



GENERAL INFORMATION AND WARNINGS

GENERAL CAUTIONS AND WARNINGS

All ratings shown in this literature are based upon the item being new or in "as new" condition. Catalogue ratings are considered to be the greatest load that should be applied to the item. Therefore, any shock loading must be considered when selecting the item for use in a system.

Catalogue ratings are based upon usual environmental conditions and consideration must be given to item selection when unusual conditions are to be encountered.

In general, the products displayed within this handbook are used as a part of a system being employed to accomplish a task. Therefore, we can only recommend the utilization of such products to accomplish the desired task within their Working Load Limit.

The products shown are subject to wear, misuse, overloading, corrosion, deformation, intentional alteration and other usage factors which may necessitate a reduction in the product's Working Load Limit rating or is cause to remove the product from service and have it destroyed.

Therefore, all products must be regularly inspected to determine their condition as a basis for deciding if the product may continue to be used at the catalogue assigned WLL, a reduced WLL, a reduced design factor, or removed from service.

The products shown are, in general, items intended to be used in a tension or pull manner. So, caution must be used so that the product is not subjected to a side loading that will cause an additional and unintended loading.

All hook latches shown are intended to retain loose slings or fittings under slack conditions. They are not intended to be antifouling devices, so caution should be used to prevent the latch from supporting any of the load. Periodic inspection of latches must be made to insure their proper operating condition.

Welding of or to load supporting parts or products can be the source of problems. It is necessary to have knowledge of material, heat treatment and welding procedures before welding of any item is to be considered. We suggest BISON be consulted for information, and proof testing if necessary.

FITTING MAINTENANCE

All fittings are subject to wear and disfigurement in the form of nicks and gouges, and should be inspected periodically for these conditions.

Any detection of a crack or permanent deformation in a fitting (i.e., hook, shackle, link, etc.) is cause to remove the fitting from service and have it destroyed.

DEFINITIONS

WORKING LOAD LIMIT (RATED LOAD) – The maximum combined static and dynamic load in pounds or kilograms which should ever be applied to the product in service, even when the product is new, and when the load is uniformly applied in direct tension to the product.

PROOF LOAD – The specific load applied in performance of the proof test.

PROOF TEST – A nondestructive load test made to a specific multiple of the rated load of the sling. This does not result in certification.

CERTIFICATION - Engineering examination of all fabrication documents to determine compliance with all applicable standards.

ULTIMATE LOAD – The average load at which the item being tested fails or no longer supports the load.

SHOCK LOAD – Any condition of rapid lift, sudden shifting of load, or arrest of a falling load.

DESIGN FACTOR – An industry term denoting theoretical reserve capability. Usually computed by dividing the catalogue stated ultimate load by the catalogue stated working load limit and generally expressed as a ratio, for example 5 to 1.

NOMINAL STRENGTH – Published catalogue design strength of a wire rope.

COMMERCIAL SURFACE QUALITY – The surface condition associated with the normal methods of production of raw material and machined surfaces. The surface conditions of the products shown in this catalogue are commercial quality. More refined surface qualities are considered as special and need to be requested as such.

All ratings given in Tons refer to short Tons of 2,000 lbs. unless otherwise noted.

There is always a safe way to lift every load. For any of your special lifting requirements please contact your BISON sales representative.

NOTE: The right is reserved to make changes in product design, material and specifications without incurring obligations.