



# SUPER ANCHOR SAFETY®

## SideWinder2™/SideWinder3™ SRL's Instruction/Specification Manual 03-2020

ENGLISH  
VERSION

### !WARNING TO USER!

You are required to read and use the Instruction/ Specification manual supplied at the time this device was shipped. Improper use and installation can result in serious injury or death. Follow inspection requirements before each use.

### User Specifications

**Max. User wt.:** 130-310lb (59-140kg)

**Max. Arrest Distance:** 24" (610mm)

**Max. Free Fall:** 24" (610mm)

### Performance Specifications

**Avg. Arrest force:** 1,350lb (6kN)

**Max. Arrest force:** 1,800lb (8kN)

**Brake System:** Centrifugal, 100% sst.

### Compliance

ANSI Z359.14-2012 Type A  
OSHA 1926.502

**Part No. Length Wt.**

2901A 50ft 18lb

2903A 30ft 16lb

⊗ Inspection Points pg. 2

### SideWinder3 Models

Consult SideWinder3 2020 addendum.

### Function

This device has a centrifugal braking system that will lock up when the cable is subjected to a rapid movement. Release tension on the cable to unlock.

Fig.1

Overhead Anchorage

Tie-Off Strap  
w/D-ring

Carabiner

Casing



Wire Cable

7

### PPE Connection/Requirement

All PPE must comply with current ANSI, CSA or OSHA fall protection standards and be inspected annually by a "competent" person.

**Fall Arrest:** Connect SRL cable "B" end ONLY to the dorsal D-ring of a full body harness (FBH) as shown at Fig. 1.

**DO NOT connect to side D-rings.**

**Fall Restraint:** Connect SRL cable "B" end to the FBH dorsal D-ring or side D-rings. See Fig.11b.

### SRL Anchorage Point

Anchorage points that are not pre-engineered by SAS must be engineered by a "competent" or qualified person and designed to support the intended fall protection load.

**Fall Arrest:** Attach the "A" end to an anchorage point capable of supporting 5,000lb (22.5kN) or 2x the engineered fall protection load. See Fig.9a.

**Fall Restraint:** No free fall hazard exposure. The anchorage point must be capable of supporting 3,000lb (13.6kN) or 2x the engineered fall protection load. See Fig.11b.

### Leading Edge/Low Slope Fall Hazards

Horizontal tie-off points as shown at Fig.11a increase the free fall hazard to more than 24" due to the dorsal D-ring height above the work surface. When exposed to a free fall of more than 24", a personal energy absorber is required to guard against severing the wire cable during a fall. ANSI Z359.14-14 requires to use SRL-LE models when the tie-off point is between horizontal and overhead and leading edge fall hazards are present.

### Service Life

The service life depends on the frequency of use, exposure to salt air and moisture, and if the unit is used indoors or outdoors. In extreme cases of contamination exposure, the SRL may require factory service during the first year of use. See Table 1.0.

**Factory Service:** SRLs subjected to a free fall, do not pass function tests or inspections, are required to be returned to SAS factory for service or repair.

**WARNING! DO NOT attempt to open the casing or make repairs. SRLs have an interior recoil spring that is capable of causing serious injury.**

### Table 1.0 Service Life and Inspections

Note that all annual (12 months) or semi-annual (6 months) inspections must be performed by a "competent" person before being returned to service.

