

IMPORTANT INFORMATION - PLEASE READ AND SAVE



CSR² Pulleys

Made in USA

Pat. 7,419,138

⚠ WARNING

- **SERIOUS INJURY OR DEATH MAY RESULT FROM THE IMPROPER USE OF THIS EQUIPMENT.**
- **THIS EQUIPMENT HAS BEEN DESIGNED AND MANUFACTURED FOR USE BY EXPERIENCED PROFESSIONALS ONLY.**
- **DO NOT ATTEMPT TO USE THIS EQUIPMENT WITHOUT PRIOR TRAINING.**
- **THOROUGHLY READ AND UNDERSTAND ALL LABELS AND INSTRUCTIONS BEFORE USE.**
- **USE, INSPECT AND REPAIR ONLY IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.**



MEETS THE PULLEY REQUIREMENTS OF NFPA 1983, STANDARD ON LIFE SAFETY ROPE AND EQUIPMENT FOR EMERGENCY SERVICES, 2017 EDITION.

EMERGENCY SERVICES PULLEYS IN ACCORDANCE WITH NFPA 1983-2017.

- **300343 CSR² PULLEY, GENERAL USE (G) MBS 46 kN (10,341 lbf)**
- **300342 CSR² DOUBLE PULLEY, GENERAL USE (G) MBS 45 kN (10,116 lbf)**
- **MAX ROPE DIAMETER ≤ 13MM**

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ISO 9001 Certified

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USER INFORMATION

User Information shall be provided to the user of the product. NFPA Standard 1983 recommends separating the User Information from the equipment and retaining the information in a permanent record. The standard also recommends making a copy of the User Information to keep with the equipment and that the information should be referred to before and after each use.

Additional information regarding life safety equipment can be found in NFPA 1500, *Standard on Fire Department Occupational Safety and Health Programs*, and NFPA 1983, *Standard on Life Safety Rope and Equipment for Emergency Services*.

INSPECTION

Inspect the equipment according to your department's policy for inspecting life safety equipment. Inspect the equipment prior to entry into service, after each use, and at least once every 12 months. The equipment should be thoroughly inspected by an inspector that meets your department's training standard for inspection of life safety equipment. Keep a record of the date, person performing the inspection and results, as well as the date of first use, name of users and any other pertinent information necessary to keep accurate track of the equipment's usage history in the equipment log or on a tag that attaches to the equipment. Each user should be trained in equipment inspection and should inspect the equipment before each use.

Inspect the equipment for cracks, sharp edges, dents, corrosion, burrs or excessive wear. Minor nicks or sharp spots may be smoothed with emery cloth. While the swivel-head or pulley sheaves may not "spin" they should turn freely. The release lever should move freely within its range of motion. If any of the above is noted, or if the equipment has been subjected to shock loads, fall loads, or abuse other than normal use, remove the equipment from service and destroy it. If there is any doubt about the serviceability of the equipment, remove the equipment from service and destroy it.

The service life of equipment used for rescue depends greatly on the type of use and the environment of use. Because these factors vary greatly, a precise service life of the equipment cannot be provided.

RIGGING THE CSR² PULLEY

Self-tending pulleys are most often used in vertical systems with the pulley attached to a high

anchor such as a tripod. When rigged with a double pulley, the mechanical advantage ratio is 4:1. The CSR² pulley is designed so that the sheave camming mechanism is only subjected to 1/4 of the load and therefore should not be used as a conventional rope grab. It is therefore designed to be rigged in a traditional block & tackle method as pictured on the sideplate. During a raising, the rope will run through the pulley, and the cam will react as a ratchet to stop movement in the opposite direction. To lower loads, first ensure you have a firm grip on the running end of the rope, then fully release the rope-locking mechanism with the cord and begin lowering the load by feeding rope into the CSR². Preferably, for reasons of redundancy, this should be done by one person controlling the rope and another controlling the cord (release lever).

- **The running end of the rope exiting the pulley from the camming mechanism should always be tended with a firm grip.**
- **If a firm grip cannot be maintained, tie a knot (such as a Figure-8-On-A-Bight) to prevent the rope from reversing through the system.**
- **Ensure that the release lever has a completely unobstructed path for release and rope-locking.**
- **Use only 11-13 mm diameter rope and ensure that there is always a knot at the running end of the rope.**
- **Do not use a double sheave pulley with only one sheave loaded.**

CARRYING, MAINTENANCE & STORAGE

Clean and dry this equipment after each use to remove any dust, debris and moisture. During use, carrying and storage keep the equipment away from acids, alkalis, rust and strong chemicals. Do not expose the equipment to flame or high temperatures. Store in a cool, dry location. Do not store where the equipment may be exposed to moist air, particularly where dissimilar metals are stored together.

REPAIR

All repair work shall be performed by the manufacturer. All other work or modifications void the warranty and releases CMC from all liability and responsibility as the manufacturer.

SAMPLE LOG

The sample log suggests records that should be maintained by the purchaser or user of life safety equipment.

| Equipment Inspection and Maintenance Log | | | |
|--|------------------------|-----------------------|------|
| Item _____ # _____ | | Date in Service _____ | |
| Brand/Model _____ | | Strength _____ | |
| Date | How Used or Maintained | Comments | Name |
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