Operation & Maintenance Instructions Instructions for Safe Use

Safelift Davits LD1, Sockets & Slave Chains

Certification
The Safelift LD1 davits, sockets and slave chains are lifting equipment for which the following regulations apply -

The Lifting Operations and Lifting Equipment Regulations 1998 require the user to hold a current Report of Thorough Examination. This equipment requires thorough examination (at least every 12 months for the davits and sockets, every 6 months for the slave chains). Rossendale Group issues a Report of Thorough Examination with every new LD1 davit, socket and slave chain and offers a re-examination service on site or in our works for the subsequent periodic examinations.

The Supply of Machinery (Safety) Regulations 2008 requires the user to hold a Declaration of Conformity. Rossendale Group issues a Declaration of Conformity with every new LD1 davit, socket and slave chain.

Training
Operators of Safelift LD1 davits, sockets and slave chains must be trained in the safe use of the equipment, as required by The Management of Health and Safety at Work Regulations 1999, The Provision and Use of Work Equipment Regulations 1998 and The Health and Safety at Work Act 1974. Rossendale Group provides training courses for davits and other lifting equipment.

Storage
Safelift LD1 davits are supplied in either powder coated or anodised finishes. Indoor storage is recommended, although outdoor storage is acceptable. Safelift slave chains are supplied in galvanised finish. Indoor storage is strongly recommended, although outdoor storage is acceptable. Safelift sockets are supplied in a galvanised finish and are designed for permanent outdoor installation.

Documents
Instructions for Safe Use and Operating Instructions for Safelift equipment are available at www.rossendalegroup.co.uk. Declarations of Conformity and Reports of Thorough Examination, including any ongoing periodic reports issued by Rossendale Group, are available at our SiteCert web site www.sitecert.info/. Purchasers and users of Safelift equipment and Rossendale Group examination clients are issued with user name and password access to their certificates.

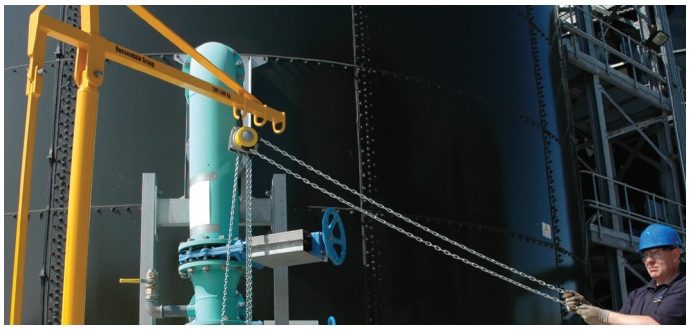
SWL
The Safe Working Load of the Safelift LD1 davit and all associated sockets and slave chains is 500kg. In certain circumstances the SWL may be derated. In all cases the SWL will be marked on the davit, the socket and the slave chain. The user must not exceed the marked SWL.

Selection
Davits are available in a range of capacities and reaches. Select the davit to be used and plan the lift, taking into account the capacity, class of use and range of lift. Consult the supplier if the davit is to be used in areas of high risk, exposed to the elements, water, steam etc, with hazardous substances, e.g. acids or chemicals, or subjected to extremes of temperature.

Hoist
The Safelift LD1 davit is designed for use with the Safelift 360 handchain hoist, hook suspension, SWL 500kg. Other handchain hoists may be used. It is essential that the top hook of the chain hoist sits comfortably in the lifting eye of the davit. The hoist must be tested and certified as detailed above. The user must be trained in the operation of the hoist and must refer to Instructions for Safe Use of the hoist and the hoist Operation & Maintenance Instructions. The user is referred to Operation & Maintenance and Instructions for Safe Use for Safelift 360 Handchain Hoists RD460M.

Socket
The Safelift LD1 davit may only be used when fitted into a Safelift socket. The socket must be properly installed, and tested and certified as detailed above.

Slave Chain
The slave chain is an optional piece of equipment to facilitate the lifting of items which have a permanently attached long lifting chain (e.g. submersible pumps). The slave chain must be tested and certified as detailed above. The user must be trained in the operation of the chain and must refer to Instructions for Safe Use of the chain and the chain Operation & Maintenance Instructions. The user is referred to Operation & Maintenance and Instructions for Safe Use for Chain Slings RD451M.



Installation
Sockets: The overall stability and safety of a davit and socket depends on its foundation or supports. When erecting to an existing structure it is important that the superimposed forces are assessed by a qualified engineer and written approval obtained. Safelift davit sockets must be installed using fixings of appropriate strength for the load and the surface material fixed to. Trip hazards must be avoided when sockets installation is planned. The sockets must be level in both planes and be tested and certified before first use.

Davits: The Safelift LD1 davit weighs less than 25kg and may be carried by one person, provided proper manual handling procedures are followed. The Safelift LD1 davit is a single unit of equipment – no further parts or tools are required. If the davit is being fitted adjacent to a tank or other fall hazard, the installer should make appropriate risk assessments and wear fall arrest or restraint equipment.