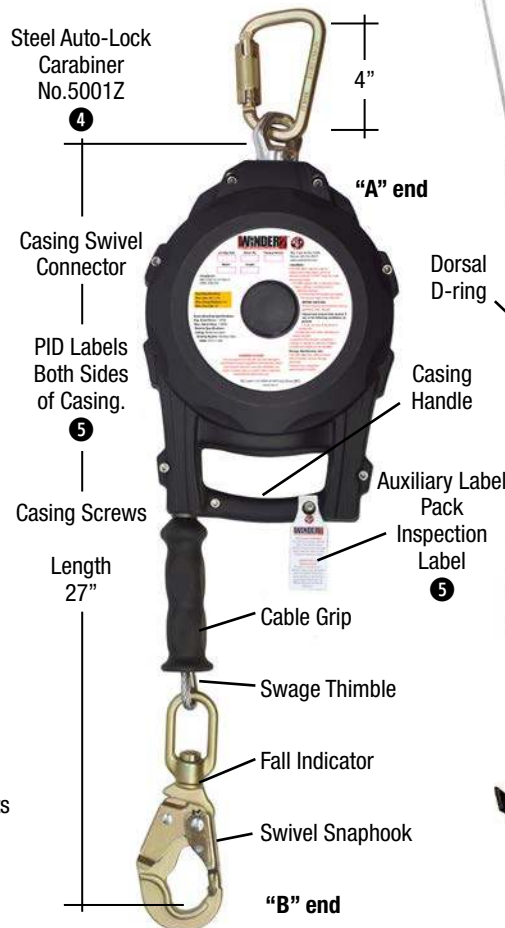
| Type of Use   | Approx. Service Life | Inspections                         |
|---------------|----------------------|-------------------------------------|
| Indoor/Light  | 3-5 years            | Before each use and every 12 months |
| Indoor/Heavy  | 2 years +            |                                     |
| Outdoor/Heavy | 1-2 years            | Before each use and every 6 months  |
| Salt Air      | 1 year               |                                     |

Note: Exposure to salt air, water saturation, gypsum and dust will reduce the service life.

### Storage

Store indoors in a dry area and hang from the "A" end to allow moisture to drain. Do not place any objects on top of the casing to prevent casing damage.

Fig.2  
Model 2901A



Tongue Buckle  
Full Body Harness  
w/Side D-rings  
Model TB-6067

### !HAZARD WARNINGS!

- Cable must not come in contact with sharp or abrasive surfaces, chemicals or acids.
- DO NOT wrap the cable around any object.
- DO NOT expose to high heat, open flame, cutting or grinding tools, or electrical sources.

Steel Edge  
cable severing  
hazard.



### Disposal of SRL/Hazard Warning

Units removed from service must be disposed of in a way that prevents further use and prevents the possibility of someone dismantling the SRL. Due to the acute danger posed by the recoil spring, it is recommended to return non-serviceable units to the SAS factory for safe disposal.

**Daily and Semi-Annual Inspections**

Perform inspection/function tests for SRLs and connectors prior to each use. SRLs should be inspected by a qualified or "competent" person every 6 months and recorded on the SRL inspection label. A record of inspections, repair and removal of equipment from service should be maintained for each SRL. The following inspection points are a guideline of common conditions that occur as a result of abuse, poor maintenance or long service life. Safety personnel are responsible for drafting their own fall protection equipment inspection and maintenance program which may include the information contained in this manual.

**Remove equipment from service if any of the following conditions are present:**

**Primary Inspection Points**

- |                                            |                                            |
|--------------------------------------------|--------------------------------------------|
| 1 Subjected to a free fall or other force. | 4 Fails to pass inspection/function tests. |
| 2 Obvious damage to any component.         | 5 PID labels unreadable or missing.        |
| 3 Has not been inspected annually.         | 6 Service life is more than 5 years.       |

☒ = Remove From Service

- |                                                                                                   |                                                                         |
|---------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| 7 Wire Cable is cut, abraded or knotted. Swage or swage thimble is damaged or missing. ☒ Fig.5, 7 | 12 Cable Grip is missing. ☒ Fig.5                                       |
| 8 Snaphook fall indicator is visible. ☒ Fig.8b                                                    | 13 Snaphook and/or Carabiner ☒ won't pass inspection or function tests. |
| 9 Casing is cracked, broken or seams are separated. ☒ Fig.6                                       | <b>Connectors:</b>                                                      |
| 10 Casing swivel won't rotate, is damaged or missing. ☒ Fig.1, 8                                  | 14 Obvious damaged/missing rivets. ☒                                    |
| 11 Casing Screws are missing. ☒ Fig.6                                                             | 15 Gate is bent or won't close. ☒                                       |
|                                                                                                   | 16 Gate locking device is damaged. ☒                                    |
|                                                                                                   | 17 Gate in closed position, does not lock. ☒                            |

