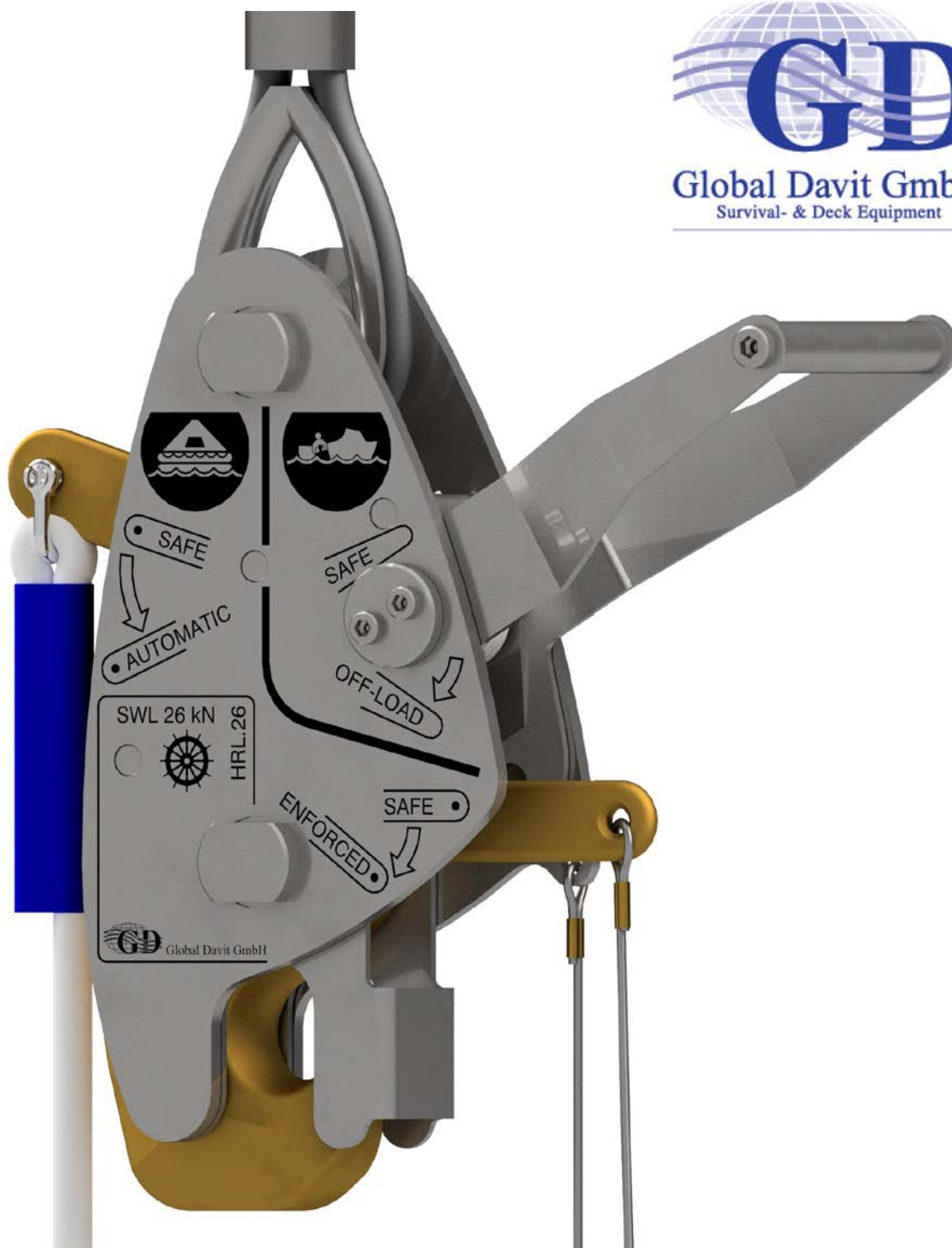




INSTRUCTION MANUAL

Combined OFF-LOAD and AUTOMATIC release hook

Type: HRL.26

Global Davit GmbH - Survival- & Deck Equipment

Graf-Zeppelin-Ring 2
27211 Bassum
Germany
☎ +49 4241 93 35 0
✉ +49 4241 93 35 25
@ info@global-davit.de
🌐 www.global-davit.de