- Ensure that the socket is installed properly and is free from debris and clear for the davit spigot entry.
- Prior to installation, inspect the equipment to ensure no damage has occurred in storage or transit.
- Present the spigot at the bottom of the davit to the socket and slide the spigot gently into the socket. The davit should come to rest vertically in the socket and be able to rotate freely.
- Ensure that there is room for the davit arm to raise and rotate without obstruction.
- Remove the lower backstay pin.
- Lower the davit backstay. This raises the davit arm.
- When the backstay is fully lowered, refit the backstay pin and retaining pin.
- Check the davit for free, unobstructed rotation.
- Fit the hoist to the davit lifting eye which is vertically above the lifting point on the load to be lifted.
- If a slave chain is being used, fit the slave chain to a davit lifting eye adjacent to the eye carrying the hoist.
- The Safelift LD1 davit is a tested, certified lifting appliance and does not require a further test following installation before each use. The user should carry out a pre-use visual inspection.

Safe Use
This document is issued in accordance with the requirements of Section 6 of the Health and Safety at Work etc Act 1974, amended March 1988. It outlines the care and safe use of davits and is based on Section 14 of the LEEA Code of Practice for the Safe Use of Lifting Equipment.* This information is of a general nature only covering the main points for the safe use of the equipment. It may be necessary to supplement this information for specific applications. All users must read these operating instructions carefully prior to the initial operation. These instructions are intended to acquaint the user with the product and enable him to use it to the full extent of its intended capabilities. The operating instructions contain important information on how to handle the product in a safe, correct and economic way. Acting in accordance with these instructions helps to avoid dangers, reduce repair cost and down time and to increase the reliability and lifetime of the product.

Always
- Store and handle davits correctly.
- Inspect the davits, block and accessories before use and before placing into storage.
- Position the davit arm so that the lifting appliance is directly over the load.
- Take the weight of the load gently.
- Ensure the travel path is clear before slewing the davit.

Never
- Shock or side load davits.
- Attempt to drag loads along the ground.
- Allow persons to pass under suspended loads.
- Place ladders or climb on unrestrained davit arms.

Selecting the Correct Davit
Davits are available in a range of capacities, sizes and design options.
Select the davit to be used and plan the lift taking the following into account:
- Type of davit and sockets – floor or wall/column mounted.
- Capacity, height and length.
- Slew – angle of slew, 360°, 180° or other.
- Type of hoisting mechanism – chain block, integrated winch.

Storing and Handling Davits
When installed but not in use, davits should be positioned so as not to present a hazard to persons, goods, vehicles etc that may be in the area. It may be necessary to secure the davit arm to prevent movement taking place as the result of winds etc. If the davit is not in regular use it is advisable to remove the davit and the lifting appliance for separate storage. Where this is not possible or desirable the appliance should be parked where it will not present a hazard.

Using Davits Safely
- Never attempt lifting operations unless you have been trained in the use of the equipment and slinging procedures.
- Do not use defective davits, blocks or accessories.
- Position the davit arm carefully. The block hook must be directly over the centre of gravity of the load. Do not use the davit arm or appliance to drag loads along.
- Take the load gently and avoid shock loads. Similar care is needed when lowering loads as sudden loading or unloading may cause the davit arm to whip.
- Before moving the davit arm or suspended load, ensure you have a clear view of the travel path and that this is free of any obstructions etc.
- Avoid swinging loads. Where possible, push rather than pull on suspended loads.
- Do not allow anyone to pass under or ride upon the load. Never leave suspended loads unattended unless in an emergency when the area should be cordoned off and kept clear.
- Never lift or lower more than the marked SWL. In the case of manual equipment, if abnormally high effort is required, or if the load slips, this is an indication of too high a load or a fault – check the load and the appliance.
- Do not use the hoist chain or winch wire rope to sling the load, i.e. do not wrap it round the load, back hook or choke hitch.
- Do not lift on the point of the hook or overcrowd the hook with fittings.

In-Service Inspection and Maintenance
- The maintenance requirements may be combined with those of the hoist and chains.
- Lubricate the sockets and davit pin/spigot with a light grease.
- Bolts and fixings on davit sockets should be checked to ensure they are tight and if necessary re-torqued.
- Regularly inspect the davit and sockets and, in the event of the following defects, refer the davit to a Competent Person for thorough examination: structural defects, damage, distortion or cracked welds; loose or missing bolts; difficulty in slewing or davit arm slews on its own; any other visible defects or operational difficulties.
- The Provision and Use of Work Equipment Regulations 1998 and the Lifting Operations and Lifting Equipment Regulations 1998 both require that lifting equipment be properly maintained. This is an ongoing duty that falls on the user and a planned routine maintenance programme will be necessary.
- In addition to the statutory thorough examinations by a Competent Person, regular in-service inspections should be made to find any faults and damage that might arise. If any are found they should be referred to the Competent Person.
- The maintenance programme must meet the requirements of the manufacturer's instructions and any special requirements due to the conditions of service. This may be combined with maintenance of other equipment used in association with the appliance.

Further information is given in:
* The Code of Practice for the Safe Use of Lifting Equipment, published by the Lifting Equipment Engineers Association.
** HSE Guidance Note GS39 – Training of Crane Drivers and Slingers.