**Fig.4**

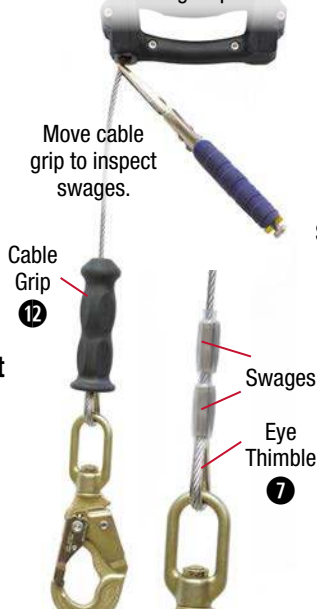
Cable Deployment  
Brake Lock Test



**Lock Test**  
Pull quickly  
away from  
casing.

**Fig.5**

Cable/Swage Inspection  
Clamp or anchor the casing  
and cable ends to prevent  
recoil during inspection.

**Fig.6**

Casing Inspection  
Examine all casing  
seams for defects.

**Fig.7**

Cable Damage

**Table 2.1 SRL Inspection/Lock Function Tests**

Failure to pass any of these tests require the unit to be removed from service.

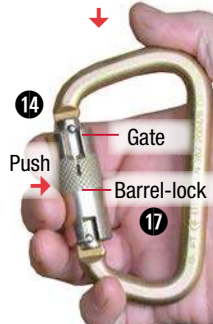
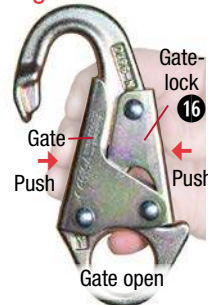
| Test Type       | Test Specification                                                                              | Pass                                           | Fail                                     |
|-----------------|-------------------------------------------------------------------------------------------------|------------------------------------------------|------------------------------------------|
| Deployment      | Pull out a few feet of cable slowly and then retract slowly.                                    | Smooth function, no jerks or stops.            | Cable won't deploy. Cable won't retract. |
| Brake See Fig.4 | Secure "A" end from movement. Pull quickly on "B" end. Perform this test 3 times.               | Cable locks up and holds position.             | Cable does not lock up.                  |
| Cable           | Pull out entire length of cable. Hold in place with light pressure vice grip as shown at Fig.5. | No evidence of cuts, abrasions kinks or knots. | Cable damage present.                    |

**Table 2.0 Remove from service if any test fails.**

| Fig.  | Test Type   | Function                                | Pass ☑     | Fail. ☒               |
|-------|-------------|-----------------------------------------|------------|-----------------------|
| 2a-3a | Gate-lock   | Push against gate only                  | Won't open | Opens.                |
| 2b    | Gate-open   | Push gate-lock and gate                 | Opens      | Won't open.           |
| 2c    | Gate-close  | Release gate and gate Lock at same time | Snaps shut | Won't close and lock. |
| 3b-3c | Unlock gate | Rotate barrel lock                      | Gate opens | Won't open.           |
| 3a    | Gate closes | Release gate/barrel                     | Snaps shut | Won't close.          |

**Fig.2a Snaphook**

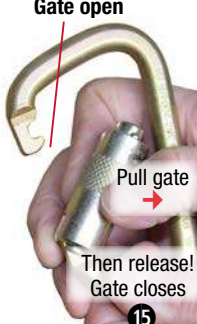
Gate Locked

**Fig.3a****Fig.2b**

Un-lock gate

**Fig.3b Auto-Lock Carabiner****Fig.2c**

Gate open

**Fig.3c****Extend the SRL Service Life**

- DO NOT allow the cable to retract freely.** Uncontrolled cable recoil can damage the braking system and recoil spring, causing irreparable damage.
- Salt Air or Chemical Exposure** Chemicals, salt air, gypsum, asphalt and earth dust produce oxidation and can cause interior contamination of the braking system.
- Moisture Exposure** SRL casings are not air or water-tight. Units exposed to moisture or water saturation should be stored in a vertical position in a dry area. **DO NOT store outside where salt air or moisture are present.**