Kreissparkasse Syke
IBAN: DE20 2915 1700 1310 0069 68
IBAN (USD only): DE59 2915 1700 1050 0006 76
BIC (SWIFT): BRLADE21SYK
Commerzbank Diepholz
IBAN: DE17 2564 1302 0620 5603 00
BIC (SWIFT): COBADEFFXXX

HRB 111084 AG Walsrode
VAT Nr. DE 812 799 894
Managing directors:
Lars Bergmann
Sven Bergmann

HRL.26 - GBR - Rev.D



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GENERAL



This combined OFF-LOAD and AUTOMATIC release hook meets with the current regulations of IMO/SOLAS, EU, USCG and most other official Maritime Authorities'. According to these regulations the hook can be deployed for single fall davit launched rescue boats and liferafts.

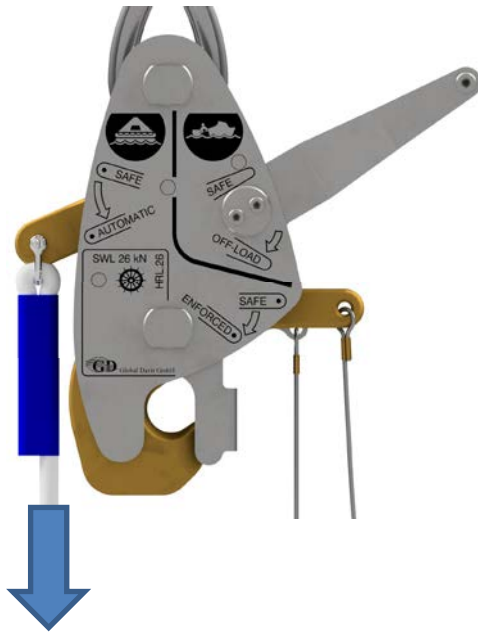
SAFE WORKING LOAD

This combined OFF-LOAD and AUTOMATIC release hook has been designed and dimensioned to handle life-saving crafts with a maximum weight of 2.600 kg.

The hook is designed to withstand the harsh conditions at sea and is approved for a minimum temperature of -40°C.

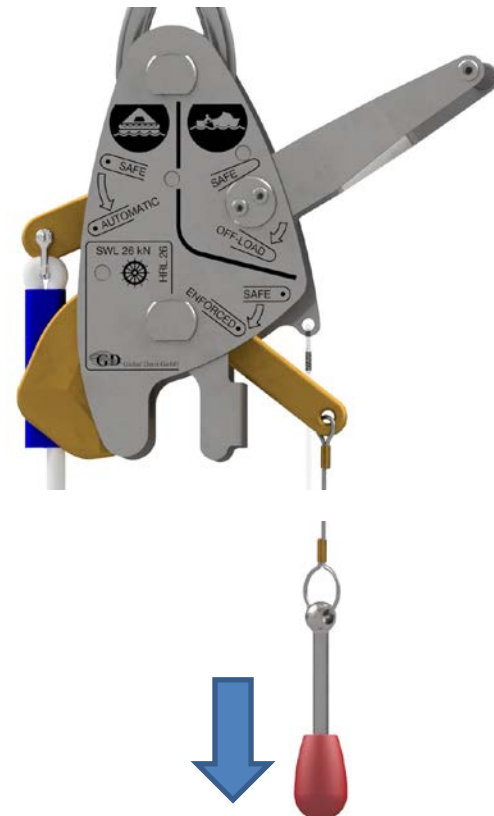
RELEASE MODES

Fitted to the thimble at the end of the wire rope and set for AUTOMATIC release (rafts only), the following release operations are possible:



AUTOMATIC RELEASE (RAFT)

