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# **SAFETY DIRECT LTD.**

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## **Instructions for Class ADP Automatic Fall Arresters. Models MRP7361 & MSRP7361/E4 & MSRP7361/E6**

### **WARNING**

Failure of the user to read and understand all instructions for use of this equipment may result in serious injury or death.

It is recommended that the user complete an approved fall protection program before using the product.

There should be an approved rescue plan in effect on any work site prior to the commencement of working at heights. The rescue plan must have provision to retrieve any worker, suspended as a result of a fall arrest, without delay in order to reduce the effects of suspension trauma.

The MRP7361 is designed with an integral non energy absorbing lanyard to connect a full body harness to a lifeline for fall arrest use. The device automatically protects a worker from falling to a lower elevation by the use of a suitable lifeline with an integral energy absorber attached to a load rated anchorage.

The MSRP7361/E4 has an integral Class E4 Energy Absorber in the 2 ft attached lanyard that limits the force applied to the body to 4 kN in the event of a fall arrest incident.

The MSRP7361/E6 has an integral Class E6 Energy Absorber in the 2 ft attached lanyard that limits the force applied to the body to 6 kN in the event of a fall arrest incident.

The Fall Arrester is certified for use with the following lifelines only:

- 1) 5/8" diameter 3 strand Polysteel Lifeline as supplied by Safety Direct Ltd.  
Part No. SRTxxxA
- 2) 5/8" (16mm) low stretch nylon kernmantle rope as supplied by Safety Direct Ltd.  
Part No. CI 10-316xxx

Use of Lifelines, other than those listed above, can result in failure of the device to operate and could cause serious injury or death.

## **General Instructions**

All warning labels and instructions must be understood and followed by the user before using the product.

All users must understand the relevant regulations and usage standards for fall protection, pertaining to this product, in the jurisdiction in which it is being used.

Only trained and competent personnel should use these products.

All fall protection equipment must be visually inspected by the worker prior to each use.

All fall protection equipment must be inspected by a competent person on a regular basis (at least annually).

Fall protection equipment must not be altered or modified in any way.

To reduce the possibility of accidental release, a competent person must ensure that all the system components are compatible.

Any equipment exhibiting deterioration, damage or deformation must be removed from service immediately and inspected by a competent person before being returned to service.

All equipment subjected to a fall arrest or fall incident must be removed from service immediately and be tagged for further inspection to determine the disposition of the equipment.

## **Usage Instructions**

Failure to follow these instructions could result in catastrophic failure of the lanyard in the event of a fall arrest situation.

In the event of a fall arrest the suspended worker should be rescued without delay in order to minimize the effects of suspension trauma.

The MRP7361 and MSRP7361 must be installed on the rope with the arrow on the device orientated towards the anchor point of the Lifeline. Failure to follow this instruction will result in the device not operating correctly and in the event of a fall the Fall Arrestor will not lock onto the Lifeline and consequently will not arrest the fall.

The Fall Arrestor is used in the system to afford fall protection and travel restraint to workers on inclined surfaces, roofs and vertical ladders or scaffolds. It is recommended that the system be used with an energy absorber, either between the lifeline and the anchorage or between the body holding device and the lifeline. This will ensure that the worker is protected against injury, either due to a fall from a ladder or scaffold or over an edge or through an opening to a lower elevation. The system can also function as a travel restraint by restricting the overall working length of the system to prevent the worker from reaching an edge.

The Fall Arrestor will move along the length of the lifeline automatically if the Lifeline is either vertical or close to vertical. In those instances where the inclined surface is at a shallow angle to the horizontal the device may not follow the worker. ***In which case it is important that the worker is careful and monitors the position of the Fall Arrestor in order to eliminate any "slack rope" condition that may be present.*** The worker is connected to the Lifeline by a 0.6 m (2 ft) integral lanyard attached to the Fall Arrestor and connected to the Dorsal D-ring on the full body harness by means of the locking snap hook on the end of the lanyard.

The system is designed for a maximum capacity of one person or 140 kg (310 lb) with the MSRP7361/E4 when the lifeline is attached to a suitable anchor.

The system is designed for a maximum capacity of one person or 175 kg (386 lb) with the MSRP7361/E6 when the lifeline is attached to a suitable anchor.

When using the MRP7361, it is recommended that the Lifeline should be attached using an energy absorber to an anchor that is rated for 22.2 kN (5,000 lb). The capacity of the system will be determined by the rating of the energy absorber used.

When using the MSRP7361/E4 or the MSRP7361/E6, the energy absorber is integral to the lanyard that attaches the fall arrester to the harness. The user is responsible for ensuring that the anchor is compatible with the system and meets any applicable regulations in the jurisdiction in which the system is being used. If the energy absorber is removed from the

system the force on the anchor and on the worker, as a result of a fall, especially under “slack rope” conditions, could result in damage to the anchor and serious injury to the worker.

### **Product Design Parameters.**

#### E4 Energy Absorber

Average Arresting Force ( $F_{avg}$ ) as per CSA Z259.11-05: 2.65 kN.

Maximum Elongation ( $X_{max}$ ) as per CSA Z259.11-05: 1.24 m.