**Fall Indicator Inspection**

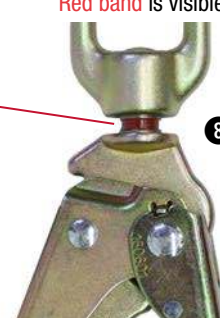
Fall indicators located below the Snaphook swivel will show a **RED** color when subjected to a force of approx. 400lb. Remove SRL immediately from service.

**Fig.8a**

Fall indicator not visible.

**Fig.8b**

Fall indicator deployed.  
Red band is visible.



**Remove From Service!**

**Anchorage Point**

SRLs are designed for use where the tie-off point is located overhead for fall arrest, but may be used for fall restraint as shown on page 4. Swing-falls present the greatest hazard and will increase in severity as a worker travels away from the tie-off point as shown at Fig.10a. A fall protection plan that is specific to each job site should be provided by a "competent" or qualified person. The sample plans shown here are for reference only.

**Calculating the Length of Fall (LOF)**

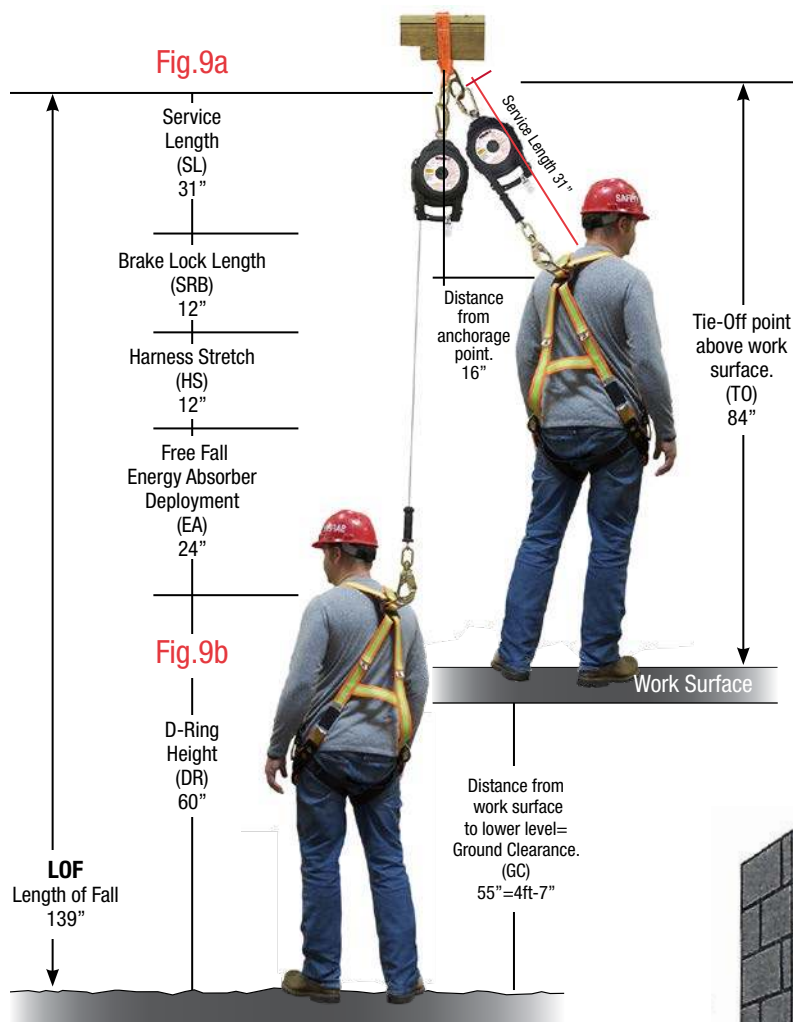
The **LOF** is a factor used to determine the ground clearance (**GC**) between the work surface and the nearest lower level or an obstacle in the path of the swing-fall as shown at Fig.10b.

