

## Maintenance Manual Closed Body Swivels

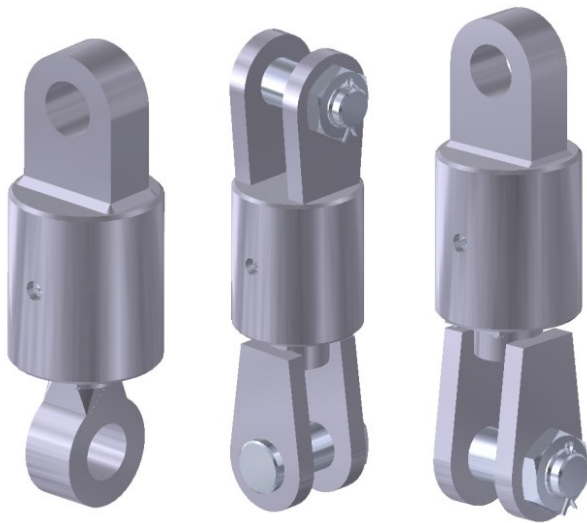


Fig. 1

Fig. 2

Fig. 3

© Copyright – De Haan-Special Equipment


### Manual

This maintenance manual is meant to describe the frequency of inspection, maintenance, and lubrication of the swivels. This manual also describes the safe use of the swivel.

To avoid misunderstandings, the certain terms, used in this manual, should always be the same.


### Warning notices

The terms **DANGER** and **WARNING** used in this manual, is ment for all those people who deal with the swivel, to draw attention on certain behavior.

Warning sign	Signal Word	Explanation
	<b>Danger</b>	Indicates a hazardous situation that death or serious injury will result if it is not avoided.

### Further information

The term **Information**, used in this manual regard to all the persons who are working with or nearby the swivels, to draw attention to useful information and tips.


Sign	Signal word	Explanation
	<b>Information</b>	Indicates useful information and tips

### **DANGER**

- ▶ Risk of death due to improper handling!  
Incorrect operation of products can result in death or serious injury!
- ▶ Only authorized or qualified personnel are permitted to work with our products!

- ▶ All the technical information, delivered with the products, for example Instructions or additions to the manual, must be observed.

### Failure:

-  Failure of the product can occur due to improper use or misapplication.

### Explanation Closed-Body-Swivel

Closed body swivels can be used in places where it is not ensured that the connections straight or angle to stand on each other.

Under the maximum load the swivel is rotatable. Swivels are available in eye/eye, eye/fork or fork/fork, see fig. 1, 2 + 3.

The eye and/or the fork of the swivels has connecting dimensions which fit on the standard shackles.

A swivel is suitable for lifting jobs, but also for heavy lashing operations.

The safety factor of the swivels is 1: 5.

The swivels are splash-waterproof and equipped with a greasable thrust bearing.

### Application of Closed-Body-Swivel

The Closed-Body-Swivel are intent to use in places were outlining not is guaranteed and also torque must be avoided.

It is designed for connection with Shackles, sockets or any the related customized dimensions.

The swivels are all equipped with a water sealing.

### **Use of Closed-Body-Swivel**

#### **DANGER**

High risk of accident, during usage of the Closed-Body-Swivel!

Incorrect or improper handling during usage can result in death or serious injury!

- ▶ Incorrect connections must be avoided!
- ▶ Damaged connection-parts may not be used!
- ▶ Unauthorized persons may not be in the danger zone, during usage!

This Closed-body-Swivel prevents the wire, or chain connections from deformation due to torque build up.

Be sure all the connections are secured before any load is added to the lifting assembly.



## Maintenance of Closed-Body-Swivel

### WARNING

Each person working at or nearby the swivel must be wearing the “personal safety equipment”, otherwise it can result in death or serious injury.

- ▶ The instructions of the manufacturer of the personal safety equipment are to be observed and complied!
- ▶ The personal safety equipment must be regular verified if it is undamaged!
- ▶ Damaged or improper „personal safety equipment” must be replaced!

### Recommended maintenance

The frequency of inspection and lubrication depends upon frequency and period of product use as well as environmental conditions and a correct judgement of the user.

Assuming normal product use, the following guideline is suggested.

### INSPECTION

The swivel must be regularly inspected:

- Wear on body or bearings.
- Deformations in swivel parts
- Security of nuts, bolts, and other locking methods
- Corrosion

The owner or end user should contact the below manufacturer for repair:

**De Haan Special Equipment BV,**

[dehaan@dehaan-se.com](mailto:dehaan@dehaan-se.com)

Tel. +31(0)599613300

### LUBRICATION

Grease-spec.: "Shell Gadus S5 V220 2" or equivalent.

Bearings: Every week for frequent usage or monthly for infrequent use, at least after every job, the swivel must be lubricated.

- ▶ For lubrication, a lubrication nipple is visible at side of the body or in the flange on the bottom (hydr. Nipple acc DIN 17412) Pump grease, until it comes out round the shaft of the swivel-part.

### Working Load Limit

The working load limit (WLL) is marked on the swivel and indicates the maximum load that is allowed on the swivel.

### Warnings

- ▶ Load must be applied gradually.
- ▶ Keep hands and body away from the movable parts of the body.
- ▶ Each person working at or nearby the swivel must be wearing the “personal safety equipment”, otherwise it can result in death or serious injury.
- ▶ Welding on products is not permitted, only with written permission.
- ▶ Vibro-hammers are strictly prohibited in direct connection to the swivel. Special slings are required for this specific type of job.

### Warranty conditions:



Warranty conditions of the products, during normal use according “General Instructions” are:

- ▶ 18 months after delivery
- ▶ 12 months after use
- ▶ Or agreed otherwise.