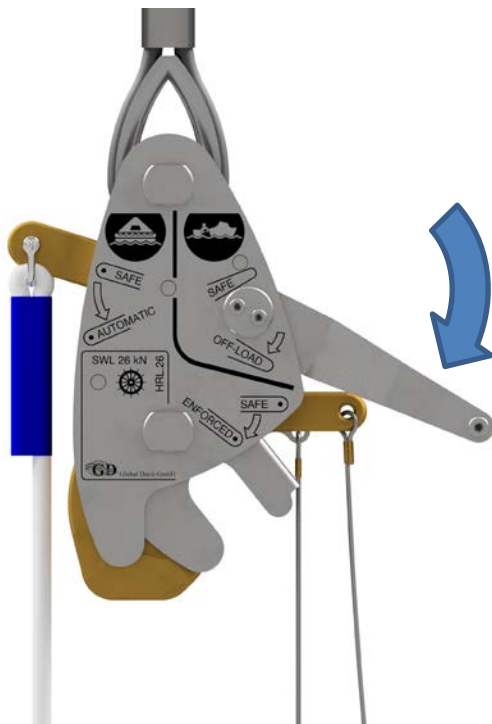
When set for AUTOMATIC release, the hook will release the liferaft when it is waterborne.



MANUALLY ENFORCED RELEASE (RAFT)

In case the AUTOMATIC release of a waterborne raft is being prevented, by sea current or strong wind, the emergency manual enforced release can be deployed to force the release of the raft.

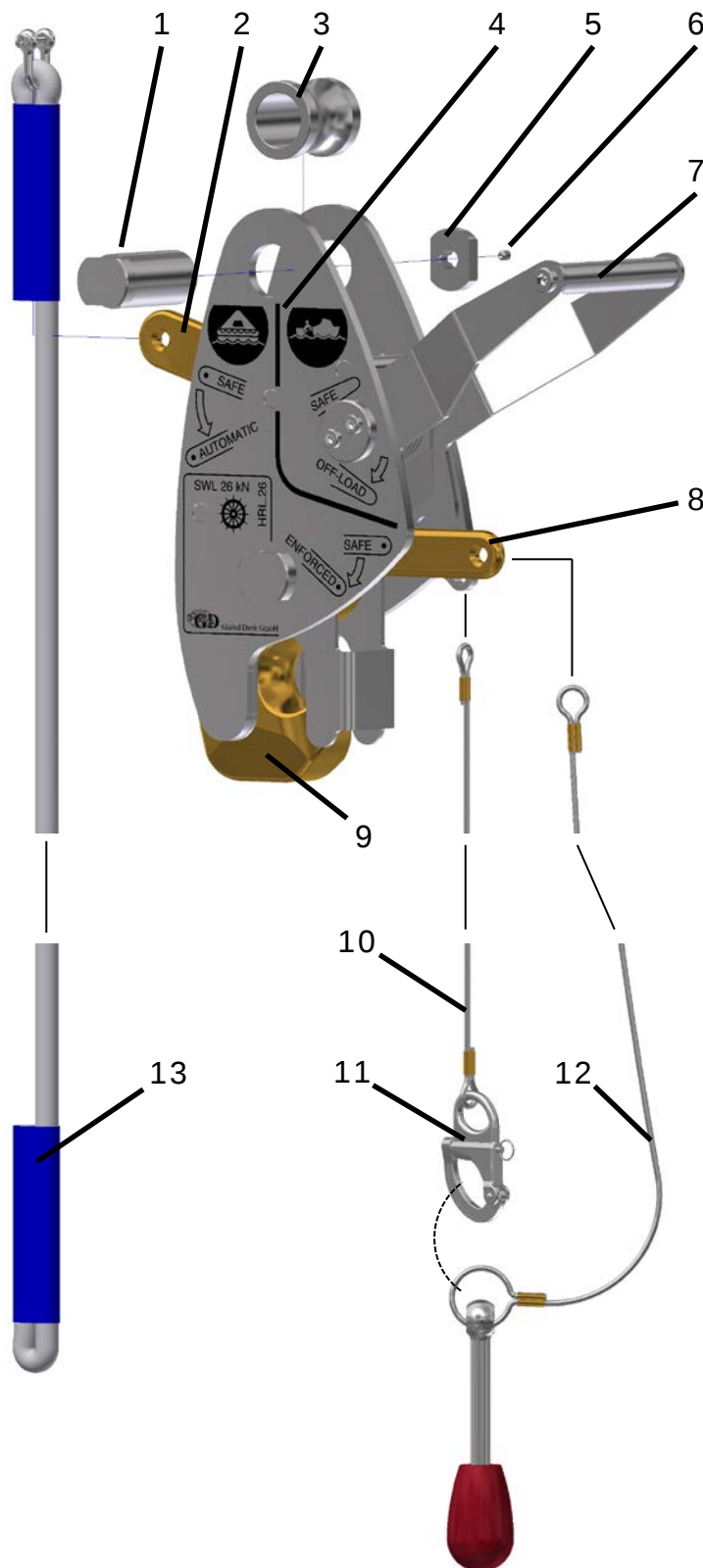
OFF-LOAD RELEASE (RESCUE BOAT)



