OF THE ULTRASPIN PRODUCTS AND PROCESSES SHOWN ARE PATENTED OR PATENT PENDING. PROCESSES AND EQUIPMENT DESCRIBED MUST NOT BE USED WITHOUT PRIOR WRITTEN CONSENT FROM ULTRASPIN. TM-TRADE MARK OF ULTRASPIN TECHNOLOGY Pty. Ltd.

CONFIDENTIAL				
TITLE				
OILY WATER SUCTION HOSE OPTIONS AND HOSE FLOAT				
CLIENT				
TYPICAL				
SCALE	SIZE	DRG No.	SHEET	REV
NTS	A3	SKIMMER HOSES/SD	1 of 1	C1

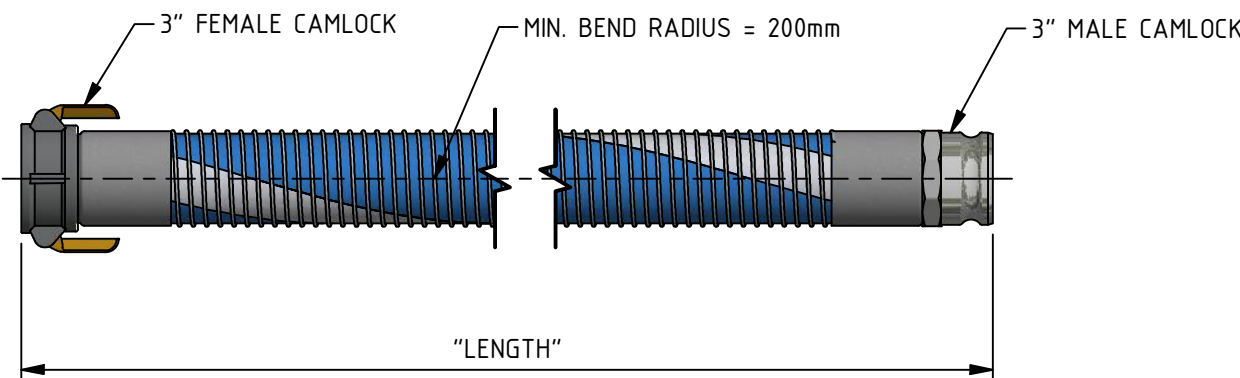


COMPOSITE SUCTION HOSES

S1 SKIMMER HOSE



S2 SKIMMER HOSE

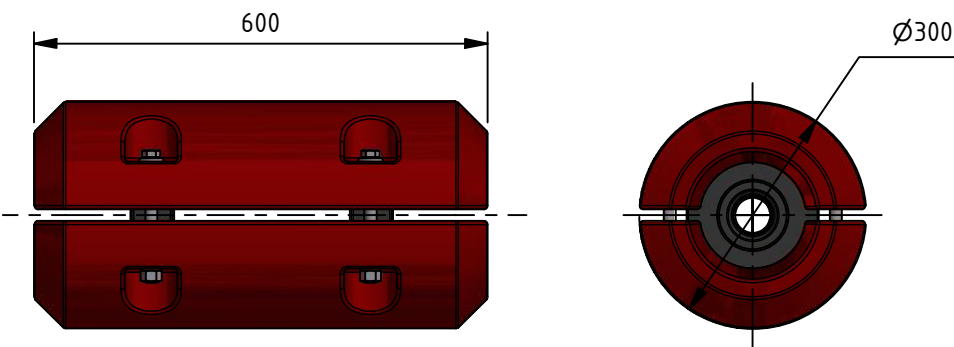


S2	SK-A-0060-07	3"	6m	20kg
S1	SK-A-0030-15	1-1/2"	6m	10kg
S1	SK-A-0030-08	1-1/2"	3m	5kg
SKIMMER MODEL	PART NUMBER	DIAMETER	LENGTH	WEIGHT

