

Part #501159-001

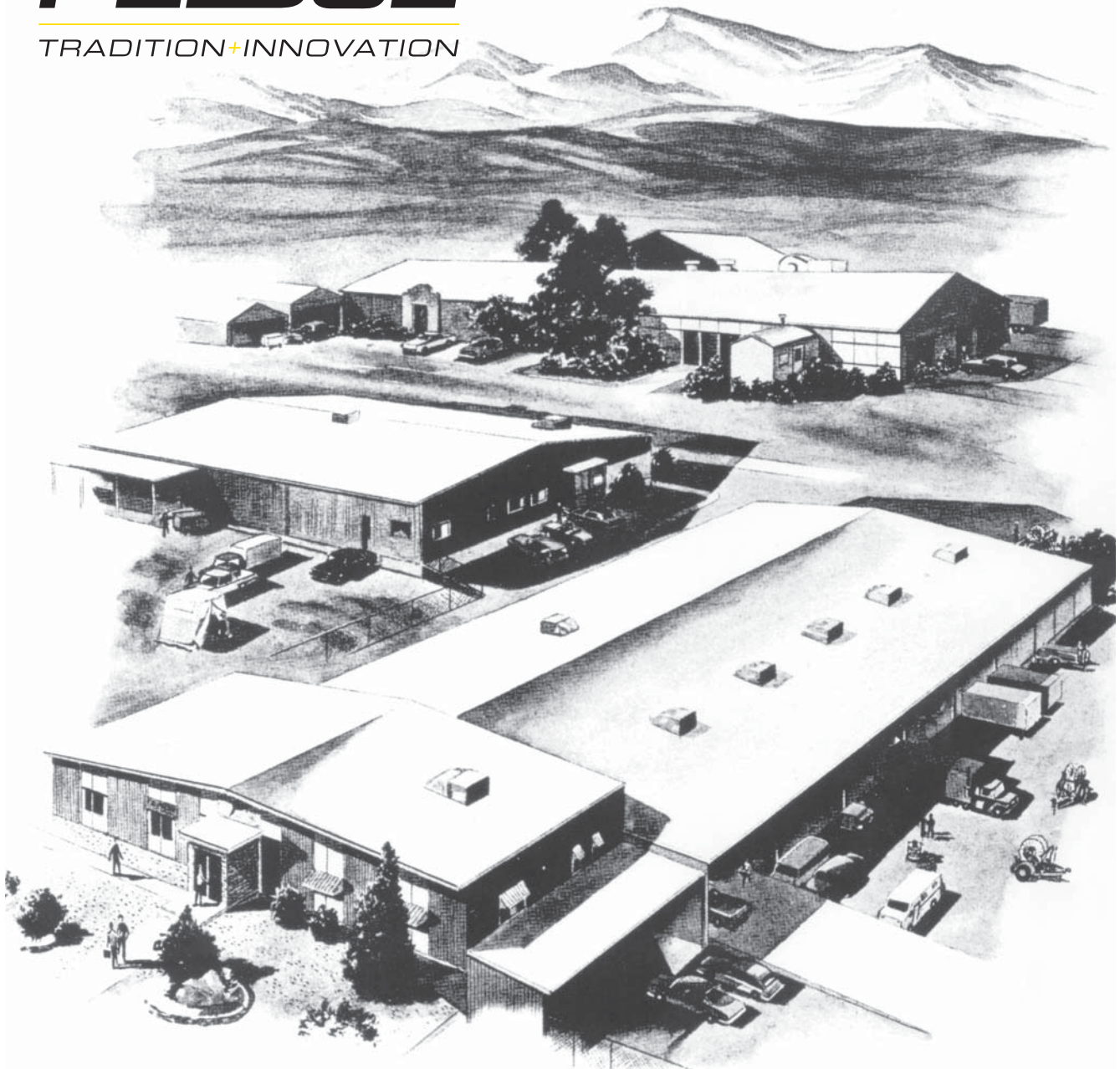
Product Manual:

PSRL1150 Series Self-Retracting Lifelines




PELSUE[®]
ISO 9001 Certified

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Since our inception in 1963 – the T.A. Pelsue Company has designed and manufactured high quality equipment to improve the personnel efficiency and working conditions in various underground, confined, and outdoor areas.