Standing in the rescue boat, the hook can be used to release the boat when waterborne (OFF-LOAD only).

If the AUTOMATIC release has accidentally been actuated, then it will automatically be RESET to "**SAFE**" when actuating the OFF-LOAD release hand grip. The Handgrip is spring returned after release.

MAIN COMPONENTS



1	Suspension shaft
2	Lever for AUTOMATIC release
3	Distance bush
4	Instruction / type plate
5	Securing plate
6	Securing grub M5*6
7	Hand grip for OFF-LOAD release
8	Lever for enforced release
9	Hook
10	Safety wire rope
11	Snap shackle
12	Actuating wire rope with hand grip
13	Actuating lanyard for AUTOMATIC release

OPERATION

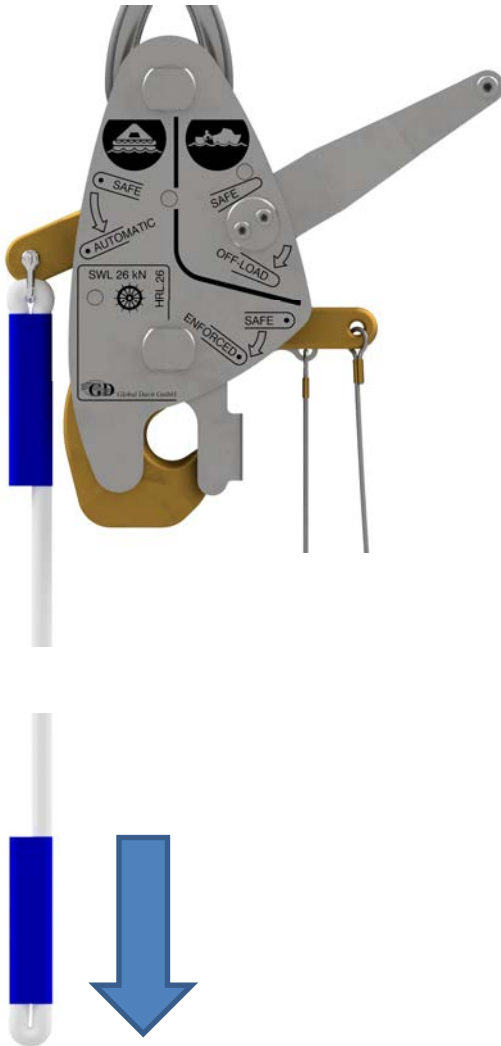
HOOK SAFE



The hook is safely locked when both the lever for AUTOMATIC release and handgrip for OFF-LOAD release point upwards and the enforced lever is horizontal as indicated. The positions are marked on the instruction plate as “**SAFE**”. The hand grip for enforced release should be secured in the snap shackle as shown.

