

# Insert-clevis-attachment > VIP-VERG <



## Assembly instruction

This assembly instruction has to be kept on file for the whole lifetime of the product.

**TRANSLATION OF THE ORIGINAL ASSEMBLY INSTRUCTION**

This useassembly instruction is valid in addition to the safety instructions for RUD Sling chains (RUD Ref. No. 7101649).



**RUD Ketten**  
**Rieger & Dietz GmbH u. Co. KG**  
 73428 Aalen  
 Tel. +49 7361 504-1370  
 Fax +49 7361 504-1460  
 sling@rud.com  
 www.rud.com

RUD-Art.-Nr.: 7902146-EN / 10.019

# > VIP-VERG < Insert-clevis-attachment

**EG-Einbauerklärung**

entsprechend der EG-Maschinenrichtlinie 2006/42/EG, Anhang II B und ihren Änderungen

Hersteller: **RUD Ketten**  
**Rieger & Dietz GmbH u. Co. KG**  
 Friedensinsel  
 73432 Aalen

Hiermit erklären wir, dass die nachfolgend bezeichnete unvollständige Maschine den grundlegenden Anforderungen der Maschinenrichtlinie 2006/42/EG (Anhang 1) entspricht. Die nachfolgend bezeichnete unvollständige Maschine darf, in der gelieferten Ausführung erst dann in Betrieb genommen werden, wenn festgestellt wurde, dass die Maschine, in die diese unvollständige Maschine eingebaut werden soll, den Anforderungen der EG-Maschinenrichtlinie 2006/42/EG entspricht.

**Produktbezeichnung:** Einsteck-Ringgabel  
VERG

Folgende harmonisierten Normen wurden angewandt:

<u>DIN EN 1677-1 : 2009-03</u>	<u>DIN EN ISO 12100 : 2011-03</u>
_____	_____
_____	_____
_____	_____

Folgende nationalen Normen und technische Spezifikationen wurden außerdem angewandt:

<u>BGR 500, KAP.2.8 : 2008-04</u>	_____
_____	_____
_____	_____
_____	_____

Die speziellen Unterlagen zur unvollständigen Maschine nach Anhang VII Teil B wurden erstellt und werden auf begründetes Verlangen in geeigneter Form übermittelt.

Für die Zusammenstellung der Konformitätsdokumentation bevollmächtigte Person:  
 Michael Betzler, RUD Ketten, 73432 Aalen

Aalen, den 26.09.2016 Dr.-Ing. Arne Kriegsmann, (Prokurist/QMB) *Arne Kriegsmann*  
 Name, Funktion und Unterschrift Verantwortlicher

**EC-Mounting declaration**

According to the EC-Machinery Directive 2006/42/EC, annex II B and amendments

Manufacturer: **RUD Ketten**  
**Rieger & Dietz GmbH u. Co. KG**  
 Friedensinsel  
 73432 Aalen

We hereby declare that the following incomplete machines correspond to the basic requirements of the Machinery Directive 2006/42/EC (annex 1). The following incomplete machine, in the delivered machine, may only be put into operation when the machine in which the incomplete machine shall be assembled, has been tested according to the requirements of the EC-Machinery Directive 2006/42/EC.

**Product name:** Plug in connector  
VERG

The following harmonized norms were applied:

<u>DIN EN 1677-1 : 2009-03</u>	<u>DIN EN ISO 12100 : 2011-03</u>
_____	_____
_____	_____
_____	_____

The following national norms and technical specifications were applied:

<u>BGR 500, KAP.2.8 : 2008-04</u>	_____
_____	_____
_____	_____
_____	_____

The special documents about the incomplete machine according to annex VII part B have been created and can be handed over in a suitable form on request.

Authorized person for the configuration of the declaration documents:  
 Michael Betzler, RUD Ketten, 73432 Aalen

Aalen, den 26.09.2016 Dr.-Ing. Arne Kriegsmann, (Prokurist/QMB) *Arne Kriegsmann*  
 Name, function and signature of the responsible person



Please read before initial usage of the VIP-VERG insert clevis attachment the user instruction carefully.

Make sure that you have understood all substance. Non-observance of the instruction can result in bodily injury or property damage and eliminates any warranty! If doubtful or misunderstanding the German version of this document is crucial.

## 1 Safety hints



### ATTENTION

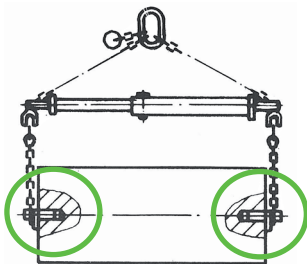
Improper assembled or damaged lifting means and inappropriate use can result in injury of persons and property damage when load falls. Inspect all lifting means before each use carefully!

- Keep in mind extreme circumstances or shock loads before selecting used products.
- The VIP VERG insert clevis attachment must only be used by competent and designated persons which have been trained and taking into account the DGUV rules 100-500, article 2.8 (BGR 500), and outside Germany by respecting the country specific regulations.

## 2 Intended use

VIP-VERG insert-clevis-attachments must only be used to manufacture resp. for the assembly of lifting means in combination with VIP chains and VIP components

They are intended to be used as end fittings of chain slings to be insert into existing holes and for vertical lifting (see picture 1):



Pic. 1: Use of VERG

VIP-VERG insert-clevis-attachments must only be used for the intended described usage.

