

# User Manual

## > VWA <



These operating instructions apply in addition to the operating instructions for RUD sling chains, RUD article no. 7101649.

In case of doubt or misunderstandings, the German version of the document shall be decisive.

### Translation of the original operating instructions

	
<b>EC-Declaration of conformity</b>	
<small>According to the EC-Machinery Directive 2006/42/EC, annex II A and amendments</small>	
<small>Manufacturer:</small>	<b>RUD Ketten</b> Rieger & Dietz GmbH u. Co. KG Friedensinsel 73432 Aalen
<small>We hereby declare that the equipment sold by us because of its design and construction, as mentioned below, corresponds to the appropriate, basic requirements of safety and health of the corresponding EC-Machinery Directive 2006/42/EC as well as to the below mentioned harmonized and national norms as well as technical specifications. In case of any modification of the equipment, not being agreed upon with us, this declaration becomes invalid.</small>	
<b>Product name:</b>	Swivel UW-PP / VWA / VUW
<small>The following harmonized norms were applied:</small>	EN 12100-1      EN 12100-2 EN 14121-1      EN 1677-1
<small>The following national norms and technical specifications were applied:</small>	BGR 500, KAP2.8
<small>Authorized person for the configuration of the declaration documents:</small>	Reinhard Smetz, RUD Ketten, 73432 Aalen
<small>Aalen, 17.12.2009</small>	Dr.-Ing. Rolf Sinz, (Prokurist/CMG)  Name, function and signature of the responsible person

### INFORMATION

Carefully read the operating instructions before using the VIP swivel adapter VWA. Ensure that you have understood all the contents.

Non-observation of the instructions can lead to injuries or damage and will invalidate the guarantee.

In accordance with DIN EN 818 and 1677, RUD components are designed for a dynamic load of 20,000 changes of load. The BG recommends: At high dynamic load with high-stress cycles (permanent operation) the working load must be reduced according to the engine group 1B<sub>m</sub> (M3 according to DIN EN 818-7).

## 1 Safety instructions

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### CAUTION

Incorrectly mounted or damaged lifting means and improper use can lead to injuries and damage to objects after a fall. Check the lifting means carefully every time before use.

- A permanent rotational movement under load significantly reduces the service life of the VIP swivel adapter VWA.
- The ball bearing must not be dismantled.
- The VIP swivel adapter rib must not be subject to bending loads.
- The VIP swivel adapter VWA may only be used by authorised and instructed persons in compliance with BGR 500, Chapter 2.8, and in compliance with any valid national regulations if used outside Germany.

## 2 Intended use

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VIP swivel adapters may only be used to set up or mount lifting means in conjunction with VIP chains and VIP clevis components.

They are designed for untwisting lifting means and are rotatable under load. A permanent rotational movement under load significantly reduces the service life of the VIP swivel adapter VWA.

The VIP swivel adapter may only be used for the purposes described here.

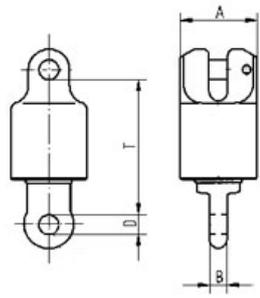
## 3 Instructions for mounting and use

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### 3.1 General information

- Temperature suitability:  
It is not recommended for use at higher temperatures because of the grease filling in the ball bearings. If this cannot be avoided, the load-bearing capacities of the VWA are reduced as follows:
  - -40°C to 200°C no reduction
  - 200°C to 300°C minus 10 %
  - 300°C to 400°C minus 25 %
  - Temperatures over 400°C are not permissible!
- VIP swivel adapters VWA must not be allowed to come into contact with aggressive chemicals, acids and their vapours.

Designation	Load-bearing cap. [t]	ND chain	A [mm]	B [mm]	D [mm]	T [mm]	Weight [kg/pc]	Art. no.
VWA-16	10.0	16	70	16.4	19.3	115	2.8	7100633
VWA-20	16.0	20	100	21	25	147	6.7	7990723
VWA-22	20.0	22	102	23	28	147	6.8	7100634



### 3.2 Notes on mounting

- VIP chains of the correct dimensions can be mounted in the RUD clevis without mix-up.
- VIP clevis components can be attached to the VWA adapter rib without mix-up.

The following always applies:

- Only fit connecting bolts with H1-10 stamp.
- Mount the clamping sleeve to secure the connecting bolt in such a way in the clevis that the slot of the clamping sleeve is clearly facing the front.
- Use the clamping sleeve only once.
- Use only original RUD replacement parts.
- Then check that everything has been mounted correctly (see Section 4 *Test criteria*).

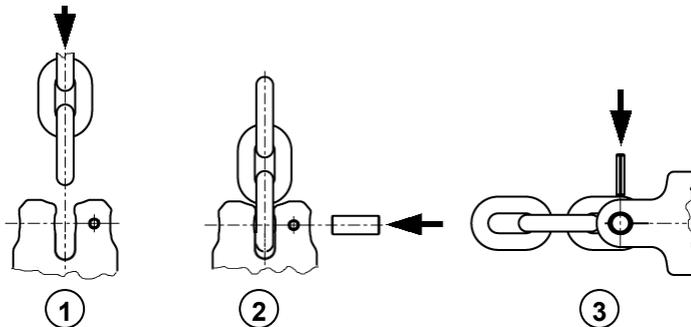


Fig. 1: Mounting sequence

### 3.3 Notes on use

- At regular intervals and every time before putting into service, check the entire lifting means to ensure that they are still suitable for their purpose, for heavy corrosion, wear occurrence, deformations etc. (see Section 4 *Test criteria*).



#### CAUTION

Incorrectly mounted or damaged lifting means and improper use can lead to injuries and damage to objects after a fall. Check the lifting means carefully every time before use.

- If possible leave the immediate danger zone.
- Always supervise your suspended loads.
- Avoid impacting or jolting loads.
- Observe the operating instructions for RUD sling chains for all the lifting means.

### 3.4 Notes on regular checks

Based on the loads to which the equipment is subjected, arrange for an expert to check the continued suitability of the lifting means (see Section 4 *Test criteria*) at regular intervals, however at least once a year.

Depending on the application conditions, e.g. when used frequently or if there is a higher level of wear occurrence or corrosion, it may be necessary to carry out inspections at intervals of less than a year.

## 4 Test criteria

Observe and check the following parameters every time before commissioning, at regular intervals, after assembly and after special incidents:

- The black rubber ring on the adapter rib must not be visible at the housing or protrude (Fig. 2).
- VIP swivel adapter is complete
- Legible size and manufacturer symbols
- Mechanical damage such as large notches, particularly in areas subject to tensile loads
- Locking disc on the side is tight
- Changes in cross-section due to wear occurrence > 10 %, particularly at the connection bolt and at the adapter rib
- Cracks or other damage, e.g. deformation of the adapter rib etc.

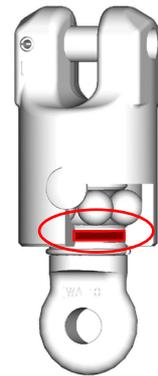


Fig. 2:  
Position of rubber ring on the adapter rib

## 5 Notes on repairs

- Repair work may only be carried out by experts who have the necessary skills and expertise.
- Use only original RUD replacement parts and enter the repairs carried out on the chain index card (of the complete lifting means).
- VIP swivel adapters must not be exposed to the test load (crack test only).



### CAUTION

Removal of the ball bearing can lead to injuries and damage to objects after a fall.  
Do not remove the ball bearing.