Hand grip secured
In snap shackle

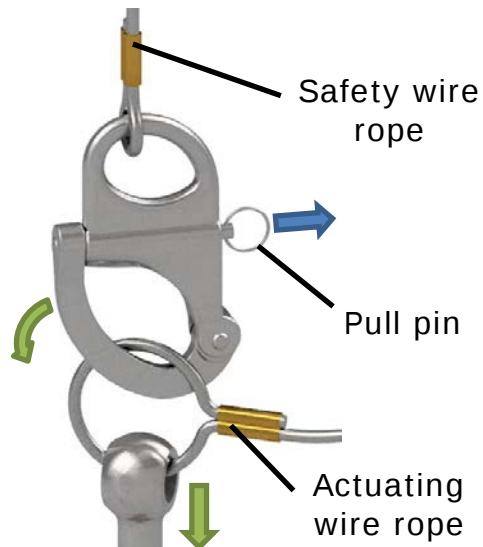
AUTOMATIC RELEASE (For raft handling)



The AUTOMATIC release mechanism is a lanyard operated and spring loaded mechanism. After pulling the actuating lanyard for AUTOMATIC release, the spring mechanism wants to push the hook in the "open" position. As long as there is more than 30kg load suspended, the hook remains closed. The hook opens as soon as the load will be less than 30kg.

This release mechanism is marked on the instruction plate as "**AUTOMATIC**".

ENFORCED RELEASE (For raft handling)



In the event sea current or strong wind on the raft cause a pulling force on the hook of 150kg (maximum) which prevents the hook to release automatically, a secondary hand grip can be operated to force the hook to open.

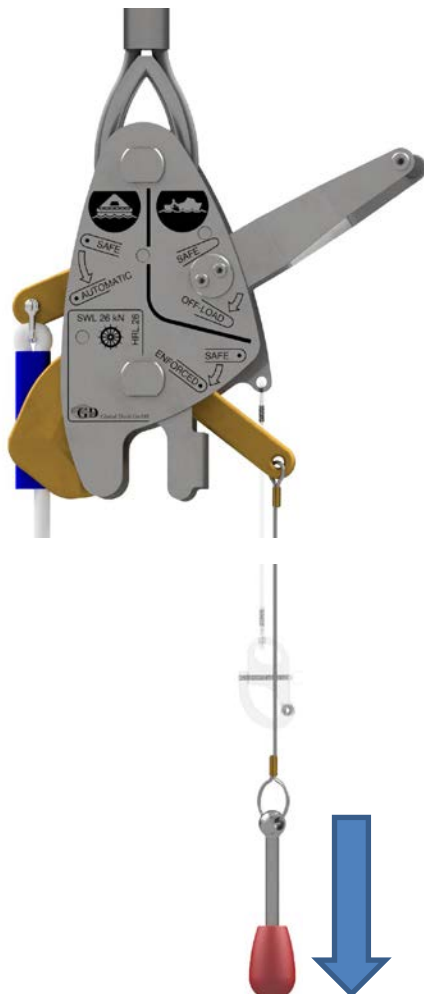
Preparation:

First unlock the snap shackle (pull pin in direction of blue arrow), to release the hand grip for enforced release.

Actuation:

Pull the **red** hand grip **firmly** down to force the hook to open.

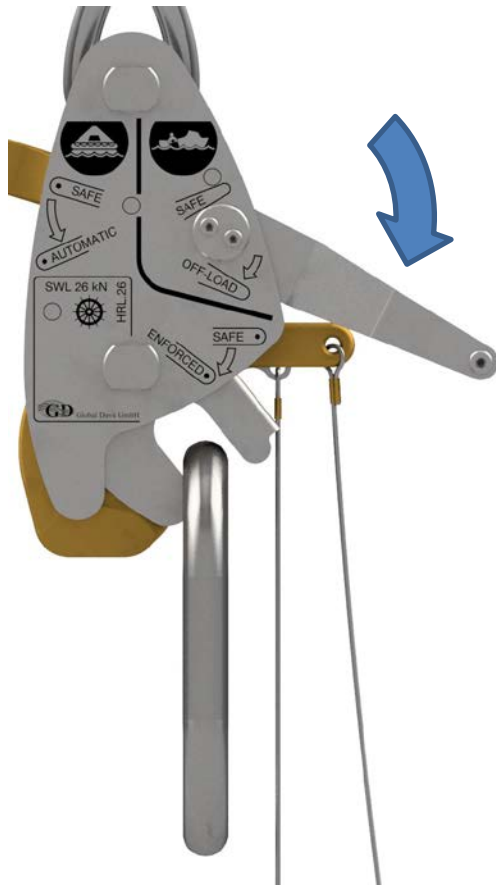
This release is marked on the Instruction plate as "**ENFORCED**".



