



EDITION 0918

# Thermoplastic Industrial Hoses

## SOLARGUARD™

ADVANCED UV PROTECTION

**Liquid Suction and  
Material Handling  
Hoses with Advanced  
UV Protection.**

*Lasts Longer – Twice the life!†*

*Maintains Flexibility*

*“Safety Yellow” Color*



**AMPH-SLR™ Series**



**WST-SLR™ Series**



**SLR™ Series**



**SG™ Series**



**Kuriyama of America, Inc.**



† On average, when exposed to high amounts of UV light.



ABRASION  
RESISTANT PLUS



OIL  
RESISTANT



STATIC  
DISSIPATIVE



WATER

# Amphibian™ SOLARGUARD™

ADVANCED UV PROTECTION

## AMPH-SLR™ Series

Heavy Duty Polyurethane Lined  
Wet or Dry Material Handling  
Hose with High UV Resistance

### General Applications:

- Hydroexcavation
- Industrial vacuum equipment
- Material handling – heavy duty abrasive
- Sewer truck boom hose
- Slurry handling

**Construction:** PVC cover with polyurethane liner, PVC helix and grounding wire

**Service Temperature:** -4°F (-20°C) to 150°F (+65°C)\*

### Features and Advantages:

- **Thick Amphibian™ Abrasion Resistant Polyurethane Liner** – Designed for wet or dry applications where severe abrasion is a factor. Provides longer life and lower operating costs versus similar rubber or PVC hoses.
- **Advanced UV Protection!** – The hose material is specially formulated to resist the cracking that can result from exposure to damaging UV light. Our tests show the Solarguard material retained 97% of its original tensile strength after prolonged UV exposure, compared to only 55% tensile strength retention for similar PVC hoses.†
- **Grounding Wire (6" and 8" only)** – Multi-strand wire helps prevent the build-up of static electricity for added safety and to help keep material flowing smoothly.
- **“Safety Yellow” Color** – For high visibility on site. Reduces risk of tripping or driving over hose.
- **Convuluted Outer Cover** – Provides increased hose flexibility.
- **Phthalate Free**



### Nominal Specifications

Series	ID (in)	ID (mm)	OD (in)	OD (mm)	Working Pressure (psi)		Vacuum Rating (in. Hg)		Min. Bending Radius (in. @ 68°F)	Standard Length (ft.)	Weight (lbs/ft.)
					68°F	104°F	68°F	104°F			
AMPH-SLR300	3	76.2	3.65	92.6	40	20	Full	28	6	100	1.18
AMPH-SLR600	6	153.4	7.00	177.8	30	15	28	25	18	100/20	4.14
AMPH-SLR800	8	204.8	9.15	232.4	22	15	26	25	22	60/21	6.49

\*Actual service temperature range is application dependent.

† This information is based on independent third party test reports which are, to the best of our knowledge, complete and accurate. However, no warranty is expressed or implied, as specific application parameters such as temperature, stress and strain, and chemical exposure vary widely.

⚠ **CAUTION:** Certain sizes of this product are designed to dissipate static electricity when the embedded grounding wire is physically extracted and securely connected to ground, through the fitting or by other means.

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.



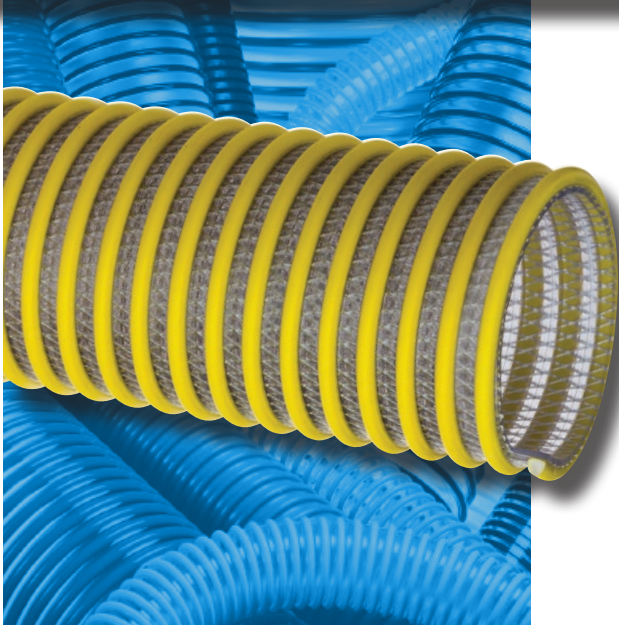
EASY SLIDE



TRANSPARENT CONSTRUCTION



WATER



# SOLARGUARD™ ADVANCED UV PROTECTION

## WST-SLR™ Series

### Heavy Duty PVC Fabric Reinforced Suction & Discharge Hose with High UV Resistance

#### General Applications:

- Fish suction
- Irrigation lines
- Pumps, rental and construction dewatering
- Pumps, trash
- Suction and discharge
- Water suction – heavy duty