Founded by T. Allen Pelsue, the company has established a continuing reputation for excellence in the production of fine products for a broad spectrum of industry throughout the world.

Now, in our second generation of family direction, continued commitment to innovation and quality makes Pelsue a leading source of equipment for many types of confined spaces. We specialize in safety, retrieval, fall arrest, ventilation, cable placing, splicing, and maintenance nationally and abroad. With more than 70,000 square feet of facilities available, Pelsue continues the dedication that has made us pre-eminent in this field.

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T.A. Pelsue Company

Quality Policy

OUR GOAL IS THE PURSUIT OF NEVER-ENDING IMPROVEMENT IN PRODUCT QUALITY AND BUSINESS SYSTEMS.

METHODS TO BE EMPLOYED IN ATTAINING THIS GOAL WILL INCLUDE NEW PRODUCT QUALITY PLANNING, EMPLOYEE TRAINING, AND UTILIZATION OF EMPLOYEE INVOLVEMENT GROUPS TO SOLVE PROBLEMS.

IN AN INCREASINGLY COMPETITIVE MARKETPLACE, ENSURING CUSTOMER SATISFACTION IS ONE OF THE DIFFERENTIATORS THAT SETS YOU APART FROM THE PACK AND YIELDS A COMPETITIVE ADVANTAGE.

THEREFORE, WE WILL SUPPORT TOTAL CUSTOMER SATISFACTION BY IMPLEMENTING THE **ISO 9001 QUALITY SYSTEM** AND PROVIDING THE NECESSARY ATMOSPHERE AND TRAINING TO NURTURE THIS CONCEPT THROUGHOUT OUR ORGANIZATION.

WE WILL MAKE EVERY BUSINESS DECISION AS THOUGH THE QUALITY OF THE PART OR SERVICE PROVIDED WAS DESTINED FOR OUR OWN OR OUR FAMILY'S USE. WE WILL ALWAYS THINK **QUALITY FIRST**.

EVERY T.A. PELSUE COMPANY EMPLOYEE IS EXPECTED TO COMMIT TO THIS PHILOSOPHY IN THE PERFORMANCE OF HIS OR HER DAILY TASKS.

QUALITY FIRST!

T.A. PELSUE COMPANY SENIOR MANAGEMENT TEAM

1.2 - Pelsue Product Warranty

Pelsue products are designed and engineered to perform as stated in published specifications. Quality materials and workmanship are used in the manufacture of this product. With regular maintenance and proper care, Pelsue equipment provides many trouble free hours of operation.

The T.A. Pelsue Company warrants to the buyer that the Hoist Product furnished will conform to specifications and will be free from defects in material and workmanship from the date of shipment to the original buyer, for a period of 3 months (90 days). In the event of failure of any components of a Pelsue product within the warranty period, service must be pre-approved by the T.A. Pelsue Company, and service must be performed by the T.A. Pelsue Parts and Service Department in Englewood, Colorado, or at the option of the T.A. Pelsue Company, service may be performed at any designated service center, which may include any authorized service center for the component manufacturer. Unauthorized repairs will not be covered by this warranty.

Damage or failure due to misuse, mishandling, or unauthorized modifications will not be covered by this warranty. Unless otherwise agreed, the T.A. Pelsue Company shall repair or replace the defective components within (30) calendar days of notice of failure. T.A. Pelsue Company's obligation hereunder, shall be limited to the repair or replacement of the product or component as set forth above and shall not include any liability whatsoever for damages caused by such failure, including, but not limited to consequential or incidental damages flowing from use or lack of use of product.

