SECURE FIRST™
Fall Protection Equipments

USER INSTRUCTION
Load Arrester

VIRAJ
VSPL GROUP

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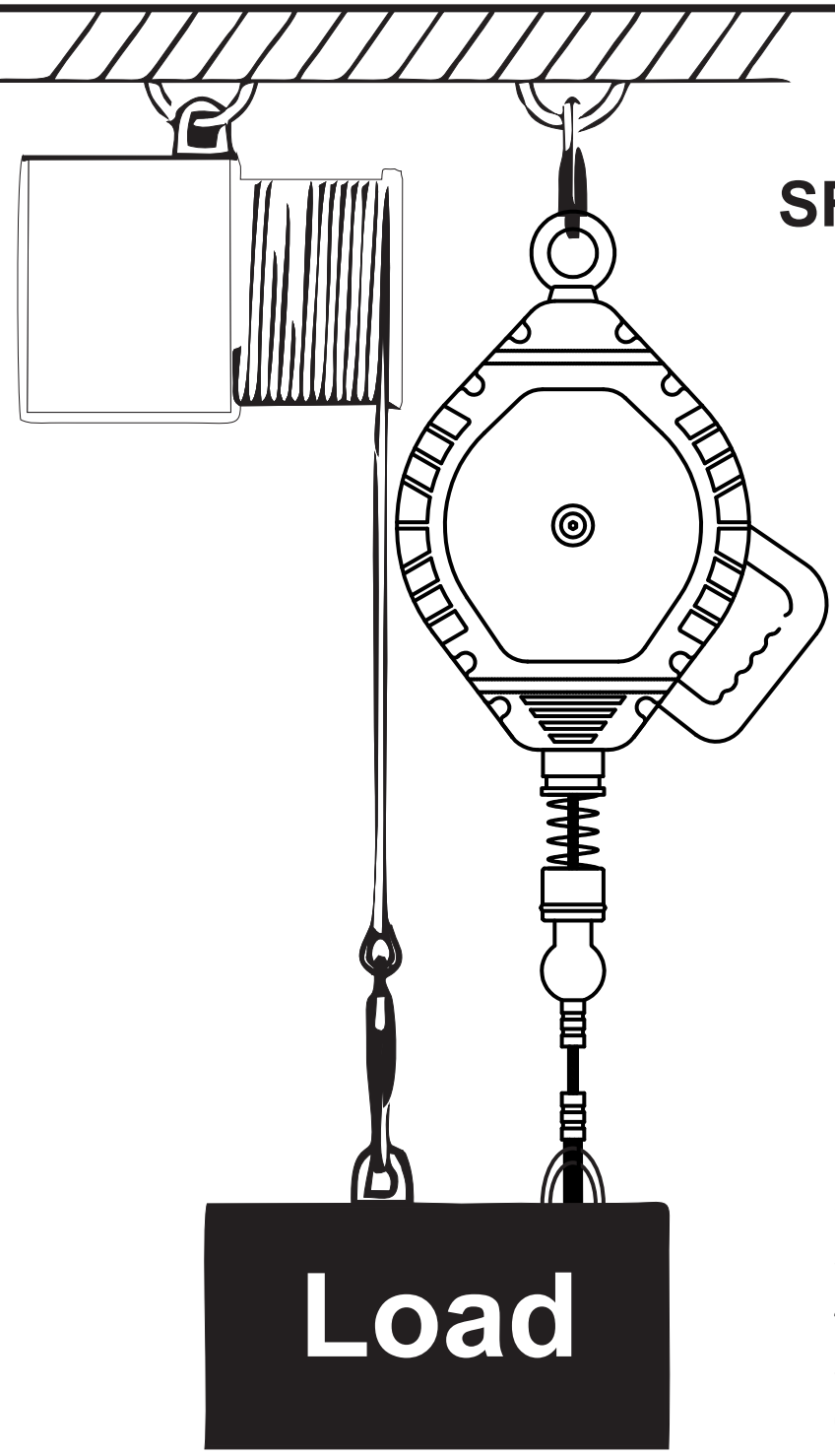