**Construction:** Double-ply PVC tube, polyester fabric reinforcement and rigid PVC helix.

**Service Temperature:** -4°F (-20°C) to 150°F (+65°C)\*

#### Features and Advantages:

- **Advanced UV Protection!** – The hose material is specially formulated to resist the cracking that can result from exposure to damaging UV light. Our tests show the Solarguard material retained 97% of its original tensile strength after prolonged UV exposure, compared to only 55% tensile strength retention for similar PVC hoses.†
- **Advanced Transparent UV Protected Construction** – “See-the-flow.” Allows for visual confirmation of material flow.
- **Fabric Reinforcement** – High tensile strength polyester yarn jacket to handle both suction and higher pressure discharge applications.
- **Easy Slide “Safety Yellow” Helix** – Highly visible yellow color helps to easily identify hose. Rigid helix design protects hose tube from cover wear and allows hose to slide easily over rough surfaces.
- **Phthalate Free**

#### Nominal Specifications

Series	ID (in)	ID (mm)	OD (in)	OD (mm)	Working Pressure (psi)		Vacuum Rating (in. Hg)		Min. Bending Radius (in. @ 68°F)	Standard Length (ft.)	Weight (lbs/ft.)
					68°F	104°F	68°F	104°F			
WST-SLR150	1-1/2	38.1	1.95	49.5	110	70	Full	28	2.5	100	0.42
WST-SLR200	2	50.8	2.60	66.0	100	65	Full	28	4	100	0.74
WST-SLR300	3	76.2	3.62	92.0	100	50	Full	28	6	100	1.13
WST-SLR400	4	101.6	4.76	121.0	75	37	Full	28	8	100/20	1.74
WST-SLR600	6	152.4	7.17	182.1	70	35	28	25	13	100/20	3.88
WST-SLR800	8	203.5	9.21	234.0	60	30	26	20	18	20	5.57

\* Actual service temperature range is application dependent.

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**RoHS**(10)

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**SOLARGUARD™**  
ADVANCED UV PROTECTION  
**SLR™ Series**

**Heavy Duty PVC Liquid Suction Hose with High UV Resistance**

**General Applications:**

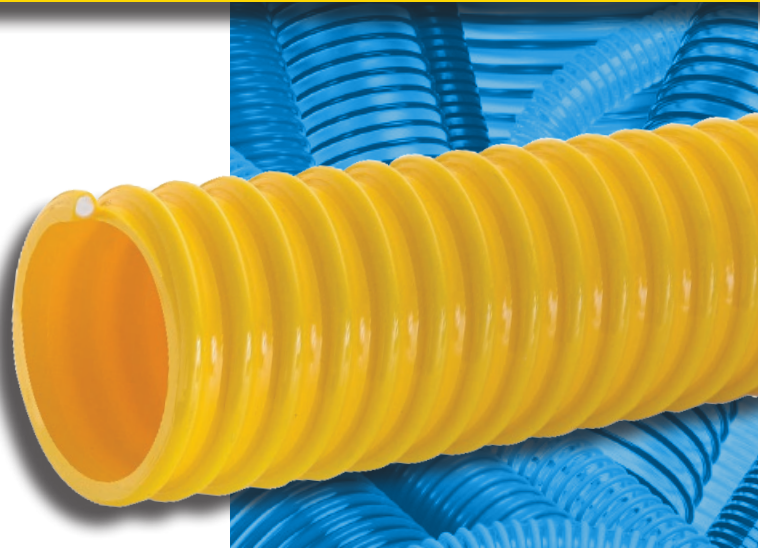
- Agricultural liquid fertilizers
- Air seeder lines
- Fish suction
- Irrigation lines
- Pumps, rental and construction dewatering
- Pumps, trash
- Water suction – heavy duty