Caution

Warning: Depending on the maximum load on the hook the required force on the handgrip can increase to 70 kg!

OFF-LOAD RELEASE (Rescue boat handling)



The hook can be opened from within the rescue boat by applying the OFF-LOAD hand grip. Pull the hand grip firmly in the direction of the arrow. This position is marked on the instruction plate as “**OFF-LOAD**”.

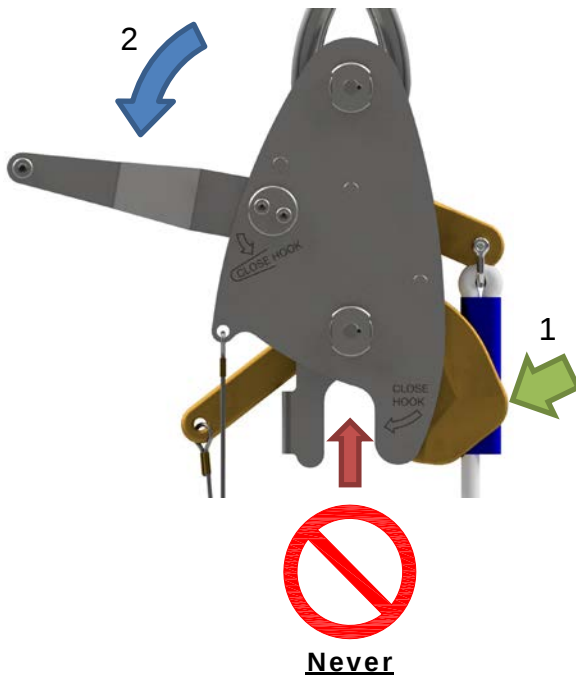
In the event sea current or strong wind on the rescue boat cause a pulling force on the hook which prevents the hook from opening, the hand grip has to be operated with greater force in order to open the hook.



Caution

Warning: Depending on the maximum load on the hook the required force on the hand grip may increase to 15 kg!

CLOSING AFTER ANY RELEASE



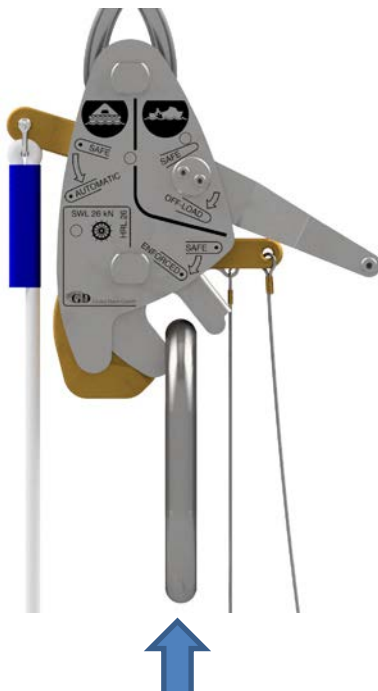
The hook can be closed by applying simultaneously force on the hook (green arrow [1]) and on the hand grip for OFF-LOAD release (blue arrow [2]). Follow the movement of the hand grip for OFF-LOAD release all the way through to the end. Due to the RESET mechanism, the hook will bring itself in closed **"SAFE"** position. When released the hand grip for OFF-LOAD release is spring returned to its neutral position. The hook is now ready to be deployed again.

The engraving for this instruction is indicated on the opposite side of the hook as shown in the picture.



NEVER: Put fingers between the jaw of the hook during closing.

INSERTING A SUSPENSION LINK



After the hook is closed, a suspension link can be inserted by actuating the hand grip for OFF-LOAD release. Follow the movement all the way through to maximize the opening. Once the link is inserted the hand grip for OFF-LOAD release can be released to let it return to its neutral position. The link is now attached.