SF-LA-200/300/400/500

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1. Safety Instruction

1. A Load Arrester Is a piece of safety equipment intended to brake and arrest a load if it fall.
2. The load arrester must not be used to prevent falls from a height of persons. It is not a PPE
3. Make certain that the secured load does not exceed the maximum usage load.
4. Prior to any use of the load arrester, it is essential that the user instruction are load and followed. They must be made available to all person using the load arrester.
5. All person required to install or use a load arrester must be trained in its method of functioning with these user instruction.
6. Never Use the load Arrester if there is a apparent damage. A visual inspection of the device is recommended prior to each use. A Load arrester that has arrester a fall (fall indicator activated) or which shows apparent damage must be returned for service.
7. Never use a load arrester that has arrested a fall until it has been serviced.
8. Do not connected the load arrester in any way other than by its anchorage.
9. Never obstruct the vertical alignment of the load arrester with the load.
10. Never use the cable as a sling.
11. Never open the load arrester or grease the inside of the device.
12. The structure to which the load arrester is to be connected must have a resistance of 15kN minimum.
13. When is use the temperature must be between -30˚C and +50˚C (-22˚F and + 122˚F)

2. Technical Specification and Description:

The Load Arrester Complies with Machine Directive 2006/42/EC and consists of the following components. See Figure 1 :

1. Housing.
2. Top Swivel for connection to structure.
3. Connection to the load, fall indicator.
4. Label.
5. Cable

Stroke :	14 m direct, 7 m with a pulley
Maximum load to be made safe :	200 kg direct
Weight :	4.380 kg
Cable :	Galvanized steel, 4.8 to 5.0 mm in diameter
Dimensions :	160 mm x 89 mm x 580 mm
Maximum vertical use speed :	35 m / min
Maximum Clearance required :	2 m
Authorized temperature range :	between -30˚C and + 50˚C (-22˚F and + 122˚F)

The Load Arrester immediately brake and arrest the fall of a load. It is used as safety Device in combination with the main equipment supporting the load (example : winch or sling) to prevent its failure (example : cable breakage).

The Load Arrester is Connected to the structure above the load to be made safe and is always vertical to it. If the load must be moved horizontally (e.g.: bridge crane), the load arrester must be integral to the moving structure so that it is always vertical to the load. The load can then be moved In the axis vertical to the load arrester.

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A Return Spring Allows the Cable on the device to easily wind in and out to follow the mass in its vertical movement and make certain that the cable always remain under tension.

The Load is connect to the fall indicator on the load arrester. In the event of a Fall the cable, which is under tension, very quickly reaches a speed higher then 1.5 m / s. At this speed, ratchets operating by inertia will lock into a sprocket and engage a break disc. The break disc quickly brakes the load, reducing the impact stress on the equipment, and prevents further downward movement of the cable.

The Load Arrester can be used outside.

3. Installation:

The Load Arrester must be used vertically and must be connected vertical to the load. The structure to which the load arrester is connected must have a resistance of 15 kN minimum. Before Installing the load arrester confirm that will always be a clearance of at least 2m under the load. No additional sling or device can be between the load and the load arrester cable. The working stroke of the load must not exceed the maximum length of the load arrester cable. In a case of Fall, the load will be stopped. The damage or broken fall indicator will indicate that the fall has occurred.

1. Fall Indicator before fall.

2. Fall Indicator after fall.

After a fall, the load arrester must be serviced immediately.

In the event of a fall, the load must be secured and then raised by 10 cm in order to disengage the load arrester, provide enough working space to permit this to be done if a fall does occur. for installation restriction.

4. Inspection prior to each Use:

Confirm that unit installation meets requirement described in **3 Installation.**

Remove from service if:
- The housing or top Swivel are distorted.
- There is excessive wear of the cable guide.
- The cable bumper stop is missing.
- The internal spring does not maintain adequate cable tension.
- Label are missing or illegible.