**Sample Plan "A" LOF Standard Anchorage Attachment**

Fig.9a is an example of standard overhead SRL attachment. To avoid swing-falls, travel along the work surface fall hazard as shown here should be no more than a few feet from the anchors vertical center point above. A pre-planned SRL service zone can be used to define the area of protection provided by the tie-off point.

*Note: Length of Fall (LOF) is a formula based on the maximum deployment lengths of the PPE components and other factors and is used to estimate the ground clearance (GC).*

*Real life free falls may be greater or lesser due to unforeseen variables in the factors.*

**Table 3.0 Plan "A" LOF Calculation**

|                 |                                                                                          |
|-----------------|------------------------------------------------------------------------------------------|
| • SL=31"        | The Service Length is the SRL component length + the amount of the deployed SRL webbing. |
| • SRB=12"       | SRB is the amount of cable that is deployed before the brake lock engages.               |
| • HS=12"        | Full Body Harness stretch.                                                               |
| • EA=24"        | Energy Absorber deployment length.                                                       |
| • DR= 60"       | Max. user wt. 310lb/Max. Free Fall 2ft.                                                  |
| Total LOF=139"  | D-ring height above the work surface.                                                    |
| Deduct T0=[84"] | Length from Tie-Off point to the next lowest level below the work surface.               |
| Total=55"       | Tie-Off point height above the work surface.                                             |
|                 | Min. Ground Clearance(GC) required.                                                      |

**WARNING: PROMPT RESCUE!**

A plan for immediate rescue is necessary to avoid serious injury, excruciating pain or death resulting from suspension trauma.

Use SAS S.T.E.P. 6060 suspension ladder and provide user training in its use for each worker.

**SRL Internal Energy Absorber (EA)**

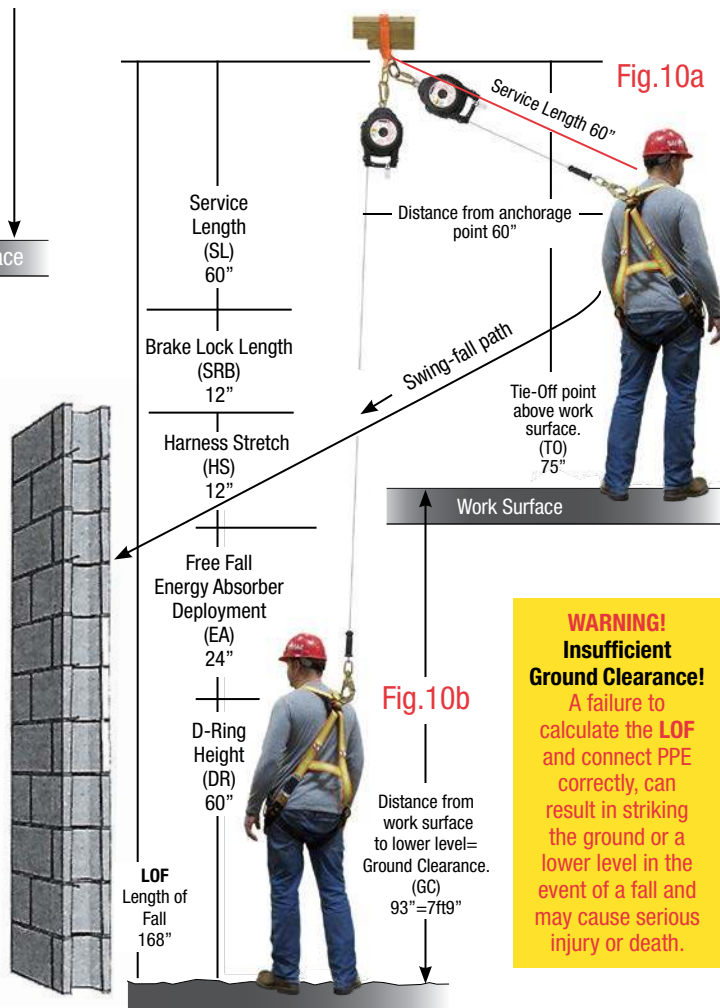
The SRL's cable brake lock system has an internal energy absorbing design that limits the maximum arrest force to 1,800lb or less when subjected to a free fall of no more than 24" with a max. user wt. of 310lb.