Any replacement, repair, modification, installation, or other service performed by the T.A. Pelsue Company shall be warranted by the remainder of the unexpired period of the warranty, or for a period of (90) calendar days, whichever is longer.

All materials or parts returned for credit or warranty shall be returned only with prior approval, and will be subject to factory inspection before credit is allowed. Parts claimed defective will be replaced upon request and will be invoiced as purchased, subject to credit when the parts claimed to be defective have been received and examined by the factory.

This warranty is expressly in lieu of all other warranties expressed or implied, including any warranties of merchantability or warranties of fitness for any particular use and all other obligations or liabilities in connection with the sale of this equipment.

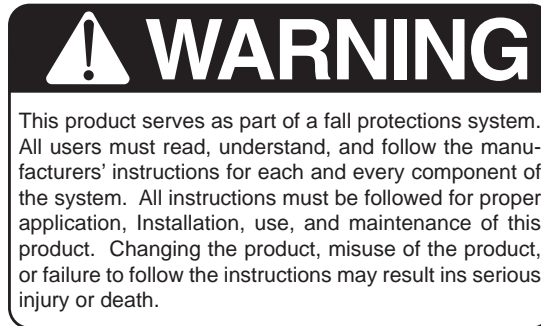
T.A. Pelsue Company, 2500 South Tejon Street, Englewood, Colorado 80110, 800-525-8460

2.0 - Introduction & Product Information

This manual is intended to meet the Manufacturer Instructions as required by ANSI Z359.1 and should be used as part of an employee training program as required by OSHA.

This manual applies to the following Models:

- PSRL1150-SS
- PSRL1150-TR



DESCRIPTION

PSRL1150 Series Retractable lifelines come with a carabiner for anchorage tie-off, impact indicating swivel locking snap hooks for harness connection, and a choice of stainless steel or synthetic rope in lengths of 50 feet.

3.0 - Applications

3.1 PURPOSE

T.A.. Pelsue self-retracting lifelines are components ion a personal fall arrest system (PFAS). They are to be sued in situations where worker mobility and fall protection is needed.

A. FALL ARREST

This device is sued as part of a personal fall arrest system, which includes a T.A. Pelsue full body harness and a T.A. Pelsue anchorage connector

3.2 LIMITATIONS

A. CAPACITY: The SRL is for use by a single person with a combined weight (person, clothing, tools, etc.) of 310 LBS. maximum.

B. FALL CLEARANCE: Proper clearance must be present below the worker to arrest a fall and avoid striking a lower level, obstruction or the ground. A clear fall path must be present to ensure that the retractable lifeline will arrest a fall.

C. STANDARD USE: The retractable lifeline will extend and retract the full length of the lifeline while keeping some tension on the line. If a fall occurs, the retractable lifeline will arrest the fall and absorb the energy created during the fall. If a fall occurs at the maximum lifeline length, the retractable lifeline is equipped with additional length to allow for full function during the arrest. Always use a tag line when conditions require. Always allow the lifeline to slowly retract into the housing. Avoid swing falls by always working directly under the anchorage. Never work above the anchorage. Do not use if any part of the system does not pass inspection. Do not service this device. Do not allow lifeline constituent (cable/synthetic rope) to come into contact with anything that will damage the lifeline including sharp, abrasive, rough, or high temperature surfaces, welding, heat sources, electrical hazards, or moving machinery. Do not service or lubricate this device. Service is to be performed only by the T.A. Pelsue Company or authorized agents.