- MATERIALS:
1. CAMLOCKS & FERRULES: STAINLESS STEEL Gr.316
  2. CAMLOCK SEAL: NITRILE
  3. HOSE FABRIC: ABRASION RESISTANT PVC
  4. INNER & OUTER REINFORCING WIRES: GALVANISED MILD STEEL

REV	DESCRIPTION	DRAWN	CHKD	DATE	DO NOT SCALE IF IN DOUBT - ASK
A1	ORIGINAL ISSUE	GDS	C.S.	29-May-20	UNLESS OTHERWISE STATED ALL DIMENSIONS IN MILLIMETRES THIRD ANGLE PROJECTION
B1	HOSE ONLY ISO VIEWS DEL, APPLIC: S2 SKIMMER & HOSE ADD	GDS	C.S.	21-Oct-20	
					CHANGES ON THIS DRAWING MAY BE RECORDED IN TWO PARTS: eg A1, A2 A,B,C: DENOTES A 3D-CAD CHANGE 1,2,3: DENOTES A DRAWING FACE CHG THAT DOESN'T AFFECT THE 3D-CAD

OPTIONAL ACCESSORIES



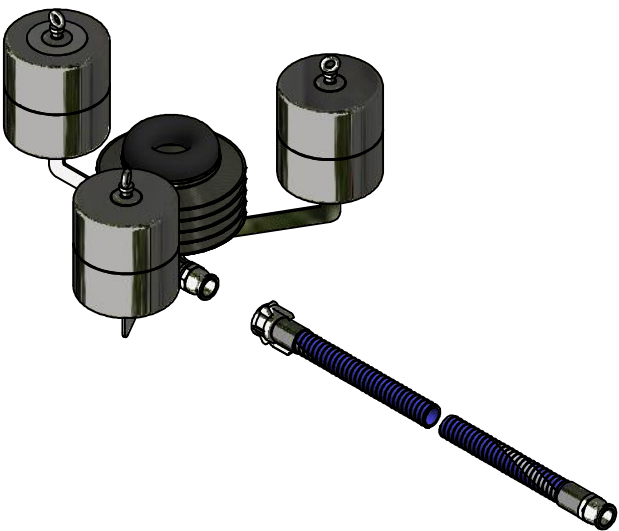
HOSE FLOAT

PART NUMBER: HOS006  
FLOAT IS COMPATIBLE WITH BOTH HOSE SIZES  
WEIGHT: 10kg

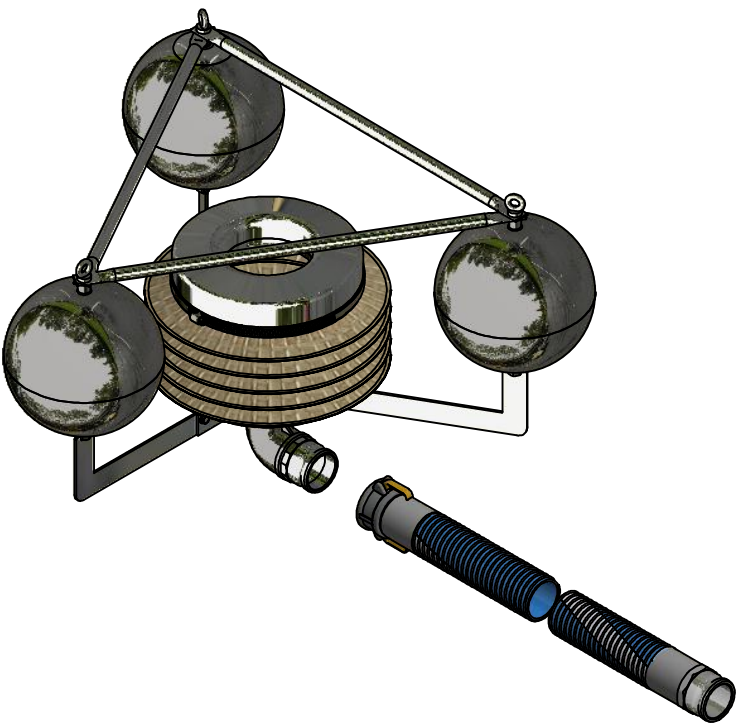
- MATERIALS:
1. BODY: UV-RESISTANT POLYETHYLENE
  2. FASTNERS: STAINLESS STEEL Gr.304

