GUARDIAN
FALL PROTECTION



Product Name: Velocity SRL

Part #: 10950; 10951; 10957; 42000; 42001; 42002; 42003; 42004; 42005; 42006; 42008

Instruction Manual

Do not throw away these instructions!
Read and understand these instructions before using equipment!

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Introduction

Thank you for purchasing a Guardian Fall Protection Velocity SRL. This manual must be read and understood in its entirety, and used as part of an employee training program as required by OSHA or any applicable state agency.

This and any other included instructions must be made available to the user of the equipment. The user must understand how to safely and effectively use the Velocity SRL, and all fall safety equipment used in combination with the Velocity SRL.

User Information

Date of First Use: _____

Serial #: _____

Trainer: _____

User: _____

Applicable Safety Standards

When used according to instruction specifications, this product meets or exceeds all applicable OSHA 1926 Subpart M, OSHA 1910, ANSI Z359.14-2014, and ANSI A10.32-2012 standards for fall protection. Applicable standards and regulations depend on the type of work being done, and also might include state-specific regulations. Consult regulatory agencies for more information on fall protection systems.

Worker Classifications

⚠ CAUTION Understand the following definitions of those who work near or who may be exposed to fall hazards.

Qualified Person: A person with an accredited degree or certification, and with extensive experience or sufficient professional standing, who is considered proficient in planning and reviewing the conformity of fall protection and rescue systems.

Competent Person: A highly trained and experienced person who is ASSIGNED BY THE EMPLOYER to be responsible for all elements of a fall safety program, including, but not limited to, its regulation, management, and implementation. A person who is proficient in identifying existing and predictable fall hazards, and who has the authority to stop work in order to eliminate hazards.

Authorized Person: A person who is assigned by their employer to work around or be subject to potential or existing fall hazards.

It is the responsibility of a Qualified or Competent person to supervise the job site and ensure all applicable safety regulations are complied with.

Product Specific Applications

⚠ WARNING Use of equipment in unintended applications may result in serious injury or death. Maximum 1 attachment per connection point.



Personal Fall Arrest: Velocity SRLs may be used in Personal Fall Arrest applications as a component of a MAXIMUM 1 Personal Fall Arrest System (PFAS). Structure must withstand loads applied in the directions permitted by the system of at least 5,000 lbs. Applicable D-ring: Dorsal. **Velocity SRLs (except part #s 42006 and 42008) may be used in Leading Edge (LE) applications only if used in combination with Guardian Fall Protection shock absorber extension part # 01205.**

- Standard applications: No free fall is permitted. SRL must always be positioned at or above harness dorsal D-ring AND at or below anchor point.
- LE applications: Maximum 6′ free fall. SRL may be positioned a maximum 6′ below harness dorsal D-ring or a maximum 6′ above anchor point.

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Restraint: Velocity SRLs may be used in Restraint applications. Restraint systems prevent workers from reaching the leading edge of a fall hazard. Always account for fully deployed length of lanyard/SRL. Structure must withstand loads applied in the directions permitted by the system of at least 1,000 lbs. No free fall is permitted. Restraint systems may only be used on surfaces with slopes up to 4/12 (vertical/horizontal). Applicable D-rings: Dorsal, Chest, Side, Shoulder.

For all applications, worker weight capacity range (including all clothing, tools, and equipment):

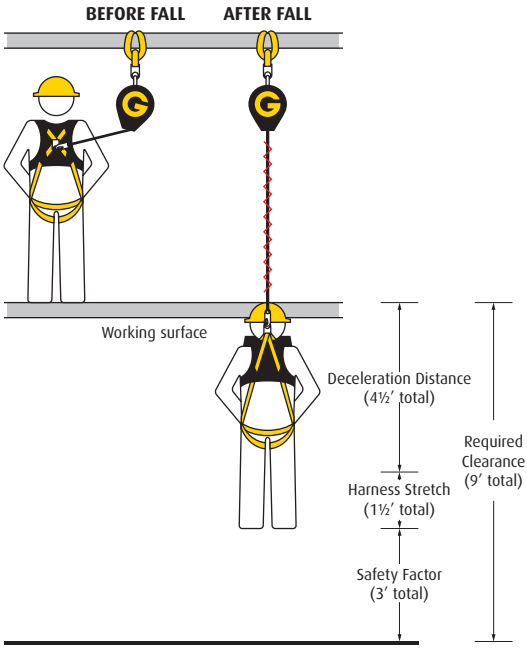
Non-LE Use:
130-310 lbs., or up to 420 lbs. if used with shock absorber extension part # 01205.