3.0 - Applications (continued)

D. ENVIRONMENTAL CONDITIONS: Conditions in the surrounding environments can cause damage and may affect the performance of the product. Use in these environments may require more frequent inspections and service. Such environments may include; chemical hazards, elevated temperatures, electrical hazards (always avoid contact with electrical hazards), corrosive environments, etc. Contact the T.A. Pelsue Company with any questions about corrosive environments

E. TRAINING: This equipment must be installed and used by persons trained in its application and use.



4.0 - System Requirements

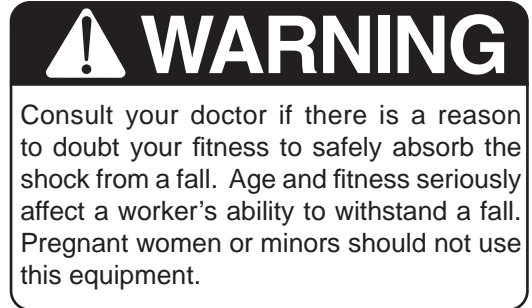
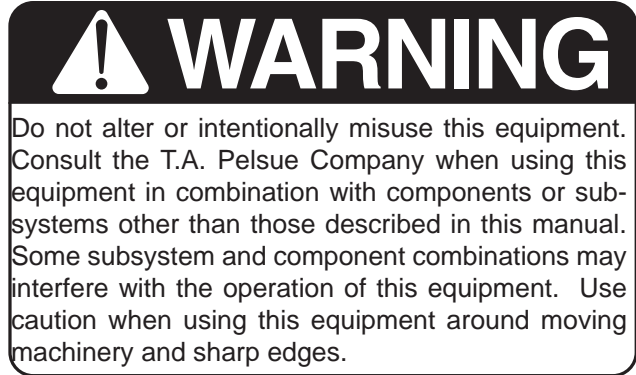
4.1 PERSONAL FALL ARREST SYSTEM: Pelsue retractable lifelines are designed for use with Pelsue approved components and subsystems only. Other components may be incompatible, which could directly affect the safety and reliability of the entire system. Personal fall arrest components used with this system must meet all applicable OSHA and ANSI requirements. A Pelsue anchorage connector and full body harness are recommended components for this retractable lifeline.

4.2 COMPONENT COMPATIBILITY: Pelsue equipment is designed for use with Pelsue approved components and subsystems only. Substitutions or replacements made with non-approved components or subsystems may jeopardize compatibility of the unit and may affect the safety and reliability of the complete system.

4.3 CONNECTOR COMPATIBILITY: A connector is considered to be compatible with the connecting element when the interlinking parts will not cause the gate mechanism to open or apply force to the gate mechanism regardless of the orientation. Do not use any connector that is not compatible. Contact the T.A. Pelsue Company if you have any questions about compatibility.

4.4 CONNECTIONS: Connections should only be made using self-locking snap hooks and carabiners, Self-Locking snap hooks and carabiners must have a minimum tensile strength of 5000 LBS. All connections must be compatible in size, shape, and strength. All connectors must be fully closed and locked. Contact the T.A. Pelsue Company if you have any questions about connections. Pelsue connectors are specifically designed to be used according to each product's instructions. Refer to all OSHA and ANSI standards for proper connections.

4.5 ANCHORAGE STRENGTH: The anchorage and anchorage connector used for personal fall arrest equipment shall be independent of any anchorage being used to support or suspend platforms and be capable of supporting at least 5000 LBS. (22.2 kN) per employee attached, or shall be designed, used, and installed as part of a complete PFAS which maintains a safety factor of at least two under the supervision of a qualified person.



5.1 **BEFORE USE:** This equipment must be carefully inspected according to the inspection criteria **before each and every use.**

5.2 **FALL PROTECTION PLAN:** Plan the use of your system **BEFORE** installation. Consider all factors that will affect your safety during the use of this equipment. The following points are some of the factors that must be considered.

A. ANCHORAGE: The anchorage selected should be as close as possible to being directly above the work area. The location of the anchorage is very important when considering swing falls and fall clearance, never work above the anchor. The anchorage should be overhead in order to limit free fall and avoid swing falls. The anchorage selected must meet the strength requirements of section 2.5.