LIFTING RING



Mandatory



Caution

Dimensions of any suspension shackle or ring are to be within the limits as shown below. Deviation from these dimensions is not acceptable, as the hook might not function properly.

The use of slings fitted directly into the hook can cause premature opening of the hook when the hook is tripped; the life-saving craft may drop causing fatal injuries.

For raft handling :

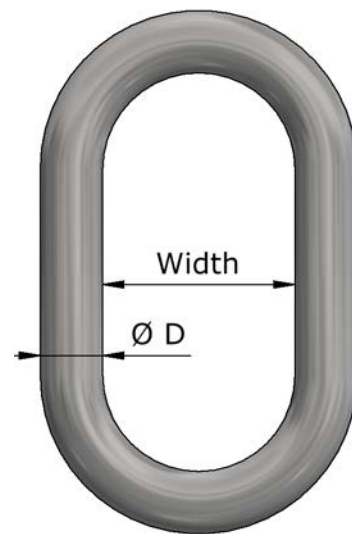
Diameter "Ø D" between
Ø20 mm and Ø27 mm

Width minimum 50 mm @ Ø20mm

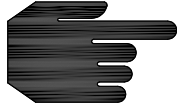
Width minimum 100 mm @ Ø27mm

For rescue boat handling :

Diameter "Ø D" up to a maximum of
Ø27 mm



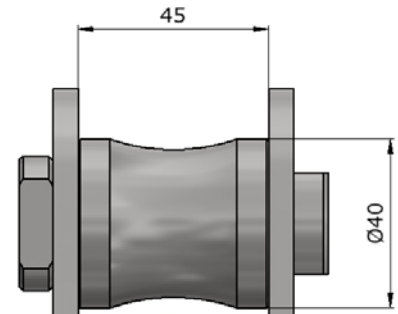
INSTALLATION



Note

Only the top-shaft may be dismantled for connecting of the hook to the wire rope.

The top shaft and bush can be dismantled for connection into the thimble on the end of the wire rope. After installation the securing screw should be installed again to prevent the nut from turning loose. Required tools: two standard spanners size 24mm and one Allen key size 2,5mm



Top shaft



Distance bush

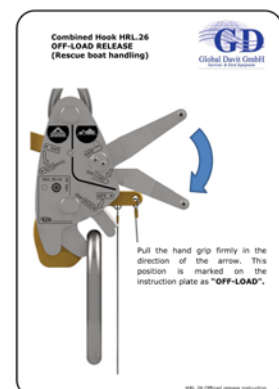


Nut



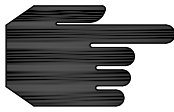
Securing grub
(2:1)

The **instruction sticker** should be placed on a good visible location inside the rescue boat.



MAINTENANCE

A maximum of ease of maintenance has been achieved by a careful choice of marine environment resisting non-corrodible materials. All functional or load-bearing parts are made of easy to maintain polished stainless steel or high-quality bronze.



Note

Do not grease or oil the HOOK.

The open hook construction provides for an easy access to check hook components without any need for disassembly.



Never

**Disassembly only by Authorized persons!
Only the top-shaft may be dismantled for
connecting of the hook to the wire rope.**

THREE MONTHS CHECK (CREW)

- Remove any build-up of salt, dirt or any other contaminant.
- Check the clean, good working condition of all components.
- Assure that all mechanisms can move freely.
- Assure that no paint has been applied.

ANNUAL (1 YEAR) CHECK

- The annual inspection needs to be carried out by an OEM Authorized Service Partner. The inspection should be recorded.
- In case of any malfunction, the hook should be returned to the OEM for further investigations/repairs.

FIVE YEAR CHECK

- After 5 years the hook needs to be returned to one of the OEM Authorized Service Partners or to the OEM for a complete general overhaul. The hook will be inspected, worn parts will be replaced and the hook will be returned after full function- and overload testing.
- The hook will be returned with renewed certificate.

END OF LIFE

- If the hook gets damaged or passes a total lifetime of 10 years the hook needs to be replaced by a new hook.