LE Use:
130-310 lbs. Must be used with shock absorber extension part # 01205.

Limitations

Fall Clearance: There must be sufficient clearance below the anchorage connector to arrest a fall before the user strikes the ground or an obstruction. When calculating fall clearance, account for a MINIMUM 3′ safety factor, deceleration distance, user height, length of lanyard/SRL, and all other applicable factors.

Diagram shown is an example fall clearance calculation ONLY.



Swing Falls: Prior to installation or use, make considerations for eliminating or minimizing all swing fall hazards. Swing falls occur when the anchor is not directly above the location where a fall occurs. Always work as close to in line with the anchor point as possible. Swing falls significantly increase the likelihood of serious injury or death in the event of a fall.

Compatibility: When making connections with Velocity SRL, eliminate all possibility of roll-out. Roll-out occurs when interference between a hook and the attachment point causes the hook gate to unintentionally open and release. All connections must be selected and deemed compatible with Velocity SRL by a Competent Person. All connector gates must be self-closing and self-locking, and withstand minimum loads of 3,600 lbs. See the following for examples of compatible/incompatible connections:

Connector closed and locked to D-ring. **OK.**



Two connectors to same D-ring. **NO.**





Connector to integral lanyard. **NO.**



Connector directly to webbing. **NO.**

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Incompatible or irregular application, which may increase risk of roll-out. **NO.**







Connector directly to horizontal lifeline. **NO.**

Two or more snap hooks or carabiners connected to each other. **NO.**



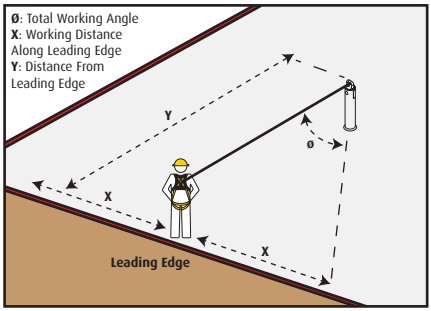




Correct Anchorage Positioning:

This chart details allowable working zones required to reduce risk of swing falls and improper side loading. ALWAYS adhere to information specified by chart.

Anchor Distance From Leading Edge (Y)	Working Distance Along Roof Edge (Either Direction) (X)	Working Angle From Perpendicular (Ø)
6′	8′	53°
10′	9′ - 9″	45°
15′	11′ - 7″	38°
20′	13′ - 3″	33°
25′	14′ - 6″	30°
30′	16′	28°
35′	17′ - 2″	26°
40′	18′ - 3″	24°
45′	19′ - 4″	23°
50′	19′ - 10″	21°
55′	21′ - 4″	21°
60′	22′ - 3″	21°



For example, if the anchorage connector is 6′ from the leading edge (Y), the working distance (X) is 8′ in each direction from the perpendicular, which translates to a 53° working angle.

Components and Specifications

Materials: stainless steel, galvanized steel, polyester, and glass-filled nylon.

Non-LE Use:
Max. arresting distance: 54″
Min. fall clearance: 9′
Class B SRL

LE Use (must be used with #01205):
Min. setback distance from edge: 0′
Max. arresting distance: 54″ - 102″
Min. fall clearance: 17′ - 21′



Part #	Length	Description
42000	16′	3/16″ Galvanized Cable SRL w/Carabiner, Swivel Top, & Snap Hook
42001	20′	3/16″ Galvanized Cable SRL w/Carabiner, Swivel Top, & Snap Hook
42002	30′	3/16″ Galvanized Cable SRL w/Carabiner, Swivel Top, & Snap Hook
42003	50′	3/16″ Galvanized Cable SRL w/Carabiner, Swivel Top, & Snap Hook
42004	80′	3/16″ Galvanized Cable SRL w/Carabiner, Swivel Top, & Snap Hook
42005	100′	3/16″ Galvanized Cable SRL w/Carabiner, Swivel Top, & Snap Hook
42006	20′	1″ Nylon Webbing w/Carabiner, Swivel Top, & Snap Hook
42008	40′	1″ Nylon Webbing w/Carabiner, Swivel Top, & Snap Hook
10950	10′	3/16″ Galvanized Cable SRL w/Carabiner, Swivel Top, & Snap Hook
10951	10′	3/16″ Galvanized Cable SRL w/Carabiner, Swivel Top, & Aluminum Rebar Hook
10957	10′	3/16″ Nylon Coated Galvanized Cable SRL w/Carabiner, Swivel Top, & Snap Hook

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Installation and Use

Velocity SRL part #s: 42006 and 42008 must NEVER be used in LE applications.