**Sample Plan "B" Swing Fall Hazard Warning!**

Fig.10a is an example of an extreme swing fall hazard that results from moving more than a few feet from the anchorage point above when exposed to a fall hazard at the work surface edge. Swing falls must be avoided to prevent serious injury.

**Table 3.1 Plan "B" LOF Calculation**

|                  |                                                                                        |
|------------------|----------------------------------------------------------------------------------------|
| • SL=60"         | The Service Length is the SRL component length + the amount of the deployed SRL cable. |
| • SRB=12"        | SRB is the amount of cable that is deployed before the brake lock engages.             |
| • HS= 12"        | Full Body Harness stretch.                                                             |
| • EA= 24"        | Energy Absorber deployment length.                                                     |
| • DR= 60"        | Max. user wt. 310lb/Max. Free Fall 2ft.                                                |
| Total LOF=168"   | D-ring height above the work surface.                                                  |
| Deduct T0= [75"] | Length from Tie-Off point to the next lowest level below the work surface.             |
| Total = 93"      | Tie-Off point height above the work surface.                                           |
|                  | Min. Ground Clearance(GC) required.                                                    |

**WARNING! Insufficient Ground Clearance!**

A failure to calculate the **LOF** and connect PPE correctly, can result in striking the ground or a lower level in the event of a fall and may cause serious injury or death.

**Free Fall Hazard Warning**

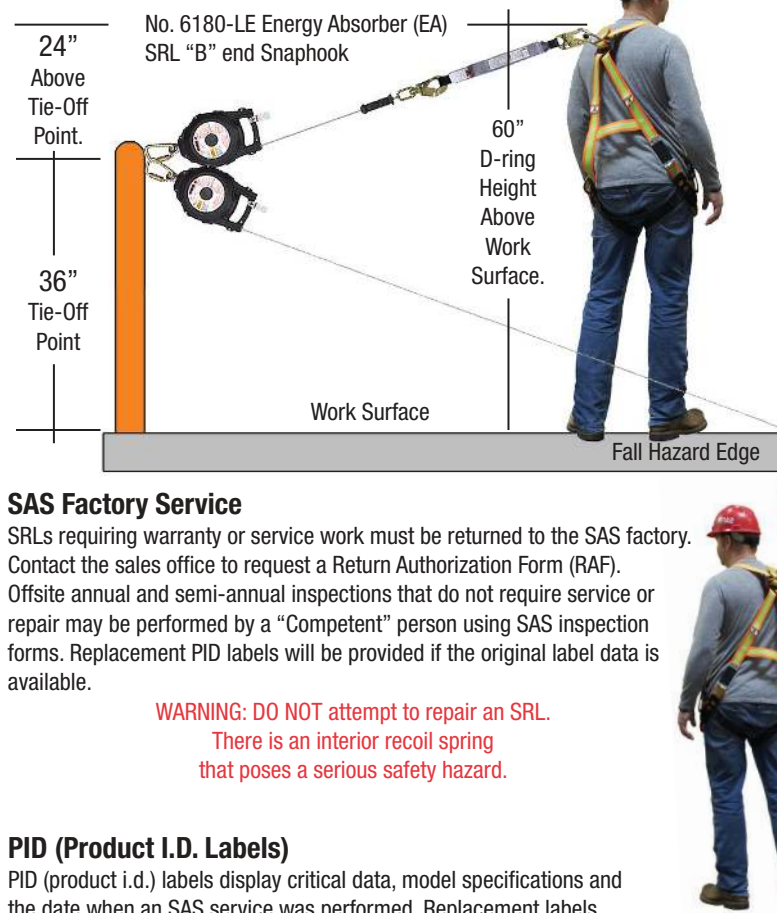
The following instructions apply only when a worker is exposed to a free fall hazard of more than 2ft.

