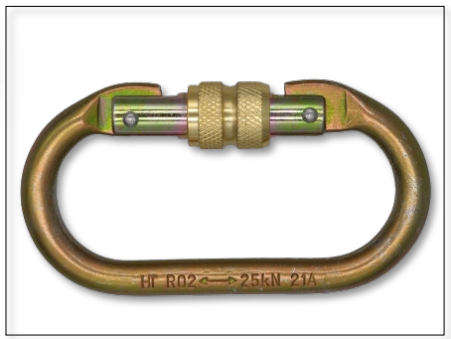
FALL ARRESTER – WEBBING TYPE
SELF RETRACTABLE LIFELINE (SRL)

- EN360:2002 Certification
- Webbing Length: 3m; Max user weight: 100kg / 220lbs
- Max total arrest distance: 1.8m, Max free fall distance: 0.6m
- Max fall arrest force: 6KN
- Dual swivel design for better mobility
- Cable extends & retracts to the movement of user automatically
- Other available length type: 6m, 10m

Swivel bottom auto-lock carabiner



Swivel top + Screw lock carabiner attachment

*For a Self Retracting Lifeline (SRL)/ Retractable Fall Arresters:
Clearance Height = Deceleration Distance + Height of Worker + Safety Distance (Usually taken as 3 ft/1 m)

Webbing type -Retractable Fall Arrester BLACK VIPER

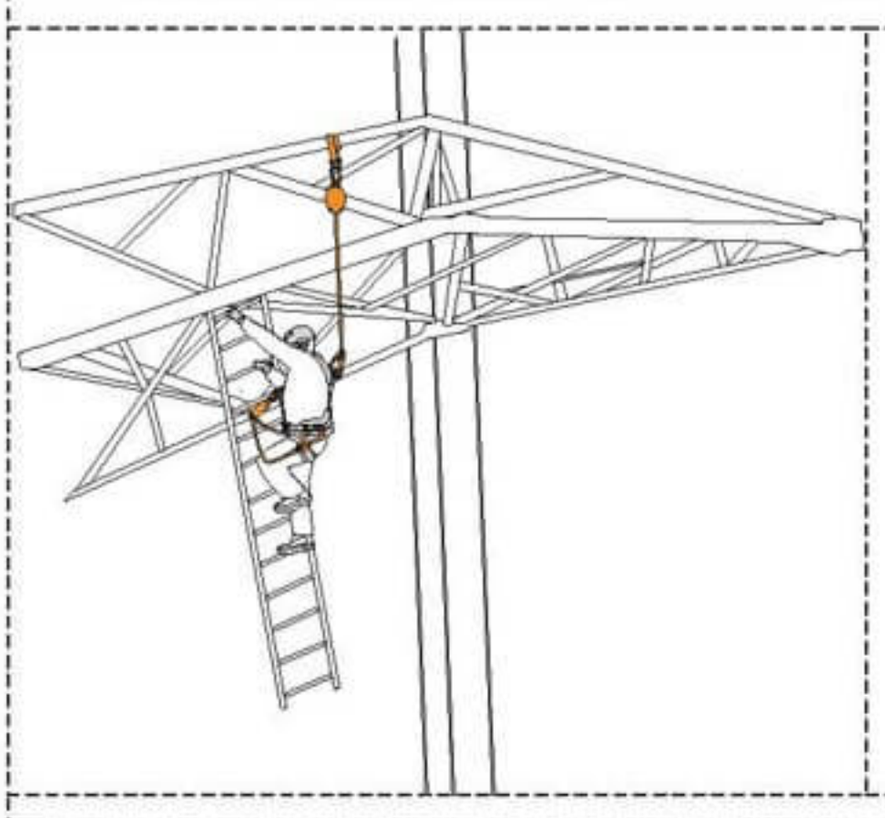
Webbing type -Retractable fall arrester,
webbing extends and retracts automatically
followingthe movements of the user.
Maximum weight 100kg.
Maximum force in the event of fall <6kN
Standard: EN360:2002

Retractable fall arrester without energy absorber

MODEL	LENGTH	WEBBING WIDTH	WEIGHT
WA 02	1.8 MTR	20mm	1. 245 KG
WA 03	3 MTR	20mm	2.045 KG
WA 06	6 MTR	25mm	2. 945 KG

Retractable fall arrester with energy absorber

MODEL	LENGTH	WEBBING WIDTH	WEIGHT
WAE 02	1.8 MTR	20mm	1. 485 KG
WAE 03	3 MTR	20mm	2. 285 KG
WAE 06	6 MTR	25mm	3. 185 KG



Material

Webbing: Dyneema *(The webbing strength :15kN)*
Cover : PA
Hardware: Carabiner +Aluminum swivel hook
Carabiner: Steel Automatic carabiner *(The breaking strength :23kN)*
Hook: Aluminum swivel hook *(The breaking strength :25kN)*

This type fall Arrester is made of plastic shell, automatically controlled by the changed speed.
It is an innovative engineering solution to arrest falls by two-disc anti-ratchet braking system.
A fall arrest system is a personal fall protection system that arrests a free fall and which limits the impactforce on the body of the user or goods during fall arrest.
In the event of a fall, the retractor will lock and suspend the person until either self-rescue or outside assistance becomes available.

