

> UW-PP <  
> VUW-28 <  
> VUW-GLD-28 <



## Safety instructions

This safety instruction/ declaration has to be kept on file for the whole lifetime of the product.

### Translation of the original safety instruction.

This user instruction is valid in addition to the safety instructions for RUD Sling chains, RUD-Ref.-No. 7101649.



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RUD-Art.-Nr.: 7903033-EN / 05.020



VIP-Swivel connector  
>UW-PP<



VIP-MAXI-Swivel  
>VUW-28<



VIP-MAXI-Swivel  
>VUW-GLD-28<



### 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: Wirbel  
UW-PP / VWA / VUW / VUW-GLD

Folgende harmonisierten Normen wurden angewandt:  
DIN EN 1677-1 : 2009-03 DIN EN ISO 12100 : 2011-03

Folgende nationalen Normen und technische Spezifikationen wurden außerdem angewandt:  
BGR 500, KAP2.8 : 2008-04

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)  
Name, Funktion und Unterschrift Verantwortlicher *Arne Kriegsmann*



### 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: Swivel  
UW-PP / VWA / VUW / VUW-GLD

The following harmonized norms were applied:  
DIN EN 1677-1 : 2009-03 DIN EN ISO 12100 : 2011-03

The following national norms and technical specifications were applied:  
BGR 500, KAP2.8 : 2008-04

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)  
Name, function and signature of the responsible person *Arne Kriegsmann*



*Please read user instruction carefully before initial operation of VIP-Swivel connector. Make sure to understand all volumes.*

*Nonobservance of this user's manual can lead to serious physical injury and property damage and eliminates warranty.*

*In doubt or in misconception please note that the German version of this document is decisive.*

*This user instruction is valid in addition to the safety instructions for RUD Sling chains, RUD Ref. No. 7101649.*

## 1 Safety instructions



### ATTENTION

*Wrong assembled or damaged lifting means as well as improper usage can lead to physical injury and damage of property while failing.*

*Inspect all lifting means before each use carefully!*

- Remove all body parts (fingers, hands, arms, etc.) out of the hazard area (danger of crushing or squeezing) during the lifting process resp. for the transport of loads.
- The VIP-Universal Swivel must only be used considering the DGUV 100-500 (BGR 500 standard), chapter 2.8, and outside Germany acc. to the country specific requirements.
- No technical alterations must be implemented on the VIP-Universal Swivel.
- The ball bearing must not be disassembled.
- A permanent turning action under load reduces the lifetime of the universal swivel dramatically.
- No people may stay in the danger zone.
- Jerky lifting (strong impacts) should be prevented.
- Always ensure a stable position of the load when lifting. Swinging must be prevented.
- Damaged or worn VIP-Universal Swivel must never be utilised.

## 2 Intended use

Universal swivel UW-PP must only be used for the manufacturing of lifting means in combination with VIP chains, VIP eyehooks and VIP-B-links for the version PowerPoint PP-B.

They are determined to straighten lifting means out and they can be turned under load. A permanent turning movement reduces the lifetime of the Universal Swivel extremely.

The VIP-Swivel connector UW-PP must only be used in the here described usage.

## 3 Assembly and user instruction

### 3.1 General information

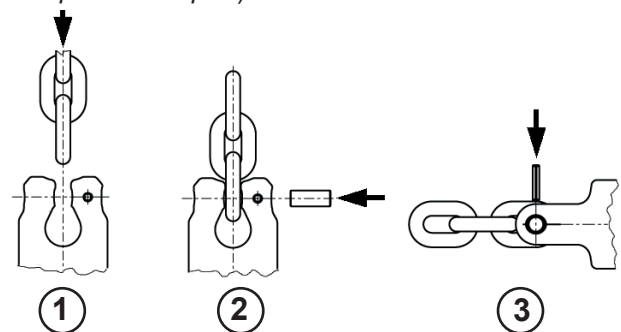
- Capability of temperature usage:  
Usage at higher temperatures is not recommended due to the grease filling in the ball bearing. Should this though be necessary, the working load limit (WLL) of the Swivels must be reduced as follows:
  - -40°C up to 200°C no reduction
  - 200°C up to 300°C minus 10 %
  - 300°C up to 400°C minus 25 %
 Temperatures exceeding 400°C are prohibited!
- VIP-Universal Swivel must not be used with aggressive chemicals such as acids, alkaline solutions and their vapours.
- For maintenance and lubrication of the UW-PP use all purpose grease like AVIALITH. Please use a grease gun with a tip fitting and a slink hole grease nipple.