**Calculating the Free Fall Length:**

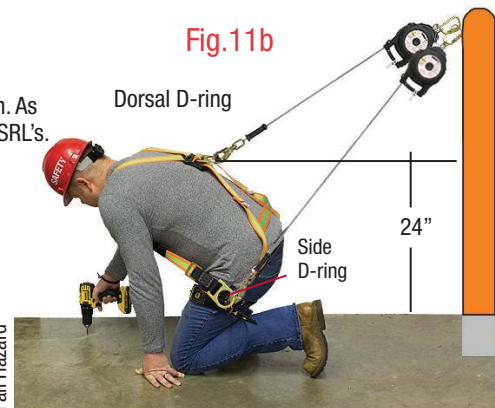
The height of an SRL connection to the dorsal D-ring above the work surface determines the free fall length. As shown at Fig.11b, the D-ring height above the work surface is 24", the maximum free fall allowed Class A SRL's.

**Leading Edge (LE) Models Length of Fall**

Shown at Fig.11a, the worker's D-ring height is 5ft/60" above the work surface the maximum free fall distance allowed for an LE model. The maximum deployment length of the SRL internal braking system combined with the external energy absorber No. 6180-LE is 54". The min. ground clearance is 16ft.

**Leading Edge Length of Fall Sample Plan (LOF)**

|          |                                                   |
|----------|---------------------------------------------------|
| 18"      | Harness and components stretch                    |
| 60"      | Max Free Fall                                     |
| 54"      | Max. SRL-LE Deployment Length                     |
| 60"      | Foot to D-ring Length                             |
| LOF 192" |                                                   |
| 16ft     | To ground or next lower level below work surface. |

**Fall Restraint Use**

SRLs may be used for fall restraint when there is no exposure to a free fall as shown in Fig. 11b. The worker is prevented from moving close to the fall hazard by a warning line or other guarding system. The SRL connector "B" end may be attached to the dorsal D-ring or side D-ring. Note: SRLs are not rated for "work positioning" because the cable cannot be set to a fixed length.

**Fall Restraint Definition OSHA 1926.751**

"A means of fall protection that prevents the user from falling any distance."

**WARNING!** Free falls over the edge of a fall hazard can result in severing of the SRL cable. Safety standards specify the use of an SRL with an external E/A to prevent cable damage. Most deaths occur from falls less than 8ft from the work surface.

**SAS Factory Service**

SRLs requiring warranty or service work must be returned to the SAS factory. Contact the sales office to request a Return Authorization Form (RAF). Offsite annual and semi-annual inspections that do not require service or repair may be performed by a "Competent" person using SAS inspection forms. Replacement PID labels will be provided if the original label data is available.

**WARNING: DO NOT attempt to repair an SRL.**  
There is an interior recoil spring that poses a serious safety hazard.

**PID (Product I.D. Labels)**

PID (product i.d.) labels display critical data, model specifications and the date when an SAS service was performed. Replacement labels will display the original data provided it is available. Safety personnel performing inspections may request replacement PID labels.

**Lot Mfg. Date**

Factory date the SRL was mfg.

**Primary PID English Label****Factory Service**

The date SAS factory service was performed.

**Spanish PID Label****Inspection Record**

Annual and semi-annual inspections should be recorded on this label.

**First Use:**

Enter the month (MM) and year (YYYY) the SRL was placed in service.

**Primary PID English Label****Factory Service**

The date SAS factory service was performed.