## 3 Assembly and user instruction

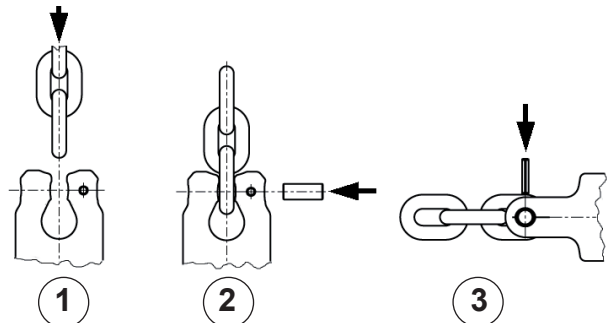
### 3.1 General information

- Capability of temperature usage:  
When used in temperatures higher than 200°C, the WLL of the VIP-insert-clevis-attachment VERG must be reduced as follows:
  - -40°C up to 200°C no reduction
  - 200°C up to 300°C minus 10 %
  - 300°C up to 380°C minus 25 %
  - Temperatures higher than 380°C are prohibited!
- VIP-VERG insert-clevis-attachments must not be used with aggressive chemicals (acids, alkaline solutions and vapours).

### 3.2 Hints for the assembly

Basic principle:

- Assemble only load pins which are stamped with H10.
- Assemble sleeve pin for the securing of the load pin in such a way that the opening can be seen from outside.
- Use sleeve pin only once
- Use only genuine RUD spare parts
- Check finally the correct assembly (see chapter 4 Inspection criteria).



Pic. 2: Steps of assembly



### HINT

Pay absolutely attention to the WLL during selection and assembly

### 3.4 Hints for the usage

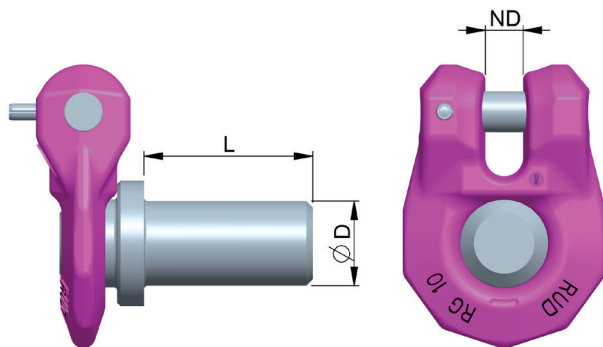
- Check periodically the continuous appropriateness of the lifting means in regard of strong corrosion, wear, deformation etc. (see chapter 4 inspection criteria).



**ATTENTION**

*Wrong assembled or damaged lifting means as well as inappropriate use can lead to injuries of persons and property damage when loads falls. Check all lifting means carefully before each use.*

- The VIP-insert-clevis-attachment will be manufactured acc. to customer requirements with the corresponding bolt diameters and lengths. RUD recommends a bolt length of at least 2x bolt diameter.
- The hole for the insert must be at the max 1 mm bigger than the bolt diameter und must be drilled deep enough so that the insert can be fully engaged to the shoulder of the attachment.
- The permissible WLL is stamped on the VERG or confirms to the corresponding VIP chain.
- Make sure that during the lift of transporting goods the VIP-insert-clevis-attachment is engaged to the shoulder.
- Leave if possible the direct dangerous zone.
- Always watch attached load.
- Pay attention to the RUD chain sling user instruction for all lifting means.



Pic. 3: VERG Dimensioning

**3.4 Hints for the regularly testing**

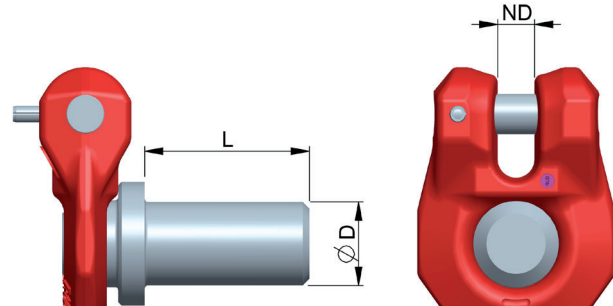
Check by a competent person in periods, which are determined by usage but at least 1x year, the continuous appropriateness of the lifting means (see article 4 Inspection criteria).

Depending on the working conditions, f.e. when often used, increased wear or corrosion, inspections could be necessary in shorter periods than one year.

**4 Inspection criteria**

Check and control the following points before each initial operation, in periodical periods after the assembly and after special incidents:

- Readable size and manufacturer’s mark
- Mechanical damages, like strong notches, especially in areas where tensile stress occurs
- Damages and cross section reductions caused by wear > 10 %, especially at the insert bolt
- Cracks or other damages



Pic. 4: ERG-Special Dimensioning

Nomination	ND	WLL [t]	D <sub>min</sub> * [mm]	D <sub>max</sub> [mm]	L [mm]	Ref.-No.
VERG	6	1.5	17	48	min. 2xD	8600130
VERG	8	2.5	22	48		8600131
VERG	10	4.0	28	48		8600132
VERG	13	6.7	36	48		8600133
VERG	16	10.0	45	48		8600134
ERG-Special	10	1.0	25	50	50	7909289
ERG-Special	10	2.8	25	85	85	7990358

Chart 1: Dimensions \* WLL of VERG = WLL of nominal Diameter ND

Technical alterations are subject to change

RUD components are tested in accordance with DIN EN 1677, with a minimum of 20.000 load cycles at 1.5xWLL. Employer’s insurance association BG recommends:

At high dynamical loads with high number of load cycles the bearing stress must be reduced acc. To FEM Group 1Bm (M3 acc. To DIN EN 818-7).