B. FREE FALL: Fall arrest systems must be rigged so the free fall distance is never more than 6 feet. Retractable lifelines, when mounted overhead, will limit the free fall distance to 2 feet or less. Sloped/horizontal applications will greatly affect the free fall distance. A swing fall application will also increase the vertical free fall distance. Never knot, clamp, or fix the lifeline in a stationary position. Do not allow slack in the lifeline. The lifeline should be taught between the bottom of the housing and the connection to the user. Avoid situations where the lifeline can become entangled with other objects or workers. The lifeline should never be allowed to come under, around, or between the user's legs or around any appendage. Do not attach a lanyard or other lifeline to the retractable in an attempt to extend the length of the retractable lifeline. Contact the T.A. Pelsue Company with any questions about free fall distance.

C. AVOID SWING FALLS: A swing fall can occur when the anchorage is not directly above (overhead) the user at the point the fall occurs. The amount of energy generated by a swing fall is related to the distance from the vertical center of the anchorage location. Serious injury can result from striking an object during a swing fall. Swing falls will also increase the free fall distance. Avoid swing falls by working directly below the anchorage location.

D. FALL CLEARANCE: There must be proper clearance in the fall path from striking a lower level or other structures. When mounted directly overhead, the maximum arrest distance of a retractable lifeline is 4-1/2 feet (ANSI Z359). The arrest distance is the total vertical distance required to arrest a fall, including deceleration distance and activation distance. This arrest distance needs to be factored into the clearance distance, which should also include anchorage location, worker height, and safety factor. Contact the T.A. Pelsue Company with any questions about fall clearance.

E. SHARP EDGES: Do not allow the lifeline constituent (cable/synthetic rope) to come into contact with anything that will damage the lifeline including sharp, abrasive, rough, or high temperature surfaces, welding, heat sources, electrical hazards, or moving machinery. The PFAS should be rigged to prevent its contact with hazardous objects in the workplace, which could damage the equipment or prevent its proper functioning.

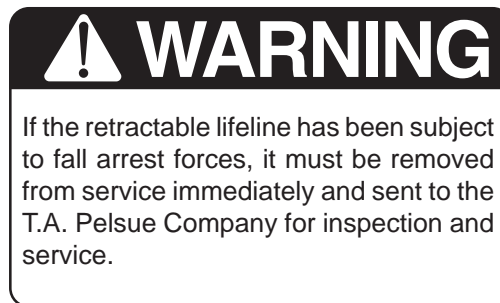
F. RESCUE: Before a fall occurs, the employer must have a rescue plan and the ability to implement a rescue. The employer shall provide for prompt rescue or the ability of the employee to rescue himself.

5.0 - Installation & Use (continued)

G. AFTER THE RESCUE: Any equipment that has been subjected to fall arrest forces must be removed from service immediately. Retractable lifelines must be sent to the manufacturer for repair/recertification. Refer to other equipment instructions for the rest of the PFAS.

5.3 **BODY ATTACHMENT:** The impact indicating swivel snap hook on the retractable lifeline must be connected to the back dorsal “D” ring on a full body harness. Never use a body belt for fall protection. Ensure that the impact indicating swivel snap is attached to the “D” ring and is fully closed and locked.

5.4 **USE:** The retractable lifeline will extend and retract the full length of the lifeline while keeping some tension on the line. If a fall occurs, the retractable lifeline will arrest the fall and absorb the energy created during the fall. If a fall occurs at maximum lifeline length, the retractable lifeline is equipped with additional length to allow for full function during the arrest. Always use a tag line when conditions require. Always allow the lifeline to slowly retract into the housing. Avoid swing falls by always working directly under the anchorage. Never work above the anchorage. Do not use if any part of the system does not pass inspection. Do not service this device. Do not allow the lifeline constituent (cable/synthetic rope) to come into contact with anything that will damage the lifeline including, abrasive, rough, or high temperature surfaces, welding, heat sources, electrical hazards, or moving machinery. Ensure connections are compatible in size, shape, and strength and that all connections are secure. The retractable should pull out freely and retract fully. If there is slack in the lifeline or if the retraction hesitates, the unit should be returned to the T.A. Pelsue Company for service.