BLACK VIPER 1.8M , 3M, 6M

Retractable fall arrester EN 360,
Webbing length 1.8m,3m,3m
Webbing extends and retracts automatically following the movements of the user. Maximum weight 100kg.
Maximum force in the event of fall <6kN (internal shock absorption system).
Self-locking device for vertical and horizontal operation.
Certified for vertical use (standard EN360 certification), and horizontal applications over sharp edges conforming to European test 11.060 Type A (when used with Shock Absorbing Lanyard, supplied separately).

CE
EN 360

Connector

Attachment point

PA shells
for best strength

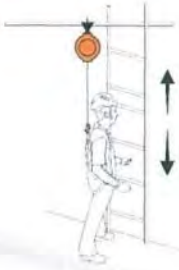
Label

Dyneema 20mm
Stregnth 15Kn
Length 1.8m,3m,6m

Fall indicator integrated on the connector

Double action safety connector with aluminum swivel hook strgthn 25Kn

Vertical use



Horizontal use

Horizontal Use Lanyard
(supplied separately)

Retractable Fall Arresters Instructions

BLACK VIPER

EN 360:2002 | CE

Model	Material	Length	Material
WA-02	Dyneema	1.8 Meter	20MM
WA-03	Dyneema	3 Meter	20MM
WA-06	Dyneema	6 Meter	25MM
WAE-02	Dyneema	1.8 Meter(Absorber)	20MM
WAE-03	Dyneema	3 Meter(Absorber)	20MM
WAE-06	Dyneema	6 Meter(Absorber)	25MM

This manual is intended to meet the manufacturer's instructions as required by EN360:2002,and should be used as part of an employee training program as required by EN

IMPORTANT:

If you have any questions on the use ,please contact your retailer or service agent.

Manufacturer's instruction must be followed for proper use and maintenance of this system. Alterations and misuse of this system or failure to follow instructions may result in danger injury or death.

PURPOSE:

Retractable Fall Arresters are components in personal fall arrest systems. They are to be used in situations where worker mobility and fall protection is needed(inspection work, general construction, maintenance work, oil production ,confined space work,etc.)

FALL ARREST:

Is used as part of a complete fall arrest system such systems typically include a full body harness ,anchorage connector(i.e karabiner) and the Fall Arrester. This type of system is used where a fall hazard exist.

MOVEMENT:

VERTICAL MOVEMENT ON A PERMANENT STRUCTURE
LONG VERTICAL MOVEMENT ON INCLINED SURFACE
LONG HORIZONTAL MOVEMENT ON INCLINED SURFACE

LIMITATIONS

The following application limitations must be considered before using this product.

CHEMICAL HAZARDS:

Solutions containing acid or caustic chemicals ,particularly at elevated temperatures, may damage the fall arrester. When working with such chemicals, frequent inspections of the entire fall arrester must be completed. Chemical damage to the stainless steel lifeline is difficult to detect and it is recommended that the lifeline be replaced periodically to ensure safety. The lifeline must be replaced by an authorized service agent.Consult authorized fall arrester service agent if in doubt about using this product around chemical hazards.

HEAT:

This product is not designed for use in high temperature environments . Provide protection for this product when using near welding ,metal cutting, or similar activities. Hot sparks may burn or damage this product.

ELECTRICAL HAZARDS:

Use caution, when the cable may be in danger of making contact with high voltage power lines. There is a possibility of electric current flowing through the cable.

CAPACITY:

The fall arrester is for use by persons with a combined weight(person, clothing, tools, etc.) of 100kg.No more than one person can connect to a fall arrest system at any one time.

NORMAL OPERATONS:

Normal operation will allow the full length of cable to extend and retract as the worker moves. The cable must remain taut at all times during normal use. If the cable is slack, the fall arrester must be taken out of service and inspected. If a fall occurs, the speed sensing brake system will be activated, stopping the fall and absorbing much of the energy created. For falls that occur near the end of cable travel, the reserve cable system will ensure a reduced impact fall arrest. If a fall has been arrested, the fall arrester must be taken out the service and inspected. Sudden or quick movements should be avoided during the normal work operation, as this many cause fall arrester to lock-up .

LOCKING SPEED:

Situations which do not allow for an unobstructed fall path should be avoided. Working in confined or cramped spaces may not allow sufficient speed to cause the fall arrester to lock in a fall. Working on slowly shifting material, such as sand or grain, may not allow sufficient speed to cause the fall arrester to lock. A similar situation may occur on low pitched roofs, where a worker may slide instead of fall. A Clear path is required to ensure positive locking of fall arrester.

TRAINING

This product must be installed and use by persons trained in its correct application and use.