**Construction:** PVC tube with rigid PVC helix.

**Service Temperature:** -4°F (-20°C) to 150°F (+65°C)\*

**Features and Advantages:**

- **Advanced UV Protection!** – The hose material is specially formulated to resist the cracking that can result from exposure to damaging UV light. Our tests show the Solarguard material retained 97% of its original tensile strength after prolonged UV exposure, compared to only 55% tensile strength retention for similar PVC hoses.†



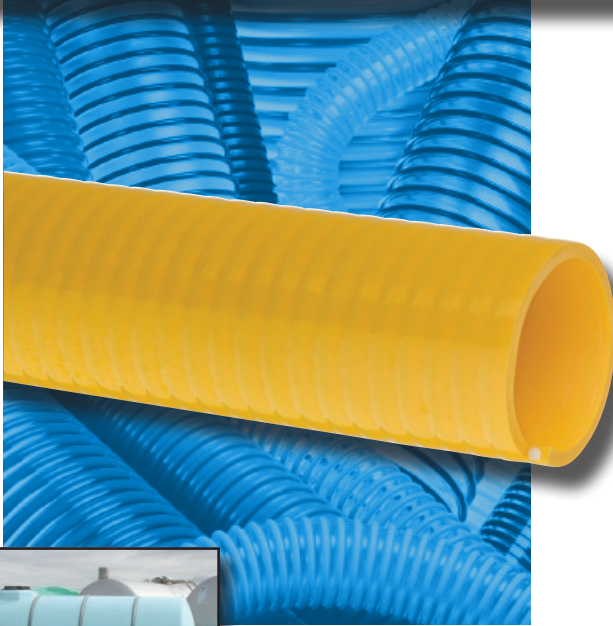
- **“Safety Yellow” Color** – For high visibility on job site. Reduces risk of tripping or driving over hose.
- **Convuluted Outer Cover** – Provides increased hose flexibility.

**Nominal Specifications**

Series	ID (in)	ID (mm)	OD (in)	OD (mm)	Working Pressure (psi)		Vacuum Rating (in. Hg)		Min. Bending Radius (in. @ 68°F)	Standard Length (ft.)	Weight (lbs./ft.)
					68°F	104°F	68°F	104°F			
SLR150	1½	38.1	1.85	47.0	50	30	Full	28	2	100	0.34
SLR200	2	50.8	2.40	61.0	50	30	Full	28	3	100	0.52
SLR250	2½	63.5	2.99	75.9	45	25	Full	28	4	100	0.77
SLR300	3	76.2	3.64	92.5	45	25	Full	28	6	100	1.18
SLR400	4	101.6	4.76	121.0	35	18	Full	28	8	100	1.92
SLR600	6	152.4	7.00	177.8	30	15	28	25	14	100/20	3.76
SLR800	8	203.2	9.18	233.2	30	15	28	25	24	40/20	5.99

\*Actual service temperature range is application dependent.

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**SOLARGUARD™**  
ADVANCED UV PROTECTION  
**SG™ Series**

**Standard Duty PVC Liquid Suction Hose with High UV Resistance**

**General Applications:**

- Agricultural liquid fertilizer
- Air seeder lines
- Irrigation lines
- Pumps, rental and construction dewatering
- Pumps, trash
- Water suction – standard duty

**Construction:** Flexible PVC tube with rigid PVC Helix.  
**Service Temperature:** -4°F (-20°C) to 150°F (+65°C)\*

**Features and Advantages:**

- **Advanced UV Protection!** – The hose material is specially formulated to resist the cracking that can result from exposure to damaging UV light. Our tests show the Solarguard material retained 97% of its original tensile strength after prolonged UV exposure, compared to only 55% tensile strength retention for similar PVC hoses.†

- **“Safety Yellow” Color** – For high visibility on job site. Reduces risk of tripping or driving over hose.
- **Smooth Outer Cover** – Provides smooth surface for banding.
- **Phthalate Free**

**Nominal Specifications**

Series	ID (in)	ID (mm)	OD (in)	OD (mm)	Working Pressure (psi)		Vacuum Rating (in. Hg)		Min. Bending Radius (in. @ 68°F)	Standard Length (ft.)	Weight (lbs/ft.)
					68°F	104°F	68°F	104°F			
SG150	1½	38.4	1.78	45.2	65	45	28	24	5	100	0.38
SG200	2	51.1	2.40	59.0	60	40	28	24	6	100	0.56
SG300	3	76.7	3.41	86.5	55	35	26	22	9	100	1.00
SG400	4	102.4	4.44	112.8	50	35	26	22	15	100	1.70
SG600	6	153.4	6.83	173.4	40	25	26	22	30	100/20	3.36

\*Actual service temperature range is application dependent.