Velocity SRL part #s: 42000, 42001, 42002, 42003, 42004, 42005, 10950, 10951, and 10957 may be used in LE applications ONLY if used in combination with shock absorber extension part # 01205.

If intending to use Velocity SRL in LE applications, refer to additional LE SRL use instructions (pg. 4-5).

ALWAYS avoid lifeline contact with sharp or abrasive edges and surfaces.

1. All components of the personal fall arrest system must be selected and deemed compatible with applicable SRL by a Competent Person.

2. Ensure structure to which SRL is to be attached, and on which work is to be performed, is free of all hazards, including, but not limited to, debris, rot, rust, sharp or abrasive edges and surfaces, and hazardous materials.

3. Velocity SRL may be used in either mobile or stationary applications.

4. For stationary applications, attach Velocity SRL carabiner to selected anchorage connector, and attach snap hook to applicable harness D-ring. **This is the only permitted configuration for LE applications. Shock absorber extension part # 01205 must connect directly to harness D-ring.**

5. For mobile applications, attach SRL carabiner to harness Dorsal D-ring, and attach snap hook to selected anchorage connector.

6. Ensure 100% tie-off will be maintained at all times, which may require the use of a back-up or supplementary fall protection system.

⚠WARNING ALWAYS adhere to the following warnings and specifications when using LE SRLs.

LE SRL Additional Use Instructions:

When used in combination with a Guardian shock absorber extension part # 01205, Velocity SRLs (except part #s 42006 and 42008) are tested and certified for horizontal use over a steel edge without burrs. Velocity SRLs may be used over similar surfaces, such as metal sheeting, steel formations, concrete, or wood.

The allowable angle of redirection of the lifeline portion of Velocity SRLs at the leading edge of a fall hazard MUST be at least 90° (see Image 1).

Anchor point MUST be situated no lower than the leading edge of applicable fall hazard(s).

Prior to use, a Competent Person MUST calculate adequate fall clearance (see pg. 2).

ALWAYS attach to anchorage connector that will allow for required setback distance (see Image 2).

Setback distance: As determined by product testing, Guardian Fall Protection Velocity SRLs are not required to be setback any specific distance from the leading edge of applicable fall hazard(s).

Velocity SRLs may be used in combination with horizontal lifelines. All installation, set-up, and use of horizontal lifelines must be done under the supervision of a Qualified Person.

NEVER work on the far side of an opening that is opposite the Velocity SRL anchorage point.

In the event of a fall over the edge, special rescue measures may be necessary. Always account for use of Velocity SRLs in job site rescue plan developed by jobsite Competent Person.

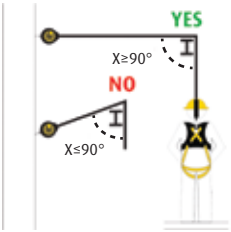


Image 1

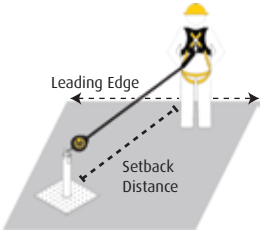


Image 2

Maintenance, Cleaning, and Storage

If Velocity SRL fails inspection in any way, immediately remove it from service, and contact Guardian to inquire about its return or repair.

Cleaning after use is important for maintaining the safety and longevity of Velocity SRL. Remove all dirt, corrosives, and contaminants from Velocity SRL before and after each use. If Velocity SRL cannot be cleaned with plain water, use mild soap and water, then rinse and wipe dry. NEVER clean Velocity SRL with corrosive substances.

When not in use, store equipment where it will not be affected by heat, light, excessive moisture, chemicals, or other degrading elements.

Inspection

Prior to EACH use, inspect Velocity SRL for deficiencies, including, but not limited to, corrosion, deformation, pits, burrs, rough surfaces, sharp edges, cracking, rust, paint buildup, excessive heating, alteration, broken stitching, fraying, bird-caging, and missing or illegible labels. Inspect full length of lifeline. Pay careful attention to cable swage (located beneath rubber stopper on cable units) and ensure no damage is present at location where swage contacts lifeline. IMMEDIATELY remove Velocity SRL from service if defects or damage are found.