Check the engagement of the pawls. The cable must be arrested (locks) when it is pulled quickly and must remain arrested while the force used to pull the cable remains.

1. Pull quickly

2. Cable " Locks".

Confirm that the fall indicator has not been activated. Never Use A Load Arrester that has arrested a fall until it has been serviced.

Confirm that there is no damage to the cable over its entire length:

- Install the load arrester (Preferably in a vertical position) Make certain that person in the surrounding area are a safe distance away and that they have been provided with protective gloves. Pull the cable out completely and check.

1. There is no excessive corrosion in the cable.

2. None of the wires in the cable are broken.

3. The Ferrules are not damaged.

4. Confirm that the fall indicator is intact and that the pin is neither broken nor completely distorted.

5. The Cable bumper stop is in place and tightened properly (not loose).

After inspection of the cable, hold on to the cable as it rewinds. Do not Allow it to rewind by itself. Control the rewinding speed.

If the cable is dirty, use a cloth impregnated with oil to remove the dirt from the cable while it rewind.

5. Use

Before using the load arrester, confirm that the structure it is mounted to has a minimum resistance of 15 kN.

Connect the top swivel on the load arrester to the structure using a connector that has a minimum resistance of 25 kN.

Connected the fall indicator to the load by means of a connector with a minimum resistance of 25 kN. The Load is now secure and you can move it.

The cable must remain under tension when the load is moved vertically.

If the Cable is not under tension but is locked or has some slack, use an alternative method to make the load safe and inspect the load arrester.

Pull the Cable manually using protective Gloves. To avoid jamming strands in the cable, do not apply more force than the weight of the one person pulling on the cable.

> ***Warning:*** *If cable does not come free or still has come slack, immediately stop the use of the use of the load arrester and return it for servicing*

If the load arrester locks when there has not been a fall, use another method to secure the load and raise it by 10 cm. The Load arrester ratchets will than operate normally. If the movement speed of 35 m / min has been exceeded, immediately replace the load arrester and return it for servicing. In the event that the load arrester is triggered by arresting a fall, use an alternative method to make the load safe and raise it by 10 cm in order to disengage the load arrester. Take the necessary precautions to return the entire system to working order and ensure its safety. Use a new load arrester or a serviced load arrester after the fall.If you want to disconnect to the load arrester from the load, do not release the cable on its own. Hold onto it by hand or using a thin cord as it rewinds into the load arrester.

> ***Warning:*** *If you do not do this, it may rewind incorrectly and jam.*

If the load arrester is used outside for a long period of time, particularly in difficult condition (saline atmosphere, rain, etc.), Regularly check the condition of the load arrester, Particularly the cable. Return the device for servicing if premature wear or corrosion has occurred.

6. Storage

When not in use, Load arrester must be storage in a place protected from bad weather condition and humidity. During storage, the temperature must be between -30˚C and +50˚C (-22˚F and +122˚F).

Servicing / Maximum usage frequency

The load arrester must be inspected / serviced each year. the inspection / service must be performed by an authorized capital safety group service center.

The Maximum Number of cycles per day is 60 and the maximum number of cycle per year is7,000.if the load arrester is used intensively or has significant number of cycles that differ from one day to the next, the user must not the number of cycles so that the load arrester can be returned for servicing after 7,000 cycles.

IDENTITY CARD

MODEL AND TYPE OF EQUIPMENT			
REF. NUMBER			
SERIAL NUMBER		DATE OF MANUF.	
USER NAME			
DATE OF PURCHASE		DATE OF FIRST USE	

PERIODIC EXAMINATION AND REPAIR HISTORY

	DATE	REASON FOR SERVICE/REPAIR	CONDITION OF DEVICE AFTER SERVICING	NAME AND SIGNATURE OF COMPETENT PERSON	NEXT EXAMINATION DATE
1					
2					
3					
4					

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