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## Engineered Innovation for Longer Hose Life

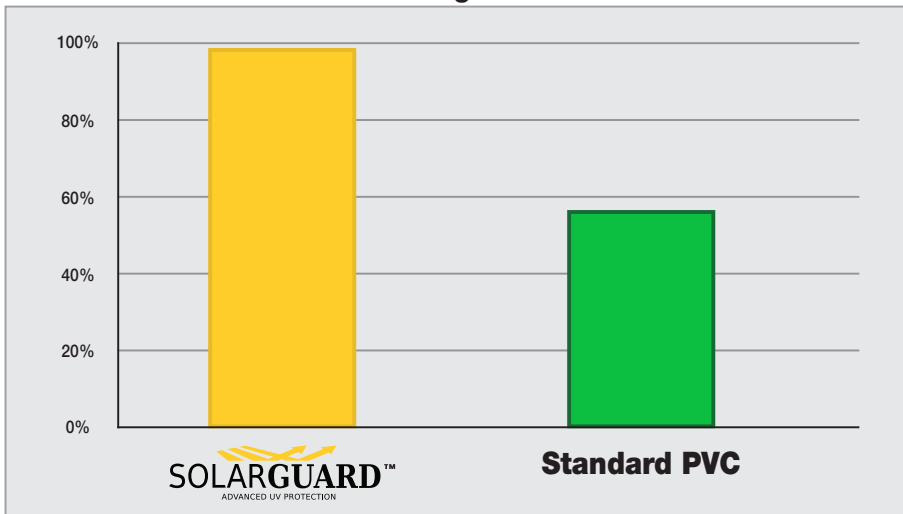
Hoses used outdoors for prolonged periods of time are subject to damage resulting from exposure to both heat and UV light. Tigerflex™ Solarguard™ hoses are specially constructed to resist this type of damage, resulting in a hose that retains its strength and flexibility longer than standard PVC hoses.



PVC Hose cracking due to UV exposure

Solarguard hoses contain a special blend of UV stabilizers that reflect the damaging UV photons away from the hose. Also, Solarguard hoses are made from a reflective yellow pigment that reduces heat absorption (Solarguard hoses can remain up to 10°F cooler than darker colored hoses), further protecting the hose and extending the service life. Our tests showed only a minimal 3% reduction in hose material strength after prolonged UV exposure, whereas standard PVC hoses showed over 40% strength loss over the same period.

### Tensile Strength Retention<sup>†</sup>



*Solarguard hoses maintain their strength and flexibility up to twice as long as standard PVC hoses, resulting in lower overall service cost.*

Percentage of tensile strength remaining after 720 hours of accelerated UV light exposure per ASTM G154

<sup>†</sup> This information is based on independent third party test reports which are, to the best of our knowledge, complete and accurate. However, no warranty is expressed or implied, as specific application parameters such as temperature, stress and strain, and chemical exposure vary widely.

# Accessories

NEW  
SIZES

## TigerClamps™ Spiral Double Bolt Clamps

- Zinc plated carbon steel.
- Two or more TigerClamps™ are suggested for 3" ID and larger hoses.
- Both hex nuts should be tightened equally to prevent leakage.
- Caution: proper evaluation of holding power for each clamp must be determined for each individual application.