**Spanish PID Label**

Template SRL 3.1  
SRL Matrix  
©SCN 02-2020 (MIT)

Date of First Use:

Property of:

| Inspection Record | Pass | By: | Month: | Year: |
|-------------------|------|-----|--------|-------|
|                   |      |     |        |       |
|                   |      |     |        |       |
|                   |      |     |        |       |
|                   |      |     |        |       |
|                   |      |     |        |       |
|                   |      |     |        |       |
|                   |      |     |        |       |
|                   |      |     |        |       |
|                   |      |     |        |       |

| Lot mfg. Date | Serial No. | First Service   |
|---------------|------------|-----------------|
|               |            |                 |
| Model         | Length     | Factory Service |
|               |            |                 |

| Lot mfg. Date | Serial No. | First Service   |
|---------------|------------|-----------------|
|               |            |                 |
| Model         | Length     | Factory Service |
|               |            |                 |



SELF RETRACTING LIFELINE

SideWinder2

SideWinder2

SideWinder2

SideWinder2

SideWinder2

SideWinder2

SideWinder2

SideWinder2

SideWinder2

SideWinder2

Compliance: ANSI Z359.14-12 Class A OSHA 1926.502

User/Specifications Max. User wt. 310lb Max. Arrest Distance: 24" Max. Free Fall: 24"

Energy Absorbing Specifications: Avg. Arrest Force: 1,350lb Max. Arrest Force: 1,800lb

Material Specifications: Casing: Reinforced nylon Braking System: Stainless Steel Cable: 3/16"d. Galv.

HAZARDS! DO NOT allow cable to come in contact with metal edges, sharp or abrasive surfaces. DO NOT wrap the cable around any object. DO NOT expose SRL to high heat, open flame, cutting or grinding tools or electrical sources.

Avoid swing fall hazards by keeping the service angle to less than 40°. BEFORE EACH USE: Perform locking and retraction tests as specified in the manual. Inspect and remove from service if any of the following conditions are present:

Does not pass inspections or locking test. Cable has cuts, kinks, abrasions or broken strands. Snaphook fall indicator is deployed. Casing or handle is cracked or broken. Labels are missing or not readable.

Storage, Maintenance, Use: DO NOT allow the cable to retract without tension serious damage will result. Inspect by a competent person every 6 months.

WARNING TO USER! You are required to read and use the Instruction/Specification manual supplied at the time this device was shipped. Improper use and installation can result in serious injury or death. Follow inspection requirements before each use.

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USUARIOS/ESPECIFICACIONES Peso máximo del usuario: 140kg Distancia máxima de detención: 610mm Cables libre máxima: 610mm

ESPECIFICACIONES DE AMORTIGUACIÓN DE ENERGÍA: Fuerza promedio de detención: 6kN Fuerza máxima de detención: 8kN Especificaciones de los materiales: Carcasas: Nylon reforzado Sistema de Frenado: Acero Inoxidable Cable: Diámetro 4.7mm. Acier galvanizado

ADVERTENCIA AL USUARIO! Usted debe leer y utilizar el Manual de Instrucciones/Especificaciones despatchado con el suministro de este dispositivo. El uso y la instalación incorrectos pueden resultar en lesiones graves o la muerte. Siga los requisitos de inspección antes de cada uso.

ADVERTENCIA! No abra la carcasa ni trate de realizar alguna reparación. Este dispositivo cuenta con un resorte interno que puede lesionar gravemente a una persona. Envíe los dispositivos a las instalaciones de SAS para reparaciones.

PELIGROS! NO permita que el cable entre en contacto con bordes metálicos, superficies filosas o abrasivas. NO envuelva el cable alrededor de ningún objeto. NO exponga el SRL a temperaturas altas, llama abierta, herramientas de corte o pulidoras, o fuentes eléctricas.

Evite peligros de caídas tipo péndulo manteniendo el ángulo de servicio a menos de 40°.

ANTES DE CADA USO: Realice las pruebas de bloqueo y retracción como se especifica en el manual. Inspeccione y retire del servicio si se presenta alguna de las siguientes situaciones:

No pasa las inspecciones o la prueba de bloqueo. El cable tiene cortes, dobleces, abrasión o hilos rotos. El indicador de caídas del gancho de seguridad está desplegado. Las carcasas o la manija están quebradas o rotas. Falta las etiquetas o no pueden leerse.

Almacenamiento, Mantenimiento, Uso: No permita que el cable se retraiga sin tensión, ya que esto provocaría daños graves. Cada seis meses debe ser revisado por una persona competente.

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