#### E6 Energy Absorber with BLUE Backup Strap

Average Arresting Force ( $F_{avg}$ ) as per CSA Z259.11-05: 3.97 kN.

Maximum Elongation ( $X_{max}$ ) as per CSA Z259.11-05: 1.24 m.

#### E6 Energy Absorber with GREEN Backup Strap

Average Arresting Force ( $F_{avg}$ ) as per CSA Z259.11-05: 3.25 kN.

Maximum Elongation ( $X_{max}$ ) as per CSA Z259.11-05: 2.24 m.

### **Caution.**

**The user must make sure to calculate the fall clearances required for the entire system, taking into consideration the rope stretch, harness stretch and energy absorber elongation, from their respective product instructions.**

### **Operation.**

The full body harness should be adjusted and fitted in accordance with the instructions supplied with the harness.

The Lifeline should be connected to the anchor using the locking snap hook on the end of the energy absorber or lifeline. The anchor chosen must have a rating of 22.2 kN (5,000 lb). Once the Lifeline is installed on the anchor the worker can attach the Fall Arrester at any point along the Lifeline by opening the side of the Fall Arrester. Ensure that the arrow on the Fall Arrester is pointing upwards towards the anchor point of the Lifeline. The Fall Arrester can now be closed and locked into place on the Lifeline. The locking snap hook, on the short lanyard attached to the Fall Arrester should now be attached to the Dorsal D-ring on the full body harness and verify the locking of the gate on the snap hook onto the D-ring.

The arrow on the Fall Arrester must be orientated toward the end of the lifeline to be attached to the anchorage, and not toward the free end of the lifeline.

Once the worker has confirmed the connection of the Fall Arrester to the full body harness and that the gate on the snap hook has closed and locked correctly, the system is ready for use.

As the worker moves vertically away from the anchorage the Fall Arrester will automatically follow the worker. Failure of the device to follow the worker may be due to the angle of the incline being too shallow or that the device is not traveling freely on the lifeline. In the case of the shallow angle incline the worker must ensure that the Fall Arrester is close to his workstation, and that a **“slack rope” situation has not developed**. If the Fall Arrester does not travel freely on the Lifeline then the diameter and the manufacturer of the Lifeline must be determined to ensure that it is compatible with the Fall Arrester. The Lifeline to be used with the Fall Arrester is specified on PAGE # 1.

Failure to use the specified Lifeline can result in malfunctioning of the Fall Arrester and failure of the Fall Arrest System.

Before commencing work on a ladder or inclined structure, the limit of travel must be determined so that the worker cannot exceed the length of the Lifeline. The travel of the Fall Arrester can be restricted by tying a double overhand knot in the Lifeline.

When the system is being used as a work positioning device care must be taken to adjust the lower termination limit of the lifeline to ensure that the worker is not exposed to a fall. The termination knot (double overhand knot) should be re-tied so that the worker cannot exceed the limit of travel when the lifeline is taut.

The position of the anchorage should be chosen so that it is immediately above or upslope of the work area, so that the worker is not subjected to a pendulum fall. The anchorage must be rated at 22.2 kN (5,000 lbs) and only one worker can be attached to each anchorage.

## **Care and maintenance**

The Rope Adjuster should be inspected by the user before each use to ensure that the locking cam is functioning correctly; the device should be inspected by a competent person on an annual basis.

If the inspection reveals that the device is not locking securely onto the lifeline or if it exhibits any deformation it must be removed from service immediately until it can be repaired or replaced.

The presence of any of the following conditions require that the device be removed from service until it can be inspected by a competent person:

- 1) If it has been subjected to a fall arrest.
- 2) If there is any evidence of deterioration or damage, such as cracks, burrs, corrosion or excessive wear.
- 3) Alteration of the device in any way.

When not in use the device should be stored in a cool dry place and if the device is wet it should be dried and lightly oiled to prevent corrosion and ensure correct operation. Any excess oil should be removed before use.

The lifeline should be inspected along its full length to ascertain if there is any damage or deterioration of the lifeline. The lifeline should be removed from service if the presence of any of the following are present:

- 1) Cut or damaged strands in the lifeline.
- 2) The lifeline shows any signs of hocking or unlaying (untwisting) of the strands.
- 3) The lifeline shows any variation in the diameter along its length.
- 4) The surface of the lifeline exhibits excessive fuzziness or broken fibres caused by excessive abrasion.
- 5) Adulteration of the lifeline by paints, solvents or other chemical agents.
- 6) The lifeline should only be used as a part of a travel restraint or fall restraint system.
- 7) If the energy absorber (when present) has been partially deployed.

The lifeline should not be returned to service until it has been inspected and any necessary repairs completed by a competent person.

## **WARNINGS**

**Always check the area below the worksite for potential hazards.**

**The total fall distance calculations must allow for the deployment of an energy absorber if one is included in the system.**

**In the event of a fall and the worker is suspended the worker must be rescued without delay to reduce the possibility of suspension trauma.**

**Any system that has arrested a fall must be removed from service immediately and must be inspected by a competent person to determine its disposition.**

**All users must read and understand these instructions before using the system, failure to do so could result in serious injury or death.**

**Fall Protection You Can Live With! ®**

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