### For Counterclockwise Helix Hoses

Designed to fit most Tigerflex Hoses\*

Nominal Specifications			
Part No.	Fits Hose (ID)	Weight ea. (lbs.)	Standard Carton Qty.
SDBC-1.5	1-1/2"	0.18	100
SDBC-2	2"	0.36	100
SDBC-2.25	2-1/4"	0.40	100
SDBC-2.5	2-1/2"	0.48	100
SDBC-3	3"	0.66	70
SDBC-3.5	3-1/2"	0.70	70
SDBC-4	4"	1.02	40
SDBC-5	5"	1.76	30
SDBC-6	6"	2.00	20
SDBC-8	8"	2.76	10
SDBC-10	10"	3.46	10
SDBC-12	12"	4.14	10

### TigerClamp™ Stainless Steel Spiral Double Bolt Clamp

(For Counterclockwise Spiral)

Designed to Fit Tigerflex™ PVC Suction Hoses

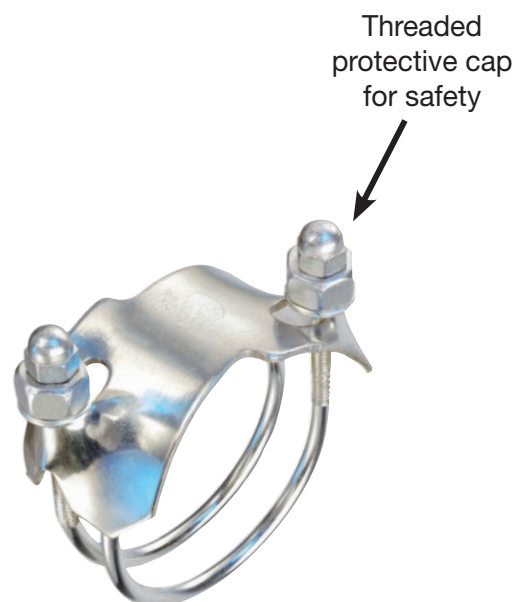
Nominal Specifications			
Part No.	Fits Hose (ID)	Weight ea. (lbs.)	Standard Carton Qty.
SDBC-SS-1.5	1 1/2"	0.40	100
SDBC-SS-2	2"	0.42	100
SDBC-SS-2.5	2.5"	0.53	100
SDBC-SS-3	3"	0.88	50
SDBC-SS-3.5	3.5"	0.77	70
SDBC-SS-4	4"	1.01	40
SDBC-SS-6	6"	2.09	20
SDBC-SS-8	8"	2.97	10

### For Clockwise Helix Hoses

Designed to fit Tigerflex TR1 and THT-series hoses\*

Nominal Specifications			
Part No.	Fits Hose (ID)	Weight ea. (lbs.)	Standard Carton Qty.
SDBCR-1.5	1.5"	0.18	100
SDBCR-2	2"	0.36	100
SDBCR-3	3"	0.66	70
SDBCR-4	4"	1.02	40
SDBCR-5	5"	1.76	30
SDBCR-6	6"	2.00	20
SDBCR-8	8"	2.76	10
SDBCR-10	10"	3.46	10
SDBCR-12	12"	4.14	10

\*Refer to Tigerflex Catalog Accessories compatibility chart on pages 59-61.



# Cautionary Statement

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Hose or tubing used in bent configurations will be subjected to increased abrasion. Hose clamps or couplings may loosen after initial installation and all sections of hose and tubing including connections, couplings, clamps, conductivity and bonding should be inspected frequently, regularly and consistently, and should be replaced, adjusted or re-tightened for the avoidance of leakage, for the prevention of injuries or damages, and for general safety purposes. Except as indicated in its Limited Warranty, Seller shall not be liable or responsible for direct or indirect injuries or damages caused by or attributed to the failure or malfunction of any Products sold or distributed by it.

Purchasers or users of the Products should frequently and consistently undertake inspections and protective measures with respect to the use and application of Products, which should include the examination of tube and cover, conditions of the hose or tubing, and the identification, repair or replacement of sections showing cracking, blistering, separations, internal and external abrasions, leaking or slipped couplings or connections and make proper proof tests.

## Limited Warranty

The Products sold or distributed by Seller are warranted to its customers to be free from defects in material and workmanship at the time of shipment by us, subject to the following provisions. ALL WARRANTY CLAIMS SHALL BE MADE WITHIN SIX (6) MONTHS AFTER SELLER SHIPPED THE PRODUCTS. SELLER'S LIABILITY HEREUNDER IS LIMITED AT SELLER'S EXCLUSIVE DISCRETION, TO 1) THE PURCHASE PRICE OF ANY PRODUCTS PROVING DEFECTIVE; 2) REPAIR OF ANY DEFECTIVE PRODUCT OR PART THEREOF; OR 3) REPLACEMENT OF ANY DEFECTIVE PRODUCT OR PART UPON ITS AUTHORIZED RETURN TO SELLER.

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