Prior to EACH use, check lifeline retraction by pulling out a minimum 4′ and allowing it to retract under light tension; lifeline must retract completely. Pull lifeline sharply to test braking function; brakes must engage. Depending on model or configuration, check shock pack for signs of deployment, and/or fall arrest indicator for signs of activation. Indicator will display red if unsafe for use. IMMEDIATELY remove from service if Velocity SRL does not function properly, of if exposed to forces of fall arrest.

Ensure that applicable work area is free of all damage, including, but not limited to, debris, rot, rust, decay, cracking, and hazardous materials. Ensure that selected work area will support the application-specific minimum loads set forth in this instruction manual. Work area MUST be stable.

Every 6 months, a Competent Person other than the user must inspect Velocity SRL. **Competent Person inspections MUST be recorded in inspection log in instruction manual and on equipment inspection grid label. The Competent Person must sign their initials in the box corresponding to the month and year the inspection took place. During inspection, consider all applications and hazards SRL has been subjected to.**

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Inspection Log

Date of First Use: _____.

Product lifetime is indefinite, as long as product passes all inspection requirements. User must inspect prior to EACH use. Competent Person other than user must Complete formal inspection at least every 6 months. Competent Person to inspect and initial.

This inspection log must be specific to one Velocity SRL. Separate inspection logs must be used for each Velocity SRL. All inspection records must be made visible and available to all users at all times.

	J	F	M	A	M	J	J	A	S	O	N	D
YR												
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YR												
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If equipment fails inspection IMMEDIATELY REMOVE FROM SERVICE.

Safety Information

WARNING

Failure to understand and comply with safety regulations may result in serious injury or death. Regulations included herein are not all-inclusive, are for reference only, and are not intended to replace a Competent Person's judgment or knowledge of federal or state standards.

Do not alter equipment. Do not misuse equipment.

Workplace conditions, including, but not limited to, flame, corrosive chemicals, electrical shock, sharp objects, machinery, abrasive substances, weather conditions, and uneven surfaces, must be assessed by a Competent Person before fall protection equipment is selected.

The analysis of the workplace must anticipate where workers will be performing their duties, the routes they will take to reach their work, and the potential and existing fall hazards they may be exposed to. Fall protection equipment must be chosen by a Competent Person. Selections must account for all potential hazardous workplace conditions. All fall protection equipment should be purchased new and in an unused condition.

Fall protection systems must be selected and installed under the supervision of a Competent Person, and used in a compliant manner. Fall protection systems must be designed in a manner compliant with all federal, state, and safety regulations. Forces applied to anchors must be calculated by a Competent Person.

Unless explicitly stated otherwise, the maximum allowable free fall distance for lanyards must not exceed 6′. No free fall allowed for non-LE SRLs. Class A SRLs must arrest falls within 24″; Class B SRLs must arrest falls within 54″.

Harnesses and connectors selected must be compliant with manufacturer's instructions, and must be of compatible size and configuration. Snap hooks, carabiners, and other connectors must be selected and applied in a compatible fashion. All risk of disengagement must be eliminated. All snap hooks and carabiners must be self-locking and self-closing, and must never be connected to each other.

A pre-planned rescue procedure in the case of a fall is required. The rescue plan must be project-specific. The rescue plan must allow for employees to rescue themselves, or provide an alternative means for their prompt rescue. Store rescue equipment in an easily accessible and clearly marked area.

Training of Authorized Persons to correctly erect, disassemble, inspect, maintain, store, and use equipment must be provided by a Competent Person. Training must include the ability to recognize fall hazards, minimize the likelihood of fall hazards, and the correct use of personal fall arrest systems.

NEVER use fall protection equipment of any kind to hang, lift, support, or hoist tools or equipment, unless explicitly certified for such use.

Equipment subjected to forces of fall arrest must immediately be removed from use.

Age, fitness, and health conditions can seriously affect the worker should a fall occur. Consult a doctor if there is any reason to doubt a user's ability to withstand and safely absorb fall arrest forces or perform set-up of equipment. Pregnant women and minors must not use this equipment.

Physical harm may still occur even if fall safety equipment functions correctly. Sustained post-fall suspension may result in serious injury or death. Use trauma relief straps to reduce the effects of suspension trauma.

Labels



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