HOSE APPLICATION

S1 SKIMMER & HOSE



S2 SKIMMER & HOSE



NOTE: HOSES ARE MULTI-PURPOSE & CAN BE USED  
ON OTHER APPLICATIONS WITH CAMLOCK FITTINGS

**ultraspin**<sup>®</sup>  
ULTRASPIN TECHNOLOGY PTY LTD  
46 WADHURST DRIVE, BORONIA, VIC. 3155  
PH: +61 3 8841 7200 www.ultraspin.com.au

THIS DRAWING IS THE PROPERTY OF ULTRASPIN TECHNOLOGY Pty. Ltd.  
AND MUST NOT BE USED OR COPIED WITHOUT THEIR WRITTEN PERMISSION.  
FEATURES OF THE ULTRASPIN PRODUCTS AND PROCESSES SHOWN ARE  
PATENTED OR PATENT PENDING. PROCESSES AND EQUIPMENT DESCRIBED  
MUST NOT BE USED WITHOUT PRIOR WRITTEN CONSENT FROM ULTRASPIN.  
TM-TRADE MARK OF ULTRASPIN TECHNOLOGY Pty. Ltd.

CONFIDENTIAL				
TITLE OILY WATER SUCTION HOSE OPTIONS AND HOSE FLOAT				
CLIENT TYPICAL				
SCALE NTS	SIZE A3	DRG No. SKIMMER HOSES/SD	SHEET 1 of 1	REV B1

### 8.3 Appendix 3 - Equipment Data Sheets



# EQUIPMENT DATA SHEET

Data Sheet No:

DS006

Equipment Name:

S1 + S2 Skimmer

It.No	DESCRIPTION	Units	S1 Skimmer	S2 Skimmer	Rev
1	Manufacturer		Ultraspin Technology Pty. Ltd		0
2	Skimmer type		Floating weir		0
3	Nominal maximum flow	m <sup>3</sup> /hr	3.5 (standard), 7.0 (configurable <sup>4</sup> )	15 (standard), 25 (configurable <sup>4</sup> )	2
<b>SPECIFICATIONS</b>					
4	Fluid temperature range	°C	5-45		0
5	pH		5 to 9		0
6	Minimum working depth	mm	500-700 depending on configuration	650 - 1150 depending on configuration	2
<b>DIMENSIONS</b>					
7	Outside diameter	mm	710	1202	0
8	Depth	mm	442	742	0
9	Dry Weight	kg	7.5	25	0
8	Connection size/type	DN/type	40 NB camlock (m)	80 NB camlock (m)	0
10	Nominal hose size	mm	40	80	0
<b>MATERIALS OF CONSTRUCTION</b>					
11	Bellows		UV stabilised polyethylene weave		0
12	Floating donut		UV stabilised polyethylene	316 stainless steel	1
13	Floats		304 stainless steel		0
14	Body + Arms		316 stainless steel		0
15	Fasteners		316 stainless steel		0
16	Bellows support rings		Low density polyethylene tube		0

## Notes:

- 1) This document should be read in conjunction with the relevant Ultraspin drawings
- 2) This is typical data only and is subject to change without notice
- 3) If there is any discrepancy between the drawings and this data sheet please notify Ultraspin immediately
- 4) High-flow configuratins are possible, please see MAN003 and contact Ultraspin Technology

REV	Description of Changes	Prepared by	Approved by	Date
A	Document created	ZV	IS	1/02/2018
0	Updates for clarity	ZV	IS	14/05/2018

It.No	DESCRIPTION	Units	S1 Skimmer	S2 Skimmer	Rev
1	Floating donut material updated	IS	IS	5/09/2018	
2	Min working depth, flows updated	MK	MK	8/07/2019	