### 3.2 Hints for the assembly

- Please observe when assembling the VIP eyehook VCÖH or the VIP-B link for the PowerPoint PP-B in any case that the dimensioning of the WLL is correct determined.
- Permitted loading of the complete compound depends on the single component with the lowest working load limit.
- VIP chains of correct dimensions can be assembled "foolproof" into the patented RUD clevis connection.

Basically essential:

- Assemble only connecting pins with H1-10 stamping
- Assemble sleeve pin for the securing of the load pin in such a way at the clevis 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 / repair*).



Pic. 1: Assembly of connecting pin

### 3.3 Hints for the usage

- Always regularly observe the appearance of the whole lifting mean (e.g. by the person responsible für attachment) before using it (strong corrosion, wear, cracks on load-bearing parts, deformations). Refer to chapter 4 Inspection / repair.



#### ATTENTION

*Wrong assembled or damaged lifting means as well as improper use can lead to injuries of persons and damage of objects when load drops down. Please inspect all lifting means before each use.*

- RUD components are designed according to DIN EN 818 and DIN EN 1677 for a dynamic load of 20,000 load cycles.
  - Keep in mind that several load cycles can occur with a lifting procedure.
  - Keep in mind that, due to the high dynamic stress with high numbers of load cycles, that there is a danger that the product will be damaged
  - The BG/DGUV recommends: For higher dynamic loading with a high number of load cycles (continuous operation), the working load stress must be reduced according to the driving mechanism group 1Bm (M3 in accordance with DIN EN 818-7). Use a lifting mean with a higher working load limit.
- Leave if possible the direct dangerous area.
- Always watch attached load.
- Please avoid schock loading or jerky movement.
- Pay attention to the RUD chain sling user instruction for all lifting means.

## 4 Inspection / repair

### 4.1 Hints for periodical inspections

The operator must determine and specify the nature and scope of the required tests as well as the periods of repeating tests by means of a risk assessment (see sections 4.2 and 4.3).

The continuing suitability of the lifting mean must be checked at least 1x year by an expert.

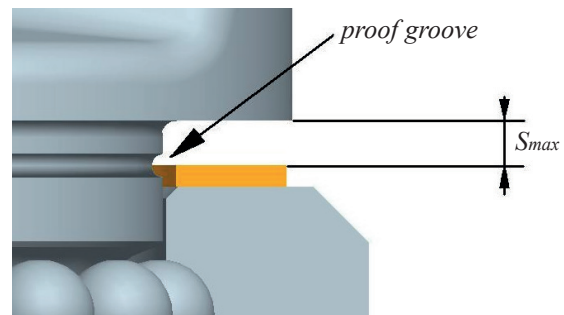
Depending on the usage conditions, f.e. frequent usage, increased wear or corrosion, it might be necessary to check in shorter periods than one year. The inspection has also to be carried out after accidents and special incidents. The operator must specify the test cycles.

### 4.2 Test criteria for the regular visual inspection by the user

- Completeness of the Universal Swivel
- Complete readable size and manufacturer sign
- Deformations on load-bearing parts
- Mechanical damage like strong notches, especially in areas where tensile stress occurs
- Check if locking disc on the side and lubricating nipple is tightened

### 4.3 Additional test criteria for the competent person / repair worker

- Damaging and reduction of cross section caused by wear > 10 %, especially at the load pin
- The distance dimension/gap ( $S_{max}$ ) between upper and lower part of the universal swivel must not be exceeded respectively the proof groove in the ring connection (at VUW-28 and VUW-GLD-28) must not be visible (see chart 1 and pic. 2).