6.0 - Training

6.1 **GENERAL:** It is the responsibility of the user to ensure that they read, understand, and follow all of the instructions presented within this manual. The user must be properly trained in the use, care, inspection, application limits, and consequences of this equipment. Training should be periodically repeated. Training must be done without exposing the user to a fall hazard.

7.0 - Inspection

7.1 **GENERAL:** Before each use, the device and connectors must be inspected for loose fasteners, bent, cracked, distorted, worn, malfunctioning, or damaged parts. The lifeline should be inspected for cuts, kinks, frays, damage, burns, corrosion, or worn areas. The working end of the lifeline should be checked to ensure that all thimbles and ferrules are in place and fixed properly with the impact indicating swivel locking snap.

7.2 **LIFELINE:** Pull the entire lifeline out of the device and inspect the lifeline for any damage, cuts, kinks, abrasions, wear, frays, burns, or corrosion. Inspect the termination of the lifeline to the impact indicating swivel locking snap to ensure that the thimble and ferrules are properly affixed. Inspect the impact indicating swivel locking snap. Ensure the gates of the snap are working properly and fully lock and close. Visually inspect the snap to ensure that the impact indicator is not showing. The impact indicator is a red band located just below the swivel. Slowly let all the lifeline retract into the device. It should retract smoothly and without hesitation.

7.3 **FUNCTION:** Pull out approximately two feet of lifeline. While holding the lifeline above the impact indicator, give the lifeline a sharp, quick pull. The unit should lock up and remain locked. There should be no slippage of the braking mechanism and no more lifeline will come out of the device. Once tension is released from the lifeline, the unit should return to its retractable mode.

7.0 - Inspection (continued)

7.4 HOUSING: Inspect the housing for loose or missing screws. Inspect the housing for cracks, dents, bends, corrosion, distortions, or any damage. The labels and warnings should be fully present and legible. Inspect all connectors for damage and proper function.

7.5 FREQUENCY: The retractable lifeline must be inspected before each use. A record log of all inspections and servicing must be maintained by the company safety director. An annual recertification by the T.A. Pelsue Company is recommended to ensure that all components are in working condition. Use in abusive environments will necessitate more frequent inspections by a competent person. Only the T.A. Pelsue Company or its authorized agents may perform service on the device.

7.6 ACTION: If any of the above conditions exist or become apparent during the inspection process, remove the retractable lifeline from service immediately. If the retractable lifeline has been involved in a fall or if it has been exposed to the forces of fall arrest, the retractable lifeline must be removed from service immediately.

8.0 - Maintenance & Storage

8.1 CLEANING: Clean the housing and lifeline with a water and mild soap solution. Rinse thoroughly and towel or air dry. Do not use heat to dry the retractable lifeline. This should be done periodically when excess dirt or other materials build up on the retractable. Excess dirt or other materials may inhibit the function of the device.

8.2 STORAGE: Store the retractable lifeline in a cool, clean and dry environment. Refer to the component instructions for proper storage.

9.0 - Specifications

Housing Material:.....	Cast Aluminium
Drum Material:.....	Cast Aluminium
Main Shaft:.....	Stainless Steel
Ratchet Center:.....	Alloy Bronze
Braking Pawls:.....	Alloy Bronze
Main Spring:.....	Stainless Steel
Impact Indicating Snap:.....	Alloy Steel, plated, minimum tensile of 5000 LBS.
Housing Finish.....	Powder coating
Fasteners:.....	Stainless Steel
Lifeline Material:.....	Stainless Steel Wire Rope, 3/16" Diam. (-SS Model Number Suffix) "Technora" synthetic rope, 3/16" Diam. (-TR Model Number Suffix)



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