SYSTEM REQUIREMENTS:

The fall arrester products is designed for use with CE standard Products approved components and subsystems only. Substitutions or replacements made with non-approved components or subsystems may jeopardize compatibility of equipment and may affect the safety and reliability of the complete system. When using a fall arrester with a support structure (i.e. tripod, davit arm)ensure the support structure is compatible with the connection operation, stability , and strength of the fall arrester.

OPERATION AND USE:

BEFORE EACH USE carefully inspect it according to the following list steps:

Step1:
Inspect for loose screws and bent or damaged parts.

Step2:
Inspect the housing for distortion ,cracks or other damage .
Ensure the karabiner moves freely and is free from distortion, cracks, burrs and worn parts.

Step3:
The main cable must fully extend and fully retract. The cable must be taut(under tension).

Step4:
Ensure the device locks up when the main cable is jerked sharply , the lock up must be positive with no slipping.

Step5:
Look for signs of corrosion on the entire unit.

Step6:
Inspect the cable. Look for any lose nuts, kinks, burns, broken wires or strands, chemical damage, and severe abrasion.
The cable must not be damaged.

Step7:
Record inspection results in the equipment record sheet.

MAINTENANCE ,SERVICING .STORAGE :

Periodically clean the plastic shell Of fall arrester with water .The fall arrester so excess water can drain out ,clean labels with cloth wipe .

Clean cable with a wet water cloth .Rinse and thoroughly air dry .Do not force the drying with heat .An excessive build up of dirt ,paint ,etc., may prevent the cable from fully retracting , causing a potential free fall hazard . Replace the cable if there is excessive build up .

Clean and store body support and associated system components according to the manufacturer's instructions .

Store the fall arrester in a cool , dry, clean environment , out of direct sunlight .Avoid areas where chemical vapours may exist . Inspect the fall arrester after extended storage.

EXPLANATIONS FOR THE PICTOGRAMS ON THE LABEL

If a thread breaks, the cable /lay becomes roughened, worn or damaged in any way the fall arrester must be returned to the home dealer so that the damaged component can be replaced

Temperature of use : from -30 °to+ 50°

The braking function operates by giving a quick tug on the cable hook .The cable should brake immediately.

Store the fall arrester,hanging up ,in a ventilated place away from humidity and from ultraviolet lights .

Safety harnesses according to EN361 are permitted for use with the fall arrestor (other harnesses Etc. Are not permissible)

It is strictly forbidden to modify or repair a PPE yourself . Only the manufacturer or a repair centre is qualified to carry out these repairs.

Maximum human load: 100 kg.

Limit of pendular movement inferior to 30°

PLANING YOUR SYSTEM

Plan your fall protection system and how it will be used before starting your work. Consider all factors that will affect your safety before, during, and after a fall .The following list gives some important points to consider when planning your system .The anchorage location must be carefully selected to reduce free fall and swing fall hazards, and to avoid striking and object during a fall. Do not work above your anchorage level and avoid an increased freefall distance.

FREE FALL:

Personal fall arrest systems must be rigged so the potential free fall is never greater than 1.8meters .Avoid working above the anchorage level to avoid working where your line may cross or tangle with that or another workers or objects .Do not allow the cable to pass under arms or between legs .Never clamp or knot the cable or prevent the cable from retracting or being taut. Avoid slack line. Do not connecting a lanyard or other parts without consulting with Safety line products.

SWING FALLS:

Swing falls occur when the anchorage point is not directly above the point where a fall occurs. The force of striking an object in a swing fall may cause serious injury. In a swing fall may cause serious injury. In a swing fall, the total vertical fall distance will be greater than if the user had fallen directly below the anchorage point, thus increasing the total free fall distance and the area required to safety arrest the user . The fall arrester will activation relative to the user. The recommended work zone represents the typical acceptable work area for most applications .Review your specific application to deter what the appropriate work zone should be.

WARNING Minimize swing falls by working as directly below the anchorage point as possible. Never permit a swing fall is injury could occur.

FALL CLEARANCE:

Ensure adequate clearance exists in your fall path to prevent striking an object. A minimum of 2.90 metres from working level to lower level or nearest obstructions recommended.
IMPORTANT Do not use a body belt for free fall applications. Withdraw from use immediately if there is any doubt about its safe condition or is it has already arrested a fall , the equipment shall not be used again.

MAKING CONNEXTIONS:

When using a hook to make a connection, ensure roll-out cannot occur. Roll-out occurs when interference between a hook and the mating connector causes the hook gate to lock. Self locking karabiners must be used to reduce the possibility of roll-out when making connections. Do not use hooks or connectors that will completely close over the attachment object.

OPERATION:

Inspect the fall arrester as described in the steps. Connect the fall arrester to a suitable anchorage or anchorage connect the self locking snap hook or self locking karabiner on to the full body harness .Ensure the hook is securely closed and locked.

USE:

When attached to fall arrester, the user is free to move about within recommended working areas at normal speeds. Should a fall occur,the fall arrester will lock and arrest the fall,Upon rescue,remove the fall arrester from use.