Pic. 2: Distance between upper and lower part

- Strong corrosion
- further checks may be required, depending on the result of the risk assessment (e.g. testing for cracks in load-bearing parts).

## 5 Hints for repairing

- Repairing must only be carried out by competent persons, which can show that they have the there-for necessary skills.
- Universal swivel UW-PP must not be proof loaded.



### WARNING

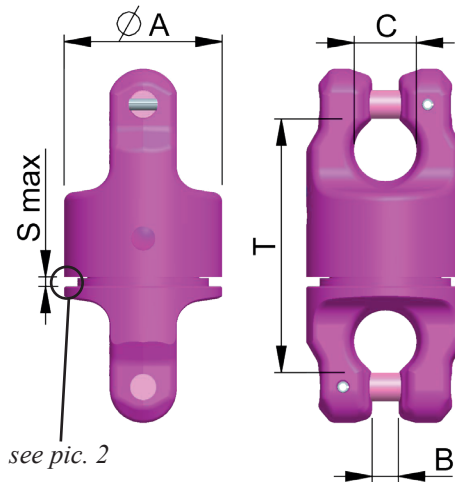
*Dismantling of ball bearing can lead to personal injuries and property damage when load drops.  
Do not disassemble ball bearings.*

- Only RUD original spare parts must be used and all repairing and overhauling operations must be documented in the chain card file (of the complete lifting mean) or use the AYE-D.NET-System.

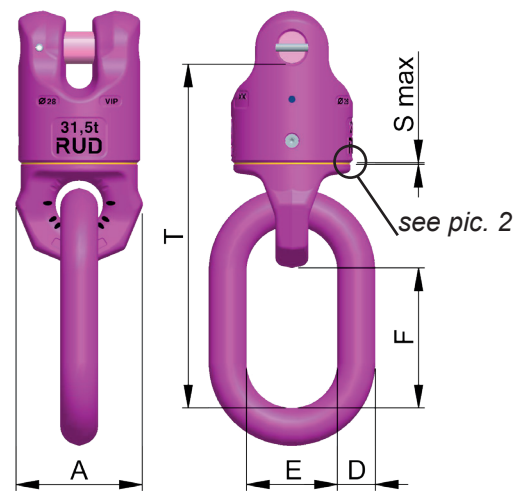
### RUD BLUE-ID-SYSTEM SYSTEM

The Universal Swivel will be equipped with a RUD ID-POINT® and can clearly be related by the identification number. This number can be determined with the RUD ID-USB-READER (readers) and data can be transferred into the AYE-D.NET-Application.

The application will support your product administration and documentation. For further information please go to the RUD webpage or ask your RUD authorized distributor.



Pic. 3: Dimensioning UW-PP/VUW-28



Pic. 4: Dimensioning VUW-GLD-28

Type	WLL [kg]	ND [mm]	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	T [mm]	S <sub>max</sub> [mm]	weight [kg/pc.]	Ref.-no.
UW-PP-4	0.63	4	32	4.8	13	56	-	-	-	4.5	0.20	7990878
UW-PP-6	1.5	6	38	7.0	16	68	-	-	-	4.5	0.42	7990879
UW-PP-8	2.5	8	52	9.1	20	88	-	-	-	6	1.0	7990880
UW-PP-10	4.0	10	66	11.0	26	106	-	-	-	6	1.9	7990881
UW-PP-13	6.7	13	80	14.4	30	131	-	-	-	6.5	3.6	7990882
UW-PP-16	10	16	86	17.6	37	141	-	-	-	8	4.9	7992861
VUW-28 MAXI	31.5	28	148	-	-	-	-	-	183	4	27.3	7903435
VUW-GL-28 MAXI	31.5	28	153	-	-	46	110	169	416	4	32.1	7903436

Chart 1: Dimonsion chart

Technical alterations subject to change