

> 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.



VIP-Swivel connector
 >UW-PP<



VIP-MAXI-Swivel
 >VUW-28<



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



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RUD-Art.-Nr.: 7903033-EN / 01.016



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:
 Reinhard Smetz, RUD Ketten, 73432 Aalen

Aalen, den 27.06.2014 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:
 Reinhard Smetz, RUD Ketten, 73432 Aalen

Aalen, den 27.06.2014 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 lifting means before each use carefully!

- A permanent turning action under load reduces the lifetime of the universal swivel dramatically.
- The ball bearing must not be disassembled.
- The VIP-Universal Swivel must only be used considering the BGR 500 standard / DGUV 100-500, chapter 2.8, and outside Germany acc. to the country specific requirements.

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° up to 300°C minus 10 %
 - 300° 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.

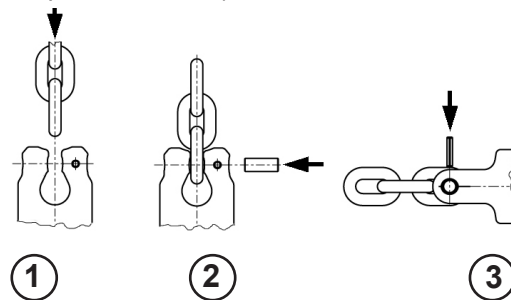
- For maintenance and lubrication of the UW-PP use all purpose grease like AVIALITH. Please use a grease gun with a tip fitting and a slink hole grease nippel.

3.2 Hints for the assembly

- VIP chains of correct dimensions can be assembled "foolproof" into the patented RUD clevis connection.
- 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.

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 criteria).



Pic. 1: Assembly of connecting pin

3.3 Hints for the usage

- Control periodically and before each initial use the complete lifting mean in regard of the continuous ability, strong corrosion, wear, deformation etc. (see chapter 4 Inspection criteria).



ATTENTION

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

Inspect lifting means before each use carefully!

- Leave if possible the direct dangerous area.
- Always watch attached load.
- Please avoid shock loading or jerky movement.
- Pay attention to the RUD chain sling user instruction for all lifting means.

RUD-ID-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-EASY-CHECK® readers and data can be transferred into the RUD-ID-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.

www.rud.com

3.4 Hints for the periodic inspection

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 chapter 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.

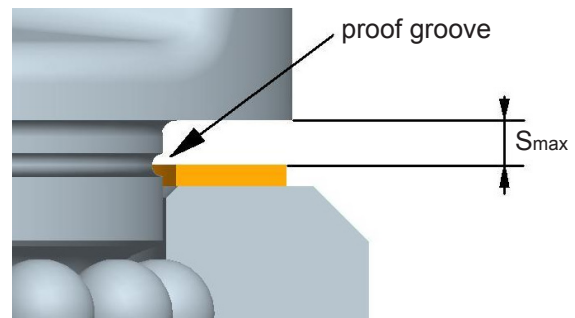
4 Inspection criteria

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

- Completeness of the Universal Swivel
- Readable size and manufacturer's mark
- Mechanical damages, like strong notches, especially in areas where tensile stress occurs
- Check if locking disc on the side and lubricating nipple is tightened
- Damages and cross section reductions caused by wear > 10 %, especially at the load pin
- Cracks or other damages
- 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).

RUD components are acc.to DIN EN 818 and 1677 for a dynamical loading of 20.000 load cycles at nominal working load designed.

The BG recommends: At a high dynamic loading with high numbers of load cycles (continuous work) the bearing stress acc. to FEM group 1Bm (M3 acc. to DIN 818-7) must be reduced.



pic. 2: Distance between upper and lower part

5 Hints for repairing

- Repairing must only be carried out by competent persons, which can show that they have the therefore necessary skills.
- 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 RUD-ID-System®.
- Universal swivel must not be proof loaded (crack test inspection only).



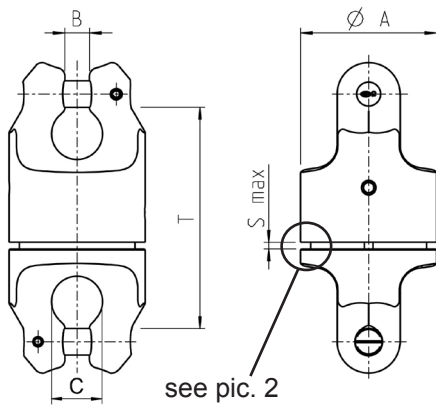
WARNING

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

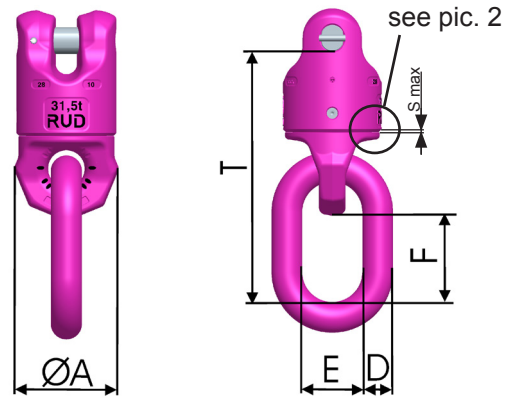
Type	WLL [t]	ND [mm]	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	T [mm]	Smax [mm]	weight [kg/Stk.]	Ref.-No.
UW-PP-4	0,63	4	32	4,8	13	56	-	-	-	4,5	0,20	7990878
UW-PP-6	1,5	6	38	7,0	16	68	-	-	-	4,5	0,42	7990879
UW-PP-8	2,5	8	52	9,1	20	88	-	-	-	6	1,0	7990880
UW-PP-10	4,0	10	66	11,0	26	106	-	-	-	6	1,9	7990881
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: Dimension chart

Technical alterations subject to change



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



pic. 4: Dimensioning VUW-GLD-28